Open Source Used In NXOS-MDS Platform 9.4.1

Cisco Systems, Inc.
www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Text Part Number: 78EE117C99-1537115164

This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please submit this form.

In your requests please include the following reference number 78EE117C99-1537115164

Contents

1.1 pep517 0.12.0
1.1.1 Available under license
1.2 perl 5.14.2
1.2.1 Available under license
1.3 gnutls 3.3.17.1
1.3.1 Available under license
1.4 tdb 1.45.6
1.4.1 Available under license
1.5 grpc-go 1.44.0
1.5.1 Available under license
1.6 x-exp 0.0.0-20230314191032-db074128a8ec
1.6.1 Available under license
1.7 paesslerag-jsonpath 0.1.1
1.7.1 Available under license
1.8 grub2 1.99
1.8.1 Available under license
1.9 d-bus 1.8.2
1.9.1 Available under license
1.10 golang 1.20.5
1.10.1 Available under license
1.11 go-sysconf 0.3.11
1.11.1 Available under license
1.12 openssh 6.2
1.12.1 Available under license
1.13 berkeley-db 5.3.28
1.13.1 Available under license

1.14 m4 1.4.18
1.14.1 Available under license
1.15 go-playground-universal-translator 0.18.0
1.15.1 Available under license
1.16 safeclib 3.0.1
1.16.1 Available under license
1.17 go.mongodb.org-mongo-driver 1.11.4
1.17.1 Available under license
1.18 readline 6.3
1.18.1 Available under license
1.19 pciutils 3.3.1
1.19.1 Available under license
1.20 go-multierror 1.1.1
1.20.1 Available under license
1.21 kmod 21
1.21.1 Available under license
1.22 trilead-ssh 1.0.0-build221
1.22.1 Available under license
1.23 utils 0.0.0-20220210201930-3a6ce19ff2f9
1.23.1 Available under license
1.24 ethtool 4.0
1.24.1 Available under license
1.25 u-boot 2010.03
1.25.1 Available under license
1.26 openssl 1.0.1p
1.26.1 Notifications
1.26.2 Available under license
1.27 tar 1.34
1.27.1 Available under license
1.28 libgpg-error 1.19
1.28.1 Available under license
1.29 gdb 7.10.1
1.29.1 Available under license
1.30 golang-protobuf-extensions 1.0.1
1.30.1 Available under license
1.31 libjpeg 6b
1.31.1 Notifications
1.31.2 Available under license
1.32 csrp 1.0

1.32.1 Available under license
1.33 libtommath 0.42.0
1.33.1 Available under license
1.34 grep 3.1
1.34.1 Available under license
1.35 golang 1.18.2
1.35.1 Available under license
1.36 vault-sdk 0.4.1
1.36.1 Available under license
1.37 dosfs-tools 4.1
1.37.1 Available under license
1.38 selinux 3.3
1.38.1 Available under license
1.39 creack 1.1.17
1.39.1 Available under license
1.40 goprotobuf 1.5.2
1.40.1 Available under license
1.41 libxml2 2.9.4
1.41.1 Available under license
1.42 python-certifi 2021.10.08
1.42.1 Available under license
1.43 toml 0.10.0
1.43.1 Available under license
1.44 zlib 1.2.5
1.44.1 Available under license
1.45 sudo 1.9.5p2
1.45.1 Available under license
1.46 file 5.34
1.46.1 Available under license
1.47 libnl3 3.4.0
1.47.1 Available under license
1.48 xerces-j 2.12.2
1.48.1 Available under license
1.49 wireshark 1.10.14
1.49.1 Available under license
1.50 grub 0.97
1.50.1 Available under license
1.51 gdbm 1.18
1.51.1 Available under license

1.52 e2fsprogs 1.45.6
1.52.1 Available under license
1.53 gopsutil 3.23.6
1.53.1 Available under license
1.54 libffi 3.1
1.54.1 Available under license
1.55 minio-go 7.0.10
1.55.1 Available under license
1.56 dgrijalva-jwt-go 4.0.0-preview1
1.56.1 Available under license
1.57 goterm 0.0.0-20190703233501-fc88cf888a3f
1.57.1 Available under license
1.58 libgcrypt 1.9.4
1.58.1 Available under license
1.59 glibc 2.8
1.59.1 Available under license
1.60 ndfc-distrace 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8
1.60.1 Available under license
1.61 libxml2 2.9.12
1.61.1 Available under license
1.62 prometheus-common 0.37.0
1.62.1 Available under license
1.63 setserial 2.17
1.63.1 Available under license
1.64 zip 3.0
1.64.1 Available under license
1.65 ndfc-kafka 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8
1.65.1 Available under license
1.66 curl 7.87.0
1.66.1 Available under license
1.67 grpc-go 1.46.0
1.67.1 Available under license
1.68 sudo 1.8.14p3
1.68.1 Available under license
1.69 pbkdf2 1.0.0
1.69.1 Available under license
1.70 go-openapi-jsonreference 0.20.0
1.70.1 Available under license
1.71 parted 3.2

1.71.1 Available under license
1.72 speexdsp 1.2
1.72.1 Available under license
1.73 futures 3.3.0
1.73.1 Available under license
1.74 sim-agent-masterapi 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.74.1 Available under license
1.75 libnss-mdns 0.10
1.75.1 Available under license
1.76 e2fsprogs 1.42.9
1.76.1 Available under license
1.77 olivere-elastic 7.0.32
1.77.1 Available under license
1.78 libedit 20130712-3.1
1.78.1 Available under license
1.79 zstd 1.4.4
1.79.1 Available under license
1.80 dom 1.0
1.80.1 Available under license
1.81 golang-jwt 4.0.0
1.81.1 Available under license
1.82 binutils 2.25.51
1.82.1 Available under license
1.83 sysv-init 2.86-1
1.83.1 Available under license
1.84 flex 2.6.0
1.84.1 Available under license
1.85 etcd 3.4.10
1.85.1 Available under license
1.86 ipsec-tools 0.8.2
1.86.1 Available under license
1.87 at 3.1.20
1.87.1 Available under license
1.88 zlib 1.2.3
1.88.1 Available under license
1.89 sysklogd 1.5.0
1.89.1 Available under license
1.90 pkix-ssh 12.5.1
1.90.1 Available under license

1.91 lvm2 2.02.180
1.91.1 Available under license
1.92 libevent 2.1.8
1.92.1 Available under license
1.93 python 3.7.10
1.93.1 Available under license
1.94 bzip2 1.0.6-13.el7
1.94.1 Available under license
1.95 ifupdown 1.0
1.95.1 Available under license
1.96 libpcap 1.4.0
1.96.1 Available under license
1.97 libtirpc 0.2.5
1.97.1 Available under license
1.98 python-pip 22.0.4
1.98.1 Available under license
1.99 packaging 21.3
1.99.1 Available under license
1.100 racoon 0.8.2
1.100.1 Available under license
1.101 queue 1.1.0
1.101.1 Available under license
1.102 libxcrypt 4.4.36
1.102.1 Available under license
1.103 go-cleanhttp 0.5.2
1.103.1 Available under license
1.104 u-boot 2010.03
1.104.1 Available under license
1.105 kubernetes-client 0.24.0
1.105.1 Available under license
1.106 python 2.7.2
1.106.1 Available under license
1.107 curl 7.74.0
1.107.1 Available under license
1.108 go-rootcerts 1.0.2
1.108.1 Available under license
1.109 boringssl 0.12.0.0
1.109.1 Available under license
1.110 gdb 8.2

1.110.1 Available under license
1.111 gcache 0.0.1
1.111.1 Available under license
1.112 jcommon 0.7.2
1.112.1 Available under license
1.113 readline 4.1
1.113.1 Available under license
1.114 mergo 0.3.8
1.114.1 Available under license
1.115 dc 1.06
1.115.1 Available under license
1.116 mtd-utils 1.5.1
1.116.1 Available under license
1.117 liblinear 2.3.0
1.117.1 Available under license
1.118 visual-studio-runtime 14.00.24210.0
1.118.1 Available under license
1.119 graceful 1.2.15
1.119.1 Available under license
1.120 tcpdump 4.7.4
1.120.1 Available under license
1.121 gawk 4.0.0
1.121.1 Available under license
1.122 openssh 7.8p1
1.122.1 Available under license
1.123 gettext 0.19.4
1.123.1 Available under license
1.124 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21
1.124.1 Available under license
1.125 jmespath-community-go-jmespath 1.1.1-0.20230531184041-4a4bfbff5d01
1.125.1 Available under license
1.126 bzip2 1.0.8
1.127 spew 1.1.1
1.127.1 Available under license
1.128 libunistring 0.9.10
1.128.1 Available under license
1.129 curl 7.74.0
1.129.1 Available under license
1.130 mxj 2.5.5

1.130.1 Available under license
1.131 sim-master-types 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.131.1 Available under license
1.132 jbcrypt 0.4
1.132.1 Available under license
1.133 x-crypto 0.0.0-20220411220226-7b82a4e95df4
1.133.1 Available under license
1.134 tcp-wrappers 7.6
1.134.1 Available under license
1.135 i2c-tools 3.1
1.135.1 Available under license
1.136 x-sys 0.8.0
1.136.1 Available under license
1.137 libgcrypt 1.6.3
1.137.1 Available under license
1.138 openssh 7.1p1
1.138.1 Available under license
1.139 groff 1.22.3
1.139.1 Available under license
1.140 readline 6.2
1.140.1 Available under license
1.141 util-linux 2.32.1
1.141.1 Available under license
1.142 sg3-utils 1.47
1.142.1 Available under license
1.143 libpcap 1.6.2
1.143.1 Available under license
1.144 sim-agent-devicetaskmgr 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.144.1 Available under license
1.145 dhcp 4.3.2
1.145.1 Available under license
1.146 an-barcelona 0.0.0
1.146.1 Available under license
1.147 lib-pq 1.10.6
1.147.1 Available under license
1.148 asn1 2.4.1
1.148.1 Available under license
1.149 kubernetes-client 0.26.2

1.149.1 Available under license

1.150 libpcap 1.9.1

1.150.1 Available under license

1.151 urllib3 1.26.6-1.ph1

1.151.1 Available under license

1.152 pinentry 0.9.2

1.152.1 Available under license

1.153 json-c 0.9

1.153.1 Available under license

1.154 vim 8.1

1.155 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

1.155.1 Available under license

1.156 html5lib 1.0.1

1.156.1 Available under license

1.157 acl 2.2.52

1.157.1 Available under license

1.158 nettle 3.1.1

1.158.1 Available under license

1.159 chardet 4.0.0

1.159.1 Available under license

1.160 color 1.13.0

1.160.1 Available under license

1.161 go-retryablehttp 0.7.1

1.161.1 Available under license

1.162 goprocinfo 0.0.0-20210130143923-c95fcf8c64a8

1.162.1 Available under license

1.163 protobuf 1.27.1

1.163.1 Available under license

1.164 shadow 4.2.1

1.164.1 Available under license

1.165 zap 1.19.1

1.165.1 Available under license

1.166 hd-parm 9.48

1.166.1 Available under license

1.167 ndfc-dcnmcms 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.167.1 Available under license

1.168 u-boot 2010.3

1.168.1 Available under license

1.169 net-snmp 5.1

1.169.1 Available under license
1.170 bash 4.2.10
1.170.1 Available under license
1.171 sed 4.2.2
1.171.1 Available under license
1.172 nfs-utils 1.3.0
1.172.1 Available under license
1.173 gogo-protobuf 1.3.2
1.173.1 Available under license
1.174 libdaemon 0.14
1.174.1 Available under license
1.175 sim-agent-api 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.175.1 Available under license
1.176 libproxy 0.4.11
1.176.1 Available under license
1.177 sha1sum-aws_signing_client 0.0.0-20200229211254-f7815c59d5c1
1.177.1 Available under license
1.178 logr 1.2.2
1.178.1 Available under license
1.179 openssl 1.1.1q
1.179.1 Available under license
1.180 attr 2.4.47
1.180.1 Available under license
1.181 diffutils 3.6
1.181.1 Available under license
1.182 xml-apis 1.4.01
1.182.1 Available under license
1.183 olivere-elastic 5.0.60
1.183.1 Available under license
1.184 boringssl 0.12.0.0
1.184.1 Notifications
1.184.2 Available under license
1.185 sim-scp 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.185.1 Available under license
1.186 readline 7.0
1.186.1 Available under license
1.187 go-colorable 0.1.12
1.187.1 Available under license
1.188 sqlite 3.18.0

1.188.1 Available under license
1.189 libassuan 2.5.1
1.189.1 Available under license
1.190 makedumpfile 1.6.4
1.190.1 Available under license
1.191 golang 1.18.2
1.191.1 Available under license
1.192 curl 7.85.0
1.192.1 Available under license
1.193 bind 9.10.2
1.193.1 Available under license
1.194 pcre 8.44
1.194.1 Available under license
1.195 lzo 2.09
1.195.1 Available under license
1.196 sysv-init 2.86-1
1.196.1 Available under license
1.197 python-requests 2.27.1
1.197.1 Available under license
1.198 resty 2.7.0
1.198.1 Available under license
1.199 yaml 1.3.0
1.199.1 Available under license
1.200 google-uuid 1.3.0
1.200.1 Available under license
1.201 pkcs8 0.0.0-20181117223130-1be2e3e5546d
1.201.1 Available under license
1.202 kubernetes-api 0.21.4
1.202.1 Available under license
1.203 utils 0.0.0-20201110183641-67b214c5f920
1.203.1 Available under license
1.204 cavaliercoder-go-rpm 0.0.0-20190131055624-7a9c54e3d83e
1.204.1 Available under license
1.205 otel-internal-metric 0.27.0
1.205.1 Available under license
1.206 kubernetes-klog 2.60.1
1.206.1 Available under license
1.207 sqlite 3.40.1
1.207.1 Available under license

1.208 gofuzz 1.1.0
1.208.1 Available under license
1.209 @andromeda/an-apollo 1.0.11-7723
1.209.1 Available under license
1.210 strace 4.5
1.210.1 Available under license
1.211 urllib3 1.25.8-2ubuntu0.1
1.211.1 Available under license
1.212 unimrcp 1.10.1
1.212.1 Available under license
1.213 mail 1.4
1.213.1 Available under license
1.214 go-hclog 1.2.0
1.214.1 Available under license
1.215 kube-openapi 0.0.0-20220328201542-3ee0da9b0b42
1.215.1 Available under license
1.216 scram 1.1.1
1.216.1 Available under license
1.217 gorilla 1.8.0
1.217.1 Available under license
1.218 iw 4.1
1.218.1 Available under license
1.219 coreutils 8.24
1.219.1 Available under license
1.220 pinentry 0.9.2
1.220.1 Available under license
1.221 nexusdash-golang-core 0.1.0-rajenata.11
1.221.1 Available under license
1.222 scipy 1.10.0.dev
1.222.1 Available under license
1.223 cavium-liquidio 3.1.2
1.223.1 Available under license
1.224 go-resiliency 1.2.0
1.224.1 Available under license
1.225 libuser 0.62
1.225.1 Available under license
1.226 mitchellh-copystructure 1.2.0
1.226.1 Available under license
1.227 pkix-ssh 12.1

1.227.1 Available under license

1.228 numcpus 0.6.0

1.228.1 Available under license

1.229 xerces-j 2.7.1

1.229.1 Available under license

1.230 tdb 1.43

1.230.1 Available under license

1.231 etree 1.1.1-0.20200718192613-4a2f8b9d084c

1.231.1 Available under license

1.232 montanaflynn-stats 0.0.0-20171201202039-1bf9dbcd8cbe

1.232.1 Available under license

1.233 pierrec-lz4 2.6.1+incompatible

1.233.1 Available under license

1.234 wireshark 1.10.1

1.234.1 Available under license

1.235 netbsd-resolv 2.22

1.235.1 Available under license

1.236 augeas 1.4.0

1.236.1 Available under license

1.237 keypoint-pngencoder 0.7.2

1.237.1 Available under license

1.238 packaging 20.4

1.238.1 Available under license

1.239 structured-merge-diff 4.1.2

1.239.1 Available under license

1.240 libaio 0.3.109

1.240.1 Available under license

1.241 iptables 1.14.21

1.241.1 Available under license

1.242 gdbm 1.8.3

1.242.1 Available under license

1.243 binutils 2.36.1

1.243.1 Available under license

1.244 kube-openapi 0.0.0-20221012153701-172d655c2280

1.244.1 Available under license

1.245 ndfc-aas 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.245.1 Available under license

1.246 python 2.7.9

1.246.1 Available under license

1.247 goautoneg 0.0.0-20191010083416-a7dc8b61c822
1.247.1 Available under license
1.248 flex 2.5.39
1.248.1 Available under license
1.249 gnupg 2.1.7
1.249.1 Available under license
1.250 libtecla 1.4.1
1.250.1 Available under license
1.251 otel-exporters-otlp-internal-retry 1.4.1
1.251.1 Available under license
1.252 go-jose 2.6.0
1.252.1 Available under license
1.253 tar 1.26
1.253.1 Available under license
1.254 protobuf 1.28.1
1.254.1 Available under license
1.255 golang-snappy 0.0.4
1.255.1 Available under license
1.256 packaging 20.3
1.256.1 Available under license
1.257 netkit-telnet 0.17
1.257.1 Available under license
1.258 gorilla 1.4.2
1.258.1 Available under license
1.259 kexec-tools 2.0.7
1.259.1 Available under license
1.260 cronie 1.5.0
1.260.1 Available under license
1.261 cjson 1.7.15
1.261.1 Available under license
1.262 kexec-tools 2.0.23
1.262.1 Available under license
1.263 cpio 2.12
1.263.1 Available under license
1.264 berkeley-db 5.3.28
1.264.1 Available under license
1.265 nfs-utils 3.1.1
1.265.1 Available under license
1.266 tenacity 7.0.0

1.266.1 Available under license

1.267 scipy 1.2.3

1.267.1 Available under license

1.268 wget 1.21.3

1.268.1 Available under license

1.269 namespace 1.4.01

1.269.1 Available under license

1.270 manveru-trie 0.0.0-20130618104229-c02825966377

1.270.1 Available under license

1.271 netkit-ftp 0.17

1.271.1 Available under license

1.272 sim-switchdb 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.272.1 Available under license

1.273 xz 5.2.4

1.273.1 Available under license

1.274 golang 1.19.4

1.274.1 Available under license

1.275 backoff 4.1.2

1.275.1 Available under license

1.276 mattn-go-isatty 0.0.14

1.276.1 Available under license

1.277 errwrap 1.1.0

1.277.1 Available under license

1.278 xz 5.2.1

1.278.1 Available under license

1.279 libnss-nis 3.2

1.279.1 Available under license

1.280 x-time-rate 0.0.0-20220411224347-583f2d630306

1.280.1 Available under license

1.281 nanopb 0.12

1.281.1 Available under license

1.282 hashicorp-go-cleanhttp 0.5.2

1.282.1 Available under license

1.283 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

1.283.1 Available under license

1.284 paesslerag-gval 1.0.0

1.284.1 Available under license

1.285 x-oauth2 0.0.0-20220223155221-ee480838109b

1.285.1 Available under license

1.286 bind 9.11.37
1.286.1 Available under license
1.287 libksba 1.3.3
1.287.1 Available under license
1.288 structured-merge-diff 4.2.1
1.288.1 Available under license
1.289 wireshark 3.2.18
1.289.1 Available under license
1.290 openssl 1.0.2zh
1.290.1 Available under license
1.291 kexec-tools 2.0.2
1.291.1 Available under license
1.292 x-sys 0.9.0
1.292.1 Available under license
1.293 lapack 1.15.1
1.293.1 Available under license
1.294 scram 1.0.2
1.294.1 Available under license
1.295 time 1.7
1.295.1 Available under license
1.296 tcl 8.4.6
1.296.1 Available under license
1.297 libtasn 2.5
1.297.1 Available under license
1.298 otel-sdk 1.4.0
1.298.1 Available under license
1.299 keypoint-pngencoder 0.7.2
1.299.1 Available under license
1.300 structured-merge-diff 4.2.3
1.300.1 Available under license
1.301 sysfsutils 1.2.0
1.301.1 Available under license
1.302 log-rotate 3.14.0
1.302.1 Available under license
1.303 x-text 0.7.0
1.303.1 Available under license
1.304 go-uber-org-multierr 1.6.0
1.304.1 Available under license
1.305 ftpd 1.9.4

1.305.1 Available under license

1.306 otel-exporters-otlp-otlpmetric 0.27.0

1.306.1 Available under license

1.307 colorama 0.4.4

1.307.1 Available under license

1.308 yaml 1.2.0

1.308.1 Available under license

1.309 flexnet-publisher 10.8.0.1

1.309.1 Available under license

1.310 sim-agent-types 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.310.1 Available under license

1.311 linux_kernel_zlib 4.1.21

1.311.1 Available under license

1.312 otel-metric 0.27.0

1.312.1 Available under license

1.313 miekg-dns 0.0.0-20171030065549-a5852667e3c3

1.313.1 Available under license

1.314 gopkg.in-yaml 3.0.1

1.314.1 Available under license

1.315 iptables 1.6.2

1.315.1 Available under license

1.316 shared-mime-info 1.1

1.316.1 Available under license

1.317 webencodings 0.5.1

1.317.1 Available under license

1.318 free-type 2.5.3

1.318.1 Available under license

1.319 curl 7.88.1

1.319.1 Available under license

1.320 open-ldap 2.4.46

1.320.1 Available under license

1.321 distlib 0.3.3

1.321.1 Available under license

1.322 klauspost-compress 1.13.6

1.322.1 Available under license

1.323 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

1.323.1 Available under license

1.324 coreutils 8.30

1.324.1 Available under license

1.325 lzo 2.10
1.325.1 Available under license
1.326 ed 1.9
1.326.1 Available under license
1.327 sysklogd 1.5.0
1.327.1 Available under license
1.328 autogen 5.10
1.328.1 Available under license
1.329 kubernetes-api 0.26.2
1.329.1 Available under license
1.330 jcommon 0.7.2
1.330.1 Available under license
1.331 gojsonschema 1.2.0
1.331.1 Available under license
1.332 libusb-compat 0.1.0
1.332.1 Available under license
1.333 xml-apis 1.4.01
1.333.1 Available under license
1.334 open-telemetry-opentelemetry-collector-contrib 1.4.0
1.334.1 Available under license
1.335 curl 7.77.0
1.335.1 Available under license
1.336 cpio 2.11
1.336.1 Available under license
1.337 tftp-hpa 0.28
1.337.1 Available under license
1.338 gopkg.in-ini 1.67.0
1.338.1 Available under license
1.339 gopkg.in-yaml 2.4.0
1.339.1 Available under license
1.340 fsnotify 1.6.0
1.340.1 Available under license
1.341 grep 2.21
1.341.1 Available under license
1.342 linux-kernel 5.10.149
1.342.1 Available under license
1.343 expat 2.2.6
1.343.1 Available under license
1.344 iputils s20121221

1.344.1 Available under license

1.345 go-shellwords 1.0.12

1.345.1 Available under license

1.346 yamux 0.0.0-20211028200310-0bc27b27de87

1.346.1 Available under license

1.347 c-ares 1.17.0

1.347.1 Available under license

1.348 libtasn 4.19.0

1.348.1 Available under license

1.349 netkit-ftp 0.17

1.349.1 Available under license

1.350 mpdecimal 2.4.2

1.350.1 Available under license

1.351 sqlite 3.39.3

1.351.1 Available under license

1.352 x-net 0.0.0-20220425223048-2871e0cb64e4

1.352.1 Available under license

1.353 google-go-cmp 0.5.9

1.353.1 Available under license

1.354 mitchellh-mapstructure 1.5.0

1.354.1 Available under license

1.355 xuri-efp 0.0.0-20210322160811-ab561f5b45e3

1.355.1 Available under license

1.356 joblib 0.13.2

1.356.1 Available under license

1.357 x-oauth2 0.0.0-20210819190943-2bc19b11175f

1.357.1 Available under license

1.358 findutils 4.5.14

1.358.1 Available under license

1.359 xinetd 2.3.15

1.359.1 Available under license

1.360 iconv 2.22

1.360.1 Available under license

1.361 libcap 2.25

1.361.1 Available under license

1.362 tcl 8.6.8

1.362.1 Available under license

1.363 m4 1.4.17

1.363.1 Available under license

1.364 perl 5.22.0

1.364.1 Available under license

1.365 proto-otlp 0.12.0

1.365.1 Available under license

1.366 pciutils 3.6.2

1.366.1 Available under license

1.367 armon-go-metrics 0.3.11

1.367.1 Available under license

1.368 procps 3.3.10

1.368.1 Available under license

1.369 goterm 0.0.0-20200907032337-555d40f16ae2

1.369.1 Available under license

1.370 otel-sdk-metric 0.27.0

1.370.1 Available under license

1.371 ncurses 6.3

1.371.1 Available under license

1.372 tar 1.28

1.372.1 Available under license

1.373 hostapd 2.4

1.373.1 Available under license

1.374 bash 4.3.43

1.374.1 Available under license

1.375 groupcache 0.0.0-20210331224755-41bb18bfe9da

1.375.1 Available under license

1.376 d-bus 1.12.10

1.376.1 Available under license

1.377 flexlm 10.1.3

1.377.1 Available under license

1.378 msgpack 1.0.0

1.378.1 Available under license

1.379 golang-genproto 0.0.0-20220505152158-f39f71e6c8f3

1.379.1 Available under license

1.380 xxhash 2.1.2

1.380.1 Available under license

1.381 gopsutil 3.23.5

1.381.1 Available under license

1.382 go-openapi-jsonpointer 0.19.5

1.382.1 Available under license

1.383 acpica 20180629

1.383.1 Available under license

1.384 go-isatty 0.0.14

1.384.1 Available under license

1.385 sarama 1.27.2

1.385.1 Available under license

1.386 lcms 1.16

1.386.1 Available under license

1.387 libevdev 1.12.1

1.387.1 Available under license

1.388 x-sys 0.0.0-20220307203707-22a9840ba4d7

1.388.1 Available under license

1.389 python-requests 2.23.0

1.389.1 Available under license

1.390 ryanuber-go-glob 1.0.0

1.390.1 Available under license

1.391 json-iterator-go 1.1.11

1.391.1 Available under license

1.392 psmisc 22.21

1.392.1 Available under license

1.393 flexnet-publisher 10.1.3

1.393.1 Available under license

1.394 leodido-go-urn 1.2.1

1.394.1 Available under license

1.395 crestonbunch-godata 1.0.6

1.395.1 Available under license

1.396 giflib 4.2

1.396.1 Available under license

1.397 ifupdown 0.8.41

1.397.1 Available under license

1.398 glib 2.44.1

1.398.1 Available under license

1.399 zlib 1.2.12

1.399.1 Available under license

1.400 jcommon 1.0.16

1.400.1 Available under license

1.401 kubernetes-client 0.21.4

1.401.1 Available under license

1.402 shared-mime-info 1.1

1.402.1 Available under license

1.403 hashicorp-go-secure-stdlib-parseutil 0.1.4

1.403.1 Available under license

1.404 go.uber.org/atomi 1.9.0

1.404.1 Available under license

1.405 x-net 0.0.0-20220225172249-27dd8689420f

1.405.1 Available under license

1.406 libksba 1.3.5

1.406.1 Available under license

1.407 commons-io 2.11.0

1.407.1 Available under license

1.408 numpy 1.22.3

1.408.1 Available under license

1.409 rich 13.4.2

1.409.1 Available under license

1.410 ndfc-ndhttp 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.410.1 Available under license

1.411 jcmturner-aescts 1.0.1

1.411.1 Available under license

1.412 aws-sdk-go 1.43.21

1.412.1 Available under license

1.413 sudo 1.9.13p3

1.413.1 Available under license

1.414 structured-merge-diff 4.2.3

1.414.1 Available under license

1.415 pam 1.1.6

1.415.1 Available under license

1.416 xdg-go-stringprep 1.0.3

1.416.1 Available under license

1.417 sim-mongostore 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.417.1 Available under license

1.418 kr 1.1.8

1.418.1 Available under license

1.419 ndfc-minio 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.419.1 Available under license

1.420 libusb 1.0.19

1.420.1 Available under license

1.421 freeipmi 1.10.1

1.421.1 Available under license

1.422 readline 5.2

1.422.1 Available under license

1.423 prometheus-client 0.2.0

1.423.1 Available under license

1.424 utils 0.0.0-20221107191617-1a15be271d1d

1.424.1 Available under license

1.425 lzo 2.06-8.el7

1.425.1 Available under license

1.426 sigs.k8s.io-json 0.0.0-20220713155537-f223a00ba0e2

1.426.1 Available under license

1.427 log-rotate 3.9.1

1.427.1 Available under license

1.428 bzip2 1.0.6

1.428.1 Available under license

1.429 errors 0.9.1

1.429.1 Available under license

1.430 lsof 4.89

1.430.1 Available under license

1.431 hashicorp-uuid 1.0.3

1.431.1 Available under license

1.432 oklog-run 1.1.0

1.432.1 Available under license

1.433 golang 1.20.5

1.433.1 Available under license

1.434 selinux 3.0

1.434.1 Available under license

1.435 deejross-go-snmplib 0.0.0-20190126151901-0ff3fc321a43

1.435.1 Available under license

1.436 glibc 2.22

1.436.1 Available under license

1.437 grpc-gateway 1.16.0

1.437.1 Available under license

1.438 msgpack 1.0.3

1.438.1 Available under license

1.439 logr 1.2.3

1.439.1 Available under license

1.440 zlib 1.2.11

1.440.1 Available under license

1.441 libuser 0.62

1.441.1 Available under license

1.442 openssh 8.0-p1

1.442.1 Available under license

1.443 activation 1.1

1.443.1 Available under license

1.444 berkeley-db 6.0.30

1.444.1 Available under license

1.445 kubernetes-klog 2.40.1

1.445.1 Available under license

1.446 commons-net 3.9.0

1.446.1 Available under license

1.447 util-linux 2.26.0

1.447.1 Available under license

1.448 sqlite 3.8.10.2

1.448.1 Available under license

1.449 distlib 0.3.0

1.449.1 Available under license

1.450 purell 1.1.1

1.450.1 Available under license

1.451 go-sockaddr 1.0.2

1.451.1 Available under license

1.452 perks 1.0.1

1.452.1 Available under license

1.453 lrzsz 0.12.20

1.453.1 Available under license

1.454 libpng 1.6.37

1.454.1 Available under license

1.455 autogen 5.10

1.455.1 Available under license

1.456 pierrec-lz4 2.5.2+incompatible

1.456.1 Available under license

1.457 free-type 11.0.18+10

1.457.1 Available under license

1.458 python-pip 20.1.1

1.458.1 Available under license

1.459 @andromeda/an-apollo 1.0.11-6666

1.459.1 Available under license

1.460 speexdsp 1.2

1.460.1 Available under license

1.461 go-jmespath 0.4.0

1.461.1 Available under license
1.462 acpica 20180629
1.462.1 Available under license
1.463 goexpect 0.0.0-20210430020637-ab937bf7fd6f
1.463.1 Available under license
1.464 360entsecgroup-skylar-excelize 2.4.0
1.464.1 Available under license
1.465 an-apollo 0.0.0
1.465.1 Available under license
1.466 openssl 1.0.2k
1.466.1 Notifications
1.466.2 Available under license
1.467 protobuf 1.28.1
1.467.1 Available under license
1.468 flexnet-publisher 10.1.3
1.468.1 Available under license
1.469 pcre 7.8
1.469.1 Available under license
1.470 bash 4.4.23
1.470.1 Available under license
1.471 time 1.7
1.471.1 Available under license
1.472 bash 3.2.33
1.472.1 Available under license
1.473 lvm2 2.02.125
1.473.1 Available under license
1.474 avahi 0.7
1.474.1 Available under license
1.475 nose 1.3.7
1.475.1 Available under license
1.476 safeclib 4.0.45
1.476.1 Available under license
1.477 util-linux 2.26.2
1.477.1 Available under license
1.478 sim-serverproperty 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.478.1 Available under license
1.479 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f
1.479.1 Available under license
1.480 openssl 1.0.2w

1.480.1 Available under license
1.481 openssl 1.0.2ze
1.481.1 Available under license
1.482 cpuid 1.3.1
1.482.1 Available under license
1.483 hashicorp-go-version 1.4.0
1.483.1 Available under license
1.484 ftpd 1.9.4
1.484.1 Available under license
1.485 jcmturner-gokrb 7.5.0
1.485.1 Available under license
1.486 asm 9.5
1.486.1 Available under license
1.487 linux-kernel 5.10.170
1.487.1 Available under license
1.488 zlib 1.1.4
1.488.1 Available under license
1.489 strace 4.10
1.489.1 Available under license
1.490 sysv-init 2.88
1.490.1 Available under license
1.491 e2fsprogs 1.43
1.491.1 Available under license
1.492 mdadm 3.3.1
1.492.1 Available under license
1.493 commons-io 2.7
1.493.1 Available under license
1.494 lvm2 1.02.149
1.494.1 Available under license
1.495 bc 1.06
1.495.1 Available under license
1.496 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 0.27.0
1.496.1 Available under license
1.497 fsnotify 1.4.9
1.497.1 Available under license
1.498 sysklogd 1.5.1
1.498.1 Available under license
1.499 thttpd 2.25b
1.499.1 Available under license

1.500 gofrs-uuid 4.2.0+incompatible

1.500.1 Available under license

1.501 flexnet-publisher 10.8.0.1

1.501.1 Available under license

1.502 gopkg.in-inf 0.9.1

1.502.1 Available under license

1.503 hashicorp-go-plugin 1.4.4

1.503.1 Available under license

1.504 md5-simd 1.1.0

1.504.1 Available under license

1.505 audit 3.12.gf885037

1.505.1 Available under license

1.506 sim-agent-jobmgr 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.506.1 Available under license

1.507 kubernetes-apimachinery 0.24.0

1.507.1 Available under license

1.508 xdg-go-stringprep 1.0.2

1.508.1 Available under license

1.509 ncftp 3.2.6

1.509.1 Available under license

1.510 libtecla 1.4.1

1.510.1 Available under license

1.511 procps 3.3.15

1.511.1 Available under license

1.512 protobuf 1.28.1

1.512.1 Available under license

1.513 hashicorp-uuid 1.0.2

1.513.1 Available under license

1.514 libcap 2.22

1.514.1 Available under license

1.515 xerces-j 2.12.2

1.515.1 Available under license

1.516 google-gnostic 0.5.7-v3refs

1.516.1 Available under license

1.517 jsch 0.1.53

1.517.1 Available under license

1.518 kubernetes-klog 2.80.1

1.518.1 Available under license

1.519 file 5.24

1.519.1 Available under license

1.520 python-setuptools 47.1.0

1.520.1 Available under license

1.521 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

1.521.1 Available under license

1.522 hashicorp-go-secure-stdlib-strutil 0.1.2

1.522.1 Available under license

1.523 tcl 8.5.7

1.523.1 Available under license

1.524 libtirpc 1.3.3

1.524.1 Available under license

1.525 gmp 6.0.0

1.525.1 Available under license

1.526 xorg-randr 1.2

1.526.1 Available under license

1.527 pkg-sftp 1.13.4

1.527.1 Available under license

1.528 ncftp 3.2.2

1.528.1 Available under license

1.529 grpc 1.2.13

1.529.1 Available under license

1.530 hd-parm 9.56

1.530.1 Available under license

1.531 trilead-ssh 1.0.0

1.531.1 Available under license

1.532 popt 1.16

1.532.1 Available under license

1.533 d-bus 1.8.20

1.533.1 Available under license

1.534 jcmturner-dnsutils 1.0.1

1.534.1 Available under license

1.535 x-sync 0.0.0-20220601150217-0de741cfad7f

1.535.1 Available under license

1.536 go.mongodb.org-mongo-driver 1.9.1

1.536.1 Available under license

1.537 bzip2 1.0.5

1.537.1 Available under license

1.538 busybox 1.29.3

1.538.1 Available under license

1.539 idna 3.4
1.539.1 Available under license
1.540 log4j-api 2.17.1
1.540.1 Available under license
1.541 openssl 1.0.2d
1.541.1 Available under license
1.542 thttpd 2.25b
1.542.1 Available under license
1.543 python-setuptools 56.0.0
1.543.1 Available under license
1.544 usbutils 007
1.544.1 Available under license
1.545 nfs-utils 0.25
1.545.1 Available under license
1.546 unzip 3.00
1.546.1 Available under license
1.547 pinentry 1.1.0
1.547.1 Available under license
1.548 python 3.8.14
1.548.1 Available under license
1.549 elfutils 0.148
1.549.1 Available under license
1.550 lsof 4.85
1.550.1 Available under license
1.551 mcuadros-go-syslog 2.3.0
1.551.1 Available under license
1.552 backoff 3.2.2
1.552.1 Available under license
1.553 openssh 6.2p2
1.553.1 Available under license
1.554 slang 2.2.4
1.554.1 Available under license
1.555 lsof 4.71
1.555.1 Notifications
1.555.2 Available under license
1.556 @andromeda/an-apollo 1.0.11-7660
1.556.1 Available under license
1.557 googleapis-gnostic 0.4.1
1.557.1 Available under license

1.558 easyjson 0.7.7
1.558.1 Available under license
1.559 andreburgaud-crypt2go 0.13.0
1.559.1 Available under license
1.560 colorama 0.4.3
1.560.1 Available under license
1.561 inetutils 1.9.4
1.561.1 Available under license
1.562 commons-codec 1.9
1.562.1 Available under license
1.563 usbutils 007
1.563.1 Available under license
1.564 prometheus-procfs 0.8.0
1.564.1 Available under license
1.565 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637
1.565.1 Available under license
1.566 hashicorp-go-secure-stdlib-mlock 0.1.2
1.566.1 Available under license
1.567 busybox 1.23.2
1.567.1 Available under license
1.568 libusb 1.0.22
1.568.1 Available under license
1.569 gawk 4.0.2-4.el7_3.1
1.569.1 Available under license
1.570 iputils 20180629
1.570.1 Available under license
1.571 iputils 20121221
1.571.1 Available under license
1.572 curl 7.37.1
1.572.1 Available under license
1.573 setserial 2.17
1.573.1 Available under license
1.574 lsof 4.89
1.574.1 Available under license
1.575 zlib 1.2.8
1.575.1 Available under license
1.576 sg3-utils 1.45
1.576.1 Available under license
1.577 net-tools 1.60

1.577.1 Available under license
1.578 kexec-tools 2.0.17
1.578.1 Available under license
1.579 libdevmapper 1.02.102
1.579.1 Available under license
1.580 nginx 1.19.6
1.580.1 Available under license
1.581 go-restful 2.15.0+incompatible
1.581.1 Available under license
1.582 cracklib 2.9.0
1.582.1 Available under license
1.583 gawk 4.1.3
1.583.1 Available under license
1.584 yajl 2.1.0
1.584.1 Available under license
1.585 libksba 1.3.3
1.585.1 Available under license
1.586 json-iterator-go 1.1.12
1.586.1 Available under license
1.587 pciutils 0.0.0
1.587.1 Available under license
1.588 openssl 1.0.2o
1.588.1 Notifications
1.588.2 Available under license
1.589 tcl 8.6.1
1.589.1 Available under license
1.590 hd-parm 9.43
1.590.1 Available under license
1.591 gzip 1.12
1.591.1 Available under license
1.592 heimdal 1.0
1.592.1 Available under license
1.593 go-uber-org-multierr 1.6.0
1.593.1 Available under license
1.594 scikit-learn 0.20.4
1.594.1 Available under license
1.595 busybox 1.19.4
1.595.1 Available under license
1.596 sysv-init 2.88

1.596.1 Available under license

1.597 apache-log4j 2.17.1

1.597.1 Available under license

1.598 libtasn 4.16.0

1.598.1 Available under license

1.599 dchest-siphash 1.2.3-0.20210324171120-991656ee3840

1.599.1 Available under license

1.600 grpc 1.6.1.17

1.600.1 Available under license

1.601 libtomcrypt 1.17

1.601.1 Available under license

1.602 nfs-utils 1.3.1

1.602.1 Available under license

1.603 elfutils 0.175

1.603.1 Available under license

1.604 findutils 4.6.0

1.604.1 Available under license

1.605 iptables 1.4.21

1.605.1 Available under license

1.606 reflectwalk 1.0.2

1.606.1 Available under license

1.607 yajl 2.1.0

1.607.1 Available under license

1.608 tcl 8.6.4

1.608.1 Available under license

1.609 slang 2.3.2

1.609.1 Available under license

1.610 traceroute 2.0.20

1.610.1 Available under license

1.611 vim 7.4

1.611.1 Available under license

1.612 libunistring 0.9.3

1.612.1 Available under license

1.613 govaluate 3.0.1-0.20180117081542-38d806c0a2f1+incompatible

1.613.1 Available under license

1.614 spf13-pflag 1.0.5

1.614.1 Available under license

1.615 perl 5.24.4

1.615.1 Available under license

1.616 expat 2.1.0
1.616.1 Available under license
1.617 kr-fs 0.1.0
1.617.1 Available under license
1.618 wget 1.16.3
1.618.1 Available under license
1.619 libksba 1.6.3
1.619.1 Available under license
1.620 elfutils 0.163
1.620.1 Available under license
1.621 fdisk 2.26.0
1.621.1 Available under license
1.622 tftp-hpa 0.28
1.622.1 Available under license
1.623 x-crypto 0.0.0-20220507011949-2cf3adece122
1.623.1 Available under license
1.624 libdevmapper 1.02.149
1.624.1 Available under license
1.625 go-openapi-swag 0.19.14
1.625.1 Available under license
1.626 libmnl 1.0.3
1.626.1 Available under license
1.627 modern-go-reflect2 1.0.1
1.627.1 Available under license
1.628 python 3.7.3
1.628.1 Available under license
1.629 pinentry 1.1.0
1.629.1 Available under license
1.630 glibc 2.20
1.630.1 Available under license
1.631 edk2 1.30
1.631.1 Available under license
1.632 jfreechart 1.0.13
1.632.1 Available under license
1.633 libcap 2.24
1.633.1 Available under license
1.634 kubernetes-apimachinery 0.21.4
1.634.1 Available under license
1.635 html5lib 1.1

1.635.1 Available under license

1.636 pep517 0.8.2

1.636.1 Available under license

1.637 blas 2.2.1

1.637.1 Available under license

1.638 pcre 8.37

1.638.1 Available under license

1.639 urlesc 0.0.0-20170810143723-de5bf2ad4578

1.639.1 Available under license

1.640 netns 0.0.0-20211101163701-50045581ed74

1.640.1 Available under license

1.641 tcpdump 4.9.3

1.641.1 Available under license

1.642 libnsl 2.0.0

1.642.1 Available under license

1.643 grub2 1.99

1.643.1 Available under license

1.644 libcroco 0.6.8

1.644.1 Available under license

1.645 expat 2.2.9

1.645.1 Available under license

1.646 ncurses 5.9

1.646.1 Available under license

1.647 bind 9.10

1.647.1 Available under license

1.648 x-crypto 0.0.0-20220622213112-05595931fe9d

1.648.1 Available under license

1.649 commons-codec 1.9

1.649.1 Available under license

1.650 otel-trace 1.4.0

1.650.1 Available under license

1.651 at 3.1.16

1.651.1 Available under license

1.652 linux_kernel_zlib 5.10.149

1.652.1 Available under license

1.653 sysfsutils 2.1.0

1.653.1 Available under license

1.654 google-go-cmp 0.5.7

1.654.1 Available under license

1.655 packaging 16.8
1.655.1 Available under license
1.656 u-boot 1.0.1
1.656.1 Available under license
1.657 gawk 4.2.1
1.657.1 Available under license
1.658 sim-config 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245
1.658.1 Available under license
1.659 inotify-tools 3.14
1.659.1 Available under license
1.660 selinux 3.0
1.660.1 Available under license
1.661 grpc 1.0.0
1.661.1 Available under license
1.662 zap 1.23.0
1.662.1 Available under license
1.663 ifupdown 0.8.36
1.663.1 Available under license
1.664 lvm2 1.02.102
1.664.1 Available under license
1.665 glib 2.66.8
1.665.1 Available under license
1.666 an-indigo 1.5
1.666.1 Available under license
1.667 jcmturner-gofork 1.0.0
1.667.1 Available under license
1.668 x-text 0.3.7
1.668.1 Available under license
1.669 openssh 8.3-p1
1.669.1 Available under license
1.670 shadow 4.6
1.670.1 Available under license
1.671 xinetd 2.3.3
1.671.1 Available under license
1.672 net-snmp 5.1.1
1.672.1 Available under license
1.673 miura 6.3.1
1.673.1 Available under license
1.674 libevent 2.0.22

1.674.1 Available under license
1.675 icu 55
1.675.1 Available under license
1.676 jcmturner-rpc 1.1.0
1.676.1 Available under license
1.677 iproute 3.16.0
1.677.1 Available under license
1.678 zlib 1.2.13
1.678.1 Available under license
1.679 procps 3.2.8
1.679.1 Available under license
1.680 go-immutable-radix 1.3.1
1.680.1 Available under license
1.681 klauspost-compress 1.14.2
1.681.1 Available under license
1.682 openssl 1.1.1t
1.682.1 Notifications
1.682.2 Available under license
1.683 go-testing-interface 1.14.1
1.683.1 Available under license
1.684 x-sys 0.0.0-20220520151302-bc2c85ada10a
1.684.1 Available under license
1.685 libtasn 4.0
1.685.1 Available under license
1.686 libusb-compat 0.1.0
1.686.1 Available under license
1.687 orion-ssh2 214
1.687.1 Available under license
1.688 quota 4.02
1.688.1 Available under license
1.689 chardet 3.0.4
1.689.1 Available under license
1.690 mohae-deepcopy 0.0.0-20170929034955-c48cc78d4826
1.690.1 Available under license
1.691 evanphx-json-patch 4.12.0+incompatible
1.691.1 Available under license
1.692 golang-jwt 4.4.2
1.692.1 Available under license
1.693 fdisk 2.32.1

1.693.1 Available under license

1.694 python-certifi 2020.04.05.1

1.694.1 Available under license

1.695 x-term 0.0.0-20210927222741-03fcf44c2211

1.695.1 Available under license

1.696 snmp-4j 2.5.5

1.696.1 Available under license

1.697 edk2 1.30

1.697.1 Available under license

1.698 grpc 1.15.1

1.698.1 Available under license

1.699 packaging 19.2

1.699.1 Available under license

1.700 zstd 1.4.4

1.700.1 Available under license

1.701 ethtool 4.19

1.701.1 Available under license

1.702 binutils 2.25.1

1.702.1 Available under license

1.703 eudev 3.2.7

1.703.1 Available under license

1.704 gopkg.in-inf 0.9.1

1.704.1 Available under license

1.705 recode 3.6

1.705.1 Available under license

1.706 hcl 1.0.1-vault-3

1.706.1 Available under license

1.707 mdadm 3.3.4

1.707.1 Available under license

1.708 zlib 1.2.7

1.708.1 Available under license

1.709 tdb 1.42.9

1.709.1 Available under license

1.710 gopkg.in-yaml 2.4.0

1.710.1 Available under license

1.711 protobuf 3.0.0

1.711.1 Available under license

1.712 ntp 4.2.6p2

1.712.1 Available under license

1.713 idna 15.0.0
1.713.1 Available under license
1.714 numactl 2.0.9-r0
1.714.1 Available under license
1.715 logr 1.2.2
1.715.1 Available under license
1.716 lua 5.2.4
1.717 libnss-nisplus 1.3
1.717.1 Available under license
1.718 josharian-intern 1.0.0
1.718.1 Available under license
1.719 crestonbunch-godata 1.0.7
1.719.1 Available under license
1.720 libgcrypt 1.6.3
1.720.1 Available under license
1.721 ftpd 1.9.2
1.721.1 Available under license
1.722 sigs.k8s.io-json 0.0.0-20211208200746-9f7c6b3444d2
1.722.1 Available under license
1.723 expat 2.4.7
1.723.1 Available under license
1.724 mongo-go-driver 1.10.3
1.724.1 Available under license
1.725 x-net 0.7.0
1.725.1 Available under license
1.726 nettle 2.7.1
1.726.1 Available under license
1.727 expat 2.2.8
1.727.1 Available under license
1.728 bcel 6.7.0
1.728.1 Available under license
1.729 binutils 2.31.51
1.729.1 Available under license
1.730 glibc 2.28
1.730.1 Available under license
1.731 go-playground-locales 0.14.0
1.731.1 Available under license
1.732 gopkg.in-ini 1.63.2
1.732.1 Available under license

1.733 aws-sdk-go 1.40.59

1.733.1 Available under license

1.734 lsof 4.91

1.734.1 Available under license

1.735 golang-genproto 0.0.0-20220307174427-659dce7fcb03

1.735.1 Available under license

1.736 mtd-utils 2.0.2

1.736.1 Available under license

1.737 uwsgi 2.0.14

1.737.1 Available under license

1.738 newlib 1.12.0

1.738.1 Available under license

1.739 stack 1.8.0

1.739.1 Available under license

1.740 rpcbind 0.2.1

1.740.1 Available under license

1.741 paesslerag-gval 1.1.1

1.741.1 Available under license

1.742 openjdk 7

1.742.1 Available under license

1.743 less 479

1.743.1 Available under license

1.744 go-restful 3.10.2

1.744.1 Available under license

1.745 kubernetes-apimachinery 0.26.2

1.745.1 Available under license

1.746 openjdk-jre 11.0.18u10

1.746.1 Available under license

1.747 pciutils 3.4.1

1.747.1 Available under license

1.748 tcl 8.5.0

1.748.1 Available under license

1.749 gnutls 3.6.14

1.749.1 Available under license

1.750 numpy 0.1a

1.750.1 Available under license

1.751 libgpg-error 1.32

1.751.1 Available under license

1.752 mitchellh-go-homedir 1.1.0

1.752.1 Available under license

1.753 libcap-ng 0.6.6

1.753.1 Available under license

1.754 libidn 2.3.0

1.754.1 Available under license

1.755 sed 4.1.5

1.755.1 Available under license

1.756 openssl 1.1.1n

1.756.1 Available under license

1.757 gzip 1.6

1.757.1 Available under license

1.758 modern-go-reflect2 1.0.2

1.758.1 Available under license

1.759 diffutils 3.3

1.759.1 Available under license

1.760 gopkg.in-ini 1.67.0

1.760.1 Available under license

1.761 gogoprotobuf 1.3.2

1.761.1 Available under license

1.762 ncftp 3.2.5

1.762.1 Available under license

1.763 richardlehane-msoleps 1.0.1

1.763.1 Available under license

1.764 dosfs-tools 3.0.28

1.764.1 Available under license

1.765 sha256-simd 0.1.1

1.765.1 Available under license

1.766 sim-utils 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.766.1 Available under license

1.767 xid 1.2.1

1.767.1 Available under license

1.768 golang-lru 0.5.4

1.768.1 Available under license

1.769 shim 15.7

1.769.1 Available under license

1.770 xz 5.2.2-1.el7

1.770.1 Available under license

1.771 kubernetes-api 0.24.0

1.771.1 Available under license

1.772 berkeley-db 6.0.30
1.772.1 Available under license
1.773 libnl3 3.2.25
1.773.1 Available under license
1.774 nettle 3.7.3
1.774.1 Available under license
1.775 go-openapi-jsonreference 0.19.5
1.775.1 Available under license
1.776 reload4j 2.17.1
1.776.1 Available under license
1.777 libxml2 0.19.4
1.777.1 Available under license
1.778 linux-kernel 4.1.21
1.778.1 Available under license
1.779 python 2.7.3
1.779.1 Available under license
1.780 libassuan 2.2.1
1.780.1 Available under license
1.781 mgo 2.0.0-20190816093944-a6b53ec6cb22
1.781.1 Available under license
1.782 mtd-utils 1.2.1
1.782.1 Available under license
1.783 x-term 0.5.0
1.783.1 Available under license
1.784 go-radix 1.0.0
1.784.1 Available under license
1.785 sysklogd 1.5.1
1.785.1 Available under license
1.786 gnutls 3.3.5
1.786.1 Available under license
1.787 richardlehane-mscfb 1.0.3
1.787.1 Available under license
1.788 rcrowley-go-metrics 0.0.0-20200313005456-10cdbea86bc0
1.788.1 Available under license
1.789 eudev 3.2.7
1.789.1 Available under license
1.790 gmp 6.1.2
1.790.1 Available under license
1.791 go-logr-stdr 1.2.2

1.791.1 Available under license
1.792 vault-api 1.5.0
1.792.1 Available under license

1.1 pep517 0.12.0

1.1.1 Available under license :

The MIT License (MIT)

Copyright (c) 2017 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.2 perl 5.14.2

1.2.1 Available under license :

This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
not claim that you wrote the original software. If you use this
software in a product, an acknowledgment in the product
documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
 license: http://dev.perl.org/licenses/
 repository: http://github.com/dagolden/module-build/

version: 3

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications

derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the

interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each

licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of

Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

This software is copyright (c) 2017 by Ken Williams.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
  Software Foundation; either version 1, or (at your option) any
  later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2017 by Ken Williams.

This is free software, licensed under:

 The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The license agreements of most software companies try to keep users
at the mercy of those companies. By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard

libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN

OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

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

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

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2017 by Ken Williams.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of
artistic control over the development of the package, while giving the users of
the package the right to use and distribute the Package in a more-or-less

customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
#!perl

=head1 NAME

copyright.t

```
=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{
```

```
 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.3 gnutls 3.3.17.1

1.3.1 Available under license :

```
=====================================================================
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see http://www.openssl.org/~appro/cryptogams/.
=====================================================================

Copyright (c) 2006-2012, CRYPTOGAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

    * Redistributions of source code must retain copyright notices,
 this list of conditions and the following disclaimer.

    * Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following
```

disclaimer in the documentation and/or other materials
provided with the distribution.

* Neither the name of the CRYPTOGAMS nor the names of its
copyright holder and contributors may be used to endorse or
promote products derived from this software without specific
prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this
product may be distributed under the terms of the GNU General Public
License (GPL), in which case the provisions of the GPL apply INSTEAD OF
those given above.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
#############################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
## Public domain.
##
## For details see http://shiftleft.org/papers/vector_aes/ and
## http://crypto.stanford.edu/vpaes/.
```

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.4 tdb 1.45.6

1.4.1 Available under license :

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

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

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et

```
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2001 by Andries Brouwer
Copyright (C) 1999, 2000, 2003 by Theodore Ts'o

You are free to distribute this software under the terms of the GNU
Lesser (Library) General Public License.

On Debian systems, the complete text of the GNU Lesser (Library)
General Public License can be found in /usr/share/common-licenses/LGPL-2.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 by
Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul `Rusty' Russell 2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2007 Theodore Ts'o <tytso@mit.edu>
        Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
    Copyright (c) 2001 Alcove <http://www.alcove.com/>
    Copyright (c) 1997 Klee Dienes
    Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, are made available under
the GNU General Public License version 2, with the exception of the
lib/ext2fs and lib/e2p libraries, which are made available under the
GNU Library General Public License Version 2, the lib/uuid library
which is made available under a BSD-style license and the lib/et and
lib/ss libraries which are made available under an MIT-style license.

 Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. The complete text of the GNU Library General Public License can be found in '/usr/share/common-licenses/LGPL-2'.

The license used for lib/et and lib/ss libraries is:

Copyright 1987 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose is hereby granted, provided that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The license used for lib/uuid is:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent

access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED

OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change

free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain

designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2003, 2004 by Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.5 grpc-go 1.44.0

1.5.1 Available under license :

Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.6 x-exp 0.0.0-20230314191032-db074128a8ec

1.6.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.7 paesslerag-jsonpath 0.1.1

1.7.1 Available under license :

Copyright (c) 2017, Paessler AG <support@paessler.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote

products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.8 grub2 1.99

1.8.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if

you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an

implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under

the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This

License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and

only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as

part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your

license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the

rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License,

section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD

PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>

This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2009 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in
http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

1.9 d-bus 1.8.2

1.9.1 Available under license :

D-Bus is licensed to you under your choice of the Academic Free License version 2.1, or the GNU General Public License version 2 (or, at your option any later version).

Both licenses are included here. Some of the standalone binaries are under the GPL only; in particular, but not limited to, tools/dbus-cleanup-sockets.c and test/decode-gcov.c. Each source code file is marked with the proper copyright information - if you find a file that isn't marked please bring it to our attention.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original

Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--
END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.
--
START OF GNU GENERAL PUBLIC LICENSE
--

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.10 golang 1.20.5

1.10.1 Available under license :

// Copyright 2014 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.11 go-sysconf 0.3.11

1.11.1 Available under license :

BSD 3-Clause License

Copyright (c) 2018-2022, Tobias Klauser
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.12 openssh 6.2

1.12.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]
 * However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control. As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this
software are publicly available on the Internet and at any major
bookstore, scientific library, and patent office worldwide. More
information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these
permissions and restrictions. Use only at your own responsibility.
You will be responsible for any legal consequences yourself; I am not
making any claims whether possessing or using this is legal or not in
your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style
license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers
and Paulo Barreto is in the public domain and distributed
with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
 * OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 * OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 * EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license, held by the University of California, since we pulled these parts from original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard 2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file.  As long as you retain this
* notice you can do whatever you want with this stuff. If we meet
* some day, and you think this stuff is worth it, you can buy me a
* beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

```
Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
```

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *

```
 * DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR    *
 * OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR    *
 * THE USE OR OTHER DEALINGS IN THE SOFTWARE.                               *
 *                                                                          *
 * Except as contained in this notice, the name(s) of the above copyright   *
 * holders shall not be used in advertising or otherwise to promote the     *
 * sale, use or other dealings in this Software without prior written       *
 * authorization.                                                           *
 ****************************************************************************/
```

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

1.13 berkeley-db 5.3.28

1.13.1 Available under license :

Copyright (c) 1996, 2013 Oracle and/or its affiliates. All rights reserved.
See the file LICENSE for redistribution information.
This software is copyrighted by Christian Werner <chw@ch-werner.de>
and other authors. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.
This software is copyrighted by Christian Werner <chw@ch-werner.de> and others.
The following terms apply to all files associated with the software

unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.
NOTE

The license is based on the zlib/libpng license. For more details see
http://www.opensource.org/licenses/zlib-license.html. The intent of the
license is to:

- keep the license as simple as possible
- encourage the use of CuTest in both free and commercial applications
 and libraries
- keep the source code together
- give credit to the CuTest contributors for their work

If you ship CuTest in source form with your source distribution, the
following license document must be included with it in unaltered form.
If you find CuTest useful we would like to hear about it.

LICENSE

Copyright (c) 2003 Asim Jalis

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software in
a product, an acknowledgment in the product documentation would be
appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not
be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
distribution.
/*-
* Id
*/

The following is the license that applies to this copy of the Berkeley DB
software. For a license to use the Berkeley DB software under conditions
other than those described here, or to purchase support for this software,
please contact Oracle at berkeleydb-info_us@oracle.com.

=-=-=-

* WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
* NON-INFRINGEMENT, ARE DISCLAIMED. IN NO EVENT SHALL ORACLE BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
* IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
* Copyright (c) 1990, 1993, 1994, 1995
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Copyright (c) 1995, 1996
* The President and Fellows of Harvard University. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright

```
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
/***
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2005 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
*    contributors may be used to endorse or promote products derived from
*    this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/
```

This package was debianized by Sam Clegg <samo@debian.org> on
Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

Copyright: Copyright (c) 2001-2011 Christian Werner <chw@ch-werner.de>
OS/2 Port Copyright (c) 2004 Lorne R. Sunley <lsunley@mb.sympatico.ca>

License:

This software is copyrighted by Christian Werner <chw@ch-werner.de>
and other authors. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

The Debian packaging is (C) 2006, Sam Clegg <samo@debian.org> and
is licensed under the GPL-3, see `/usr/share/common-licenses/GPL-3'.

1.14 m4 1.4.18

1.14.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,

refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input

format, SGML or XML using a publicly available
DTD, and standard-conforming simple HTML,
PostScript or PDF designed for human modification. Examples
of transparent image formats include PNG, XCF and
JPG@. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified

Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as

given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.

@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
The files in this directory provide example uses of GNU M4.
The following copyright notice applies to each of these
description files.

Copyright (C) 2006, 2010-2012 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation
gives unlimited permission to copy and/or distribute it,
with or without modifications, as long as this notice is preserved.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.15 go-playground-universal-translator 0.18.0

1.15.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Go Playground

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.16 safeclib 3.0.1

1.16.1 Available under license :

Safe C Library

Copyright (c) 2014-2016, Intel Corporation. All rights reserved.

* Permission is hereby granted, free of charge, to any person
* obtaining a copy of this software and associated documentation
* files (the "Software"), to deal in the Software without
* restriction, including without limitation the rights to use,
* copy, modify, merge, publish, distribute, sublicense, and/or
* sell copies of the Software, and to permit persons to whom the
* Software is furnished to do so, subject to the following
* conditions:
*
* The above copyright notice and this permission notice shall be
* included in all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
* EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
* OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
* NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
* HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
* WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
* FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
* OTHER DEALINGS IN THE SOFTWARE.

==========

Copyright (C) 2012, 2013 Cisco Systems
All rights reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2014-2018 Intel Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

==========

Copyright (C) 2012, 2013 Cisco Systems

All rights reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

1.17 go.mongodb.org-mongo-driver 1.11.4

1.17.1 Available under license :

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: gzhttp/*

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file

lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>

License notice for AWS V4 signing code from github.com/aws/aws-sdk-go
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for gopkg.in/mgo.v2/bson

BSON library for Go

Copyright (c) 2010-2013 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR

ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for JSON and CSV code from github.com/golang/go
---

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for rand code from golang.org/x/exp

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for Add64 and Mul64 code from github.com/golang/go
---

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/davecgh/go-spew

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

License notice for github.com/golang/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/google/go-cmp

Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress

Copyright (c) 2012 The Go Authors. All rights reserved.

Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/konsorten/go-windows-terminal-sequences
---

(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/pretty

The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/text

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/oncer

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/safe

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/montanaflynn/stats

The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/pkg/errors

Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/pmezard/go-difflib

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/rogpeppe/go-internal

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/stretchr/testify

MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

License notice for github.com/tidwall/pretty

The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/xdg-go/pbkdf2

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/scram

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/stringprep

Apache License

Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/youmark/pkcs8

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for golang.org/x/crypto

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sync

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sys

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/text

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/tools

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/xerrors

Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for gopkg.in/yaml.v3

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.18 readline 6.3

1.18.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you

with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical

medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install

and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered

work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so

available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,

with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice

that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose

title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit

reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its

license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form.

Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under

this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License

somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.19 pciutils 3.3.1

1.19.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and

you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of

Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License

may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.20 go-multierror 1.1.1

1.20.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor

Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial

order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible With Secondary Licenses, as defined by the Mozilla Public License, v. 2.0.

1.21 kmod 21

1.21.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
LGPL
LGPL
LGPL

1.22 trilead-ssh 1.0.0-build221

1.22.1 Available under license :

Copyright (c) 2007-2008 Trilead AG (http://www.trilead.com)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a.) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
c.) Neither the name of Trilead nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS

INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Trilead SSH-2 for Java includes code that was written by Dr. Christian Plattner during his PhD at ETH Zurich. The license states the following:

Copyright (c) 2005 - 2006 Swiss Federal Institute of Technology (ETH Zurich),
Department of Computer Science (http://www.inf.ethz.ch),
Christian Plattner. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a.) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
c.) Neither the name of ETH Zurich nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Java implementations of the AES, Blowfish and 3DES ciphers have been taken (and slightly modified) from the cryptography package released by "The Legion Of The Bouncy Castle".

Their license states the following:

Copyright (c) 2000 - 2004 The Legion Of The Bouncy Castle
(http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.23 utils 0.0.0-20220210201930-3a6ce19ff2f9

1.23.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.24 ethtool 4.0

1.24.1 Available under license :

ethtool is available under the terms of the GNU Public License version 2.

See COPYING for details.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.25 u-boot 2010.03

1.25.1 Available under license :

The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
NOTE! This copyright does *not* cover the so-called "standalone"
applications that use U-Boot services by means of the jump table
provided by U-Boot exactly for this purpose - this is merely
considered normal use of U-Boot, and does *not* fall under the
heading of "derived work".

The header files "include/image.h" and "include/asm-*/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".

Also note that the GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (the U-Boot
source code) is copyrighted by me and others who actually wrote it.

-- Wolfgang Denk

==========

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

License

LZMA SDK is placed in the public domain.

1.26 openssl 1.0.1p

1.26.1 Notifications :

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)

1.26.2 Available under license :

```
LICENSE ISSUES
==============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License
---------------

/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
```

```
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
```

```
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this

Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.27 tar 1.34

1.27.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.28 libgpg-error 1.19

1.28.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively

when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you

received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software

Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal

permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free

programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing

and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.29 gdb 7.10.1

1.29.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time

a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser

General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License

giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a

requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that

copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this

License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within

the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the

Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom
to share and change all versions of a program---to make sure it remains

free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item
If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of

the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network

or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions'' are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

@enumerate a
@item
Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

@item
Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

@item
Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

@item
Limiting the use for publicity purposes of names of licensors or

authors of the material; or

@item
Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

@item
Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
@end enumerate

All other non-permissive additional terms are considered ``further restrictions'' within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An ``entity transaction'' is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A ``contributor'' is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's ``contributor version''.

A contributor's ``essential patent claims'' are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, ``control'' includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a ``patent license'' is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To ``grant'' such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. ``Knowingly relying'' means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license

you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is ``discriminatory'' if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

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

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

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a ``copyright disclaimer'' for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your
program into proprietary programs. If your program is a subroutine
library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c man end

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public

License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way

to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not

allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a

specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item

Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does

not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections,

and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:

@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is

analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public

License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street - Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program
which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License''). Each
licensee is addressed as ``you''.

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

The ``Library'', below, refers to any such software library or work
which has been distributed under these terms. A ``work based on the
Library'' means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term ``modification''.)

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

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

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

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

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

@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the

Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center NO WARRANTY

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if necessary. Here is a sample; alter the names:

```
@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
 "-*- buffer-read-only: t -*- vi" \
 ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (char *, int);"
  print ""
  print "static void show_warranty_command (char *, int);"
  print ""
  print "void _initialize_copying (void);"
  print ""
  print "static void";
  print "show_copying_command (char *ignore, int from_tty)";
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
 printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  print "}";
  print "";
```

```
  print "static void";
  print "show_warranty_command (char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
  printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";
  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
```

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
#! /usr/bin/env python

# Copyright (C) 2011-2015 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <http://www.gnu.org/licenses/>.

"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.
```

```
    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result


def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]
```

```
    # Process the output.  Typically, a lot of files do not have
    # a copyright notice :-(.  The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one.  For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('\n'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line


def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorigthm is fairly crude, meaning that it might return
    some false positives.  I do not think it will return any false
    negatives...  We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
```

```
        if lineno > 50:
            return False
    return False


def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
        print
        print "\033[31mREMINDER: The following files must be updated by hand." \
              "\033[0m"
        for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
            print "  ", filename

################################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
    'gdb/nat/glibc_thread_db.h',
    'gdb/CONTRIBUTE',
    'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
```

```
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
  "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
  # These files are sensitive to line numbering.
  "gdb/testsuite/gdb.base/step-line.inp",
  "gdb/testsuite/gdb.base/step-line.c",
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
  "gdb/doc/gdb.texinfo",
  "gdb/doc/refcard.tex",
  "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
  "gdb/exc_request.defs",
  "gdb/gdbtk",
  "gdb/testsuite/gdb.gdbtk/",
  "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
  "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
  "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
  "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
  "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
  "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
  "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
  "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
  "sim/arm/arminit.c",
  "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
  "sim/common/cgen-accfp.c",
  "sim/mips/m16run.c", "sim/mips/sim-main.c",
  "sim/moxie/moxie-gdb.dts",
  # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
  "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
  "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
  "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
```

```
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
  "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
  "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
  "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
  "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
  "sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
  "sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
  "sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
  "sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
  "sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
  "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
  "sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
  "sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
  "sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
  "sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
  "sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
  "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
  "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
  "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
  "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
  main()
```

1.30 golang-protobuf-extensions 1.0.1

1.30.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)

1.31 libjpeg 6b

1.31.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

1.31.2 Available under license :

The Independent JPEG Group's JPEG software
==========

README for release 6b of 27-Mar-1998
==========

This distribution contains the sixth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into
larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to
our electronic mailing list. Mailing list members are notified of updates
and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG
Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.

REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these

processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
==========

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or

fitness for a particular purpose. This software is provided "AS IS", and you,
its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this
software (or portions thereof) for any purpose, without fee, subject to these
conditions:
(1) If any part of the source code for this software is distributed, then this
README file must be included, with this copyright and no-warranty notice
unaltered; and any additions, deletions, or changes to the original files
must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying
documentation must state that "this software is based in part on the work of
the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look

at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:
Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or

from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

```
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2
```

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free

PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't

use a proprietary file format!

TO DO
=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.32 csrp 1.0

1.32.1 Available under license :

Copyright (c) 2010, Tom Cocagne
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the Python Software Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL TOM COCAGNE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.33 libtommath 0.42.0

1.33.1 Available under license :

LibTomMath is hereby released into the Public Domain.

-- Tom St Denis

1.34 grep 3.1

1.34.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;

it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document

straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that

edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item

Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or

appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements",

and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a
translation of this License, and all the license notices in the
Document, and any Warranty Disclaimers, provided that you also include

the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.

If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of

the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this

License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and

propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may

otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any

author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.35 golang 1.18.2

1.35.1 Available under license :

Copyright 2010-2017 Mike Bostock
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the author nor the names of contributors may be used to
 endorse or promote products derived from this software without specific prior
 written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
# This source code was written by the Go contributors.
# The master list of contributors is in the main Go distribution,
# visible at http://tip.golang.org/CONTRIBUTORS.
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
```

```
# the appropriate Contributor License Agreement, found here:
#
#     http://code.google.com/legal/individual-cla-v1.0.html
#     http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#     Individual's name <submission email address>
#     Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.

# Please keep the list sorted.

Aamir Khan <syst3m.w0rm@gmail.com>
Aaron Beitch <aaronb@arista.com>
Aaron Bieber <deftly@gmail.com>
Aaron Cannon <cannona@fireantproductions.com>
Aaron France <aaron.l.france@gmail.com>
Aaron Jacobs <jacobsa@google.com>
Aaron Jensen <jensen.aaro@gmail.com>
Aaron Kemp <kemp.aaron@gmail.com>
Aaron Patterson <tenderlove@ruby-lang.org>
Aaron Sheah <aaronsheah@gmail.com>
Aaron Stein <aaronstein12@gmail.com>
Aaron Torres <tcboox@gmail.com>
Aaron Zinman <aaron@azinman.com>
Aarti Parikh <aarti.parikh@gmail.com>
Abdullah Al Maruf <mymail.maruf@gmail.com>
Abe Haskins <abeisgreat@abeisgreat.com>
Abhinav Gupta <abhinav.g90@gmail.com>
Adam Azarchs <adam.azarchs@10xgenomics.com>
Adam Bender <abender@google.com>
Adam Eijdenberg <adam@continusec.com>
Adam Harvey <aharvey@php.net>
Adam Kisala <adam.kisala@gmail.com>
Adam Langley <agl@golang.org>
Adam Medzinski <adam.medzinski@gmail.com>
Adam Mitha <adam.mitha@gmail.com>
Adam Shannon <adamkshannon@gmail.com>
Adam Shelton <aashelt90@gmail.com>
Adam Sindelar <adamsh@google.com>
Adam Thomason <athomason@gmail.com>
Adam Williams <pwnfactory@gmail.com>
```

Adam Woodbeck <adam@woodbeck.net>
Adarsh Ravichandran <adarshravichandran91@gmail.com>
Adel Rodrguez <adel.rodriguez@leftfieldlabs.com>
Adin Scannell <ascannell@google.com>
Aditya Harindar <aditya.harindar@gmail.com>
Aditya Mukerjee <dev@chimeracoder.net>
Adrian Hesketh <adrianhesketh@hushmail.com>
Adrian Nos <nos.adrian@gmail.com>
Adrian O'Grady <elpollouk@gmail.com>
Adrien Bustany <adrien-xx-google@bustany.org>
Adrien Delorme <adrien.delorme@icloud.com>
Adrien Petel <peteladrien@gmail.com>
Acio Jnior <aeciodantasjunior@gmail.com>
Aeneas Rekkas (arekkas) <aeneas@ory.am>
Afanasev Stanislav <phpprogger@gmail.com>
Agis Anastasopoulos <agis.anast@gmail.com>
Agniva De Sarker <agnivade@yahoo.co.in>
Ahmed W. Mones <oneofone@gmail.com>
Ahmet Aktrk <aakturk000@gmail.com>
Ahmet Alp Balkan <ahmetb@google.com>
Ahmet Soormally <ahmet@mangomm.co.uk>
Ahmy Yulrizka <yulrizka@gmail.com>
Ahsun Ahmed <ahmed.ahsun@gmail.com>
Aidan Coyle <packrat386@gmail.com>
Aiden Scandella <ai@uber.com>
Ainar Garipov <gugl.zadolbal@gmail.com>
Aishraj Dahal <aishraj@users.noreply.github.com>
Ajanthan Balachandran <balaajanthan@gmail.com>
Akhil Indurti <aindurti@gmail.com>
Akihiro Suda <suda.kyoto@gmail.com>
Akshat Kumar <seed@mail.nanosouffle.net>
Al Cutter <al@google.com>
Alan Braithwaite <alan@ipaddr.org>
Alan Donovan <adonovan@google.com>
Alan Shreve <alan@inconshreveable.com>
Albert Nigmatzianov <albertnigma@gmail.com>
Albert Strasheim <fullung@gmail.com>
Albert Teoh <albert.teoh@gmail.com>
Albert Yu <yukinying@gmail.com>
Alberto Bertogli <albertito@blitiri.com.ar>
Alberto Donizetti <alb.donizetti@gmail.com>
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>
Alec Benzer <alec.benzer@gmail.com>
Alejandro Garca Montoro <alejandro.garciamontoro@gmail.com>
Aleksa Sarai <cyphar@cyphar.com>
Aleksandar Dezelin <dezelin@gmail.com>
Aleksandr Lukinykh <a.lukinykh@xsolla.com>
Aleksandr Razumov <ar@cydev.ru>

Alekseev Artem <a.artem060@gmail.com>
Aleksei Tirman <aleksei.tirman@jetbrains.com>
Alessandro Arzilli <alessandro.arzilli@gmail.com>
Alessandro Baffa <alessandro.baffa@gmail.com>
Alex A Skinner <alex@lx.lc>
Alex Brainman <alex.brainman@gmail.com>
Alex Bramley <abramley@google.com>
Alex Browne <stephenalexbrowne@gmail.com>
Alex Buchanan <buchanae@gmail.com>
Alex Carol <alex.carol.c@gmail.com>
Alex Gaynor <alex@alloy.us>
Alex Harford <alex.harford@saucelabs.com>
Alex Hays <alex.hays@leftfieldlabs.com>
Alex Jin <toalexjin@gmail.com>
Alex Kohler <alexjohnkohler@gmail.com>
Alex Myasoedov <msoedov@gmail.com>
Alex Opie <amtopie@gmail.com>
Alex Plugaru <alex@plugaru.org> <alexandru.plugaru@gmail.com>
Alex Schade <39062967+aschade92@users.noreply.github.com>
Alex Schroeder <alex@gnu.org>
Alex Sergeyev <abc@alexsergeyev.com>
Alex Tokarev <aleksator@gmail.com>
Alex Vaghin <crhyme@google.com>
Alex Zhirov <azhirov@google.com>
Alexander Demakin <alexander.demakin@gmail.com>
Alexander Dring <email@alexd.ch>
Alexander F Rdseth <alexander.rodseth@appeartv.com>
Alexander Greim <alexxx@iltempo.de>
Alexander Guz <kalimatas@gmail.com>
Alexander Kauer <alexander@affine.space>
Alexander Klauer <Alexander.Klauer@googlemail.com>
Alexander Kucherenko <alxkchr@gmail.com>
Alexander Larsson <alexander.larsson@gmail.com>
Alexander Lourier <aml@rulezz.ru>
Alexander Melentyev <alexander@melentyev.org>
Alexander Menzhinsky <amenzhinsky@gmail.com>
Alexander Morozov <lk4d4math@gmail.com>
Alexander Neumann <alexander@bumpern.de>
Alexander Nohe <alex.nohe427@gmail.com>
Alexander Orlov <alexander.orlov@loxal.net>
Alexander Pantyukhin <apantykhin@gmail.com>
Alexander Polcyn <apolcyn@google.com>
Alexander Rakoczy <alex@golang.org>
Alexander Reece <awreece@gmail.com>
Alexander Surma <surma@surmair.de>
Alexander Yastrebov <yastrebov.alex@gmail.com>
Alexander Zhavnerchik <alex.vizor@gmail.com>
Alexander Zillion <alex@alexzillion.com>

Alexander Zolotov <goldifit@gmail.com>
Alexandr Mayorskiy <a.mayorskiy@corp.mail.ru>
Alexandre Cesaro <alexandre.cesaro@gmail.com>
Alexandre Fiori <fiorix@gmail.com>
Alexandre Maari <draeron@gmail.com>
Alexandre Normand <alexandre.normand@gmail.com>
Alexandre Parentea <aubonbeurre@gmail.com>
Alexandre Viau <alexandre@alexandreviau.net>
Alexandru Mooi <brtzsnr@gmail.com>
Alexei Sholik <alcosholik@gmail.com>
Alexey Alexandrov <aalexand@google.com>
Alexey Borzenkov <snaury@gmail.com>
Alexey Naidonov <alexey.naidyonov@gmail.com>
Alexey Neganov <neganovalexey@gmail.com>
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>
Alexey Semenyuk <alexsemenyuk88@gmail.com>
Alexey Vilenskiy <bynovhack@gmail.com>
Alexis Hildebrandt <surryhill@gmail.com>
Alexis Hunt <lexer@google.com>
Alexis Imperial-Legrand <ail@google.com>
Ali Farooq <ali.farooq0@pm.me>
Ali Rizvi-Santiago <arizvisa@gmail.com>
Aliaksandr Valialkin <valyala@gmail.com>
Alice Merrick <amerrick@google.com>
Alif Rachmawadi <subosito@gmail.com>
Allan Guwatudde <guwats10@gmail.com>
Allan Simon <allan.simon@supinfo.com>
Allen Li <ayatane@google.com>
Alok Menghrajani <alok.menghrajani@gmail.com>
Alwin Doss <alwindoss84@gmail.com>
Aman Gupta <aman@tmm1.net>
Amarjeet Anand <amarjeetanandsingh@gmail.com>
Amelia Downs <adowns@vmware.com>
Amir Mohammad Saied <amir@gluegadget.com>
Amit Kumar <mittalmailbox@gmail.com>
Amr Mohammed <merodiro@gmail.com>
Amrut Joshi <amrut.joshi@gmail.com>
An Long <aisk1988@gmail.com>
An Xiao <hac@zju.edu.cn>
Anand K. Mistry <anand@mistry.ninja>
Ananya Saxena <ananyasaxena1@gmail.com>
Anatol Pomozov <anatol.pomozov@gmail.com>
Anders Pearson <anders@columbia.edu>
Anderson Queiroz <contato@andersonq.eti.br>
Andr Carvalho <asantostc@gmail.com>
Andre Marianiello <andremarianiello@users.noreply.github.com>
Andr Martins <aanm90@gmail.com>
Andre Nathan <andrenth@gmail.com>

Andrea Nodari <andrea.nodari91@gmail.com>
Andrea Simonini <andrea.simonini@gmail.com>
Andrea Spadaccini <spadaccio@google.com>
Andreas Auernhammer <aead@mail.de>
Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>
Andreas Litt <andreas.litt@gmail.com>
Andrei Enshin <b1os@bk.ru>
Andrei Gherzan <andrei@resin.io>
Andrei Korzhevskii <a.korzhevskiy@gmail.com>
Andrei Matei <andrei@cockroachlabs.com>
Andrei Tudor Clin <mail@acln.ro>
Andrei Vagin <avagin@google.com>
Andrei Vieru <euvieru@gmail.com>
Andres Erbsen <andreser@google.com>
Andres Lowrie <andres.lowrie@gmail.com>
Andrew Austin <andrewaclt@gmail.com>
Andrew Balholm <andybalholm@gmail.com>
Andrew Benton <andrewmbenton@gmail.com>
Andrew Bonventre <andybons@chromium.org>
Andrew Braunstein <awbraunstein@gmail.com>
Andrew Bursavich <abursavich@gmail.com>
Andrew Ekstedt <andrew.ekstedt@gmail.com>
Andrew Etter <andrew.etter@gmail.com>
Andrew G. Morgan <agm@google.com>
Andrew Gerrand <adg@golang.org>
Andrew Harding <andrew@spacemonkey.com>
Andrew Jackura <ajackura@google.com>
Andrew Kemm <andrewkemm@gmail.com>
Andrew LeFevre <capnspacehook@gmail.com>
Andrew Louis <alouis@digitalocean.com>
Andrew Lutomirski <andy@luto.us>
Andrew Medvedev <andrew.y.medvedev@gmail.com>
Andrew Pilloud <andrewpilloud@igneoussystems.com>
Andrew Pogrebnoy <absourd.noise@gmail.com>
Andrew Poydence <apoydence@pivotal.io>
Andrew Pritchard <awpritchard@gmail.com>
Andrew Radev <andrey.radev@gmail.com>
Andrew Skiba <skibaa@gmail.com>
Andrew Stormont <astormont@racktopsystems.com>
Andrew Stribblehill <ads@wompom.org>
Andrew Szeto <andrew@jabagawee.com>
Andrew Todd <andrew.todd@wework.com>
Andrew Wansink <wansink@uber.com>
Andrew Werner <andrew@upthere.com> <awerner32@gmail.com>
Andrew Wilkins <axwalk@gmail.com>
Andrew Williams <williams.andrew@gmail.com>
Andrew Z Allen <me@andrewzallen.com>
Andrey Bokhanko <andreybokhanko@gmail.com>

Andrey Mirtchovski <mirtchovski@gmail.com>
Andrey Petrov <andrey.petrov@shazow.net>
Andrii Soldatenko <andrii.soldatenko@gmail.com>
Andrii Soluk <isoluchok@gmail.com>
Andriy Lytvynov <lytvynov.a.v@gmail.com>
Andrzej eel <andrii.zhezhel@gmail.com>
Andy Balholm <andy@balholm.com>
Andy Davis <andy@bigandian.com>
Andy Finkenstadt <afinkenstadt@zynga.com>
Andy Lindeman <andy@lindeman.io>
Andy Maloney <asmaloney@gmail.com>
Andy Pan <panjf2000@gmail.com> <panjf2000@golangcn.org> <i@andypan.me>
Andy Walker <walkeraj@gmail.com>
Andy Wang <cbeuw.andy@gmail.com>
Andy Williams <andy@andy.xyz>
Andy Zhao <andyzhao@google.com>
Andzej Maciusovic <andzej.maciusovic@gmail.com>
Anfernee Yongkun Gui <anfernee.gui@gmail.com>
Angelo Bulfone <mbulfone@gmail.com>
Anh Hai Trinh <anh.hai.trinh@gmail.com>
Anit Gandhi <anitgandhi@gmail.com>
Ankit Goyal <ankit3goyal@gmail.com>
Anmol Sethi <anmol@aubble.com>
Annirudh Prasad <annirudh@wandb.com>
Anschel Schaffer-Cohen <anschelsc@gmail.com>
Anthony Alves <cvballa3g0@gmail.com>
Anthony Canino <anthony.canino1@gmail.com>
Anthony Eufemio <anthony.eufemio@gmail.com>
Anthony Fok <foka@debian.org>
Anthony Martin <ality@pbrane.org>
Anthony Sottile <asottile@umich.edu>
Anthony Starks <ajstarks@gmail.com>
Anthony Voutas <voutasaurus@gmail.com>
Anthony Woods <awoods@raintank.io>
Antoine GIRARD <sapk@sapk.fr>
Antoine Martin <antoine97.martin@gmail.com>
Anton Gyllenberg <anton@iki.fi>
Anton Kuklin <anton.a.kuklin@gmail.com>
Antonin Amand <antonin.amand@gmail.com>
Antonio Antelo <aantelov87@gmail.com>
Antonio Bibiano <antbbn@gmail.com>
Antonio Garcia <garcia.olais@gmail.com>
Antonio Huete Jimenez <tuxillo@quantumachine.net>
Antonio Murdaca <runcom@redhat.com>
Antonio Ojea <antonio.ojea.garcia@gmail.com>
Antonio Troina <thoeni@gmail.com>
Anze Kolar <me@akolar.com>
Aofei Sheng <aofei@aofeisheng.com>

Apisak Darakananda <pongad@gmail.com>
Aram Hvrneanu <aram@mgk.ro>
Araragi Hokuto <kanseihonbucho@protonmail.com>
Arash Bina <arash@arash.io>
Archana Ravindar <aravind5@in.ibm.com>
Arda Gl <ardaguclu@gmail.com>
Areski Belaid <areski@gmail.com>
Ariel Mashraki <ariel@mashraki.co.il>
Arkadi Pyuro <arkadi@google.com>
Arlo Breault <arlolra@gmail.com>
Arnaud Ysmal <arnaud.ysmal@gmail.com>
Arne Hormann <arnehormann@gmail.com>
Arnout Engelen <arnout@bzzt.net>
Aron Nopanen <aron.nopanen@gmail.com>
Arran Walker <arran.walker@fiveturns.org>
Artem Alekseev <artem.alekseev@intel.com>
Artem Khvastunov <artem.khvastunov@jetbrains.com>
Artem Kolin <artemkaxboy@gmail.com>
Arthur Fabre <arthur@arthurfabre.com>
Arthur Khashaev <arthur@khashaev.ru>
Artur M. Wolff <artur.m.wolff@gmail.com>
Artyom Pervukhin <artyom.pervukhin@gmail.com>
Arvindh Rajesh Tamilmani <art@a-30.net>
Ashish Bhate <ab.listsubs@gmail.com>
Ashish Gandhi <ag@ashishgandhi.org>
Asim Shankar <asimshankar@gmail.com>
Assel Meher <asselmeher@gmail.com>
Atin Malaviya <amalaviy@akamai.com>
Ato Araki <ato.araki@gmail.com>
Atsushi Toyama <atsushi.tohyama.160.333@gmail.com>
Audrey Lim <audreylh@gmail.com>
Audrius Butkevicius <audrius.butkevicius@gmail.com>
Augusto Roman <aroman@gmail.com>
Aulus Egnatius Varialus <varialus@gmail.com>
Aurlien Rainone <aurelien.rainone@gmail.com>
Aurlio A. Heckert <aurium@gmail.com>
Austin Clements <austin@google.com> <aclements@csail.mit.edu>
Avi Flax <avi@timehop.com>
Aviv Klasquin Komissar <avivklas@gmail.com>
awaw fumin <awawfumin@gmail.com>
Awn Umar <awn@cryptolosophy.io>
Axel Wagner <axel.wagner.hh@googlemail.com>
Ayan George <ayan@ayan.net>
Ayanamist Yang <ayanamist@gmail.com>
Ayke van Laethem <aykevanlaethem@gmail.com>
Aymerick Jhanne <aymerick@jehanne.org>
Ayzat Sadykov <ayzat.ziko.93@gmail.com>
Azat Kaumov <kaumov.a.r@gmail.com>

Baiju Muthukadan <baiju.m.mail@gmail.com>
Balaram Makam <bmakam.qdt@qualcommdatacenter.com>
Balazs Lecz <leczb@google.com>
Baokun Lee <nototon@gmail.com> <bk@golangcn.org>
Barnaby Keene <accounts@southcla.ws>
Bartomiej Klimczak <bartlomiej.klimczak88@gmail.com>
Bartosz Grzybowski <melkorm@gmail.com>
Bartosz Oler <brtsz@google.com>
Bassam Ojeil <bojeil@google.com>
Bastian Ike <bastian.ike@gmail.com>
Ben Burkert <ben@benburkert.com>
Ben Cartwright-Cox <Ben@Benjojo.co.uk>
Ben Eitzen <eitzenb@golang.org>
Ben Fried <ben.fried@gmail.com>
Ben Haines <bhainesva@gmail.com>
Ben Hoyt <benhoyt@gmail.com>
Ben Hutchings <ben.hutchings@essensium.com>
Ben Kraft <benkraft@khanacademy.org>
Ben Laurie <ben@links.org> <benl@google.com>
Ben Lubar <ben.lubar@gmail.com>
Ben Lynn <benlynn@gmail.com>
Ben Olive <sionide21@gmail.com>
Ben Schwartz <bemasc@google.com>
Ben Shi <powerman1st@163.com>
Ben Toews <mastahyeti@gmail.com>
Benjamin Barenblat <bbaren@google.com>
Benjamin Black <b@b3k.us>
Benjamin Cable <cable.benjamin@gmail.com>
Benjamin Hsieh <tanookiben@users.noreply.github.com>
Benjamin Peterson <benjamin@python.org>
Benjamin Prosnitz <bprosnitz@google.com>
Benjamin Wester <bwester@squareup.com>
Benjamin Wuethrich <benjamin.wuethrich@gmail.com>
Benny Siegert <bsiegert@gmail.com>
Benoit Sigoure <tsunanet@gmail.com>
Berengar Lehr <Berengar.Lehr@gmx.de>
Berkant Ipek <41230766+0xbkt@users.noreply.github.com>
Beth Brown <ecbrown@google.com>
Bharath Kumar Uppala <uppala.bharath@gmail.com>
Bharath Thiruveedula <tbharath91@gmail.com>
Bhavin Gandhi <bhavin7392@gmail.com>
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>
Bill O'Farrell <billo@ca.ibm.com>
Bill Prin <waprin@google.com>
Bill Thiede <couchmoney@gmail.com>
Bill Zissimopoulos <billziss@navimatics.com>
Billie Harold Cleek <bhcleek@gmail.com>
Billy Lynch <wlynch@google.com>

Billy Zaelani Malik <m.billyzaelani@gmail.com>
Bjrn Erik Pedersen <bjorn.erik.pedersen@gmail.com>
Bjorn Tillenius <bjorn@tillenius.me>
Bjorn Tipling <bjorn.tipling@gmail.com>
Blain Smith <rebelgeek@blainsmith.com>
Blake Gentry <blakesgentry@gmail.com>
Blake Mesdag <blakemesdag@gmail.com>
Blake Mizerany <blake.mizerany@gmail.com>
Blixt <me@blixt.nyc>
Bob Briski <rbriski@gmail.com>
Bob McNaughton <bobmcn@gmail.com>
Bob Potter <bobby.potter@gmail.com>
Bobby DeSimone <bobbydesimone@gmail.com>
Bobby Powers <bobbypowers@gmail.com>
Boqin Qin <bobbqqin@gmail.com>
Boris Nagaev <nagaev@google.com>
Borja Clemente <borja.clemente@gmail.com>
Boshi Lian <bolian@microsoft.com>
Brad Burch <brad.burch@gmail.com>
Brad Erickson <bderickson@gmail.com>
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>
Brad Garcia <bgarcia@golang.org>
Brad Jones <rbjones@google.com>
Brad Morgan <brad@morgabra.com>
Brad Whitaker <bwhitaker@fastly.com>
Braden Bassingthwaite <bbassingthwaite@vendasta.com>
Bradford Lamson-Scribner <brad.lamson@gmail.com>
Bradley Falzon <brad@teambrad.net>
Brady Catherman <brady@gmail.com>
Brady Sullivan <brady@bsull.com>
Branden J. Brown <zephyrtronium@gmail.com>
Brandon Bennett <bbennett@fb.com>
Brandon Gilmore <varz@google.com>
Brandon Philips <brandon@ifup.org>
Brandon Ryan <bjryan19@gmail.com>
Brave Cow <rsr715@gmail.com>
Brayden Cloud <bcloud@google.com>
Brendan Daniel Tracey <tracey.brendan@gmail.com>
Brendan O'Dea <bod@golang.org>
Brett Cannon <bcannon@gmail.com>
Brett Merrill <brett.j.merrill94@gmail.com>
Brian Dellisanti <briandellisanti@gmail.com>
Brian Downs <brian.downs@gmail.com>
Brian Falk <falk@logicparty.org>
Brian G. Merrell <bgmerrell@gmail.com>
Brian Gitonga Marete <marete@toshnix.com> <bgmarete@gmail.com> <bgm@google.com>
Brian Kennedy <btkennedy@gmail.com>
Brian Kessler <brian.m.kessler@gmail.com>

Brian Ketelsen <bketelsen@gmail.com>
Brian Slesinsky <skybrian@google.com>
Brian Smith <ohohvi@gmail.com>
Brian Starke <brian.starke@gmail.com>
Bruce Huang <helbingxxx@gmail.com>
Bryan Alexander <Kozical@msn.com>
Bryan Boreham <bjboreham@gmail.com>
Bryan C. Mills <bcmills@google.com>
Bryan Chan <bryan.chan@ca.ibm.com>
Bryan Ford <brynosaurus@gmail.com>
Bryan Heden <b.heden@gmail.com>
Bulat Gaifullin <gaifullinbf@gmail.com>
Burak Guven <bguven@gmail.com>
Caine Tighe <arctanofyourface@gmail.com>
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>
Caleb Martinez <accounts@calebmartinez.com>
Caleb Spare <cespare@gmail.com>
Carl Chatfield <carlchatfield@gmail.com>
Carl Henrik Lunde <chlunde@ifi.uio.no>
Carl Jackson <carl@stripe.com>
Carl Johnson <me@carlmjohnson.net>
Carl Mastrangelo <notcarl@google.com>
Carl Menezes <carleeto@gmail.com>
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>
Carlisia Campos <carlisia@grokkingtech.io>
Carlo Alberto Ferraris <cafxx@strayorange.com>
Carlos Alexandro Becker <caarlos0@gmail.com>
Carlos Amedee <carlos@golang.org>
Carlos Castillo <cookieo9@gmail.com>
Carlos Cirello <uldericofilho@gmail.com>
Carlos Eduardo <me@carlosedp.com>
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>
Carlos Iriarte <ciriarte@gmail.com>
Carlos Souza <carloshrsouza@gmail.com>
Carolyn Van Slyck <me@carolynvanslyck.com>
Carrie Bynon <cbynon@gmail.com>
Carson Hoffman <c@rsonhoffman.com>
Cary Hull <chull@google.com>
Case Nelson <case.nelson@gmail.com>
Casey Callendrello <squeed@gmail.com>
Casey Marshall <casey.marshall@gmail.com>
Catalin Nicutar <cnicutar@google.com>
Catalin Patulea <catalinp@google.com>
Cathal O'Callaghan <cathalsocallaghan@gmail.com>
Cedric Staub <cs@squareup.com>
Cezar S Espinola <cezarsa@gmail.com>
Chad Rosier <mrosier.qdt@qualcommdatacenter.com>
ChaiShushan <chaishushan@gmail.com>

Changkun Ou <hi@changkun.us>
Channing Kimble-Brown <channing@golang.org>
Chao Xu <xuchao@google.com>
Chaoqun Han <hanssccv@gmail.com>
Charles Fenwick Elliott <Charles@FenwickElliott.io>
Charles Kenney <charlesc.kenney@gmail.com>
Charles L. Dorian <cldorian@gmail.com>
Charles Lee <zombie.fml@gmail.com>
Charles Weill <weill@google.com>
Charlie Getzen <charlie@bolt.com>
Charlie Moog <moogcharlie@gmail.com>
Charlotte Brandhorst-Satzkorn <catzkorn@gmail.com>
Chauncy Cullitan <chauncyc@google.com>
Chen Zhidong <njutczd@gmail.com>
Chen Zhihan <energiehund@gmail.com>
Cheng Wang <wangchengiscool@gmail.com>
Cherry Mui <cherryyz@google.com>
Chew Choon Keat <choonkeat@gmail.com>
Chia-Chi Hsu <wuchi5457@gmail.com>
Chiawen Chen <golopot@gmail.com>
Chirag Sukhala <cchirag77@gmail.com>
Cholerae Hu <choleraehyq@gmail.com>
Chotepud Teo <AlexRouSg@users.noreply.github.com>
Chressie Himpel <chressie@google.com>
Chris Ball <chris@printf.net>
Chris Biscardi <chris@christopherbiscardi.com>
Chris Broadfoot <cbro@golang.org>
Chris Dollin <ehog.hedge@gmail.com>
Chris Farmiloe <chrisfarms@gmail.com>
Chris Hines <chris.cs.guy@gmail.com>
Chris Howey <howeyc@gmail.com>
Chris Hundt <hundt@google.com>
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>
Chris Kastorff <encryptio@gmail.com>
Chris Le Roy <brompwnie@users.noreply.github.com>
Chris Lennert <calennert@gmail.com>
Chris Liles <caveryliles@gmail.com>
Chris Manghane <cmang@golang.org>
Chris Marchesi <chrism@vancluevertech.com>
Chris McGee <sirnewton_01@yahoo.ca> <newton688@gmail.com>
Chris Raynor <raynor@google.com>
Chris Roche <rodaine@gmail.com>
Chris Smith <chrsmith@users.noreply.github.com>
Chris Stockton <chrisstocktonaz@gmail.com>
Chris Taylor <taylorza@gmail.com>
Chris Waldon <christopher.waldon.dev@gmail.com>
Chris Zou <chriszou@ca.ibm.com>
Christian Alexander <christian@linux.com>

Christian Couder <chriscool@tuxfamily.org>
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>
Christian Muehlhaeuser <muesli@gmail.com>
Christian Pellegrin <chri@evolware.org>
Christian R. Petrin <christianpetrin@gmail.com>
Christian Svensson <blue@cmd.nu>
Christine Hansmann <chhansmann@gmail.com>
Christoffer Buchholz <christoffer.buchholz@gmail.com>
Christoph Blecker <admin@toph.ca>
Christoph Hack <christoph@tux21b.org>
Christopher Cahoon <chris.cahoon@gmail.com>
Christopher Guiney <chris@guiney.net>
Christopher Henderson <chris@chenderson.org>
Christopher Hlubek <christopher.hlubek@networkteam.com>
Christopher Koch <chrisko@google.com>
Christopher Loessl <cloessl+github@gmail.com>
Christopher Nelson <nadiasvertex@gmail.com>
Christopher Nielsen <m4dh4tt3r@gmail.com>
Christopher Redden <christopher.redden@gmail.com>
Christopher Swenson <cswenson@google.com>
Christopher Thomas <53317512+chrisssthomas@users.noreply.github.com>
Christopher Wedgwood <cw@f00f.org>
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>
Christy Perez <christy@linux.vnet.ibm.com>
CL Sung <clsung@gmail.com> <cl_sung@htc.com>
Clment Chigot <clement.chigot@atos.net>
Clement Skau <clementskau@gmail.com>
Clint J. Edwards <clint.j.edwards@gmail.com>
Cody Oss <the.cody.oss@gmail.com>
Colby Ranger <cranger@google.com>
Colin Arnott <colin@urandom.co.uk>
Colin Cross <ccross@android.com>
Colin Edwards <colin@recursivepenguin.com>
Colin Kennedy <moshen.colin@gmail.com>
Colin Nelson <colnnelson@google.com>
Colin Rice <clr@google.com>
Conrad Irwin <conrad.irwin@gmail.com>
Conrad Meyer <cemeyer@cs.washington.edu>
Conrado Gouvea <conradoplg@gmail.com>
Constantin Konstantinidis <constantinkonstantinidis@gmail.com>
Corey Thomasson <cthom.lists@gmail.com>
Corne van der Plas <vdplas@gmail.com>
Cosmos Nicolaou <cnicolaou@google.com>
Costin Chirvasuta <ctin@google.com>
Craig Citro <craigcitro@google.com>
Cristian Staretu <unclejacksons@gmail.com>
Cristo Garca <cgg.code@gmail.com>
cui fliter <imcusg@gmail.com>

Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>
Cuong Manh Le <cuong@orijtech.com>
Curtis La Graff <curtis@lagraff.me>
Cyrill Schumacher <cyrill@schumacher.fm>
Dai Jie <gzdaijie@gmail.com>
Dai Wentao <dwt136@gmail.com>
Daisuke Fujita <dtanshi45@gmail.com>
Daisuke Suzuki <daisuzu@gmail.com>
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>
Damian Gryski <dgryski@gmail.com>
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>
Damien Mathieu <42@dmathieu.com>
Damien Neil <dneil@google.com>
Damien Tournoud <damien@platform.sh>
Dan Ballard <dan@mindstab.net>
Dan Caddigan <goldcaddy77@gmail.com>
Dan Callahan <dan.callahan@gmail.com>
Dan Harrington <harringtond@google.com>
Dan Jacques <dnj@google.com>
Dan Johnson <computerdruid@google.com>
Dan McArdle <dmcardle@google.com>
Dan Peterson <dpiddy@gmail.com>
Dan Pupius <dan@medium.com>
Dan Scales <danscales@google.com>
Dan Sinclair <dan.sinclair@gmail.com>
Daniel Cohen <dcohen@gatech.edu>
Daniel Cormier <danielc@knowbe4.com>
Danil de Kok <me@danieldk.eu>
Daniel Fleischman <danielfleischman@gmail.com>
Daniel Ingram <ingramds@appstate.edu>
Daniel Johansson <dajo2002@gmail.com>
Daniel Kerwin <d.kerwin@gini.net>
Daniel Kessler <dkess@google.com>
Daniel Krech <eikeon@eikeon.com>
Daniel Kumor <rdkumor@gmail.com>
Daniel Langner <s8572327@gmail.com>
Daniel Lidn <daniel.liden.87@gmail.com>
Daniel Lublin <daniel@lublin.se>
Daniel Mangum <georgedanielmangum@gmail.com>
Daniel Marshall <daniel.marshall2@ibm.com>
Daniel Mart <mvdan@mvdan.cc>
Daniel McCarney <cpu@letsencrypt.org>
Daniel Morsing <daniel.morsing@gmail.com>
Daniel Nadasi <dnadasi@google.com>
Daniel Nephin <dnephin@gmail.com>
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>
Daniel S. Fava <danielsfava@gmail.com>
Daniel Skinner <daniel@dasa.cc>

Daniel Speichert <daniel@speichert.pl>
Daniel Theophanes <kardianos@gmail.com>
Daniel Upton <daniel@floppy.co>
Daniela Petruzalek <daniela.petruzalek@gmail.com>
Danish Dua <danishdua@google.com>
Danish Prakash <grafitykoncept@gmail.com>
Danny Rosseau <daniel.rosseau@gmail.com>
Daria Kolistratova <daria.kolistratova@intel.com>
Darien Raymond <admin@v2ray.com>
Darren Elwood <darren@textnode.com>
Darren Grant <darren.e.grant@gmail.com>
Darren McCleary <darren.rmc@gmail.com>
Darshan Parajuli <parajulidarshan@gmail.com>
Datong Sun <dndx@idndx.com>
Dave Borowitz <dborowitz@google.com>
Dave Bort <dbort@golang.org>
Dave Cheney <dave@cheney.net>
Dave Day <djd@golang.org>
Dave Grijalva <dgrijalva@ngmoco.com>
Dave MacFarlane <driusan@gmail.com>
Dave Pifke <dave@pifke.org>
Dave Russell <forfuncsake@gmail.com>
David Anderson <danderson@google.com>
David Barnett <dbarnett@google.com>
David Benjamin <davidben@google.com>
David Black <dblack@atlassian.com>
David Bond <davidsbond93@gmail.com>
David Brophy <dave@brophy.uk>
David Brgin <676c7473@gmail.com>
David Calavera <david.calavera@gmail.com>
David Carlier <devnexen@gmail.com>
David Carter <fresco.raja@gmail.com>
David Chase <drchase@google.com>
David Covert <davidhcovert@gmail.com>
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>
David du Colombier <0intro@gmail.com>
David Finkel <david.finkel@gmail.com>
David Forsythe <dforsythe@gmail.com>
David G. Andersen <dave.andersen@gmail.com>
David Glasser <glasser@meteor.com>
David Golden <david@autopragmatic.com>
David Heuschmann <heuschmann.d@gmail.com>
David Howden <dhowden@gmail.com>
David Hubbard <dsp@google.com>
David Jakob Fritz <david.jakob.fritz@gmail.com>
David Jones <dxjones@gmail.com>
David Lazar <lazard@golang.org>
David Leon Gil <coruus@gmail.com>

David McLeish <davemc@google.com>
David Ndungu <dnjuguna@gmail.com>
David NewHamlet <david@newhamlet.com>
David Presotto <presotto@gmail.com>
David Qu <davidqu12345@gmail.com>
David R. Jenni <david.r.jenni@gmail.com>
David Sansome <me@davidsansome.com>
David Stainton <dstainton415@gmail.com>
David Symonds <dsymonds@golang.org>
David Thomas <davidthomas426@gmail.com>
David Timm <dtimm@pivotal.io>
David Titarenco <david.titarenco@gmail.com>
David Tolpin <david.tolpin@gmail.com>
David Url <david@urld.io>
David Volquartz Lebech <david@lebech.info>
David Wimmer <davidlwimmer@gmail.com>
Davies Liu <davies.liu@gmail.com>
Davor Kapsa <davor.kapsa@gmail.com>
Dean Eigenmann <7621705+decanus@users.noreply.github.com>
Dean Prichard <dean.prichard@gmail.com>
Deepak Jois <deepak.jois@gmail.com>
Deepak S <deepakspavoodath@gmail.com>
Denis Bernard <db047h@gmail.com>
Denis Brandolini <denis.brandolini@gmail.com>
Denis Isaev <idenx@yandex.com>
Denis Nagorny <denis.nagorny@intel.com>
Dennis Kuhnert <mail.kuhnert@gmail.com>
Denys Honsiorovskyi <honsiorovskyi@gmail.com>
Denys Smirnov <denis.smirnov.91@gmail.com>
Derek Buitenhuis <derek.buitenhuis@gmail.com>
Derek Che <drc@yahoo-inc.com>
Derek McGowan <derek@mcgstyle.net>
Derek Parker <parkerderek86@gmail.com>
Derek Phan <derekphan94@gmail.com>
Derek Shockey <derek.shockey@gmail.com>
Dev Ojha <dojha12@gmail.com>
Dev Zhoujun <dev.zhoujun@gmail.com>
Devon H. O'Dell <devon.odell@gmail.com>
Dhaivat Pandit <dhaivatpandit@gmail.com>
Dhananjay Nakrani <dhananjayn@google.com>
Dhiru Kholia <dhiru.kholia@gmail.com>
Dhruvdutt Jadhav <dhruvdutt.jadhav@gmail.com>
Di Xiao <dixiao@google.com>
Didier Spezia <didier.06@gmail.com>
Diego Medina <fmpwizard@gmail.com>
Diego Siqueira <diego9889@gmail.com>
Dieter Plaetinck <dieter@raintank.io>
Dilyn Corner <dilyn.corner@gmail.com>

Dimitri Sokolyuk <sokolyuk@gmail.com>
Dimitri Tcaciuc <dtcaciuc@gmail.com>
Dina Garmash <dgrmsh@gmail.com>
Diogo Pinela <diogoid7400@gmail.com>
Dirk Gadsden <dirk@esherido.com>
Diwaker Gupta <diwakergupta@gmail.com>
Dmitri Goutnik <dgoutnik@gmail.com>
Dmitri Popov <operator@cv.dp-net.com>
Dmitri Shuralyov <dmitshur@golang.org> <dmitri@shuralyov.com>
Dmitrii Okunev <xaionaro@gmail.com>
Dmitriy Cherchenko <dcherchenko@gmail.com>
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>
Dmitriy Vyukov <dvyukov@google.com>
Dmitry Chestnykh <dchest@gmail.com>
Dmitry Doroginin <doroginin@gmail.com>
Dmitry Mottl <dmitry.mottl@gmail.com>
Dmitry Neverov <dmitry.neverov@gmail.com>
Dmitry Savintsev <dsavints@gmail.com>
Dmitry Yakunin <nonamezeil@gmail.com>
Dmytro Shynkevych <dm.shynk@gmail.com>
Doga Fincan <doga@icloud.com>
Domas Tamaauskas <puerdomus@gmail.com>
Domen Ipavec <domen@ipavec.net>
Dominic Della Valle <ddvpublic@Gmail.com>
Dominic Green <dominicgreen1@gmail.com>
Dominik Honnef <dominik.honnef@gmail.com>
Dominik Vogt <vogt@linux.vnet.ibm.com>
Don Byington <don@dbyington.com>
Donald Huang <don.hcd@gmail.com>
Dong-hee Na <donghee.na92@gmail.com>
Donovan Hide <donovanhide@gmail.com>
Doug Anderson <douga@google.com>
Doug Fawley <dfawley@google.com>
Douglas Danger Manley <doug.manley@gmail.com>
Drew Flower <drewvanstone@gmail.com>
Drew Hintz <adhintz@google.com>
Drew Richardson <drewrichardson@gmail.com>
Duco van Amstel <duco.vanamstel@gmail.com>
Duncan Holm <mail@frou.org>
Dustin Carlino <dcarlino@google.com>
Dustin Herbison <djherbis@gmail.com>
Dustin Long <dustmop@gmail.com>
Dustin Sallings <dsallings@gmail.com>
Dustin Shields-Cloues <dcloues@gmail.com>
Dustin Spicuzza <dustin.spicuzza@gmail.com>
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>
Dylan Waits <dylan@waits.io>

Ed Schouten <ed@nuxi.nl>
Edan Bedrik <3d4nb3@gmail.com>
Eddie Scholtz <escholtz@google.com>
Eden Li <eden.li@gmail.com>
Eduard Urbach <e.urbach@gmail.com>
Eduardo Ramalho <eduardo.ramalho@gmail.com>
Eduardo Villaseor <evillasrmx@gmail.com>
Edward Muller <edwardam@interlix.com>
Egon Elbre <egonelbre@gmail.com>
Ehren Kret <ehren.kret@gmail.com>
Eitan Adler <lists@eitanadler.com>
Eivind Uggedal <eivind@uggedal.com>
El Mostafa Idrassi <el.mostafa.idrassi@gmail.com>
Elbert Fliek <efliek@gmail.com>
Eldar Rakhimberdin <ibeono@gmail.com>
Elena Grahovac <elena@grahovac.me>
Eli Bendersky <eliben@google.com>
Elias Naur <mail@eliasnaur.com> <elias.naur@gmail.com>
Elliot Morrison-Reed <elliotmr@gmail.com>
Ellison Leao <ellisonleao@gmail.com>
Elvina Yakubova <elvinayakubova@gmail.com>
Emerson Lin <linyintor@gmail.com>
Emil Bektimirov <lefelys@gmail.com>
Emil Hessman <emil@hessman.se>
Emil Mursalimov <mursalimovemeel@gmail.com>
Emilien Kenler <hello@emilienkenler.com>
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>
Emrecan Bati <emrecanbati@gmail.com>
Eno Compton <enocom@google.com>
Eoghan Sherry <ejsherry@gmail.com>
Eric Biggers <ebiggers@google.com>
Eric Brown <browne@vmware.com>
Eric Chiang <eric.chiang.m@gmail.com>
Eric Clark <zerohp@gmail.com>
Eric Daniels <eric@erdaniels.com>
Eric Engestrom <eric@engestrom.ch>
Eric Garrido <ekg@google.com>
Eric Koleda <ekoleda+devrel@google.com>
Eric Lagergren <ericscottlagergren@gmail.com>
Eric Milliken <emilliken@gmail.com>
Eric Pauley <eric@pauley.me>
Eric Ponce <tricokun@gmail.com>
Eric Rescorla <ekr@rtfm.com>
Eric Roshan-Eisner <eric.d.eisner@gmail.com>
Eric Rutherford <erutherford@gmail.com>
Eric Rykwalder <e.rykwalder@gmail.com>
Eric Wang <wangchaogo1990@gmail.com>
Erick Tryzelaar <etryzelaar@google.com>

Erik Aigner <aigner.erik@gmail.com>
Erik Dubbelboer <erik@dubbelboer.com>
Erik St. Martin <alakriti@gmail.com>
Erik Staab <estaab@google.com>
Erik Westrup <erik.westrup@gmail.com>
Erin Masatsugu <erin.masatsugu@gmail.com>
Ernest Chiang <ernest_chiang@htc.com>
Erwin Oegema <blablaechthema@hotmail.com>
Esko Luontola <esko.luontola@gmail.com>
Ethan Anderson <eanderson@atlassian.com>
Ethan Burns <eaburns@google.com>
Ethan Hur <ethan0311@gmail.com>
Ethan Miller <eamiller@us.ibm.com>
Ethan Reesor <ethan.reesor@gmail.com>
Euan Kemp <euank@euank.com>
Eugene Formanenko <mo4islona@gmail.com>
Eugene Kalinin <e.v.kalinin@gmail.com>
Evan Broder <evan@stripe.com>
Evan Brown <evanbrown@google.com>
Evan Digby <evandigby@gmail.com>
Evan Hicks <evan.hicks2@gmail.com>
Evan Jones <ej@evanjones.ca>
Evan Klitzke <evan@eklitzke.org>
Evan Kroske <evankroske@google.com>
Evan Martin <evan.martin@gmail.com>
Evan Phoenix <evan@phx.io>
Evan Shaw <chickencha@gmail.com>
Evgeniy Kulikov <tuxuls@gmail.com>
Evgeniy Polyakov <zbr@ioremap.net>
Ewan Chou <coocood@gmail.com>
Ewan Valentine <ewan.valentine89@gmail.com>
Eyal Posener <posener@gmail.com>
F. Talha Altnel <talhaaltinel@hotmail.com>
Fabian Wickborn <fabian@wickborn.net>
Fabian Zaremba <fabian@youremail.eu>
Fabio Falzoi <fabio.falzoi84@gmail.com>
Fabrizio Milo <mistobaan@gmail.com>
Faiyaz Ahmed <ahmedf@vmware.com>
Fan Hongjian <fan.howard@gmail.com>
Fangming Fang <fangming.fang@arm.com>
Fannie Zhang <fannie.zhang@arm.com>
Fatih Arslan <fatih@arslan.io>
Fazal Majid <majid@apsalar.com>
Fazlul Shahriar <fshahriar@gmail.com>
Federico Bond <federicobond@gmail.com>
Federico Guerinoni <guerinoni.federico@gmail.com>
Federico Simoncelli <fsimonce@redhat.com>
Fedor Indutny <fedor@indutny.com>

Fedor Korotkiy <dartslon@gmail.com>
Felipe Oliveira <felipeweb.programador@gmail.com>
Felix Bnemann <Felix.Buenemann@gmail.com>
Felix Cornelius <9767036+fcornelius@users.noreply.github.com>
Felix Geisendrfer <haimuiba@gmail.com>
Felix Kollmann <fk@konsorten.de>
Ferenc Szabo <frncmx@gmail.com>
Fernandez Ludovic <lfernandez.dev@gmail.com>
Filip Gruszczyski <gruszczy@gmail.com>
Filip Haglund <drathier@users.noreply.github.com>
Filip Stanis <fstanis@google.com>
Filippo Valsorda <filippo@golang.org> <filippo@cloudflare.com> <hi@filippo.io>
Firmansyah Adiputra <frm.adiputra@gmail.com>
Florian Forster <octo@google.com>
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>
Florian Weimer <fw@deneb.enyo.de>
Florin Papa <fpapa@google.com>
Florin Patan <florinpatan@gmail.com>
Folke Behrens <folke@google.com>
Ford Hurley <ford.hurley@gmail.com>
Forest Johnson <forest.n.johnson@gmail.com>
Francesc Campoy <campoy@golang.org>
Francesco Guardiani <francescoguard@gmail.com>
Francesco Renzi <rentziass@gmail.com>
Francisco Claude <fclaude@recoded.cl>
Francisco Rojas <francisco.rojas.gallegos@gmail.com>
Francisco Souza <franciscossouza@gmail.com>
Frank Chiarulli Jr <frank@frankchiarulli.com>
Frank Schroeder <frank.schroeder@gmail.com>
Frank Somers <fsomers@arista.com>
Frederic Guillot <frederic.guillot@gmail.com>
Frederick Kelly Mayle III <frederickmayle@gmail.com>
Frederik Ring <frederik.ring@gmail.com>
Frederik Zipp <fzipp@gmx.de>
Frediano Ziglio <freddy77@gmail.com>
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>
Fredrik Forsmo <fredrik.forsmo@gmail.com>
Fredrik Wallgren <fredrik.wallgren@gmail.com>
Frew Schmidt <github@frew.co>
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>
Frits van Bommel <fvbommel@gmail.com>
Fujimoto Kyosuke <kyoro.f@gmail.com>
Fumitoshi Ukai <ukai@google.com>
G. Hussain Chinoy <ghchinoy@gmail.com>
Gaal Yahas <gaal@google.com>
Gabrel Arthr Ptursson <gabriel@system.is>
Gabriel Aszalos <gabriel.aszalos@gmail.com>
Gabriel Guzman <gabe.guzman@gmail.com>

Gabriel Nelle <tehsphinx@web.de>
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>
Gabriel Rosenhouse <rosenhouse@gmail.com>
Gabriel Russell <gabriel.russell@gmail.com>
Gabriel Vasile <gabriel.vasile0793@gmail.com>
Gareth Paul Jones <gpj@foursquare.com>
Garret Kelly <gdk@google.com>
Garrick Evans <garrick@google.com>
Garry McNulty <garrmcnu@gmail.com>
Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>
Gary Elliott <garyelliott@google.com>
Gaurav Singh <gaurav1086@gmail.com>
Gaurish Sharma <contact@gaurishsharma.com>
Gautham Thambidorai <gautham.dorai@gmail.com>
Gauthier Jolly <gauthier.jolly@gmail.com>
Gawen Arab <gawen.arab@c.zen.ly>
Geert-Johan Riemer <gjr19912@gmail.com>
Genevieve Luyt <genevieve.luyt@gmail.com>
Gengliang Wang <ltnwgl@gmail.com>
Geoff Berry <gberry.qdt@qualcommdatacenter.com>
Geoffroy Lorieux <lorieux.g@gmail.com>
Geon Kim <geon0250@gmail.com>
Georg Reinke <guelfey@gmail.com>
George Gkirtsou <ggirtsou@gmail.com>
George Hartzell <hartzell@alerce.com>
George Looshch <looshch@loosh.ch>
George Shammas <george@shamm.as> <georgyo@gmail.com>
George Tsilias <tsiliasg@gmail.com>
Gerasimos (Makis) Maropoulos <kataras2006@hotmail.com>
Gerasimos Dimitriadis <gedimitr@gmail.com>
Gergely Brautigam <skarlso777@gmail.com>
Gernot Vormayr <gvormayr@gmail.com>
Gert Cuykens <gert.cuykens@gmail.com>
Getulio Snchez <valentin2507@gmail.com>
Ghazni Nattarshah <ghazni.nattarshah@gmail.com>
Gianguido Sora` <g.sora4@gmail.com>
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>
Giles Lean <giles.lean@pobox.com>
Giovanni Bajo <rasky@develer.com>
GitHub User @180909 (70465953) <734461790@qq.com>
GitHub User @6543 (24977596) <6543@obermui.de>
GitHub User @aca (50316549) <acadx0@gmail.com>
GitHub User @ajnirp (1688456) <ajnirp@users.noreply.github.com>
GitHub User @ajz01 (4744634) <ajzdenek@gmail.com>
GitHub User @alkesh26 (1019076) <alkesh26@gmail.com>
GitHub User @andig (184815) <cpuidle@gmx.de>
GitHub User @andrius4669 (4699695) <andrius4669@gmail.com>
GitHub User @as (8127015) <as.utf8@gmail.com>

GitHub User @bakape (7851952) <bakape@gmail.com>
GitHub User @bgadrian (830001) <aditza8@gmail.com>
GitHub User @bontequero (2674999) <bontequero@gmail.com>
GitHub User @cch123 (384546) <buaa.cch@gmail.com>
GitHub User @chainhelen (7046329) <chainhelen@gmail.com>
GitHub User @chanxuehong (3416908) <chanxuehong@gmail.com>
GitHub User @Cluas (10056928) <Cluas@live.cn>
GitHub User @cncal (23520240) <flycalvin@qq.com>
GitHub User @DQNEO (188741) <dqneoo@gmail.com>
GitHub User @Dreamacro (8615343) <chuainian@gmail.com>
GitHub User @dupoxy (1143957) <dupoxy@users.noreply.github.com>
GitHub User @EndlessCheng (7086966) <loli.con@qq.com>
GitHub User @erifan (31343225) <eric.fang@arm.com>
GitHub User @esell (9735165) <eujon.sellers@gmail.com>
GitHub User @fatedier (7346661) <fatedier@gmail.com>
GitHub User @frennkie (6499251) <mail@rhab.de>
GitHub User @geedchin (11672310) <geedchin@gmail.com>
GitHub User @GrigoriyMikhalkin (3637857) <grigoriymikhalkin@gmail.com>
GitHub User @Gusted (25481501) <williamzijl7@hotmail.com>
GitHub User @hengwu0 (41297446) <41297446+hengwu0@users.noreply.github.com>
GitHub User @hitzhangjie (3725760) <hit.zhangjie@gmail.com>
GitHub User @hkhere (33268704) <33268704+hkhere@users.noreply.github.com>
GitHub User @hopehook (7326168) <hopehook.com@gmail.com>
GitHub User @hqpko (13887251) <whaibin01@hotmail.com>
GitHub User @Illirgway (5428603) <illirgway@gmail.com>
GitHub User @itchyny (375258) <itchyny@hatena.ne.jp>
GitHub User @jinmiaoluo (39730824) <jinmiaoluo@icloud.com>
GitHub User @jopbrown (6345470) <msshane2008@gmail.com>
GitHub User @kazyshr (30496953) <kazyshr0301@gmail.com>
GitHub User @kc1212 (1093806) <kc1212@users.noreply.github.com>
GitHub User @komisan19 (18901496) <komiyama6219@gmail.com>
GitHub User @korzhao (64203902) <korzhao95@gmail.com>
GitHub User @Kropekk (13366453) <kamilkropiewnicki@gmail.com>
GitHub User @lgbgbl (65756378) <lgbgbl@qq.com>
GitHub User @lhl2617 (33488131) <l.h.lee2617@gmail.com>
GitHub User @linguohua (3434367) <lghchinaidea@gmail.com>
GitHub User @lloydchang (1329685) <lloydchang@gmail.com>
GitHub User @LotusFenn (13775899) <fenn.lotus@gmail.com>
GitHub User @luochuanhang (96416201) <chuanhangluo@gmail.com>
GitHub User @ly303550688 (11519839) <yang.liu636@gmail.com>
GitHub User @madiganz (18340029) <zacharywmadigan@gmail.com>
GitHub User @maltalex (10195391) <code@bit48.net>
GitHub User @markruler (38225900) <csu0414@gmail.com>
GitHub User @Matts966 (28551465) <Matts966@users.noreply.github.com>
GitHub User @micnncim (21333876) <micnncim@gmail.com>
GitHub User @mkishere (224617) <224617+mkishere@users.noreply.github.com>
GitHub User @nu50218 (40682920) <nu_ll@icloud.com>
GitHub User @OlgaVlPetrova (44112727) <OVPpetrova@gmail.com>

GitHub User @pierwill (19642016) <pierwill@users.noreply.github.com>
GitHub User @pityonline (438222) <pityonline@gmail.com>
GitHub User @po3rin (29445112) <abctail30@gmail.com>
GitHub User @pokutuna (57545) <popopopopokutuna@gmail.com>
GitHub User @povsister (11040951) <pov@mahou-shoujo.moe>
GitHub User @pytimer (17105586) <lixin20101023@gmail.com>
GitHub User @qcrao (7698088) <qcrao91@gmail.com>
GitHub User @ramenjuniti (32011829) <ramenjuniti@gmail.com>
GitHub User @renthraysk (30576707) <renthraysk@gmail.com>
GitHub User @roudkerk (52280478) <roudkerk@google.com>
GitHub User @saitarunreddy (21041941) <saitarunreddypalla@gmail.com>
GitHub User @SataQiu (9354727) <shidaqiu2018@gmail.com>
GitHub User @seifchen (23326132) <chenxuefeng1207@gmail.com>
GitHub User @shogo-ma (9860598) <Choroma194@gmail.com>
GitHub User @sivchari (55221074) <shibuuuu5@gmail.com>
GitHub User @skanehira (7888591) <sho19921005@gmail.com>
GitHub User @soolaugust (10558124) <soolaugust@gmail.com>
GitHub User @surechen (7249331) <surechen17@gmail.com>
GitHub User @syumai (6882878) <syumai@gmail.com>
GitHub User @tangxi666 (48145175) <tx1275044634@gmail.com>
GitHub User @tatsumack (4510569) <tatsu.mack@gmail.com>
GitHub User @tell-k (26263) <ffk2005@gmail.com>
GitHub User @tennashi (10219626) <tennashio@gmail.com>
GitHub User @uhei (2116845) <uhei@users.noreply.github.com>
GitHub User @uji (49834542) <ujiprog@gmail.com>
GitHub User @unbyte (5772358) <i@shangyes.net>
GitHub User @uropek (39370426) <uropek@gmail.com>
GitHub User @utkarsh-extc (53217283) <utkarsh.extc@gmail.com>
GitHub User @witchard (4994659) <witchard@hotmail.co.uk>
GitHub User @wmdngngng (22067700) <wangmingdong@gmail.com>
GitHub User @wolf1996 (5901874) <ksgiv37@gmail.com>
GitHub User @yah01 (12216890) <kagaminehuan@gmail.com>
GitHub User @yuanhh (1298735) <yuan415030@gmail.com>
GitHub User @zikaeroh (48577114) <zikaeroh@gmail.com>
GitHub User @ZZMarquis (7624583) <zhonglingjian3821@163.com>
Giulio Iotti <dullgiulio@gmail.com>
Giulio Micheloni <giulio.micheloni@gmail.com>
Giuseppe Valente <gvalente@arista.com>
Gleb Stepanov <glebstepanov1992@gmail.com>
Glenn Brown <glennb@google.com>
Glenn Lewis <gmlewis@google.com>
Gordon Klaus <gordon.klaus@gmail.com>
Gordon Tyler <gordon@doxxx.net>
Grace Han <hgrace503@gmail.com>
Graham King <graham4king@gmail.com>
Graham Miller <graham.miller@gmail.com>
Grant Griffiths <ggp493@gmail.com>
Green Lightning <GreenLightning.git@googlemail.com>

Greg Poirier <greg.istehbest@gmail.com>
Greg Steuck <gnezdo+github@google.com>
Greg Thelen <gthelen@google.com>
Greg Ward <greg@gerg.ca>
Grgoire Delattre <gregoire.delattre@gmail.com>
Gregory Man <man.gregory@gmail.com>
Gregory Petrosyan <gregory.petrosyan@gmail.com>
Guilherme Caruso <gui.martinscaruso@gmail.com>
Guilherme Garnier <guilherme.garnier@gmail.com>
Guilherme Goncalves <guilhermeaugustosg@gmail.com>
Guilherme Rezende <guilhermebr@gmail.com>
Guilherme Souza <32180229+gqgs@users.noreply.github.com>
Guillaume Blaquiere <guillaume.blaquiere@gmail.com>
Guillaume J. Charmes <guillaume@charmes.net>
Guillaume Sottas <guillaumesottas@gmail.com>
Gnther Noack <gnoack@google.com>
Guobiao Mei <meiguobiao@gmail.com>
Guodong Li <guodongli@google.com>
Guoliang Wang <iamwgliang@gmail.com>
Guoqi Chen <chenguoqi@loongson.cn>
Gustav Paul <gustav.paul@gmail.com>
Gustav Westling <gustav@westling.xyz>
Gustavo Franco <gustavorfranco@gmail.com>
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>
Gwenael Treguier <gwenn.kahz@gmail.com>
Gyu-Ho Lee <gyuhox@gmail.com>
H. brahim Gngr <igungor@gmail.com>
Hajime Hoshi <hajimehoshi@gmail.com>
Hallgrimur Gunnarsson <halg@google.com>
HAMANO Tsukasa <hamano@osstech.co.jp>
Han-Wen Nienhuys <hanwen@google.com>
Hang Qian <hangqian90@gmail.com>
Hanjun Kim <hallazzang@gmail.com>
Hanlin He <hanling.he@gmail.com>
Hanlin Shi <shihanlin9@gmail.com>
Hans Nielsen <hans@stackallocated.com>
Hao Mou <mouhao.mu@gmail.com>
Haoran Luo <haoran.luo@chaitin.com>
Haosdent Huang <haosdent@gmail.com>
Harald Nordgren <haraldnordgren@gmail.com>
Hari haran <hariharan.uno@gmail.com>
Hariharan Srinath <srinathh@gmail.com>
Harley Laue <losinggeneration@gmail.com>
Harry Moreno <morenoh149@gmail.com>
Harshavardhana <hrshvardhana@gmail.com>
Hasan Ozgan <hasan@ozgan.net>
Hasit Bhatt <hasit.p.bhatt@gmail.com>
Hauke Lffler <hloeffler@users.noreply.github.com>

Hvard Haugen <havard.haugen@gmail.com>
He Liu <liulonnie@gmail.com>
Hector Chu <hectorchu@gmail.com>
Hector Martin Cantero <hector@marcansoft.com>
Hein Khant Zaw <heinkhantzaw1@gmail.com>
Henning Schmiedehausen <henning@schmiedehausen.org>
Henrik Edwards <henrik.edwards@gmail.com>
Henrik Hodne <henrik@hodne.io>
Henrique Vicente <henriquevicente@gmail.com>
Henry Adi Sumarto <henry.adisumarto@gmail.com>
Henry Bubert <google@mindeco.de>
Henry Chang <mr.changyuheng@gmail.com>
Henry Clifford <h.a.clifford@gmail.com>
Henry Wong <liushuai.wang@elastic.co>
Herbert Georg Fischer <herbert.fischer@gmail.com>
Herbie Ong <herbie@google.com>
Heschi Kreinick <heschi@google.com>
Hidetatsu Yaginuma <ygnmhdtt@gmail.com>
Hilko Bengen <bengen@hilluzination.de>
Himanshu Kishna Srivastava <28himanshu@gmail.com>
Hiroaki Nakamura <hnakamur@gmail.com>
Hiromichi Ema <ema.hiro@gmail.com>
Hironao OTSUBO <motemen@gmail.com>
Hiroshi Ioka <hirochachacha@gmail.com>
Hitoshi Mitake <mitake.hitoshi@gmail.com>
Holden Huang <ttyh061@gmail.com>
Hong Ruiqi <hongruiqi@gmail.com>
Hongfei Tan <feilengcui008@gmail.com>
Horacio Duran <horacio.duran@gmail.com>
Horst Rutter <hhrutter@gmail.com>
Hossein Sheikh Attar <hattar@google.com>
Hossein Zolfi <hossein.zolfi@gmail.com>
Howard Zhang <howard.zhang@arm.com>
Hsin Tsao <tsao@google.com>
Hsin-Ho Yeh <yhh92u@gmail.com>
Hu Keping <hukeping@huawei.com>
Huan Du <i@huandu.me>
Hugues Bruant <hugues.bruant@gmail.com>
Huy Le <huy.dinh.le.89@gmail.com>
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>
Hyoyoung Chang <hyoyoung@gmail.com>
Ian Cottrell <iancottrell@google.com>
Ian Davis <nospam@iandavis.com>
Ian Gudger <ian@loosescre.ws>
Ian Haken <ihaken@netflix.com>
Ian Kent <iankent85@gmail.com>
Ian Lance Taylor <iant@golang.org>
Ian Leue <ian@appboy.com>

Ian Mckay <iann0036@gmail.com>
Ian Tay <iantay@google.com>
Ian Zapolsky <ianzapolsky@gmail.com>
Ibrahim AshShohail <ibra.sho@gmail.com>
Icarus Sparry <golang@icarus.freeuk.com>
Iccha Sethi <icchasethi@gmail.com>
Ichinose Shogo <shogo82148@gmail.com>
Idora Shinatose <idora.shinatose@gmail.com>
Ignacio Hagopian <jsign.uy@gmail.com>
Igor Bernstein <igorbernstein@google.com>
Igor Bolotnikov <igor.v.bolotnikov@gmail.com>
Igor Dolzhikov <bluesriverz@gmail.com>
Igor Vashyst <ivashyst@gmail.com>
Igor Zhilianin <igor.zhilianin@gmail.com>
Ikko Ashimine <eltociear@gmail.com>
Illya Yalovyy <yalovoy@gmail.com>
Ilya Chukov <56119080+Elias506@users.noreply.github.com>
Ilya Mateyko <me@astrophena.name>
Ilya Sinelnikov <sidhmangh@gmail.com>
Ilya Tocar <ilya.tocar@intel.com>
INADA Naoki <songofacandy@gmail.com>
Inanc Gumus <m@inanc.io>
Ingo Gottwald <in.gottwald@gmail.com>
Ingo Krabbe <ikrabbe.ask@gmail.com>
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>
Ioannis Georgoulas <geototti21@hotmail.com>
Irbe Krumina <irbekrm@gmail.com>
Irfan Sharif <irfanmahmoudsharif@gmail.com>
Irieda Noboru <irieda@gmail.com>
Isaac Ardis <isaac.ardis@gmail.com>
Isaac Wagner <ibw@isaacwagner.me>
Isfan Azhabil <isfanazhabil@gmail.com>
Iskander Sharipov <iskander.sharipov@intel.com> <quasilyte@gmail.com>
Issac Trotts <issactrotts@google.com>
Ivan Babrou <ivan@cloudflare.com>
Ivan Bertona <ivan.bertona@gmail.com>
Ivan Krasin <krasin@golang.org>
Ivan Kutuzov <arbrix@gmail.com>
Ivan Markin <sw@nogoegst.net>
Ivan Moscoso <moscoso@gmail.com>
Ivan Osadchiy <ivan.osadchii@gmail.com>
Ivan Sharavuev <shpiwan@gmail.com>
Ivan Trubach <mr.trubach@icloud.com>
Ivan Ukhov <ivan.ukhov@gmail.com>
Ivy Evans <ivy@ivyevans.net>
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>
Jaap Aarts <jaap.aarts1@gmail.com>
Jack Britton <jackxbritton@gmail.com>

Jack Lindamood <jlindamo@justin.tv>
Jack You <jamesyou@google.com>
Jacob Baskin <jbaskin@google.com>
Jacob Blain Christen <dweomer5@gmail.com>
Jacob H. Haven <jacob@cloudflare.com>
Jacob Hoffman-Andrews <github@hoffman-andrews.com>
Jacob Walker <jacobwalker0814@gmail.com>
Jaden Teng <long.asyn@gmail.com>
Jae Kwon <jae@tendermint.com>
Jake B <doogie1012@gmail.com>
Jake Ciolek <jakub@ciolek.dev>
Jakob Borg <jakob@nym.se>
Jakob Weisblat <jakobw@mit.edu>
Jakub ajka <jcajka@redhat.com>
Jakub Kaczmarzyk <jakubk@mit.edu>
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>
Jakub Warczarek <jakub.warczarek@gmail.com>
Jamal Carvalho <jamal.a.carvalho@gmail.com>
James Aguilar <jaguilar@google.com>
James Bardin <j.bardin@gmail.com>
James Chacon <jchacon@google.com>
James Clarke <jrtc27@jrtc27.com>
James Cowgill <James.Cowgill@imgtec.com>
James Craig Burley <james-github@burleyarch.com>
James David Chalfant <james.chalfant@gmail.com>
James Eady <jmeady@google.com>
James Fennell <jpfennell@google.com>
James Fysh <james.fysh@gmail.com>
James Gray <james@james4k.com>
James Harris <mailjamesharris@gmail.com>
James Hartig <fastest963@gmail.com>
James Kasten <jdkasten@google.com>
James Lawrence <jljatone@gmail.com>
James Meneghello <rawrz0r@gmail.com>
James Myers <jfmyers9@gmail.com>
James Naftel <james.naftel@gmail.com>
James Neve <jamesoneve@gmail.com>
James Nugent <james@jen20.com>
James P. Cooper <jamespcooper@gmail.com>
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>
James Schofield <james@shoeboxapp.com>
James Smith <jrs1995@icloud.com>
James Sweet <james.sweet88@googlemail.com>
James Toy <nil@opensesame.st>
James Treanor <jtreanor3@gmail.com>
James Tucker <raggi@google.com>
James Whitehead <jnwhiteh@gmail.com>
Jamie Beverly <jamie.r.beverly@gmail.com>

Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>
Jamie Kerr <jkerr113@googlemail.com>
Jamie Liu <jamieliu@google.com>
Jamie Stackhouse <contin673@gmail.com>
Jamie Turner <jamwt@dropbox.com>
Jamie Wilkinson <jaq@spacepants.org>
Jamil Djadala <djadala@gmail.com>
Jan Berktold <jan@berktold.co>
Jan H. Hosang <jan.hosang@gmail.com>
Jan Kratochvil <jan.kratochvil@redhat.com>
Jan Lehnardt <jan@apache.org>
Jan Mercl <0xjnml@gmail.com> <befelemepeseveze@gmail.com>
Jan Newmarch <jan.newmarch@gmail.com>
Jan Pilzer <jan.pilzer@gmx.de>
Jan Steinke <jan.steinke@gmail.com>
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>
Jannis Andrija Schnitzer <jannis@schnitzer.im>
Jared Allard <jaredallard@users.noreply.github.com>
Jared Culp <jculp14@gmail.com>
Jaroslavas Poepko <jp@webmaster.ms>
Jason A. Donenfeld <Jason@zx2c4.com>
Jason Baker <jason-baker@users.noreply.github.com>
Jason Barnett <jason.w.barnett@gmail.com>
Jason Buberel <jbuberel@google.com>
Jason Chu <jasonchujc@gmail.com>
Jason Del Ponte <delpontej@gmail.com>
Jason Hall <jasonhall@google.com>
Jason Keene <jasonkeene@gmail.com>
Jason LeBrun <jblebrun@gmail.com>
Jason Smale <jsmale@zendesk.com>
Jason Travis <infomaniac7@gmail.com>
Jason Wangsadinata <jwangsadinata@gmail.com>
Javier Kohen <jkohen@google.com>
Javier Revillas <jrevillas@massivedynamic.io>
Javier Segura <javism@gmail.com>
Jay Chen <chenjie@chenjie.info>
Jay Conrod <jayconrod@google.com>
Jay Lee <BusyJayLee@gmail.com>
Jay Taylor <outtatime@gmail.com>
Jay Weisskopf <jay@jayschwa.net>
Jean de Klerk <deklerk@google.com>
Jean-Andr Santoni <jean.andre.santoni@gmail.com>
Jean-Franois Bustarret <jf@bustarret.com>
Jean-Francois Cantin <jfcantin@gmail.com>
Jean-Hadrien Chabran <jh@chabran.fr>
Jean-Marc Eurin <jmeurin@google.com>
Jean-Nicolas Moal <jn.moal@gmail.com>

Jed Denlea <jed@fastly.com>
Jdrzej Szczepaniak <jbszczepaniak@gmail.com>
Jeet Parekh <jeetparekh96@gmail.com>
Jeevanandam M <jeeva@myjeeva.com>
Jeff (Zhefu) Jiang <jeffjiang@google.com>
Jeff Craig <jeffcraig@google.com>
Jeff Dupont <jeff.dupont@gmail.com>
Jeff Hodges <jeff@somethingsimilar.com>
Jeff Johnson <jrjohnson@google.com>
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>
Jeff Sickel <jas@corpus-callosum.com>
Jeff Wendling <jeff@spacemonkey.com>
Jeff Wentworth <j.wentworth@gmail.com>
Jeff Widman <jeff@jeffwidman.com>
Jeffrey H <jeffreyh192@gmail.com>
Jelte Fennema <github-tech@jeltef.nl>
Jens Frederich <jfrederich@gmail.com>
Jeremiah Harmsen <jeremiah@google.com>
Jeremy Banks <_@jeremy.ca>
Jeremy Canady <jcanady@gmail.com>
Jeremy Faller <jeremy@golang.org>
Jeremy Jackins <jeremyjackins@gmail.com>
Jeremy Jay <jeremy@pbnjay.com>
Jeremy Schlatter <jeremy.schlatter@gmail.com>
Jero Bado <tokidokitalkyou@gmail.com>
Jeroen Bobbeldijk <jerbob92@gmail.com>
Jeroen Simonetti <jeroen@simonetti.nl>
Jrme Doucet <jerdct@gmail.com>
Jerrin Shaji George <jerrinsg@gmail.com>
Jess Frazelle <me@jessfraz.com>
Jesse Szwedko <jesse.szwedko@gmail.com>
Jess Espino <jespinog@gmail.com>
Jia Zhan <jzhan@uber.com>
Jiacai Liu <jiacai2050@gmail.com>
Jiahao Lu <lujjjh@gmail.com>
Jiahua Wang <wjh180909@gmail.com>
Jianing Yu <jnyu@google.com>
Jianqiao Li <jianqiaoli@google.com>
Jiayu Yi <yijiayu@gmail.com>
Jie Ma <jienius@outlook.com>
Jihyun Yu <yjh0502@gmail.com>
Jim Cote <jfcote87@gmail.com>
Jim Kingdon <jim@bolt.me>
Jim McGrath <jimmc2@gmail.com>
Jim Minter <jminter@redhat.com>
Jimmy Frasche <soapboxcicero@gmail.com>
Jimmy Zelinskie <jimmyzelinskie@gmail.com>
Jin-wook Jeong <jeweljar@hanmail.net>

Jingcheng Zhang <diogin@gmail.com>
Jingguo Yao <yaojingguo@gmail.com>
Jingnan Si <jingnan.si@gmail.com>
Jinkun Zhang <franksnolf@gmail.com>
Jinwen Wo <wojinwen@huawei.com>
Jiong Du <londevil@gmail.com>
Jirka Dank <dnk@mail.muni.cz>
Jiulong Wang <jiulongw@gmail.com>
Joakim Sernbrant <serbaut@gmail.com>
Jochen Weber <jochen.weber80@gmail.com>
Joe Bowbeer <joe.bowbeer@gmail.com>
Joe Cortopassi <joe@joecortopassi.com>
Joe Farrell <joe2farrell@gmail.com>
Joe Harrison <joehazzers@gmail.com>
Joe Henke <joed.henke@gmail.com>
Joe Kyo <xunianzu@gmail.com>
Joe Poirier <jdpoirier@gmail.com>
Joe Richey <joerichey@google.com>
Joe Shaw <joe@joeshaw.org>
Joe Sylve <joe.sylve@gmail.com>
Joe Tsai <joetsai@digital-static.net>
Joel Courtney <euphemize@gmail.com>
Joel Ferrier <joelferrier@google.com>
Joel Sing <joel@sing.id.au> <jsing@google.com>
Jol Stemmer <jstemmer@google.com>
Joel Stemmer <stemmertech@gmail.com>
Joey Geiger <jgeiger@users.noreply.github.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
Johan Euphrosine <proppy@google.com>
Johan Jansson <johan.jansson@iki.fi>
Johan Knutzen <johan@senri.se>
Johan Sageryd <j@1616.se>
Johannes Altmanninger <aclopte@gmail.com>
Johannes Huning <johannes.huning@gmail.com>
John Asmuth <jasmuth@gmail.com>
John Bampton <jbampton@gmail.com>
John Beisley <huin@google.com>
John C Barstow <jbowtie@amathaine.com>
John DeNero <denero@google.com>
John Dethridge <jcd@golang.org>
John Gibb <johngibb@gmail.com>
John Gilik <john@jgilik.com>
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>
John Howard Palevich <jack.palevich@gmail.com>
John Jago <johnjago@protonmail.com>
John Jeffery <jjeffery@sp.com.au>
John Jenkins <twodopeshaggy@gmail.com>
John Kelly <jkelly@squarespace.com>

John Leidegren <john.leidegren@gmail.com>
John McCabe <john@johnmccabe.net>
John Moore <johnkenneth.moore@gmail.com>
John Newlin <jnewlin@google.com>
John Olheiser <john.olheiser@gmail.com>
John Papandriopoulos <jpap.code@gmail.com>
John Potocny <johnp@vividcortex.com>
John R. Lenton <jlenton@gmail.com>
John Schnake <schnake.john@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
John Weldon <johnweldon4@gmail.com>
Johnny Luo <johnnyluo1980@gmail.com>
Jon Chen <jchen@justin.tv>
Jon Johnson <jonjohnson@google.com>
Jonas Bernoulli <jonas@bernoul.li>
Jonathan Albrecht <jonathan.albrecht@ibm.com>
Jonathan Allie <jonallie@google.com>
Jonathan Amsterdam <jba@google.com>
Jonathan Boulle <jonathanboulle@gmail.com>
Jonathan Chen <dijonkitchen@users.noreply.github.com>
Jonathan Feinberg <feinberg@google.com>
Jonathan Gold <jgold.bg@gmail.com>
Jonathan Hseu <jhseu@google.com>
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>
Jonathan Nieder <jrn@google.com>
Jonathan Pentecost <pentecostjonathan@gmail.com>
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>
Jonathan Rudenberg <jonathan@titanous.com>
Jonathan Stacks <jonstacks13@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Jonathan Wills <runningwild@gmail.com>
Jonathon Lacher <jonathon.lacher@gmail.com>
Jongmin Kim <atomaths@gmail.com>
Joonas Kuorilehto <joneskoo@derbian.fi>
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>
Jordan Christiansen <xordspar0@gmail.com>
Jordan Krage <jmank88@gmail.com>
Jordan Lewis <jordanthelewis@gmail.com>
Jordan Liggitt <liggitt@google.com>
Jordan Rhee <jordanrh@microsoft.com>
Jordan Rupprecht <rupprecht@google.com>
Jordi Martin <jordimartin@gmail.com>
Jorge Araya <jorgejavieran@yahoo.com.mx>
Jorge L. Fatta <jorge.fatta@auth0.com>
Jorge Troncoso <jatron@google.com>
Jos Visser <josv@google.com>
Josa Gesell <josa@gesell.me>

Jose Luis Vzquez Gonzlez <josvazg@gmail.com>
Joseph Bonneau <jcb@google.com>
Joseph Holsten <joseph@josephholsten.com>
Joseph Morag <sefim96@gmail.com>
Josh Baum <joshbaum@google.com>
Josh Bleecher Snyder <josharian@gmail.com>
Josh Chorlton <jchorlton@gmail.com>
Josh Deprez <josh.deprez@gmail.com>
Josh Goebel <dreamer3@gmail.com>
Josh Hoak <jhoak@google.com>
Josh Holland <jrh@joshh.co.uk>
Josh Rickmar <jrick@companyzero.com>
Josh Roppo <joshroppo@gmail.com>
Josh Varga <josh.varga@gmail.com>
Joshua Bezaleel Abednego <joshua.bezaleel@gmail.com>
Joshua Boelter <joshua.boelter@intel.com>
Joshua Chase <jcjoshuachase@gmail.com>
Joshua Crowgey <jcrowgey@uw.edu>
Joshua Harshman <joshgreyhat@gmail.com>
Joshua M. Clulow <josh.clulow@joyent.com>
Joshua Rubin <joshua@rubixconsulting.com>
Josselin Costanzi <josselin@costanzi.fr>
Jostein Stuhaug <js@solidsystem.no>
JP Sugarbroad <jpsugar@google.com>
JT Olds <jtolds@xnet5.com>
JT Olio <hello@jtolio.com>
Juan Carlos <juanjcsr@gmail.com>
Juan Pablo Civile <elementohb@gmail.com>
Jude Pereira <judebpereira@gmail.com>
Jukka-Pekka Kekkonen <karatepekka@gmail.com>
Julia Hansbrough <flowerhack@google.com>
Julian Kornberger <jk+github@digineo.de>
Julian Pastarmov <pastarmovj@google.com>
Julian Phillips <julian@quantumfyre.co.uk>
Julian Tibble <julian.tibble@gmail.com>
Julie Qiu <julie@golang.org>
Julien Kauffmann <julien.kauffmann@freelan.org>
Julien Salleyron <julien.salleyron@gmail.com>
Julien Schmidt <google@julienschmidt.com>
Julien Tant <julien@craftyx.fr>
Julio Montes <julio.montes@intel.com>
Jun Zhang <jim.zoumo@gmail.com>
Junchen Li <junchen.li@arm.com>
Junda Liu <junda@celer.network>
Jungho Ahn <jhahn@google.com>
Junya Hayashi <ledmonster@gmail.com>
Juraj Sukop <sukop@users.noreply.github.com>
Jure Ham <jure.ham@zemanta.com>

Justin Gracenin <jgracenin@gmail.com>
Justin Li <git@justinli.net>
Justin Nu <nuss.justin@gmail.com>
Justyn Temme <justyntemme@gmail.com>
Kai Backman <kaib@golang.org>
Kai Dong <dokia2357@gmail.com>
Kai Lke <kai@kinvolk.io>
Kai Trukenmller <ktye78@gmail.com>
Kale Blankenship <kale@lemnisys.com>
Kaleb Elwert <kelwert@atlassian.com>
Kalman Bekesi <kalmanb@google.com>
Kamal Aboul-Hosn <aboulhosn@google.com>
Kamil Chmielewski <kamil.chm@gmail.com>
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>
Kamil Rytarowski <krytarowski@users.noreply.github.com>
Kang Hu <hukangustc@gmail.com>
Kanta Ebihara <kantaebihara@gmail.com>
Karan Dhiman <karandhi@ca.ibm.com>
Karel Pazdera <pazderak@gmail.com>
Karoly Negyesi <chx1975@gmail.com>
Karsten Khler <karsten.koehler95@gmail.com>
Karthik Nayak <karthik.188@gmail.com>
Kashav Madan <kshvmdn@gmail.com>
Kate Manson <kate.manson@izettle.com>
Katharine Berry <ktbry@google.com>
Katie Hockman <katie@golang.org>
Kato Kazuyoshi <kato.kazuyoshi@gmail.com>
Katrina Owen <katrina.owen@gmail.com>
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>
Kay Zhu <kayzhu@google.com>
Kazuhiro Sera <seratch@gmail.com>
KB Sriram <kbsriram@google.com>
Keegan Carruthers-Smith <keegan.csmith@gmail.com>
Kei Son <hey.calmdown@gmail.com>
Keiichi Hirobe <chalenge.akane@gmail.com>
Keiji Yoshida <keijiyoshida.mail@gmail.com>
Keisuke Kishimoto <keisuke.kishimoto@gmail.com>
Keith Ball <inflatablewoman@gmail.com>
Keith Randall <khr@golang.org>
Keith Rarick <kr@xph.us>
Kelly Heller <pestophagous@gmail.com>
Kelsey Hightower <kelsey.hightower@gmail.com>
Kelvin Foo Chuan Lyi <vmirage@gmail.com>
Kemal Elmizan <kemalelmizan@gmail.com>
Ken Friedenbach <kenliz@cruzio.com>
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>
Ken Sedgwick <ken@bonsai.com>
Ken Thompson <ken@golang.org>

Kenichi Tsunokawa <kenichi.tsunokawa@gmail.com>
Kenji Kaneda <kenji.kaneda@gmail.com>
Kenji Yano <kenji.yano@gmail.com>
Kenneth Shaw <kenshaw@gmail.com>
Kenny Grant <kennygrant@gmail.com>
Kensei Nakada <handbomusic@gmail.com>
Kenta Mori <zoncoen@gmail.com>
Kerollos Magdy <kerolloz@yahoo.com>
Ketan Parmar <ketanbparmar@gmail.com>
Kevan Swanberg <kevswanberg@gmail.com>
Kevin Albertson <kevin.albertson@mongodb.com>
Kevin Ballard <kevin@sb.org>
Kevin Burke <kev@inburke.com>
Kvin Dunglas <dunglas@gmail.com>
Kevin Gillette <extemporalgenome@gmail.com>
Kevin Herro <kevin109104@gmail.com>
Kevin Kirsche <kev.kirsche@gmail.com>
Kevin Klues <klueska@gmail.com> <klueska@google.com>
Kevin Malachowski <chowski@google.com>
Kevin Parsons <kevpar@microsoft.com>
Kevin Ruffin <kruffin@gmail.com>
Kevin Vu <kevin.m.vu@gmail.com>
Kevin Zita <bleedgreenandgold@gmail.com>
Keyan Pishdadian <kpishdadian@gmail.com>
Keyuan Li <keyuanli123@gmail.com>
Kezhu Wang <kezhuw@gmail.com>
Khosrow Moossavi <khos2ow@gmail.com>
Kieran Colford <kieran@kcolford.com>
Kieran Gorman <kieran.j.gorman@gmail.com>
Kim Shrier <kshrier@racktopsystems.com>
Kim Yongbin <kybinz@gmail.com>
Kir Kolyshkin <kolyshkin@gmail.com>
Kirill Korotaev <kirillx@gmail.com>
Kirill Motkov <Motkov.Kirill@gmail.com>
Kirill Smelkov <kirr@nexedi.com>
Kirill Tatchihin <kirabsuir@gmail.com>
Kirk Han <kirk91.han@gmail.com>
Kirklin McDonald <kirklin.mcdonald@gmail.com>
KJ Tsanaktsidis <ktsanaktsidis@zendesk.com>
Klaus Post <klauspost@gmail.com>
Kodie Goodwin <kodiegoodwin@gmail.com>
Koichi Shiraishi <zchee.io@gmail.com>
Koki Ide <niconegoto@yahoo.co.jp>
Koki Tomoshige <tomocy.dev@gmail.com>
Komu Wairagu <komuw05@gmail.com>
Konstantin <konstantin8105@gmail.com>
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>
Koya IWAMURA <kiwamura0314@gmail.com>

Kris Kwiatkowski <kris@cloudflare.com>
Kris Nova <kris@nivenly.com>
Kris Rousey <krousey@google.com>
Krishna Birla <krishnabirla16@gmail.com>
Kristopher Watts <traetox@gmail.com>
Krzysztof Dbrowski <krzysdabro@live.com>
Kshitij Saraogi <kshitijsaraogi@gmail.com>
Kun Li <likunarmstrong@gmail.com>
Kunpei Sakai <namusyaka@gmail.com>
Kuntal Majumder <hellozee@disroot.org>
Kush Patel <kush.patel@hootsuite.com>
Kyle Consalus <consalus@gmail.com>
Kyle Isom <kyle@gokyle.net>
Kyle Jones <kyle@kyledj.com>
Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>
Kyle Nusbaum <kyle@datadog.com>
Kyle Shannon <kyle@pobox.com>
Kyle Spiers <eiais@google.com>
Kyle Wood <kyle@kylewood.cc>
Kyohei Kadota <lufia@lufia.org>
Kyrylo Silin <silin@kyrylo.org>
L Campbell <unpantsu@gmail.com>
Lai Jiangshan <eag0628@gmail.com>
Lajos Papp <lalyos@yahoo.com>
Lakshay Garg <lakshay.garg.1996@gmail.com>
Lann Martin <lannm@google.com>
Lanre Adelowo <yo@lanre.wtf>
Lapo Luchini <lapo@lapo.it>
Larry Clapp <larry@theclapp.org>
Larry Hosken <lahosken@golang.org>
Lars Jeppesen <jeppesen.lars@gmail.com>
Lars Lehtonen <lars.lehtonen@gmail.com>
Lars Wiegman <lars@namsral.com>
Larz Conwell <larzconwell@gmail.com>
Laurent Voisin <lpvoisin@gmail.com>
Laurie Clark-Michalek <laurie@qubit.com>
LE Manh Cuong <cuong.manhle.vn@gmail.com>
Lee Hinman <hinman@gmail.com>
Lee Packham <lpackham@gmail.com>
Lehner Florian <dev@der-flo.net>
Leigh McCulloch <leighmcc@gmail.com>
Leo Antunes <leo@costela.net>
Leo Rudberg <ljr@google.com>
Leon Klingele <git@leonklingele.de>
Leonard Wang <wangdeyu0907@gmail.com> <wangdeyu@golangcn.org>
Leonardo Comelli <leonardo.comelli@gmail.com>
Leonel Quinteros <leonel.quinteros@gmail.com>
Lev Shamardin <shamardin@gmail.com>

Lewin Bormann <lewin.bormann@gmail.com>
Lewis Waddicor <nemesismk2@gmail.com>
Li-Yu Yu <aaronyu@google.com>
Liam Haworth <liam@haworth.id.au>
Lily Chung <lilithkchung@gmail.com>
Lingchao Xin <douglarek@gmail.com>
Lion Yang <lion@aosc.xyz>
Liz Rice <liz@lizrice.com>
Lize Cai <lizzzcai1@gmail.com>
Lloyd Dewolf <foolswisdom@gmail.com>
Llus Batlle i Rossell <viric@viric.name>
Lorenz Bauer <lmb@cloudflare.com>
Lorenz Brun <lorenz@brun.one>
Lorenz Nickel <mail@lorenznickel.de>
Lorenzo Masini <rugginoso@develer.com>
Lorenzo Stoakes <lstoakes@gmail.com>
Louis Kruger <louisk@google.com>
Luan Santos <cfcluan@gmail.com>
Lubomir I. Ivanov <neolit123@gmail.com>
Luca Bruno <luca.bruno@coreos.com>
Luca Greco <luca.greco@alcacoop.it>
Luca Spiller <luca@stackednotion.com>
Lucas Bremgartner <lucas.bremgartner@gmail.com>
Lucas Clemente <lclemente@google.com>
Lucien Stuker <lucien.stuker@gmail.com>
Lucio De Re <lucio.dere@gmail.com>
Ludi Rehak <ludi317@gmail.com>
Luigi Riefolo <luigi.riefolo@gmail.com>
Luit van Drongelen <luitvd@gmail.com>
Luka Zakrajek <tr00.g33k@gmail.com>
Luka Zitnik <luka.zitnik@gmail.com>
Lukasz Milewski <lmmilewski@gmail.com>
Luke Champine <luke.champine@gmail.com>
Luke Curley <qpingu@gmail.com>
Luke Granger-Brown <git@lukegb.com>
Luke Shumaker <lukeshu@datawire.io>
Luke Young <bored-engineer@users.noreply.github.com>
Luna Duclos <luna.duclos@palmstonegames.com>
Luuk van Dijk <lvd@golang.org> <lvd@google.com>
Lyle Franklin <lylejfranklin@gmail.com>
Lynn Boger <laboger@linux.vnet.ibm.com>
Ma Peiqi <mapeiqi2017@gmail.com>
Maarten Bezemer <maarten.bezemer@gmail.com>
Maciej Dbski <maciejd@google.com>
Madhu Rajanna <madhupr007@gmail.com>
Magnus Hiie <magnus.hiie@gmail.com>
Mahdi Hosseini Moghaddam <seyed.mahdi.hosseini.moghaddam@ibm.com>
Maia Lee <maia.lee@leftfieldlabs.com>

Maicon Costa <maiconscosta@gmail.com>
Mak Kolybabi <mak@kolybabi.com>
Maksym Trykur <maksym.trykur@gmail.com>
Mal Curtis <mal@mal.co.nz>
Manfred Touron <m@42.am>
Manigandan Dharmalingam <manigandan.jeff@gmail.com>
Manish Goregaokar <manishsmail@gmail.com>
Manlio Perillo <manlio.perillo@gmail.com>
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>
Mansour Rahimi <rahimi.mnr@gmail.com>
Manu Garg <manugarg@google.com>
Manu S Ajith <neo@codingarena.in>
Manuel Mendez <mmendez534@gmail.com>
Marat Khabibullin <marat.khabibullin@jetbrains.com>
Marc Sanmiquel <marcsanmiquel@gmail.com>
Marc Weistroff <marc@weistroff.net>
Marc-Antoine Ruel <maruel@chromium.org>
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>
Marcel van Lohuizen <mpvl@golang.org>
Marcelo Cantos <marcelo.cantos@gmail.com>
Marcelo E. Magallon <marcelo.magallon@gmail.com>
Marco Gazerro <gazerro@open2b.com>
Marco Hennings <marco.hennings@freiheit.com>
Marcus Weiner <marcus.weiner@gmail.com>
Marcus Willock <crazcalm@gmail.com>
Marga Manterola <marga@google.com>
Mariano Cano <mariano@smallstep.com>
Marin Bai <marin.basic02@gmail.com>
Mario Arranz <marioarranzr@gmail.com>
Marius A. Eriksen <marius@grailbio.com>
Marius Nuennerich <mnu@google.com>
Mark Adams <mark@markadams.me>
Mark Bucciarelli <mkbucc@gmail.com>
Mark Dain <mark@markdain.net>
Mark Glines <mark@glines.org>
Mark Hansen <markhansen@google.com>
Mark Harrison <marhar@google.com>
Mark Jeffery <dandare100@gmail.com>
Mark Percival <m@mdp.im>
Mark Pulford <mark@kyne.com.au>
Mark Rushakoff <mark.rushakoff@gmail.com>
Mark Ryan <mark.d.ryan@intel.com>
Mark Severson <miquella@gmail.com>
Mark Theunissen <mark.theunissen@gmail.com>
Mark Villacampa <m@markvillacampa.com>
Mark Wolfe <mark@wolfe.id.au>
Mark Zavislak <zavislak@google.com>
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>

Marko Kevac <marko@kevac.org>
Marko Kungla <marko.kungla@gmail.com>
Marko Mikulicic <mkm@google.com>
Marko Mudrinic <mudrinic.mare@gmail.com>
Marko Tiikkaja <marko@joh.to>
Markus Duft <markus.duft@salomon.at>
Markus Sonderegger <marraison@gmail.com>
Markus Zimmermann <zimmski@gmail.com>
Marten Seemann <martenseemann@gmail.com>
Martin Asquino <martin.asquino@gmail.com>
Martin Bertschler <mbertschler@gmail.com>
Martin Garton <garton@gmail.com>
Martin Habbecke <marhab@google.com>
Martin Hamrle <martin.hamrle@gmail.com>
Martin Hoefling <martin.hoefling@gmx.de>
Martin Kreichgauer <martinkr@google.com>
Martin Kunc <martinkunc@users.noreply.github.com>
Martin Lindhe <martin.j.lindhe@gmail.com>
Martin Mhrmann <martin@golang.org> <moehrmann@google.com> <martisch@uos.de>
Martin Neubauer <m.ne@gmx.net>
Martin Olsen <github.com@martinolsen.net>
Martin Olsson <martin@minimum.se>
Martin Probst <martin@probst.io>
Martin Sucha <anty.sk+git@gmail.com>
Martin Tournoij <martin@arp242.net>
Martins Sipenko <martins.sipenko@gmail.com>
Martynas Budrinas <mabu@google.com>
Marvin Stenger <marvin.stenger94@gmail.com>
Marwan Sulaiman <marwan.sulaiman@work.co>
Maryan Hratson <gmarik@gmail.com>
Masahiro Furudate <masahiro.furudate@gmail.com>
Masahiro Wakame <vvakame@gmail.com>
Masaki Yoshida <yoshida.masaki@gmail.com>
Masaya Watanabe <sfbgwm30@gmail.com>
Mat Byczkowski <mbyczkowski@gmail.com>
Mat Ryer <thatmatryer@gmail.com>
Mt Gulys <mgulyas86@gmail.com>
Matej Bao <matejbaco@gmail.com>
Mateus Amin <mateus.amin@gmail.com>
Mateusz Czapliski <czapkofan@gmail.com>
Matheus Alcantara <matheusssilv97@gmail.com>
Mathias Beke <git@denbeke.be>
Mathias Hall-Andersen <mathias@hall-andersen.dk>
Mathias Leppich <mleppich@muhqu.de>
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>
Matt Aimonetti <mattaimonetti@gmail.com>
Matt Blair <me@matthewblair.net>

Matt Bostock <matt@mattbostock.com>
Matt Brown <mdbrown@google.com>
Matt Dee <mdee@hioscar.com>
Matt Drollette <matt@drollette.com>
Matt Harden <matt.harden@gmail.com>
Matt Jibson <matt.jibson@gmail.com>
Matt Joiner <anacrolix@gmail.com>
Matt Jones <mrjones@google.com>
Matt Juran <thepciet@gmail.com>
Matt Layher <mdlayher@gmail.com>
Matt Masurka <masurka@google.com>
Matt Pearring <broskies@google.com>
Matt Reiferson <mreiferson@gmail.com>
Matt Robenolt <matt@ydekproductions.com>
Matt Strong <mstrong1341@gmail.com>
Matt T. Proud <matt.proud@gmail.com>
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>
Matthew Brennan <matty.brennan@gmail.com>
Matthew Broberg <matthewbbroberg@gmail.com>
Matthew Cottingham <mattcottingham@gmail.com>
Matthew Dempsky <mdempsky@google.com>
Matthew Denton <mdenton@skyportsystems.com>
Matthew Holt <Matthew.Holt+git@gmail.com>
Matthew Horsnell <matthew.horsnell@gmail.com>
Matthew Waters <mwwaters@gmail.com>
Matthias Dtsch <matze@mdoetsch.de>
Matthias Frei <matthias.frei@inf.ethz.ch>
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>
Matthieu Olivier <olivier.matthieu@gmail.com>
Matthijs Kooijman <matthijs@stdin.nl>
Mattias Appelgren <mattias@ppelgren.se>
Mauricio Alvarado <mauricio.alvarado@leftfieldlabs.com>
Max Drosdo.www <g1ran1q@gmail.com>
Max Riveiro <kavu13@gmail.com>
Max Schmitt <max@schmitt.mx>
Max Semenik <maxsem.wiki@gmail.com>
Max Ushakov <ushmax@gmail.com>
Maxim Eryomenko <moeryomenko@gmail.com>
Maxim Khitrov <max@mxcrypt.com>
Maxim Pimenov <mpimenov@google.com>
Maxim Pugachev <pugachev.mm@gmail.com>
Maxim Ushakov <ushakov@google.com>
Maxime de Roucy <maxime.deroucy@gmail.com>
Mximo Cuadros Ortiz <mcuadros@gmail.com>
Maxwell Krohn <themax@gmail.com>
Maya Rashish <maya@NetBSD.org>
Mayank Kumar <krmayankk@gmail.com>
Mehrad Sadeghi <2012.linkinpark@gmail.com>

Meir Fischer <meirfischer@gmail.com>
Meng Zhuo <mengzhuo1203@gmail.com> <mzh@golangcn.org>
Mhd Sulhan <m.shulhan@gmail.com>
Mia Zhu <CrystalZhu1025getu@gmail.com>
Micah Stetson <micah.stetson@gmail.com>
Michael Anthony Knyszek <mknyszek@google.com>
Michael Brandenburg <mbrandenburg@bolste.com>
Michael Chaten <mchaten@gmail.com>
Michael Cook <code@mdcook.net>
Michael Darakananda <pongad@google.com>
Michael Dorner <mail@michaeldorner.de>
Michael Edwards <medwards@walledcity.ca>
Michael Elkins <michael.elkins@gmail.com>
Michael Ellis <micellis@justin.tv>
Michael Fraenkel <michael.fraenkel@gmail.com>
Michael Fromberger <michael.j.fromberger@gmail.com>
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>
Michael Henderson <mdhender@users.noreply.github.com>
Michael Hendricks <michael@ndrix.org>
Michael Hoisie <hoisie@gmail.com>
Michael Hudson-Doyle <michael.hudson@linaro.org>
Michael Kasch <michael.kasch@gmail.com>
Michael Kufl <golang@c.michael-kaeufl.de>
Michael Kelly <mjk@google.com>
Michal Lvesque-Dion <mlevesquedion@google.com>
Michael Lewis <mikelikespie@gmail.com>
Michael MacInnis <Michael.P.MacInnis@gmail.com>
Michael Marineau <michael.marineau@coreos.com>
Michael Matloob <matloob@google.com>
Michael McConville <momcconville@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Michael McLoughlin <mmcloughlin@gmail.com>
Michael Munday <mike.munday@ibm.com>
Michael Pearson <mipearson@gmail.com>
Michael Piatek <piatek@google.com>
Michael Pratt <mpratt@google.com>
Michael Schaller <michael@5challer.de>
Michael Schurter <michael.schurter@gmail.com>
Michael Shields <mshields@google.com>
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>
Michael Steinert <mike.steinert@gmail.com>
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>
Michael Teichgrber <mteichgraeber@gmx.de> <mt4swm@googlemail.com>
Michael Traver <mtraver@google.com>
Michael Vetter <g.bluehut@gmail.com>
Michael Vogt <mvo@ubuntu.com>
Michail Kargakis <mkargaki@redhat.com>
Michal Bohuslvek <mbohuslavek@gmail.com>

Michal Cierniak <cierniak@google.com>
Micha Derkacz <ziutek@lnet.pl>
Michal Franc <lam.michal.franc@gmail.com>
Michal Hruby <michal@axiom.co>
Micha owicki <mlowicki@gmail.com>
Michal Pristas <michal.pristas@gmail.com>
Michal Rostecki <mrostecki@suse.de>
Michal Stokluska <mstoklus@redhat.com>
Michalis Kargakis <michaliskargakis@gmail.com>
Michel Lespinasse <walken@google.com>
Michel Levieux <mlevieux42@gmail.com>
Michele Di Pede <michele.di.pede@gmail.com>
Mickael Kerjean <mickael.kerjean@gmail.com>
Mickey Reiss <mickeyreiss@gmail.com>
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>
Miguel Acero <acero@google.com>
Miguel Mendez <stxmendez@gmail.com>
Miguel Molina <hi@mvader.me>
Mihai Borobocea <MihaiBorobocea@gmail.com>
Mihai Moldovan <ionic@ionic.de>
Mihai Todor <todormihai@gmail.com>
Mihail Minaev <minaev.mike@gmail.com>
Mikael Tillenius <mikti42@gmail.com>
Mike Andrews <mra@xoba.com>
Mike Appleby <mike@app.leby.org>
Mike Danese <mikedanese@google.com>
Mike Houston <mike@kothar.net>
Mike Kabischev <kabischev@gmail.com>
Mike Rosset <mike.rosset@gmail.com>
Mike Samuel <mikesamuel@gmail.com>
Mike Solomon <msolo@gmail.com>
Mike Strosaker <strosake@us.ibm.com>
Mike Tsao <mike@sowbug.com>
Mike Wiacek <mjwiacek@google.com>
Mikhail Faraponov <11322032+moredure@users.noreply.github.com>
Mikhail Fesenko <proggga@gmail.com>
Mikhail Gusarov <dottedmag@dottedmag.net>
Mikhail Panchenko <m@mihasya.com>
Miki Tebeka <miki.tebeka@gmail.com>
Mikio Hara <mikioh.mikioh@gmail.com>
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>
Mikoaj Baranowski <mikolajb@gmail.com>
Milan Knezevic <milan.knezevic@mips.com>
Milan Patel <bicelot3@gmail.com>
Milutin Jovanovic <jovanovic.milutin@gmail.com>
MinJae Kwon <mingrammer@gmail.com>
Miquel Sabat Sol <mikisabate@gmail.com>
Mirko Hansen <baaazen@gmail.com>

Miroslav Genov <mgenov@gmail.com>
Misty De Meo <mistydemeo@gmail.com>
Mohamed Attahri <mohamed@attahri.com>
Mohit Agarwal <mohit@sdf.org>
Mohit kumar Bajoria <mohitbajo36@gmail.com>
Mohit Verma <vmohit.93@gmail.com>
Momchil Velikov <momchil.velikov@gmail.com>
Monis Khan <mkhan@redhat.com>
Monty Taylor <mordred@inaugust.com>
Moritz Fain <moritz@fain.io>
Moriyoshi Koizumi <mozo@mozo.jp>
Morten Siebuhr <sbhr@sbhr.dk>
Mshe van der Sterre <moshevds@gmail.com>
Mostafa Solati <mostafa.solati@gmail.com>
Mostyn Bramley-Moore <mostyn@antipode.se>
Mrunal Patel <mrunalp@gmail.com>
Muhammad Falak R Wani <falakreyaz@gmail.com>
Muhammad Hamza Farrukh <hamzafarrukh141@gmail.com>
Muhammed Uluyol <uluyol0@gmail.com>
Muir Manders <muir@mnd.rs>
Mukesh Sharma <sharma.mukesh439@gmail.com>
Mura Li <mura_li@castech.com.tw>
Mykhailo Lesyk <mikhail@lesyk.org>
Nahum Shalman <nahamu@gmail.com>
Naman Aggarwal <aggarwal.nam@gmail.com>
Naman Gera <namangera15@gmail.com>
Nan Deng <monnand@gmail.com>
Nao Yonashiro <owan.orisano@gmail.com>
Naoki Kanatani <k12naoki@gmail.com>
Natanael Copa <ncopa@mirantis.com>
Nate Wilkinson <nathanwilk7@gmail.com>
Nathan Cantelmo <n.cantelmo@gmail.com>
Nathan Caza <mastercactapus@gmail.com>
Nathan Dias <nathan.dias@orijtech.com>
Nathan Fiscaletti <nathan.fiscaletti@vrazo.com>
Nathan Humphreys <nkhumphreys@gmail.com>
Nathan John Youngman <nj@nathany.com>
Nathan Otterness <otternes@cs.unc.edu>
Nathan P Finch <nate.finch@gmail.com>
Nathan VanBenschoten <nvanbenschoten@gmail.com>
Nathan Youngman <git@nathany.com>
Nathan(yinian) Hu <nathanhu@google.com>
Nathaniel Cook <nvcook42@gmail.com>
Naveen Kumar Sangi <naveenkumarsangi@protonmail.com>
Neeilan Selvalingam <neeilan96@gmail.com>
Neelesh Chandola <neelesh.c98@gmail.com>
Nehal J Wani <nehaljw.kkd1@gmail.com>
Neil Alexander <neilalexander@neilalexander.dev>

Neil Lyons <nwjlyons@googlemail.com>
Neuman Vong <neuman.vong@gmail.com>
Neven Sajko <nsajko@gmail.com>
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>
Niall Sheridan <nsheridan@gmail.com>
Nic Day <nic.day@me.com>
Nicholas Asimov <nicholas@asimov.me>
Nicholas Katsaros <nick@nickkatsaros.com>
Nicholas Maniscalco <nicholas@maniscalco.com>
Nicholas Ng <nickng@nickng.io>
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>
Nicholas Sullivan <nicholas.sullivan@gmail.com>
Nicholas Waples <nwaples@gmail.com>
Nick Anthony <Liberatys@outlook.com>
Nick Cooper <nmvc@google.com>
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>
Nick Harper <nharper@google.com>
Nick Kubala <nkubala@google.com>
Nick Leli <nicholasleli@gmail.com>
Nick Miyake <nmiyake@users.noreply.github.com>
Nick Patavalis <nick.patavalis@gmail.com>
Nick Petroni <npetroni@cs.umd.edu>
Nick Robinson <nrobinson13@gmail.com>
Nick Sherron <nsherron90@gmail.com>
Nick Smolin <nick27surgut@gmail.com>
Nicolas BRULEZ <n.brulez@gmail.com>
Nicolas Kaiser <nikai@nikai.net>
Nicolas Owens <mischief@offblast.org>
Nicolas S. Dade <nic.dade@gmail.com>
Niek Sanders <niek.sanders@gmail.com>
Niels Widger <niels.widger@gmail.com>
Nigel Kerr <nigel.kerr@gmail.com>
Nigel Tao <nigeltao@golang.org>
Nik Nyby <nnyby@columbia.edu>
Nikhil Benesch <nikhil.benesch@gmail.com>
Nikita Gillmann <nikita@n0.is> <ng0@n0.is>
Nikita Kryuchkov <nkryuchkov10@gmail.com>
Nikita Melekhin <nimelehin@gmail.com>
Nikita Vanyasin <nikita.vanyasin@gmail.com>
Niklas Schnelle <niklas.schnelle@gmail.com>
Niko Dziemba <niko@dziemba.com>
Nikolay Turpitko <nikolay@turpitko.com>
Nikson Kanti Paul <nikson.sust@gmail.com>
Nils Larsgrd <nilsmagnus@gmail.com>
Nir Soffer <nirsof@gmail.com>
Niranjan Godbole <niranjan8192@gmail.com>
Nishanth Shanmugham <nishanth.gerrard@gmail.com>
Noah Campbell <noahcampbell@gmail.com>

Noah Goldman <noahg34@gmail.com>
Noah Santschi-Cooney <noah@santschi-cooney.ch>
Noble Johnson <noblepoly@gmail.com>
Nodir Turakulov <nodir@google.com>
Noel Georgi <git@frezbo.com>
Nooras Saba <saba@golang.org>
Norberto Lopes <nlopes.ml@gmail.com>
Norman B. Lancaster <qbradq@gmail.com>
Nuno Cruces <ncruces@users.noreply.github.com>
Obei Sideg <obei.sideg@gmail.com>
Obeyda Djeffal <djefobey@gmail.com>
Odin Ugedal <odin@ugedal.com>
Oleg Bulatov <dmage@yandex-team.ru>
Oleg Vakheta <helginet@gmail.com>
Oleku Konko <oleku.konko@gmail.com>
Oling Cat <olingcat@gmail.com>
Oliver Hookins <ohookins@gmail.com>
Oliver Powell <oliverpowell84@gmail.com>
Oliver Stenbom <ostenbom@pivotal.io>
Oliver Tan <otan@cockroachlabs.com>
Oliver Tonnhofer <olt@bogosoft.com>
Olivier Antoine <olivier.antoine@gmail.com>
Olivier Duperray <duperray.olivier@gmail.com>
Olivier Mengu <olivier.mengue@gmail.com>
Olivier Poitrey <rs@dailymotion.com>
Olivier Saingre <osaingre@gmail.com>
Olivier Wulveryck <olivier.wulveryck@gmail.com>
Omar Jarjur <ojarjur@google.com>
Onkar Jadhav <omjadhav2610@gmail.com>
Ori Bernstein <ori@eigenstate.org>
Ori Rawlings <orirawlings@gmail.com>
Oryan Moshe <iamoryanmoshe@gmail.com>
Osamu TONOMORI <osamingo@gmail.com>
Oscar Sderlund <oscar.soderlund@einride.tech>
zgr Kesim <oec-go@kesim.org>
Pablo Caderno <kaderno@gmail.com>
Pablo Lalloni <plalloni@gmail.com>
Pablo Rozas Larraondo <pablo.larraondo@anu.edu.au>
Pablo Santiago Blum de Aguiar <scorphus@gmail.com>
Padraig Kitterick <padraigkitterick@gmail.com>
Pallat Anchaleechamaikorn <yod.pallat@gmail.com>
Pan Chenglong <1004907659@qq.com>
Panos Georgiadis <pgeorgiadis@suse.de>
Pantelis Sampaziotis <psampaz@gmail.com>
Paolo Giarrusso <p.giarrusso@gmail.com>
Paolo Martini <mrtnpaolo@gmail.com>
Parker Moore <parkrmoore@gmail.com>
Parminder Singh <parmsingh101@gmail.com>

Pascal Dierich <pascal@pascaldierich.com>
Pascal S. de Kloe <pascal@quies.net>
Paschalis Tsilias <paschalis.tsilias@gmail.com>
Pasi Thkp <pasi.tahkapaa@gmail.com>
Pat Moroney <pat@pat.email>
Patrick Barker <barkerp@vmware.com>
Patrick Crosby <patrick@stathat.com>
Patrick Gavlin <pgavlin@gmail.com>
Patrick Gundlach <gundlach@speedata.de>
Patrick Higgins <patrick.allen.higgins@gmail.com>
Patrick Jones <ithuriel@google.com>
Patrick Lee <pattyshack101@gmail.com>
Patrick Mzard <patrick@mezard.eu>
Patrick Mylund Nielsen <patrick@patrickmn.com>
Patrick Pelletier <pp.pelletier@gmail.com>
Patrick Riley <pfr@google.com>
Patrick Smith <pat42smith@gmail.com>
Patrik Lundin <patrik@sigterm.se>
Patrik Nyblom <pnyb@google.com>
Paul A Querna <paul.querna@gmail.com>
Paul Borman <borman@google.com>
Paul Boyd <boyd.paul2@gmail.com>
Paul Chang <paulchang@google.com>
Paul D. Weber <x0bdev@gmail.com>
Paul Davis <43160081+Pawls@users.noreply.github.com>
Paul E. Murphy <murp@ibm.com>
Paul Forgey <paulf@tessier-ashpool.net>
Paul Hammond <paul@paulhammond.org>
Paul Hankin <paulhankin@google.com>
Paul Jolly <paul@myitcv.org.uk>
Paul Lalonde <paul.a.lalonde@gmail.com>
Paul M Furley <paul@paulfurley.com>
Paul Marks <pmarks@google.com>
Paul Meyer <paul.meyer@microsoft.com>
Paul Nasrat <pnasrat@google.com>
Paul PISCUC <paul.piscuc@gmail.com>
Paul Querna <pquerna@apache.org>
Paul Rosania <paul.rosania@gmail.com>
Paul Ruest <pruest@gmail.com>
Paul Sbarra <Sbarra.Paul@gmail.com>
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>
Paul Tyng <paul@paultyng.net>
Paul van Brouwershaven <paul@vanbrouwershaven.com>
Paul Wankadia <junyer@google.com>
Paulo Casaretto <pcasaretto@gmail.com>
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>
Paulo Gomes <paulo.gomes.uk@gmail.com>
Pavel Kositsyn <kositsyn.pa@phystech.edu>

Pavel Paulau <pavel.paulau@gmail.com>
Pavel Watson <watsonpavel@gmail.com>
Pavel Zinovkin <pavel.zinovkin@gmail.com>
Pavlo Sumkin <ymkins@gmail.com>
Pawel Knap <pawelknap88@gmail.com>
Pawel Szczur <filemon@google.com>
Pawe Szulik <pawel.szulik@intel.com>
Pedro Lopez Mareque <pedro.lopez.mareque@gmail.com>
Pei Xian Chee <luciolas1991@gmail.com>
Pei-Ming Wu <p408865@gmail.com>
Pen Tree <appletree2479@outlook.com>
Peng Gao <peng.gao.dut@gmail.com>
Percy Wegmann <ox.to.a.cart@gmail.com>
Perry Abbott <perry.j.abbott@gmail.com>
Petar Dambovaliev <petar.atanasov.1987@gmail.com>
Petar Maymounkov <petarm@gmail.com>
Peter Armitage <peter.armitage@gmail.com>
Peter Bourgon <peter@bourgon.org>
Peter Collingbourne <pcc@google.com>
Peter Conerly <pconerly@gmail.com>
Peter Dotchev <dotchev@gmail.com>
Peter Froehlich <peter.hans.froehlich@gmail.com>
Peter Gonda <pgonda@google.com>
Peter Hoyes <pahoyes@gmail.com>
Peter Kleiweg <pkleiweg@xs4all.nl>
Peter McKenzie <petermck@google.com>
Peter Moody <pmoody@uber.com>
Peter Morjan <pmorjan@gmail.com>
Peter Mundy <go.peter.90@gmail.com>
Peter Nguyen <peter@mictis.com>
Pter Surnyi <speter.go1@gmail.com>
Pter Szab <pts@google.com>
Pter Szilgyi <peterke@gmail.com>
Peter Teichman <pteichman@fastly.com>
Peter Tseng <ptseng@squareup.com>
Peter Waldschmidt <peter@waldschmidt.com>
Peter Waller <peter.waller@gmail.com>
Peter Weinberger <pjw@golang.org>
Peter Williams <pwil3058@gmail.com>
Peter Wu <pwu@cloudflare.com>
Peter Zhang <i@ddatsh.com>
Petr Jedin <petr.jediny@gmail.com>
Petrica Voicu <pvoicu@paypal.com>
Phil Pearl <philip.j.r.pearl@gmail.com>
Phil Pennock <pdp@golang.org>
Philip Brgesen <philip.borgesen@gmail.com>
Philip Brown <phil@bolthole.com>
Philip Hofer <phofer@umich.edu>

Philip K. Warren <pkwarren@gmail.com>
Philip Nelson <me@pnelson.ca>
Philipp Sauter <sauterp@protonmail.com>
Philipp Stephani <phst@google.com>
Phillip Campbell <15082+phillc@users.noreply.github.com>
Pierre Carru <pierre.carru@eshard.com>
Pierre Durand <pierredurand@gmail.com>
Pierre Prinetti <pierreprinetti@gmail.com>
Pierre Roullon <pierre.roullon@gmail.com>
Piers <google@hellopiers.pro>
Pieter Droogendijk <pieter@binky.org.uk>
Pietro Gagliardi <pietro10@mac.com>
Piyush Mishra <piyush@codeitout.com>
Plekhanov Maxim <kishtatix@gmail.com>
Poh Zi How <poh.zihow@gmail.com>
Polina Osadcha <polliosa@google.com>
Pontus Leitzler <leitzler@gmail.com>
Povilas Versockas <p.versockas@gmail.com>
Prajwal Koirala <16564273+Prajwal-Koirala@users.noreply.github.com>
Prasanga Siripala <pj@pjebs.com.au>
Prasanna Swaminathan <prasanna@mediamath.com>
Prashant Agrawal <prashant.a.vjti@gmail.com>
Prashant Varanasi <prashant@prashantv.com>
Praveen Kumar <praveen+git@kumar.in>
Pravendra Singh <hackpravj@gmail.com>
Preetam Jinka <pj@preet.am>
Pure White <wu.purewhite@gmail.com>
Qais Patankar <qaisjp@gmail.com>
Qiuxuan Zhu <ilsh1022@gmail.com>
Quan Tran <qeed.quan@gmail.com>
Quan Yong Zhai <qyzhai@gmail.com>
Quentin Perez <qperez@ocs.online.net>
Quentin Renard <contact@asticode.com>
Quentin Smith <quentin@golang.org>
Quey-Liang Kao <s101062801@m101.nthu.edu.tw>
Quim Muntal <quimmuntal@gmail.com>
Quinn Slack <sqs@sourcegraph.com>
Quinten Yearsley <qyearsley@chromium.org>
Quoc-Viet Nguyen <afelion@gmail.com>
Rabin Gaire <rabingaire20@gmail.com>
Radek Simko <radek.simko@gmail.com>
Radek Sohlich <sohlich@gmail.com>
Radu Berinde <radu@cockroachlabs.com>
Rafal Jeczalik <rjeczalik@gmail.com>
Raghavendra Nagaraj <jamdagni86@gmail.com>
Rahul Bajaj <rahulrb0509@gmail.com>
Rahul Chaudhry <rahulchaudhry@chromium.org>
Rahul Wadhwani <rahulwadhwani21@gmail.com>

Raif S. Naffah <go@naffah-raif.name>
Rajat Goel <rajat.goel2010@gmail.com>
Rajath Agasthya <rajathagasthya@gmail.com>
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>
Ralph Corderoy <ralph@inputplus.co.uk>
Ramazan AYYILDIZ <rayyildiz@gmail.com>
Ramesh Dharan <dharan@google.com>
Randy Reddig <randy@alta.software>
Raph Levien <raph@google.com>
Raphael Geronimi <raphael.geronimi@gmail.com>
Raul Silvera <rsilvera@google.com>
Ravil Bikbulatov <weeellz12@gmail.com>
RaviTeja Pothana <ravi.tezu@gmail.com>
Ray Tung <rtung@thoughtworks.com>
Ray Wu <ray@liftoff.io>
Raymond Kazlauskas <raima220@gmail.com>
Rebecca Stambler <rstambler@golang.org>
Reilly Watson <reillywatson@gmail.com>
Reinaldo de Souza Jr <juniorz@gmail.com>
Remi Gillig <remigillig@gmail.com>
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>
Ren Ogaki <re.yuz77777@gmail.com>
Rens Rikkerink <Ikkerens@users.noreply.github.com>
Rhys Hiltner <rhys@justin.tv>
Ricardo Padilha <ricardospadilha@gmail.com>
Ricardo Pchevuzinske Katz <ricardo.katz@serpro.gov.br>
Ricardo Seriani <ricardo.seriani@gmail.com>
Rich Hong <hong.rich@gmail.com>
Richard Barnes <rlb@ipv.sx>
Richard Crowley <r@rcrowley.org>
Richard Dingwall <rdingwall@gmail.com>
Richard Eric Gavaletz <gavaletz@gmail.com>
Richard Gibson <richard.gibson@gmail.com>
Richard Miller <miller.research@gmail.com>
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>
Richard Pickering <richard.pickering@hotmail.co.uk>
Richard Ulmer <codesoap@mailbox.org>
Richard Wilkes <wilkes@me.com>
Rick Arnold <rickarnoldjr@gmail.com>
Rick Hudson <rlh@golang.org>
Rick Sayre <whorfin@gmail.com>
Rijnard van Tonder <rvantonder@gmail.com>
Riku Voipio <riku.voipio@linaro.org>
Riley Avron <ra.git@posteo.net>
Risto Jaakko Saarelma <rsaarelm@gmail.com>
Rob Earhart <earhart@google.com>
Rob Findley <rfindley@google.com>
Rob Norman <rob.norman@infinitycloud.com>

Rob Phoenix <rob@robphoenix.com>
Rob Pike <r@golang.org>
Robert Ayrapetyan <robert.ayrapetyan@gmail.com>
Robert Burke <rebo@google.com>
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au> <dan@kortschak.io>
Robert Dinu <r@varp.se>
Robert Engels <rengels@ix.netcom.com>
Robert Figueiredo <robfig@gmail.com>
Robert Griesemer <gri@golang.org>
Robert Hencke <robert.hencke@gmail.com>
Robert Iannucci <iannucci@google.com>
Robert Kuska <rkuska@gmail.com>
Robert Obryk <robryk@gmail.com>
Robert Sesek <rsesek@google.com>
Robert Snedegar <roberts@google.com>
Robert Stepanek <robert.stepanek@gmail.com>
Robert van Gent <rvangent@google.com>
Robert-Andr Mauchin <zebob.m@gmail.com>
Roberto Clapis <robclap8@gmail.com>
Roberto Selbach <roberto@selbach.ca>
Robin Eklind <r.eklind.87@gmail.com>
Robin Zhong <robin@robinzhong.co>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Rodolfo Rodriguez <rodolfobgibson@gmail.com>
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>
Roger Pau Monn <royger@gmail.com>
Roger Peppe <rogpeppe@gmail.com>
Rohan Challa <rohan@golang.org>
Rohan Verma <rohanverma2004@gmail.com>
Rohith Ravi <entombedvirus@gmail.com>
Roi Martin <jroi.martin@gmail.com>
Roland Illig <roland.illig@gmx.de>
Roland Shoemaker <rolandshoemaker@gmail.com>
Romain Baugue <romain.baugue@elwinar.com>
Roman Budnikov <romanyx90@yandex.ru>
Roman Kollr <roman.kollar.0@gmail.com>
Roman Shchekin <mrqtros@gmail.com>
Ron Hashimoto <mail@h2so5.net>
Ron Minnich <rminnich@gmail.com>
Ronnie Ebrin <ebrin.ronnie@protonmail.com>
Ross Chater <rdchater@gmail.com>
Ross Kinsey <rossikinsey@gmail.com>
Ross Light <light@google.com> <rlight2@gmail.com>
Ross Smith II <ross@smithii.com>
Rowan Marshall <rowanajmarshall@gmail.com>
Rowan Worth <sqweek@gmail.com>
Rudi Kramer <rudi.kramer@gmail.com>

Rui Ueyama <ruiu@google.com>
Ruixin Bao <ruixin.bao@ibm.com>
Ruslan Andreev <ruslan.andreev@huawei.com>
Ruslan Nigmatullin <elessar@dropbox.com>
Russ Cox <rsc@golang.org>
Russell Haering <russellhaering@gmail.com>
Ryan Bagwell <ryanbagwell@outlook.com>
Ryan Barrett <ryanb@google.com>
Ryan Boehning <ryan.boehning@apcera.com>
Ryan Brown <ribrdb@google.com>
Ryan Canty <jrcanty@gmail.com>
Ryan Dahl <ry@tinyclouds.org>
Ryan Hitchman <hitchmanr@gmail.com>
Ryan Kohler <ryankohler@google.com>
Ryan Leung <rleungx@gmail.com>
Ryan Lower <rpjlower@gmail.com>
Ryan Roden-Corrent <ryan@rcorre.net>
Ryan Seys <ryan@ryanseys.com>
Ryan Slade <ryanslade@gmail.com>
Ryan Zhang <ryan.zhang@docker.com>
Ryoichi KATO <ryo1kato@gmail.com>
Ryoya Sekino <ryoyasekino1993@gmail.com>
Ryuji Iwata <qt.luigi@gmail.com>
Ryuma Yoshida <ryuma.y1117@gmail.com>
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>
S.alar Onur <caglar@10ur.org>
Sabin Mihai Rapan <sabin.rapan@gmail.com>
Sad Pencil <qh06@qq.com>
Sai Cheemalapati <saicheems@google.com>
Sai Kiran Dasika <kirandasika30@gmail.com>
Sakeven Jiang <jc5930@sina.cn>
Salaheddin M. Mahmud <salah.mahmud@gmail.com>
Salmn Aljammz <s@0x65.net>
Sam Arnold <sarnold64@bloomberg.net>
Sam Boyer <tech@samboyer.org>
Sam Chen <chenxsan@gmail.com>
Sam Cross <samgcdev@gmail.com>
Sam Ding <samding@ca.ibm.com>
Sam Hug <samuel.b.hug@gmail.com>
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>
Sam Whited <sam@samwhited.com>
Sam Xie <xsambundy@gmail.com>
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>
Sami Commerot <samic@google.com>
Sami Pnknen <sami.ponkanen@gmail.com>
Samuel Kelemen <SCKelemen@users.noreply.github.com>
Samuel Tan <samueltan@google.com>
Samuele Pedroni <pedronis@lucediurna.net>

San Ye <xyesan@gmail.com>
Sander van Harmelen <sander@vanharmelen.nl>
Sanjay Menakuru <balasanjay@gmail.com>
Santhosh Kumar Tekuri <santhosh.tekuri@gmail.com>
Santiago De la Cruz <51337247+xhit@users.noreply.github.com>
Sarah Adams <shadams@google.com>
Sardorbek Pulatov <sardorbek.pulatov@outlook.com>
Sascha Brawer <sascha@brawer.ch>
Sasha Lionheart <lionhearts@google.com>
Sasha Sobol <sasha@scaledinference.com>
Satoru Kitaguchi <rule.the.fate.myfirststory@gmail.com>
Scott Barron <scott.barron@github.com>
Scott Bell <scott@sctsm.com>
Scott Cotton <scott@mindowl.com>
Scott Crunkleton <crunk1@gmail.com>
Scott Ferguson <scottwferg@gmail.com>
Scott Lawrence <bytbox@gmail.com>
Scott Mansfield <smansfield@netflix.com>
Scott Ragan <ragansa@fb.com>
Scott Schwartz <scotts@golang.org>
Scott Van Woudenberg <scottvw@google.com>
Sean Burford <sburford@google.com>
Sean Chen <oohcode@gmail.com>
Sean Chittenden <seanc@joyent.com>
Sean Christopherson <sean.j.christopherson@intel.com>
Sean Dolphin <Sean.Dolphin@kpcompass.com>
Sean Harger <sharger@google.com>
Sean Harrington <sean.harrington@leftfieldlabs.com>
Sean Hildebrand <seanwhildebrand@gmail.com>
Sean Liao <seankhliao@gmail.com>
Sean Rees <sean@erifax.org>
Sebastiaan van Stijn <github@gone.nl>
Sebastian Chlopecki <sebsebmc@gmail.com>
Sebastian Kinne <skinne@google.com>
Sebastian Schmidt <yath@google.com>
Sebastien Binet <seb.binet@gmail.com>
Sbastien Paolacci <sebastien.paolacci@gmail.com>
Sebastien Williams-Wynn <sebastien@cytora.com>
Segev Finer <segev208@gmail.com>
Seiji Takahashi <timaki.st@gmail.com>
Sergei Lemeshkin <sergeilem@gmail.com>
Sergei Skorobogatov <skorobo@rambler.ru>
Sergei Zagurskii <gvozdoder@gmail.com>
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>
Sergey Arseev <sergey.arseev@intel.com>
Sergey Dobrodey <sergey.dobrodey@synesis.ru>
Sergey Frolov <sfrolov@google.com>
Sergey Glushchenko <gsserge@gmail.com>

Sergey Ivanov <ser1325@gmail.com>
Sergey Kacheev <S.Kacheev@gmail.com>
Sergey Lukjanov <me@slukjanov.name>
Sergey Mishin <sergeymishine@gmail.com>
Sergey Mudrik <sergey.mudrik@gmail.com>
Sergey Semin <gray12511@gmail.com>
Sergey Yanykin <syanykin@ozon.ru>
Sergio Luis O. B. Correia <sergio@correia.cc>
Sergiusz Bazanski <bazanski@gmail.com>
Serhat Giydiren <serhatgiydiren@gmail.com>
Serhii Aheienko <serhii.aheienko@gmail.com>
Seth Hoenig <seth.a.hoenig@gmail.com>
Seth Vargo <sethvargo@gmail.com>
Shaba Abhiram <shabarivas.abhiram@gmail.com>
Shahar Kohanim <skohanim@gmail.com>
Shailesh Suryawanshi <ss.shailesh28@gmail.com>
Shamil Garatuev <garatuev@gmail.com>
Shamim Akhtar <shamim.rhce@gmail.com>
Shane Hansen <shanemhansen@gmail.com>
Shang Jian Ding <sding3@ncsu.edu>
Shaozhen Ding <dsz0111@gmail.com>
Shaquille Que <shaquille@golang.org>
Shaquille Wyan Que <shaqqywyan@gmail.com>
Shaun Dunning <shaun.dunning@uservoice.com>
Shawn Elliott <selliott@microsoft.com>
Shawn Ledbetter <sledbetter@google.com>
Shawn Smith <shawn.p.smith@gmail.com>
Shawn Walker-Salas <shawn.walker@oracle.com>
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>
Shengjing Zhu <zsj950618@gmail.com>
Shengyu Zhang <shengyu.zhang@chaitin.com>
Shi Han Ng <shihanng@gmail.com>
ShihCheng Tu <mrtoastcheng@gmail.com>
Shijie Hao <haormj@gmail.com>
Shin Fan <shinfan@google.com>
Shinji Tanaka <shinji.tanaka@gmail.com>
Shinnosuke Sawada <6warashi9@gmail.com>
Shintaro Kaneko <kaneshin0120@gmail.com>
Shivakumar GN <shivakumar.gn@gmail.com>
Shivani Singhal <shivani.singhal2804@gmail.com>
Shivansh Rai <shivansh@freebsd.org>
Shivashis Padhi <shivashispadhi@gmail.com>
Shoshin Nikita <shoshin_nikita@fastmail.com>
Shota Sugiura <s.shota.710.3506@gmail.com>
Shubham Sharma <shubham.sha12@gmail.com>
Shuhei Takahashi <nya@chromium.org>
Shun Fan <sfan@google.com>
Silvan Jegen <s.jegen@gmail.com>

Simo Gomes Viana <simaogmv@gmail.com>
Simarpreet Singh <simar@linux.com>
Simon Drake <simondrake1990@gmail.com>
Simon Ferquel <simon.ferquel@docker.com>
Simon Frei <freisim93@gmail.com>
Simon Jefford <simon.jefford@gmail.com>
Simon Law <sfllaw@sfllaw.ca>
Simon Rawet <simon@rawet.se>
Simon Rozman <simon@rozman.si>
Simon Ser <contact@emersion.fr>
Simon Thulbourn <simon+github@thulbourn.com>
Simon Whitehead <chemnova@gmail.com>
Sina Siadat <siadat@gmail.com>
Sjoerd Siebinga <sjoerd.siebinga@gmail.com>
Sokolov Yura <funny.falcon@gmail.com>
Song Gao <song@gao.io>
Song Lim <songlim327@gmail.com>
Songjiayang <songjiayang1@gmail.com>
Songlin Jiang <hollowman@hollowman.ml>
Soojin Nam <jsunam@gmail.com>
Sren L. Hansen <soren@linux2go.dk>
Sparrow Li <liyuancylx@gmail.com>
Spencer Kocot <spencerkocot@gmail.com>
Spencer Nelson <s@spenczar.com>
Spencer Tung <spencertung@google.com>
Spenser Black <spenserblack01@gmail.com>
Spring Mc <heresy.mc@gmail.com>
Srdjan Petrovic <spetrovic@google.com>
Sridhar Venkatakrishnan <sridhar@laddoo.net>
Srinidhi Kaushik <shrinidhi.kaushik@gmail.com>
StalkR <stalkr@stalkr.net>
Stan Hu <stanhu@gmail.com>
Stan Schwertly <stan@schwertly.com>
Stanislav Afanasev <php.progger@gmail.com>
Steeve Morin <steeve.morin@gmail.com>
Stefan Baebler <sbaebler@outbrain.com>
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>
Stepan Shabalin <neverliberty@gmail.com>
Stephan Klatt <stephan.klatt@gmail.com>
Stephan Renatus <srenatus@chef.io>
Stephan Zuercher <zuercher@gmail.com>
Stphane Travostino <stephane.travostino@gmail.com>
Stephen Lewis <stephen@sock.org.uk>
Stephen Lu <steuhs@users.noreply.github.com>
Stephen Ma <stephenm@golang.org>
Stephen McQuay <stephen@mcquay.me>
Stephen Searles <stephens2424@gmail.com>
Stephen Weinberg <stephen@q5comm.com>

Steve Francia <spf@golang.org>
Steve Gilbert <stevegilbert23@gmail.com>
Steve LoFurno <slofurno@gmail.com>
Steve McCoy <mccoyst@gmail.com>
Steve Mynott <steve.mynott@gmail.com>
Steve Newman <snewman@google.com>
Steve Phillips <elimisteve@gmail.com>
Steve Streeting <steve@stevestreeting.com>
Steve Traut <straut@google.com>
Steven Buss <sbuss@google.com>
Steven Elliot Harris <seharris@gmail.com>
Steven Erenst <stevenerenst@gmail.com>
Steven Hartland <steven.hartland@multiplay.co.uk>
Steven Littiebrant <imgroxx@gmail.com>
Steven Maude <git@stevenmaude.co.uk>
Steven Wilkin <stevenwilkin@gmail.com>
Stuart Jansen <sjansen@buscaluz.org>
Subham Sarkar <sarkar.subhams2@gmail.com>
Sue Spence <virtuallysue@gmail.com>
Sugu Sougoumarane <ssougou@gmail.com>
Suharsh Sivakumar <suharshs@google.com>
Sukrit Handa <sukrit.handa@utoronto.ca>
Sunny <me@darkowlzz.space>
Suriyaa Sundararuban <suriyaasundararuban@gmail.com>
Suvaditya Sur <suvaditya.sur@gmail.com>
Suyash <dextrous93@gmail.com>
Suzy Mueller <suzmue@golang.org>
Sven Almgren <sven@tras.se>
Sven Blumenstein <svbl@google.com>
Sven Lee <lee1300394324@gmail.com>
Sven Taute <sven.taute@gmail.com>
Sylvain Zimmer <sylvain@sylvainzimmer.com>
Syohei YOSHIDA <syohex@gmail.com>
Szabolcs Nagy <nsz@port70.net>
Taavi Kivisik <taavi.kivisik@gmail.com>
Tad Fisher <tadfisher@gmail.com>
Tad Glines <tad.glines@gmail.com>
Tadas Valiukas <tadovas@gmail.com>
Tadeo Kondrak <me@tadeo.ca>
Taesu Pyo <pyotaesu@gmail.com>
Tai Le <letientai299@gmail.com>
Taj Khattra <taj.khattra@gmail.com>
Takashi Matsuo <tmatsuo@google.com>
Takashi Mima <tks.m1205@gmail.com>
Takayoshi Nishida <takayoshi.nishida@gmail.com>
Takeshi YAMANASHI <9.nashi@gmail.com>
Takuto Ikuta <tikuta@google.com>
Takuya Ueda <uedatakuya@gmail.com>

Tal Shprecher <tshprecher@gmail.com>
Tams Gulcsi <tgulacsi78@gmail.com>
Tamir Duberstein <tamird@gmail.com>
Tao Qingyun <qingyunha@gmail.com>
Tao Shen <shentaoskyking@gmail.com>
Tao Wang <twang2218@gmail.com>
Tarmigan Casebolt <tarmigan@gmail.com>
Taro Aoki <aizu.s1230022@gmail.com>
Taru Karttunen <taruti@taruti.net>
Tatsuhiro Tsujikawa <tatsuhiro.t@gmail.com>
Tatsuya Kaneko <m.ddotx.f@gmail.com>
Taufiq Rahman <taufiqrx8@gmail.com>
Teague Cole <tnc1443@gmail.com>
Ted Kornish <golang@tedkornish.com>
Tejasvi Nareddy <tejunareddy@gmail.com>
Terin Stock <terinjokes@gmail.com>
Terrel Shumway <gopher@shumway.us>
Tetsuo Kiso <tetsuokiso9@gmail.com>
Than McIntosh <thanm@google.com>
Thanabodee Charoenpiriyakij <wingyminus@gmail.com>
Thanatat Tamtan <acoshift@gmail.com>
The Hatsune Daishi <nao20010128@gmail.com>
Thiago Avelino <t@avelino.xxx>
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>
Thom Wiggers <thom@thomwiggers.nl>
Thomas Alan Copeland <talan.copeland@gmail.com>
Thomas Bonfort <thomas.bonfort@gmail.com>
Thomas Bouldin <inlined@google.com>
Thomas Bruyelle <thomas.bruyelle@gmail.com>
Thomas Bushnell, BSG <tbushnell@google.com>
Thomas de Zeeuw <thomasdezeeuw@gmail.com>
Thomas Desrosiers <thomasdesr@gmail.com>
Thomas Habets <habets@google.com>
Thomas Kappler <tkappler@gmail.com>
Thomas Meson <zllak@hycik.org>
Thomas Symborski <thomas.symborski@gmail.com>
Thomas Wanielista <tomwans@gmail.com>
Thorben Krueger <thorben.krueger@gmail.com>
Thordur Bjornsson <thorduri@secnorth.net>
Tiago Peczenyj <tpeczenyj@weborama.com>
Tiago Queiroz <contato@tiago.eti.br>
Tianji Wu <the729@gmail.com>
Tianon Gravi <admwiggin@gmail.com>
Tilman Dilo <tilman.dilo@gmail.com>
Tim Cooijmans <timcooijmans@gmail.com>
Tim Cooper <tim.cooper@layeh.com>
Tim Ebringer <tim.ebringer@gmail.com>
Tim Heckman <t@heckman.io>

Tim Henderson <tim.tadh@gmail.com>
Tim Hockin <thockin@google.com>
Tim King <taking@google.com>
Tim Mhlmann <muhlemmer@gmail.com>
Tim Swast <swast@google.com>
Tim Wright <tenortim@gmail.com>
Tim Xu <xiaoxubeii@gmail.com>
Timmy Douglas <timmyd983@gmail.com>
Timo Savola <timo.savola@gmail.com>
Timo Truyts <alkaloid.btx@gmail.com>
Timothy Gu <timothygu99@gmail.com>
Timothy Studd <tim@timstudd.com>
Tipp Moseley <tipp@google.com>
Tiwei Bie <tiwei.btw@antgroup.com>
Tobias Assarsson <tobias.assarsson@gmail.com>
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>
Tobias Klauser <tklauser@distanz.ch>
Tobias Kohlbau <tobias@kohlbau.de>
Toby Burress <kurin@google.com>
Todd Kulesza <tkulesza@google.com>
Todd Neal <todd@tneal.org>
Todd Wang <toddwang@gmail.com>
Tom Anthony <git@tomanthony.co.uk>
Tom Bergan <tombergan@google.com>
Tom Freudenberg <tom.freudenberg@4commerce.de>
Tom Heng <zhm20070928@gmail.com>
Tom Lanyon <tomlanyon@google.com>
Tom Levy <tomlevy93@gmail.com>
Tom Limoncelli <tal@whatexit.org>
Tom Linford <tomlinford@gmail.com>
Tom Panton <tom@tomandtally.co.uk>
Tom Parkin <tom.parkin@gmail.com>
Tom Payne <twpayne@gmail.com>
Tom Szymanski <tgs@google.com>
Tom Thorogood <me+google@tomthorogood.co.uk>
Tom Wilkie <tom@weave.works>
Tom Zierbock <tomzierbock@gmail.com>
Tomas Dabasinskas <tomas@dabasinskas.net>
Tommy Schaefer <tommy.schaefer@teecom.com>
Tomohiro Kusumoto <zabio1192@gmail.com>
Tomoya Ishizaki <zaq1tomo@gmail.com>
Tonis Tiigi <tonistiigi@gmail.com>
Tony Reix <tony.reix@bull.net>
Tony Walker <walkert.uk@gmail.com>
Tooru Takahashi <tooru.takahashi134@gmail.com>
Tor Andersson <tor.andersson@gmail.com>
Torben Schinke <torben.schinke@neotos.de>
Tormod Erevik Lea <tormodlea@gmail.com>

Toshihiro Shiino <shiino.toshihiro@gmail.com>
Toshiki Shima <hayabusa1419@gmail.com>
Totoro W <tw19881113@gmail.com>
Travis Bischel <travis.bischel@gmail.com>
Travis Cline <travis.cline@gmail.com>
Trevor Dixon <trevordixon@gmail.com>
Trevor Strohman <trevor.strohman@gmail.com>
Trey Lawrence <lawrence.trey@gmail.com>
Trey Roessig <trey.roessig@gmail.com>
Trey Tacon <ttacon@gmail.com>
Tristan Amini <tamini01@ca.ibm.com>
Tristan Colgate <tcolgate@gmail.com>
Tristan Ooohry <ooohry@gmail.com>
Tristan Rice <rice@fn.lc>
Troels Thomsen <troels@thomsen.io>
Trong Bui <trong.buiquoc@gmail.com>
Trung Nguyen <trung.n.k@gmail.com>
Tsuji Daishiro <dram.dt.shonan@gmail.com>
Tudor Golubenco <tudor.g@gmail.com>
Tugdual Saunier <tugdual.saunier@gmail.com>
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>
Tyler Bui-Palsulich <tpalsulich@google.com>
Tyler Bunnell <tylerbunnell@gmail.com>
Tyler Treat <ttreat31@gmail.com>
Tyson Andre <tysonandre775@gmail.com>
Tzach Shabtay <tzachshabtay@gmail.com>
Tzu-Chiao Yeh <su3g4284zo6y7@gmail.com>
Tzu-Jung Lee <roylee17@currant.com>
Udalov Max <re.udalov@gmail.com>
Uddeshya Singh <singhuddeshyaofficial@gmail.com>
Ugorji Nwoke <ugorji@gmail.com>
Ulf Holm Nielsen <doktor@dyregod.dk>
Ulrich Kunitz <uli.kunitz@gmail.com>
Umang Parmar <umangjparmar@gmail.com>
Uriel Mangado <uriel@berlinblue.org>
Urvil Patel <patelurvil38@gmail.com>
Utkarsh Dixit <53217283+utkarsh-extc@users.noreply.github.com>
Uttam C Pawar <uttam.c.pawar@intel.com>
Vadim Grek <vadimprog@gmail.com>
Vadim Vygonets <unixdj@gmail.com>
Val Polouchkine <vpolouch@justin.tv>
Valentin Vidic <vvidic@valentin-vidic.from.hr>
Vaughn Iverson <vsivsi@yahoo.com>
Vee Zhang <veezhang@126.com> <vveezhang@gmail.com>
Vega Garcia Luis Alfonso <vegacom@gmail.com>
Venil Noronha <veniln@vmware.com>
Veselkov Konstantin <kostozyb@gmail.com>
Viacheslav Poturaev <vearutop@gmail.com>

Victor Chudnovsky <vchudnov@google.com>
Victor Michel <victor@optimyze.cloud>
Victor Vrantchan <vrancean+github@gmail.com>
Vignesh Ramachandra <vickyramachandra@gmail.com>
Vikas Kedia <vikask@google.com>
Ville Skytt <ville.skytta@iki.fi>
Vincent Ambo <tazjin@googlemail.com>
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>
Vincent Vanackere <vincent.vanackere@gmail.com>
Vinu Rajashekhar <vinutheraj@gmail.com>
Vish Subramanian <vish@google.com>
Vishal Dalwadi <dalwadivishal26@gmail.com>
Vishvananda Ishaya <vishvananda@gmail.com>
Visweswara R <r.visweswara@gmail.com>
Vitaly Zdanevich <zdanevich.vitaly@ya.ru>
Vitor De Mario <vitordemario@gmail.com>
Vivek Sekhar <vsekhar@google.com>
Vivek V <iamvivekv96@gmail.com>
Vivian Liang <vliang88@gmail.com>
Vlad Krasnov <vlad@cloudflare.com>
Vladimir Evgrafov <evgrafov.vladimir@gmail.com>
Vladimir Kovpak <cn007b@gmail.com>
Vladimir Kuzmin <vkuzmin@uber.com>
Vladimir Mihailenco <vladimir.webdev@gmail.com>
Vladimir Nikishenko <vova616@gmail.com>
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>
Vladimir Varankin <nek.narqo@gmail.com>
Vojtech Bocek <vbocek@gmail.com>
Volker Dobler <dr.volker.dobler@gmail.com>
Volodymyr Paprotski <vpaprots@ca.ibm.com>
Vyacheslav Pachkov <slava.pach@gmail.com>
W. Trevor King <wking@tremily.us>
Wade Simmons <wade@wades.im>
Wagner Riffel <wgrriffel@gmail.com>
Walt Della <walt@javins.net>
Walter Poupore <wpoupore@google.com>
Wander Lairson Costa <wcosta@mozilla.com>
Wang Xuerui <git@xen0n.name>
Warren Fernandes <warren.f.fernandes@gmail.com>
Wayne Ashley Berry <wayneashleyberry@gmail.com>
Wedson Almeida Filho <wedsonaf@google.com>
Weerasak Chongnguluam <singpor@gmail.com>
Wi Cngru <crvv.mail@gmail.com>
Wei Fu <fhfuwei@163.com>
Wei Guangjing <vcc.163@gmail.com>
Wei Xiao <wei.xiao@arm.com>
Wei Xikai <xykwei@gmail.com>
Weichao Tang <tevic.tt@gmail.com>

Weilu Jia <optix2000@gmail.com>
Weixie Cui <cuiweixie@gmail.com> <523516579@qq.com>
Wembley G. Leach, Jr <wembley.gl@gmail.com>
Wenlei (Frank) He <wlhe@google.com>
Wenzel Lowe <lowewenzel@gmail.com>
Wil Selwood <wselwood@gmail.com>
Wilfried Teiken <wteiken@google.com>
Will Beason <willbeason@gmail.com>
Will Chan <willchan@google.com>
Will Faught <will.faught@gmail.com>
Will Morrow <wmorrow.qdt@qualcommdatacenter.com>
Will Norris <willnorris@google.com>
Will Storey <will@summercat.com>
Willem van der Schyff <willemvds@gmail.com>
William Chan <willchan@chromium.org>
William Chang <mr.williamchang@gmail.com>
William Josephson <wjosephson@gmail.com>
William Langford <wlangfor@gmail.com>
William Orr <will@worrbase.com> <ay1244@gmail.com>
William Poussier <william.poussier@gmail.com>
Wisdom Omuya <deafgoat@gmail.com>
Wu Yunzhou <yunzhouwu@gmail.com>
Xi Ruoyao <xry23333@gmail.com>
Xia Bin <snyh@snyh.org>
Xiangdong Ji <xiangdong.ji@arm.com>
Xiaodong Liu <teaofmoli@gmail.com>
Xing Gao <18340825824@163.com>
Xing Xing <mikespook@gmail.com>
Xingqang Bai <bxq2011hust@qq.com>
Xu Fei <badgangkiller@gmail.com>
Xudong Zhang <felixmelon@gmail.com>
Xudong Zheng <7pkvm5aw@slicealias.com>
Xuyang Kang <xuyangkang@gmail.com>
Yamagishi Kazutoshi <ykzts@desire.sh>
Yan Zou <yzou@google.com>
Yang Hau <vulxj0j8j8@gmail.com>
Yang Tian <linuxty@gmail.com>
Yann Hodique <yhodique@google.com>
Yann Kerherv <yann.kerherve@gmail.com>
Yann Salan <yannsalaun1@gmail.com>
Yannic Bonenberger <contact@yannic-bonenberger.com>
Yao Zhang <lunaria21@gmail.com>
Yaron de Leeuw <jarondl@google.com>
Yaroslav Vorobiov <yar.vorobiov@gmail.com>
Yasha Bubnov <girokompass@gmail.com>
Yasser Abdolmaleki <yasser@yasser.ca>
Yasuharu Goto <matope.ono@gmail.com>
Yasuhiro Matsumoto <mattn.jp@gmail.com>

Yasutaka Shinzaki <shinzaki@yasu26.tech>
Yasuyuki Oka <yasuyk@gmail.com>
Yazen Shunnar <yazen.shunnar@gmail.com>
Yestin Sun <ylh@pdx.edu>
Yesudeep Mangalapilly <yesudeep@google.com>
Yissakhar Z. Beck <yissakhar.beck@gmail.com>
Yo-An Lin <yoanlin93@gmail.com>
Yohei Takeda <yo.tak0812@gmail.com>
Yongjian Xu <i3dmaster@gmail.com>
Yorman Arias <cixtords@gmail.com>
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>
Yoshiyuki Mineo <yoshiyuki.mineo@gmail.com>
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>
Youfu Zhang <zhangyoufu@gmail.com>
Yu Heng Zhang <annita.zhang@cn.ibm.com>
Yu Xuan Zhang <zyxsh@cn.ibm.com>
Yu, Li-Yu <afg984@gmail.com>
Yuichi Kishimoto <yk2220s@gmail.com>
Yuichi Nishiwaki <yuichi.nishiwaki@gmail.com>
Yuji Yaginuma <yuuji.yaginuma@gmail.com>
Yuki Ito <mrno110y@gmail.com>
Yuki OKUSHI <huyuumi.dev@gmail.com>
Yuki Osaki <yuki.osaki7@gmail.com>
Yuki Yugui Sonoda <yugui@google.com>
Yukihiro Nishinaka <6elpinal@gmail.com>
YunQiang Su <syq@debian.org>
Yuntao Wang <ytcoode@gmail.com>
Yury Smolsky <yury@smolsky.by>
Yusuke Kagiwada <block.rxckin.beats@gmail.com>
Yuusei Kuwana <kuwana@kumama.org>
Yuval Pavel Zholkover <paulzhol@gmail.com>
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>
Zac Bergquist <zbergquist99@gmail.com>
Zach Bintliff <zbintliff@gmail.com>
Zach Gershman <zachgersh@gmail.com>
Zach Hoffman <zrhoffman@apache.org>
Zach Jones <zachj1@gmail.com>
Zachary Amsden <zach@thundertoken.com>
Zachary Burkett <zburkett@splitcubestudios.com>
Zachary Gershman <zgershman@pivotal.io>
Zaiyang Li <zaiyangli777@gmail.com>
Zak <zrjknill@gmail.com>
Zakatell Kanda <hi@zkanda.io>
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>
Zev Goldstein <zev.goldstein@gmail.com>
Zhang Boyang <zhangboyang.id@gmail.com>
Zheng Dayu <davidzheng23@gmail.com>
Zheng Xu <zheng.xu@arm.com>

Zhengyu He <hzy@google.com>
Zhi Zheng <zhi.zheng052@gmail.com>
Zhongpeng Lin <zplin@uber.com>
Zhongtao Chen <chenzhongtao@126.com>
Zhongwei Yao <zhongwei.yao@arm.com>
Zhou Guangyuan <zhouguangyuan.xian@gmail.com>
Zhou Peng <p@ctriple.cn>
Ziad Hatahet <hatahet@gmail.com>
Ziheng Liu <lzhfromustc@gmail.com>
Zizhao Zhang <btw515wolf2@gmail.com>
Zorion Arrizabalaga <zorionk@gmail.com>
Zvonimir Pavlinovic <zpavlinovic@google.com>
Zyad A. Ali <zyad.ali.me@gmail.com>
<a.maksadbek@gmail.com>
<max.faceless.frei@gmail.com>
<hagen1778@gmail.com>
<tbunyk@gmail.com>
<faxriddinjon@gmail.com>
<zs349596@gmail.com>
<bronze1man@gmail.com>
People who have agreed to one of the CLAs and can contribute patches.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED

AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Andrea Leofreddi.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.36 vault-sdk 0.4.1

1.36.1 Available under license :

Enterprise Licenses

In versions 1.2.6, 1.3.9, 1.4.5, and 1.5.2, the enterprise licenses were not incorporated correctly
into the build and we have issued patch releases (x.y.z.1) for enterprise customers containing the
proper license. As the previous builds were both not working and causing confusion, we have removed
the binaries.
---
layout: docs
page_title: Frequently Asked Questions (FAQ)
description: An overview of license.

License FAQ

This FAQ section is for license changes and updates introduced for Vault Enterprise.
- [Q: How do the license termination changes affect upgrades?](#q-how-do-the-license-termination-changes-affect-upgrades)
- [Q: What impact on upgrades do the license termination behavior changes pose?](#q-what-impact-on-upgrades-do-the-license-termination-behavior-changes-pose)
- [Q: Will these license changes impact HCP Vault?](#q-will-these-license-changes-impact-hcp-vault)
- [Q: Do these license changes impact all Vault customers/licenses?](#q-do-these-license-changes-impact-all-vault-customers-licenses)
- [Q: What is the product behavior change introduced by the licensing changes?](#q-what-is-the-product-behavior-change-introduced-by-the-licensing-changes)

- [Q: How will Vault behave at startup when a license expires or terminates?](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates)
- [Q: What is the impact on evaluation licenses due to this change?](#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change)
- [Q: Are there any changes to existing methods for manual license loading (API or CLI)?](#q-are-there-any-changes-to-existing-methods-for-manual-license-loading-api-or-cli)
- [Q: Is there a grace period when evaluation licenses expire?](#q-is-there-a-grace-period-when-evaluation-licenses-expire)
- [Q: Does this affect clients?](#q-does-this-affect-clients)
- [Q: Are the license files locked to a specific cluster?](#q-are-the-license-files-locked-to-a-specific-cluster)
- [Q: Will a EULA check happen every time a Vault restarts?](#q-will-a-eula-check-happen-every-time-a-vault-restarts)
- [Q: What scenarios should a customer plan for due to these license changes?](#q-what-scenarios-should-a-customer-plan-for-due-to-these-license-changes)
- [Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?](#q-what-is-the-migration-path-for-customers-who-want-to-migrate-from-their-existing-license-as-applied-via-the-cli-flow-to-the-license-on-disk-flow)
- [Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?](#q-what-is-the-path-for-customers-who-want-to-downgrade-rollback-from-vault-1-11-or-later-auto-loaded-license-mandatory-to-a-pre-vault-1-11-auto-loading-not-mandatory-stored-license-supported)
- [Q: Is there a limited time for support of licenses that are in storage?](#q-is-there-a-limited-time-for-support-of-licenses-that-are-in-storage)
- [Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?](#q-what-are-the-steps-to-upgrade-from-one-autoloaded-license-to-another-autoloaded-license)
- [Q: What are the Vault ADP module licensing changes introduced in 1.8?](#q-what-are-the-vault-adp-module-licensing-changes-introduced-in-1-8)
- [Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?](#q-how-can-the-new-adp-modules-be-purchased-and-what-features-are-customer-entitled-to-as-part-of-that-purchase)
- [Q: What is the impact to customers based on these ADP module licensing changes?](#q-what-is-the-impact-to-customers-based-on-these-adp-module-licensing-changes)

Q: What is the product behavior change introduced by the licensing changes?

Per the [feature deprecation plans](/docs/deprecation), Vault will no longer support licenses in storage. An [auto-loaded license](/docs/enterprise/license/autoloading) must be used instead. If you are using stored licenses, you must migrate to auto-loaded licenses prior to upgrading to Vault 1.11

Vault 1.12 will also introduce different termination behavior for evaluation licenses versus non-evaluation licenses. An [evaluation](https://www.hashicorp.com/products/vault/trial) license will include a 30-day trial period after which a running Vault server will terminate. Vault servers using a non-evaluation license will not terminate.

Q: How do the license termination changes affect upgrades?
Vault 1.12 will introduce changes to the license termination behavior. Upgrades when using expired licenses will now be limited.
Vault will not startup if the build date of the binary is _after_ the expiration date of a license. License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded

License](/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command.
The build date of a binary can also be found using the [vault version](/docs/commands/version#version) command.

A user can expect the following to occur based on the following scenarios:

Evaluation or non-evaluation license is valid:
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _before_ license expiry date:
Vault will start normally

Evaluation or non-evaluation license is expired, binary build date _after_ license expiry date:
Vault will not start

Evaluation license is terminated:
Vault will not start independent of the binarys build date

Non-evaluation license is terminated, binary build date _before_ license expiry date:
Vault will start normally

Non-evaluation license is terminated, binary build date _after_ license expiry date:
Vault will not start

The Vault support team can issue you a temporary evaluation license to allow for security upgrades if your license has expired.

Q: Will these license changes impact HCP Vault?

No, these changes will not impact HCP Vault.

Q: Do these license changes impact all Vault customers/licenses?

Customer/licenses	Impacted?
ENT binaries (evaluation or non-evaluation downloaded from [releases.hashicorp.com](https://releases.hashicorp.com/vault/))	Yes
Open-Source (OSS)	No

Q: What is the product behavior change introduced by the licensing changes?

With Vault 1.11, the use of an [auto-loaded license](/docs/enterprise/license/autoloading) is required for Vault to start successfully.

Q: How will Vault behave at startup when a license expires or terminates?

When a license expires, Vault continues to function until the license terminates. This behavior exists today and remains unchanged in Vault 1.11. The grace period, defined as the time between license expiration and license

termination, is one day for evaluation licenses (as of 1.8), and ten years for non-evaluation licenses. Customers must provide a valid license before the grace period expires. This license is required to be [auto-loaded](/docs/enterprise/license/autoloading). When license terminates (upon grace period expiry), Vault will seal itself and customers will need a valid license in order to successfully bring-up Vault. If a valid license was not installed after license expiry, customers will need to provide one, and this license will need to be auto-loaded.

Vault 1.12 changes the license expiration and termination behavior. Evaluation licenses include a 30-day trial period after which a running Vault server will terminate. Non-evaluation licenses, however, will no longer terminate. When a non-evaluation license expires, Vault will continue to function but upgrades will be limited. The build date of the upgrade binary must be before the expiration date of the license.
Vault will not start when attempting to use an expired license and binary with a build date _after_ the license expiration date. Attempting to [reload](/api-docs/system/config-reload#reload-license-file) an expired license will result in an error if the build date of the running Vault server is _after_ the license expiration date.

License expiration date and binary build date compatibility can be verified using the [Check for Autoloaded License](/docs/commands/operator/diagnose#check-for-autoloaded-license) check performed by the `vault operator diagnose` command. The build date of a binary can also be found using the [vault version](/docs/commands/version#version) command.

Q: What is the impact on evaluation licenses due to this change?

As of Vault 1.8, any Vault cluster deployed must have a valid [auto-loaded](/docs/enterprise/license/autoloading) license.

Vault 1.12 introduces [expiration and termination behavior changes](#q-how-will-vault-behave-at-startup-when-a-license-expires-or-terminates) for non-evaluation licenses. Evaluation licenses will continue to have a 1-day grace period upon license expiry after which they will terminate. Vault will seal itself and shutdown once an evaluation license terminates.

Q: Are there any changes to existing methods for manual license loading (API or CLI)?

The [`/sys/license`](/api-docs/v1.10.x/system/license#install-license) and [`/sys/license/signed`](/api-docs/v1.10.x/system/license#read-signed-license) endpoints have been removed as of Vault 1.11. With that said, it is no longer possible to provide a license via the `/sys/license` endpoint. License [auto-loading](/docs/enterprise/license/autoloading) must be used instead.
The [`/sys/config/reload/license`](/api-docs/system/config-reload#reload-license-file) endpoint can be used to reload an auto-loaded license provided as a path via an environment variable or configuration.

Q: Is there a grace period when evaluation licenses expire?

Evaluation licenses have a 1-day grace period. The grace period is the time until the license expires. Upon expiration, Vault will seal and will require a valid license to unseal and function properly.

Q: Are the license files locked to a specific cluster?

The changes to licenses apply to all nodes in a cluster. The license files are not locked to a cluster, but are independently applied to the appropriate clusters.

Q: Will a EULA check happen every time a Vault restarts?

Yes, starting with Vault 1.8, ENT binaries will be subjected to a EULA check. The release of Vault 1.8 introduces the EULA check for evaluation licenses (non-evaluation licenses are evaluated with a EULA check during contractual agreement) .
Although the agreement to a EULA occurs only once (when the user receives their license), Vault will check for the presence of a valid license every time a node is restarted.

Starting Vault 1.11, when customers deploy new Vault clusters, or upgrade existing Vault clusters, a valid [auto-loaded](/docs/enterprise/license/autoloading) license must exist for the upgrade to be successful.

Q: What scenarios should a customer plan for due to these license changes?

- **New Cluster Deployment**: When a customer deploys new clusters to Vault 1.11 or later, a valid license must exist to successfully deploy. This valid license must be on-disk ([auto-loaded](/docs/enterprise/license/autoloading)).

- **Eventual Migration**: Vault 1.11 removes support for in-storage licenses. Migrating to an auto-loaded license is required for Vault to start successfully using version 1.11 or greater. Pre-existing license storage entries will be automatically removed from storage upon startup.

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

If a Vault cluster using a stored license is planned to be upgraded to Vault 1.11 or greater, the operator must migrate to using an auto-loaded license. The [`vault license get -signed`](/docs/v1.10.x/commands/license/get) command (or underlying [`/sys/license/signed`](/api-docs/v1.10.x/system/license#read-signed-license) endpoint) can be used to retrieve the license from storage in a running cluster.
It is not necessary to remove the stored license entry. That will occur automatically upon startup in Vault 1.11 or greater. Prior to completing the [recommended upgrade steps](/docs/upgrading), perform the following to ensure your license is properly configured:

1. Use the command `vault license get -signed` to retrieve the license from storage of your running cluster.
2. Put the license on disk
3. Configure license auto-loading by specifying the [`license_path`](/docs/configuration#license_path) config option or setting the [`VAULT_LICENSE`](/docs/commands#vault_license) or [`VAULT_LICENSE_PATH`](o/docs/commands#vault_license_path) environment variable.

Q: What is the path for customers who want to downgrade/rollback from Vault 1.11 or later (auto-loaded license mandatory) to a pre-Vault 1.11 (auto-loading not mandatory, stored license supported)?

The downgrade procedure remains the same for Vault customers who are currently on Vault 1.11 or later, have a license installed via auto-loading, and would like to downgrade their cluster to a pre-1.11 version. Please refer to the [upgrade procedures](https://learn.hashicorp.com/tutorials/vault/sop-upgrade?in=vault/standard-procedures) that remind the customers that they must take a snapshot before the upgrade. Customers will need to restore their version from the snapshot, apply the pre-1.11 enterprise binary version they wish to roll back, and bring up the clusters.

Q: Is there a limited time for support of licenses that are in storage?

The support of licenses installed by alternative means often leads to difficulties providing the appropriate support. To provide the support expected by our customers, as we have announced in [Vault feature deprecations and plans](/docs/deprecation) we are removing support for licenses in storage with Vault 1.11. This implies licensing endpoints that deal with licenses in storage will be removed, and Vault will no longer check for valid licenses in storage. This change requires that all customers have [auto-loaded](/docs/enterprise/license/autoloading) licenses to upgrade to 1.11(+) successfully.

Q: What are the steps to upgrade from one autoloaded license to another autoloaded license?

Follow these steps to migrate from one autoloaded license to another autoloaded license.

1. Use the [`vault license inspect`](/docs/commands/license/inspect) command to compare the new license against the output of the [`vault license get`](/docs/commands/license/get) command. This is to ensure that you have the correct license.
1. Backup the old license file in a safe location.
1. Replace the old license file on each Vault server with the new one.
1. Invoke the [reload command](/api-docs/system/config-reload#reload-license-file) on each individual Vault server, starting with the standbys and doing the leader last. Invoking in this manner reduces possible disruptions if something was performed incorrectly with the above steps. You can either use the [reload command](/api-docs/system/config-reload#reload-license-file) or send a SIGHUP.
1. On each node, ensure that the new license is in use by using the [`vault license get`](/docs/commands/license/get) command and/or checking the logs.

ADP Licensing

This FAQ section is for the Advanced Data Protection (ADP) license changes introduced in Vault Enterprise 1.8.

Q: What are the Vault ADP module licensing changes introduced in 1.8?

As of Vault Enterprise 1.8, the functionality formerly sold as the Vault ADP module is now separated between two new modules:

ADP-KM includes:

- [Key Management Secrets Engine (KMSE)](/docs/secrets/key-management)
- [Key Management Interoperability (KMIP)](/docs/secrets/kmip)
- [MSSQL Transparent Data Encryption (TDE)](https://www.hashicorp.com/blog/enabling-transparent-data-encryption-for-microsoft-sql-with-vault)

ADP-Transform includes:

- [Transform Secrets Engine (TSE)](/docs/secrets/transform)

Q: How can the new ADP modules be purchased and what features are customer entitled to as part of that purchase?

ADP-KM includes:

- This is the first Vault Enterprise module that can be purchased standalone. This means it can be purchased without the purchase of a Vault Enterprise Standard license.
- ADP-KM still requires a Vault Enterprise binary. The Vault Enterprise Standard license is automatically included with the ADP-KM module, but customers are contractually prohibited from using any features besides those in Vault OSS and ADP-KM (KMSE and KMIP).

ADP-Transform includes:

- This module cannot be purchased as a standalone. It requires a Vault Enterprise binary, and customers must purchase the base Vault Enterprise Standard license (at least) to use the corresponding Enterprise features.
- The ADP-Transform SKU can be applied as an add-on. This workflow is similar to the consolidated ADP SKU.

Q: What is the impact to customers based on these ADP module licensing changes?

Customers need to be aware of the following as a result of these changes:

- **New customers** may choose to purchase either or both of these modules. The old (consolidated) module is not available to them as an option.
- **Existing customers** may continue with the consolidated Vault ADP module uninterrupted. They will only be converted to one or both new ADP modules the next time they make a change to their licensing details (i.e. contract change).
Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser

General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this

License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any

liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,

without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

```
{{#if this.licenseExpired}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-expired>
  <AlertBanner
    @bannerType="license"
    @type="danger"
    @title="License expired"
    @message="Your Vault license expired on {{date-format
      @expiry
      'MMM d, yyyy'
    }}. Add a new license to your configuration and restart Vault."
    @marginless={{true}}
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
</div>
{{else if (lte this.licenseExpiringInDays 30)}}
<div class="license-banner-wrapper" data-test-license-banner data-test-license-banner-warning>
  <AlertBanner
    @bannerType="license"
    @type="warning"
    @title="Vault license expiring"
    @message="Your Vault license will expire in {{this.licenseExpiringInDays}} days at {{date-format
      @expiry
      'hh:mm:ss a'
    }} on {{date-format @expiry 'MMM d, yyyy'}}. {{if
      @autoloaded
      'Add a new license to your configuration.'
      'Keep in mind that your next license will need to be autoloaded'
    }}"
    @marginless={{true}}
  >
    <a
      href="https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license"
      target="_blank"
      rel="noreferrer noopener"
    >
      Read documentation
    </a>
  </AlertBanner>
</div>
{{/if}}
```

---
layout: docs
page_title: License Autoloading
description: An overview of license autoloading.

License Autoloading

Prior to Vault 1.8, Vault Enterprise would be licensed using special binaries
that contained embedded licenses, or via a license written into Vault storage
using the [POST sys/license API](/api-docs/system/license#install-license).

As of Vault 1.8 those options still exist but are deprecated, and the recommended
mechanism for managing licenses is called License Autoloading. New clusters are
required to use the autoloading method.

License Autoloading can be done using one of these mechanisms, in decreasing order
of priority (i.e. `VAULT_LICENSE` takes precedence over `VAULT_LICENSE_PATH`, which
takes precedence over `license_path` in config.)

- [VAULT_LICENSE environment variable](/docs/commands#vault_license)
- [VAULT_LICENSE_PATH environment variable](/docs/commands#vault_license_path)
- [license_path in config](/docs/configuration#license_path)

Nodes within a cluster should be consistently licensed. All nodes in a cluster
should use autoloading, or none should. If autoloading is used, all nodes should
use the same license string. Warnings will be written to the log when there
are discrepancies.

If autoloading is used, any existing stored license will be ignored. The presence
of a stored license in conjunction with an autoloaded license will also result in
logged warnings, which may require a service restart to clear.
variable "file_name" {}

output "license" {
 value = file(var.file_name)
}
---
layout: docs
page_title: license - Command
description: |-
 The "license" command groups subcommands for interacting with Vault licenses.
---

license

The `license` command groups subcommands for interacting with Vault licenses

For more information, please see the [license documentation](/docs/enterprise/license)

Examples

Query current license in use by a node:

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59.999Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
```

Query signed license string (only when using a deprecated stored license)

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Inspect a signed a license string:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}
```

License is valid

```

## Usage

```text
Usage: vault license <subcommand> [options] [args]

 # ...

Subcommands:
   get      Query Vault's license
   inspect  View the contents of a license string
```

For more information, examples, and usage about a subcommand, click on the name
of the subcommand in the sidebar.
<LicenseInfo
 @startTime={{this.model.startTime}}
 @expirationTime={{this.model.expirationTime}}
 @licenseId={{this.model.licenseId}}
 @features={{this.model.features}}
 @autoloaded={{this.model.autoloaded}}
 @performanceStandbyCount={{this.model.performanceStandbyCount}}
/>
---
layout: docs
page_title: license inspect - Command
description: |-
 The "license inspect" command describes the contents of a signed license string.
---

license inspect

The `license inspect` command describes the contents of a signed license string.

Examples

Describe license in the environment (either `VAULT_LICENSE` for a raw value
or `VAULT_LICENSE_PATH` for the path to a file containing the value):

```shell-session
$ vault license inspect
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC

Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Describe license at given path:

```shell-session
$ vault license inspect ~/vaults/license
Source: /Users/ncc/vaults/license
Product: vault
License ID: 060d7820-fa59-f95c-832b-395db0aeb9ba
Customer ID: 5401ae3b-136b-3e47-3b43-432927fa03e7
Installation ID: *
Issue Time: 2021-05-17 19:33:47.93981585 +0000 UTC
Start Time: 2021-05-17 00:00:00 +0000 UTC
Expiration Time: 2022-05-17 23:59:59.999 +0000 UTC
Termination Time: 2031-05-17 23:59:59.999 +0000 UTC
{"license_id":"060d7820-fa59-f95c-832b-395db0aeb9ba","customer_id":"5401ae3b-136b-3e47-3b43-432927fa03e7","installation_id":"*","issue_time":"2021-05-17T19:33:47.93981585Z","start_time":"2021-05-17T00:00:00Z","expiration_time":"2022-05-17T23:59:59.999Z","flags":{"modules":["multi-dc-scale","governance-policy","advanced-data-protection"]},"features":["HSM","Performance Replication","DR Replication","MFA","Sentinel","Seal Wrapping","Control Groups","Performance Standby","Namespaces","KMIP","Entropy Augmentation","Transform Secrets Engine","Lease Count Quotas","Key Management Secrets Engine","Automated Snapshots"],"performance_standby_count":9999}

License is valid
```

Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

Command Options

- `-installation-id` `(string: "")` - Installation ID to validate the license against
---
layout: api
```

page_title: /sys/license/status - HTTP API
description: |-
 The `/sys/license/status` endpoint is used to view the license used in
 Vault.

`/sys/license/status`

~> **Enterprise Only** These endpoints require Vault Enterprise.

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

License Status

This endpoint returns information about licensing. See [license autoloading](/docs/enterprise/license/autoloading)
for additional background.

In the response:

- `autoloading_used` will be true if an autoloaded license was provided to the
 node, false otherwise. This should always be true from Vault 1.11.0 onward.
- `autoloaded` is the autoloaded license if autoloading_used is true.
- `persisted_autoload` is the autoloaded license the active node last wrote to
 storage; this is only used to detect inconsistently licensed nodes in the
 cluster. It cannot be used as a license itself.
- `stored` was used for the stored license prior to Vault 1.11.0. Stored licenses are no longer supported.

`autoloaded`, and `persisted_autoload` will both have the same structure.

Method	Path
`GET`	`/sys/license/status`

Sample Request

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

Sample Response

```json
{
 "data": {
   "autoloading_used": true,
```

"autoloaded": {
  "expiration_time": "2022-05-17T23:59:59Z",
  "features": [
    "HSM",
    "Performance Replication",
    "DR Replication",
    "MFA",
    "Sentinel",
    "Seal Wrapping",
    "Control Groups",
    "Performance Standby",
    "Namespaces",
    "KMIP",
    "Entropy Augmentation",
    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
  ],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z",
  "termination_time": "2031-05-17T23:59:59Z"
},
"persisted_autoload": {
  "expiration_time": "2022-05-17T23:59:59Z",
  "features": [
    "HSM",
    "Performance Replication",
    "DR Replication",
    "MFA",
    "Sentinel",
    "Seal Wrapping",
    "Control Groups",
    "Performance Standby",
    "Namespaces",
    "KMIP",
    "Entropy Augmentation",
    "Transform Secrets Engine",
    "Lease Count Quotas",
    "Key Management Secrets Engine",
    "Automated Snapshots"
  ],
  "license_id": "060d7820-fa59-f95c-832b-395db0aeb9ba",
  "performance_standby_count": 9999,
  "start_time": "2021-05-17T00:00:00Z",
  "termination_time": "2031-05-17T23:59:59Z"
}

```
 }
}
```
```
<PageHeader as |p|>
 <p.levelLeft>
   <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Details</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   <InfoTableRow @label="License ID" @value={{@licenseId}} data-test-detail-row />
   <InfoTableRow @label="Valid from" @value={{@startTime}} data-test-detail-row>
     {{date-format @startTime "MMM dd, yyyy hh:mm:ss a"}}
     to
     {{date-format @expirationTime "MMM dd, yyyy hh:mm:ss a"}}
   </InfoTableRow>
   <InfoTableRow @label="License state" @value={{"Autoloaded"}} data-test-detail-row />
 </div>
</section>

<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
   {{#each this.featuresInfo as |info|}}
     <InfoTableRow @label={{info.name}} @value={{if info.active "Active" "Not Active"}} data-test-feature-row>
       {{#if info.active}}
         <Icon @name="check-circle" class="icon-true" />
         <span data-test-feature-status>
           Active
           {{#if info.count}}&mdash; {{info.count}} standby nodes allotted{{/if}}
         </span>
       {{else}}
         <Icon @name="x-circle" class="icon-false" />
         <span data-test-feature-status>Not Active</span>
       {{/if}}
     </InfoTableRow>
   {{/each}}
 </div>
</section>
---
layout: docs
page_title: Vault Enterprise License
description: An overview of license.
---

# Vault License
```

Licenses and EULA enhancements have been introduced in Vault 1.8 release. Please refer to the [FAQ](/docs/enterprise/license/faq) for common questions concerning these changes.

The [Install a HashiCorp Enterprise License](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=vault/enterprise) tutorial provides the instruction to load your Vault license.
---
layout: docs
page_title: license get - Command
description: |-
 The "license get" command reports on the license in use.
---

license get

The `license get` command reports on the license in use. With the `-signed`
flag, it will return the actual license string, but only if the license
is stored, as opposed to [autoloaded](/docs/enterprise/license/autoloading).

Examples

Describe current license:

```shell-session
$ vault license get
Key                     Value
---                     -----
expiration_time         2022-05-17T23:59:59Z
features                [HSM Performance Replication DR Replication MFA Sentinel Seal Wrapping Control Groups Performance Standby Namespaces KMIP Entropy Augmentation Transform Secrets Engine Lease Count Quotas Key Management Secrets Engine Automated Snapshots]
license_id              060d7820-fa59-f95c-832b-395db0aeb9ba
performance_standby_count    9999
start_time              2021-05-17T00:00:00Z
termination_time        2031-05-17T23:59:59Z
```

Get stored license string:

```shell-session
$ vault license get -signed
02MV4UU43BK5H...
```

Try to get stored license string when using autoloading:

```shell-session
$ vault license get -signed
```

License not found or using a temporary license.
```

## Usage

The following flags are available in addition to the [standard set of flags](/docs/commands) included on all commands.

### Command Options

- `-signed` `(bool: false)` - Return the signed license string when using a stored license.
.license-banner-wrapper {
 width: 100%;
 max-width: 1344px;
 margin: $spacing-l auto 0;
 padding: 0 1.5rem;
}
package license

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

const FeatureNone Features = 0

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

# 1.37 dosfs-tools 4.1

## 1.37.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
```

share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to

avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status

of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by

this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the

additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a

party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.38 selinux 3.3

1.38.1 Available under license :

This is the Debian package for libselinux, and it is built from sources obtained from:
http://userspace.selinuxproject.org/trac/wiki/Releases

This package was debianized by Colin Walters <walters@debian.org> on
Thu, 3 Jul 2003 17:10:57 -0400.

This library (libselinux) is public domain software, i.e. not copyrighted.

Warranty Exclusion

You agree that this software is a
non-commercially developed program that may contain "bugs" (as that
term is used in the industry) and that it may not function as intended.
The software is licensed "as is". NSA makes no, and hereby expressly
disclaims all, warranties, express, implied, statutory, or otherwise
with respect to the software, including noninfringement and the implied
warranties of merchantability and fitness for a particular purpose.

Limitation of Liability

In no event will NSA be liable for any damages, including loss of data,
lost profits, cost of cover, or other special, incidental,
consequential, direct or indirect damages arising from the software or
the use thereof, however caused and on any theory of liability. This
limitation will apply even if NSA has been advised of the possibility
of such damage. You acknowledge that this is a reasonable allocation of
risk.

However, one file (utils/avcstat.c) is
Copyright: 2004 Red Hat, Inc., James Morris <jmorris@redhat.com>
and is distributed underthe terms of the GNU General Public License,
version 2.

In addition, The Debian specific package was modified to include an
excerpt from the GNU libc package in the file
utils/ia64-inline-syscall.h. The GNU C Library is distributed under
the terms of the GNU Lesser General Public License as published by the
Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

You should have received a copy of the GNU Lesser General Public
License along with the GNU C Library; if not, write to
Free Software Foundation, Inc., 51 Franklin St, Fifth Floor,
Boston, MA 02110-1301, USA.

On Debian systems, the complete text of the GNU Library
General Public License can be found in `/usr/share/common-licenses/LGPL-2.1'.

This package is maintained by Manoj Srivastava <srivasta@debian.org>.

The Debian specific changes are 2005, 2006, Manoj Srivastava
<srivasta@debian.org>, and distributed under the terms of the GNU

General Public License, version 2.

On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'.

A copy of the GNU General Public License is also available at <URL:http://www.gnu.org/copyleft/gpl.html>. You may also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27
This library (libselinux) is public domain software, i.e. not copyrighted.

Warranty Exclusion

You agree that this software is a
non-commercially developed program that may contain "bugs" (as that term is used in the industry) and that it may not function as intended. The software is licensed "as is". NSA makes no, and hereby expressly disclaims all, warranties, express, implied, statutory, or otherwise with respect to the software, including noninfringement and the implied warranties of merchantability and fitness for a particular purpose.

Limitation of Liability

In no event will NSA be liable for any damages, including loss of data, lost profits, cost of cover, or other special, incidental, consequential, direct or indirect damages arising from the software or the use thereof, however caused and on any theory of liability. This limitation will apply even if NSA has been advised of the possibility of such damage. You acknowledge that this is a reasonable allocation of risk.

1.39 creack 1.1.17

1.39.1 Available under license :

Copyright (c) 2011 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.40 goprotobuf 1.5.2

1.40.1 Available under license :

Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets

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

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

1.41 libxml2 2.9.4

1.41.1 Available under license :

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
/*
* hash.c: chained hash tables
*
* Reference: Your favorite introductory book on algorithms
*
* Copyright (C) 2000,2012 Bjorn Reese and Daniel Veillard.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
* Author: breese@users.sourceforge.net
*/
/*****************************************************************************
*
* $Id$
*
* Copyright (C) 1998 Bjorn Reese and Daniel Stenberg.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
*****************************************************************************
*
```

1.42 python-certifi 2021.10.08

1.42.1 Available under license :

Mozilla Public License
Version 2.0
1. Definitions
1.1. “Contributor”
means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. “Contributor Version”
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor’s Contribution.

1.3. “Contribution”
means Covered Software of a particular Contributor.

1.4. “Covered Software”
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. “Incompatible With Secondary Licenses”
means

that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. “Executable Form”
means any form of the work other than Source Code Form.

1.7. “Larger Work”
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. “License”
means this document.

1.9. “Licensable”
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. “Modifications”
means any of the following:

any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

any new file in Source Code Form that contains any Covered Software.

1.11. “Patent Claims” of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. “Secondary License”
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. “Source Code Form”
means the form of the work preferred for making modifications.

1.14. “You” (or “Your”)
means an individual or a legal entity exercising rights under this License. For legal entities, “You” includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, “control” means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions
2.1. Grants
Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date
The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope
The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

for any code that a Contributor has removed from Covered Software; or

for infringements caused by: (i) Your and any other third party’s modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses
No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation
Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use
This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions
Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities
3.1. Distribution of Source Form
All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form
If You distribute Covered Software in Executable Form then:

such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work
You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices
You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms
You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation
If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination
5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty
Covered Software is provided under this License on an “as is” basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability
Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for

lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation
Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous
This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License
10.1. New Versions
Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions
You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions
If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice
This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v.

2.0.
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.43 toml 0.10.0

1.43.1 Available under license :

The MIT License

Copyright 2013-2018 William Pearson
Copyright 2015-2016 Julien Enselme
Copyright 2016 Google Inc.
Copyright 2017 Samuel Vasko
Copyright 2017 Nate Prewitt
Copyright 2017 Jack Evans

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.44 zlib 1.2.5

1.44.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

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

*/
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
```

works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.45 sudo 1.9.5p2

1.45.1 Available under license :

Sudo is distributed under the following license:

Copyright (c) 1994-1996, 1998-2021
Todd C. Miller <Todd.Miller@sudo.ws>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Sponsored in part by the Defense Advanced Research Projects
Agency (DARPA) and Air Force Research Laboratory, Air Force
Materiel Command, USAF, under agreement number F39502-99-1-0512.

The Python plugin bindings bear the following license:

Copyright (c) 2019-2020 Robert Manner <robert.manner@oneidentity.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files hostcheck.c and hostcheck.h bear the following license:

Copyright (c) 2020 Laszlo Orban <laszlo.orban@oneidentity.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file redblack.c bears the following license:

Copyright (c) 2001 Emin Martinian

Redistribution and use in source and binary forms, with or without modification, are permitted provided that neither the name of Emin Martinian nor the names of any contributors are be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file sssd.c bears the following license:

Copyright (c) 2011 Daniel Kopecek <dkopecek@redhat.com>

This code is derived from software contributed by Aaron Spangler.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files bsm_audit.c and bsm_audit.h bear the following license:

Copyright (c) 2009 Christian S.J. Peron

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files solaris_audit.c and solaris_audit.h bear the following license:

Copyright (c) 2014, Oracle and/or its affiliates.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file reallocarray.c bears the following license:

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files getcwd.c, glob.c, glob.h, snprintf.c and sudo_queue.h bear the following license:

Copyright (c) 1989, 1990, 1991, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file fnmatch.c bears the following license:

Copyright (c) 2011, VMware, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the VMware, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL VMWARE, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file getopt_long.c bears the following license:

Copyright (c) 2000 The NetBSD Foundation, Inc.
All rights reserved.

This code is derived from software contributed to The NetBSD Foundation by Dieter Baron and Thomas Klausner.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

The file inet_pton.c bears the following license:

Copyright (c) 1996 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file arc4random.c bears the following license:

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>
Copyright (c) 2013, Markus Friedl <markus@openbsd.org>
Copyright (c) 2014, Theo de Raadt <deraadt@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file arc4random_uniform.c bears the following license:

Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file getentropy.c bears the following license:

Copyright (c) 2014 Theo de Raadt <deraadt@openbsd.org>
Copyright (c) 2014 Bob Beck <beck@obtuse.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The embedded copy of zlib bears the following license:

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

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

The embedded copy of protobuf-c bears the following license:

Copyright (c) 2008-2018, Dave Benson and the protobuf-c authors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials
  provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry

Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele

Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted

Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert

Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav

Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo: Stillman, Mark

1.46 file 5.34

1.46.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2009, International Business Machines Corporation and
## others. All Rights Reserved.

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

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

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

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

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

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

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

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

```
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

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


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

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

## Versioned libraries rules

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

## End FreeBSD-specific setup
```

1.47 libnl3 3.4.0

1.47.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a

restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.48 xerces-j 2.12.2

1.48.1 Available under license :

Apache XML Commons Resolver
Copyright 2006 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation http://www.apache.org/

Portions of this code are derived from classes placed in the
public domain by Arbortext on 10 Apr 2000. See:
http://www.arbortext.com/customer_support/updates_and_technical_notes/catalogs/docs/README.htm

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
=========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache Xerces Java distribution. ==
=========================================================================
```

Apache Xerces Java
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the

Apache Software Foundation that were originally developed at iClick, Inc.,
software copyright (c) 1999.

==========
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Xalan Java distribution. ==
==========

Apache Xalan (Xalan serializer)
Copyright 1999-2012 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software was originally based on the following:
- software copyright (c) 1999-2002, Lotus Development Corporation.,
  http://www.lotus.com.
- software copyright (c) 2001-2002, Sun Microsystems.,
  http://www.sun.com.
- software copyright (c) 2003, IBM Corporation.,
  http://www.ibm.com.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.49 wireshark 1.10.14

1.49.1 Available under license :

Wireshark is distributed under the GNU GPL version 2. There are no
restrictions on its use. There are significant restrictions on its
distribution.

Parts of Wireshark can be built and distributed as libraries. These
parts are still covered by the GPL, and NOT by the Lesser General Public
License or any other license.

If you create a combined work using all or part of Wireshark, then your
combined work must be released under a license compatible with the GPL.

...and don't get us started on trademarks.

The full text of the GNU GPL may be viewed in

/usr/share/common-licenses/GPL-2.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Description: Change location of license file in about dialog
Forwarded: not-needed
Author: Frederic Peters <fpeters@debian.org>

```
--- a/ui/qt/about_dialog.cpp
+++ b/ui/qt/about_dialog.cpp
@@ -335,7 +335,7 @@
#if defined(_WIN32)
    f_license.setFileName(get_datafile_path("COPYING.txt"));
```

```
#else
-    f_license.setFileName(get_datafile_path("COPYING"));
+    f_license.setFileName(get_datafile_path("ABOUT.GPL"));
#endif

    f_license.open(QFile::ReadOnly | QFile::Text);
```

Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
==========

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required

Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

The easiest way to install these is by using your operating system's
ports or packages system. If you prefer to build from source, the programs
can be found at the following sites:

glib 2.32 or later:
ftp.gnome.org:/pub/gnome/sources/glib/
http://ftp.gnome.org/pub/gnome/sources/glib/

pkgconfig:
http://pkgconfig.freedesktop.org/releases/

python 3.4 or later:
https://www.python.org/downloads/source/

If you want to use the Wireshark GUI, install one or both of these toolkits:

Qt 5.2 or later:
http://download.qt-project.org/official_releases/qt/

(These programs may require additional dependencies)

Additional programs can be used to enhance Wireshark's functionality.
These can be found by typing ./configure --help or looking at the output
at the end of running the configure script.

2. Compiling Wireshark

To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement

In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw-------  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
crw-------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user

Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s). If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In

FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules
file with content such as

```
 [localrules=10]
 add path 'bpf*' {mode and permissions}
```

where "mode and permissions" can include clauses such as

```
 mode {octal permissions}
```

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

```
 user {user}
```

to set the user who owns the device, or

```
 group {group}
```

to set the group that owns the device and adding a line such as

```
 devfs_system_ruleset=localrules
```

to /etc/rc.conf. For example, an /etc/devfs.rules file with

```
 [localrules=10]
 add path 'bpf*' mode 0660 group wheel
```

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

```
#!/usr/bin/env python
# Copyright (c) 2013 The Chromium Authors. All rights reserved.
#
# SPDX-License-Identifier: BSD-3-Clause
#
"""Makes sure that all files contain proper licensing information."""


import optparse
import os.path
import subprocess
import sys


def PrintUsage():
 print("""Usage: python checklicenses.py [--root <root>] [tocheck]
 --root   Specifies the repository root. This defaults to ".." relative
          to the script file. This will be correct given the normal location
```

```
        of the script in "<root>/tools".

 --ignore-suppressions  Ignores path-specific license whitelist. Useful when
                        trying to remove a suppression/whitelist entry.

 tocheck  Specifies the directory, relative to root, to check. This defaults
        to "." so it checks everything.

Examples:
 python checklicenses.py
 python checklicenses.py --root ~/chromium/src third_party""")


WHITELISTED_LICENSES = [
  'BSD',
  'BSD (2 clause)',
  'BSD (2 clause) GPL (v2 or later)',
  'BSD (3 clause)',
  'GPL (v2 or later)',
  'GPL (v3 or later) (with Bison parser exception)',
  'ISC',
  'ISC GPL (v2 or later)',
  'LGPL (v2 or later)',
  'LGPL (v2.1 or later)',
  'MIT/X11 (BSD like)',
  'Public domain',
  'Public domain GPL (v2 or later)',
  'Public domain MIT/X11 (BSD like)',
  'zlib/libpng',
  'zlib/libpng GPL (v2 or later)',
]


PATH_SPECIFIC_WHITELISTED_LICENSES = {
  'caputils/airpcap.h': [
      'BSD-3-Clause',
  ],
  'wsutil/strnatcmp.c': [
      'Zlib',
  ],
  'wsutil/strnatcmp.h': [
      'Zlib',
  ],
  'dtds': [
      'UNKNOWN',
  ],
  'diameter/dictionary.dtd': [
      'UNKNOWN',
```

```
],
'wimaxasncp/dictionary.dtd': [
    'UNKNOWN',
],
'doc/': [
    'UNKNOWN',
],
'docbook/custom_layer_chm.xsl': [
    'UNKNOWN',
],
'docbook/custom_layer_single_html.xsl': [
    'UNKNOWN',
],
'docbook/ws.css' : [
    'UNKNOWN'
],
'fix': [
    'UNKNOWN',
],
'wsutil/g711.c': [
    'UNKNOWN',
],
'packaging/macosx': [
    'UNKNOWN',
],
'epan/except.c': [
    'UNKNOWN',
],
'epan/except.h': [
    'UNKNOWN',
],
'cmake/TestFileOffsetBits.c': [
    'UNKNOWN',
],
# Generated header files by lex/yacc/whatever
'epan/dtd_grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.h': [
    'UNKNOWN',
],
'epan/dfilter/grammar.c': [
    'UNKNOWN',
],
'epan/dissectors/packet-ieee80211-radiotap-iter.': [ # Using ISC license only
     'ISC GPL (v2)'
],
'plugins/mate/mate_grammar.h': [
```

```
        'UNKNOWN',
    ],
    'version.h': [
        'UNKNOWN',
    ],
    # Special IDL license that appears to be compatible as far as I (not a
    # lawyer) can tell. See
    # https://www.wireshark.org/lists/wireshark-dev/201310/msg00234.html
    'epan/dissectors/pidl/idl_types.h': [
        'UNKNOWN',
    ],
    # Written by Ronnie Sahlberg and correctly licensed, but cannot include
    # a license header despite the file extension as they need to be
    # parsed by the pidl tool
    'epan/dissectors/pidl/mapi/request.cnf.c': [
        'UNKNOWN',
    ],
    'epan/dissectors/pidl/mapi/response.cnf.c': [
        'UNKNOWN',
    ],
    # The following tools are under incompatible licenses (mostly GPLv3 or
    # GPLv3+), but this is OK since they are not actually linked into Wireshark
    'tools/pidl': [
        'UNKNOWN',
    ],
    'tools/lemon': [
        'UNKNOWN',
    ],
    'tools/licensecheck.pl': [
        'GPL (v2)'
    ],
    # Generated files for GTK pixbuf binary bundling
    'ui/gtk/wireshark-gresources.h': [
        'UNKNOWN',
    ],
    'ui/gtk/wireshark-gresources.c': [
        'UNKNOWN',
    ],
}

def check_licenses(options, args):
  # Figure out which directory we have to check.
  if len(args) == 0:
    # No directory to check specified, use the repository root.
    start_dir = options.base_directory
  elif len(args) == 1:
    # Directory specified. Start here. It's supposed to be relative to the
    # base directory.
```

```
  start_dir = os.path.abspath(os.path.join(options.base_directory, args[0]))
else:
  # More than one argument, we don't handle this.
  PrintUsage()
  return 1

print("Using base directory: %s" % options.base_directory)
print("Checking: %s" % start_dir)
print("")

licensecheck_path = os.path.abspath(os.path.join(options.base_directory,
                                                 'tools',
                                                 'licensecheck.pl'))

licensecheck = subprocess.Popen([licensecheck_path,
                                 '-l', '150',
                                 '-r', start_dir],
                                stdout=subprocess.PIPE,
                                stderr=subprocess.PIPE)
stdout, stderr = licensecheck.communicate()
if sys.version_info[0] >= 3:
    stdout = stdout.decode('utf-8')
    stderr = stderr.decode('utf-8')
if options.verbose:
  print('----------- licensecheck stdout -----------')
  print(stdout)
  print('--------- end licensecheck stdout ---------')
if licensecheck.returncode != 0 or stderr:
  print('----------- licensecheck stderr -----------')
  print(stderr)
  print('--------- end licensecheck stderr ---------')
  print("\nFAILED\n")
  return 1

success = True
exit_status = 0
for line in stdout.splitlines():
  filename, license = line.split(':', 1)
  filename = os.path.relpath(filename.strip(), options.base_directory)

  # All files in the build output directory are generated one way or another.
  # There's no need to check them.
  if filename.startswith('out/') or filename.startswith('sconsbuild/'):
    continue

  # For now we're just interested in the license.
  license = license.replace('*No copyright*', '').strip()
```

```
  # Skip generated files.
  if 'GENERATED FILE' in license:
    continue

  # Support files which provide a choice between licenses.
  if any(item in WHITELISTED_LICENSES for item in license.split(';')):
    continue

  if not options.ignore_suppressions:
    found_path_specific = False
    for prefix in PATH_SPECIFIC_WHITELISTED_LICENSES:
      if (filename.startswith(prefix) and
          license in PATH_SPECIFIC_WHITELISTED_LICENSES[prefix]):
        found_path_specific = True
        break
    if found_path_specific:
      continue

  reason = "'%s' has non-whitelisted license '%s'" % (filename, license)
  success = False
  print(reason)
  exit_status = 1

if success:
  print("\nSUCCESS\n")
  return 0
else:
  print("\nFAILED\n")
  return exit_status


def main():
 default_root = os.path.abspath(
     os.path.join(os.path.dirname(__file__), '..'))
 option_parser = optparse.OptionParser()
 option_parser.add_option('--root', default=default_root,
                          dest='base_directory',
                          help='Specifies the repository root. This defaults '
                          'to "../.." relative to the script file, which '
                          'will normally be the repository root.')
 option_parser.add_option('-v', '--verbose', action='store_true',
                          default=False, help='Print debug logging')
 option_parser.add_option('--ignore-suppressions',
                          action='store_true',
                          default=False,
                          help='Ignore path-specific license whitelist.')
 options, args = option_parser.parse_args()
 return check_licenses(options, args)
```

```
if '__main__' == __name__:
 sys.exit(main())
/* <filename>.c
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Wireshark
Source: https://www.wireshark.org/
Files-Excluded: debian

Files: *
Copyright: Gerald Combs <gerald@wireshark.org> and contributors
Comment: Wireshark and the "fin" logo are trademarks of Gerald Combs.
License: GPL-2+

Files: debian/*
Copyright: 1998-2008 Frederic Peters <fpeters@debian.org>
        2005-2009 Joost Yervante Damad <andete@debian.org>
        2009-2017 Balint Reczey <balint@balintreczey.hu>
        2017-     Balint Reczey <balint.reczey@canonical.com>
License: GPL-2+

Files: wsutil/g711.c:
Copyright: Sun Microsystems, Inc.
License: public-domain
This source code is a product of Sun Microsystems, Inc. and is provided
for unrestricted use.  Users may copy or modify this source code without
charge.
.
SUN SOURCE CODE IS PROVIDED AS IS WITH NO WARRANTIES OF ANY KIND INCLUDING
THE WARRANTIES OF DESIGN, MERCHANTIBILITY AND FITNESS FOR A PARTICULAR
PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE.
.
Sun source code is provided with no support and without any obligation on
the part of Sun Microsystems, Inc. to assist in its use, correction,
modification or enhancement.
.
SUN MICROSYSTEMS, INC. SHALL HAVE NO LIABILITY WITH RESPECT TO THE
INFRINGEMENT OF COPYRIGHTS, TRADE SECRETS OR ANY PATENTS BY THIS SOFTWARE
OR ANY PART THEREOF.
.
```

In no event will Sun Microsystems, Inc. be liable for any lost revenue
or profits or other special, indirect and consequential damages, even if
Sun has been advised of the possibility of such damages.
.
Sun Microsystems, Inc.
2550 Garcia Avenue
Mountain View, California 94043

Files: wsutil/strptime.c
Copyright: 1991, 1992, 1996, 1998 Free Software Foundation, Inc.
Comment: Contributed by Ulrich Drepper <drepper@cygnus.com>, 1996
License: LGPL-2+

Files: tools/lemon/lempar.c
Copyright: 1991-1995 by D. Richard Hipp.
License: LGPL-2+

Files: epan/except.c
Copyright: 1999 Kaz Kylheku <kaz@ashi.footprints.net>
License: FSL-Kaz
Free Software License:
.
All rights are reserved by the author, with the following exceptions:
Permission is granted to freely reproduce and distribute this software,
possibly in exchange for a fee, provided that this copyright notice appears
intact. Permission is also granted to adapt this software to produce
derivative works, as long as the modified versions carry this copyright
notice and additional notices stating that the work has been modified.
This source code may be translated into executable form and incorporated
into proprietary software; there is no requirement for such software to
contain a copyright notice related to this source.

Files: epan/in_cksum.c
Copyright: 1988, 1992, 1993 The Regents of the University of California.
License: BSD-3-clause
All rights reserved.
.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

.
THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Files: wsutil/inet_ntop.c
wsutil/inet_pton.c
Copyright: 1996-1999 by Internet Software Consortium.
License: ISC

Files: epan/dissectors/packet-enc.c
epan/dissectors/packet-etherip.c
epan/dissectors/packet-ipsec-udp.c
Copyright: 2003 Markus Friedl
License: BSD-2-clause

Files: epan/dissectors/packet-pflog.c:
Copyright: 2001 Mike Frantzen
License: BSD-2-clause-no-conditions
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
.
- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Files: wiretap/erf.c
wiretap/erf.h
Copyright: 2003 Endace Technology Ltd, Hamilton, New Zealand.
License: BSD-3-clause-Endance
This software and documentation has been developed by Endace Technology Ltd.
along with the DAG PCI network capture cards. For further information please
visit http://www.endace.com/.
.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
.
1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
.
3. The name of Endace Technology Ltd may not be used to endorse or promote
products derived from this software without specific prior written
permission.
.
THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Files: wiretap/i4b_trace.h
Copyright: 1997, 1999 Hellmuth Michaelis
License: BSD-2-clause

Files: epan/dissectors/pidl/rfr/rfr.idl
epan/dissectors/pidl/mapi/mapi.idl
Copyright: 2008 Julien Kerihuel, OpenChange Project
Comment: Note that those are interface definitions thus are not copyrightable
in FSF's view
http://lkml.iu.edu//hypermail/linux/kernel/0301.1/0362.html
License: GPL-3+

Files: tools/pidl/idl.yp
Copyright: Andrew Tridgell <tridge@samba.org>
License: GPL-3+

License: BSD-2-clause
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
.
THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

License: GPL-2+
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 dated June, 1991, or (at
your option) any later version.
.
On Debian systems, the complete text of version 2 of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'.

License: GPL-3+
This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.
.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.
.
On Debian systems, the full text of the
GNU General Public License version 3 can be found in the file

`/usr/share/common-licenses/GPL-3'.

License: ISC
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
.
THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

License: LGPL-2+
Copyright (C) 1991, 1992, 1996, 1998 Free Software Foundation, Inc.
This file is part of the GNU C Library.
.
The GNU C Library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public License as
published by the Free Software Foundation; either version 2 of the
License, or (at your option) any later version.
.
The GNU C Library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.
.
You should have received a copy of the GNU Library General Public
License along with the GNU C Library; see the file COPYING.LIB. If not,
write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor,
Boston, MA 02110-1301, USA.
Copyright notice for the files copied from
http://www.opensync.org/browser/branches/3rd-party-cmake-modules/modules

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
All files in this directory are dual licensed by the licenses
included below, unless the individual license of a file says
otherwise.

```
#######################################################################
#
#  Copyright (c) ....
#
# This program is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License
# as published by the Free Software Foundation; either version 2
# of the License, or (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor,
# Boston, MA  02110-1301, USA.
#
#######################################################################
#
#  Copyright (c) ...
#  All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
#
# * Redistributions of source code must retain the above copyright
#   notice, this list of conditions and the following disclaimer.
#
# * Redistributions in binary form must reproduce the above copyright
#   notice, this list of conditions and the following disclaimer in
```

the documentation and/or other materials provided with the
distribution.
#
* Neither the name of the <ORGANIZATION> nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
#
The IDL files in this directory are made available by the Samba Team
under the following license:

Permission to use, copy, modify, and distribute these interface
definitions for any purpose is hereby granted without fee.

This work is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
This text consists of three parts:

Part I: Some remarks regarding the license given in
Part II: The actual license that covers Wireshark.
Part III: Other applicable licenses.

When in doubt: Part II/III is the legally binding part, Part I is just
there to make it easier for people that are not familiar with the GPLv2.

Part I:

Wireshark is distributed under the GNU GPLv2. There are no restrictions
on its use. There are restrictions on its distribution in source or
binary form.

Most parts of Wireshark are covered by a "GPL version 2 or later" license.
Some files are covered by different licenses that are compatible with

the GPLv2.

As a notable exception, some utilities distributed with the Wireshark source are covered by other licenses that are not themselves directly compatible with the GPLv2. This is OK, as only the tools themselves are licensed this way, the output of the tools is not considered a derived work, and so can be safely licensed for Wireshark's use. An incomplete selection of these tools includes:
- the pidl utility (tools/pidl) is licensed under the GPLv3+.

Parts of Wireshark can be built and distributed as libraries. These parts are still covered by the GPL, and NOT by the Lesser General Public License or any other license.

If you integrate all or part of Wireshark into your own application, then that application must be released under a license compatible with the GPL.

The full text of the GNU GPL and some of the other applicable licenses follows.

Part II:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Part III:

Parts of this software are licensed as follows

Copyright (c) 1988, 1992, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Markus Friedl. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Endace Technology Ltd, Hamilton, New Zealand.
All rights reserved.

This software and documentation has been developed by Endace Technology Ltd. along with the DAG PCI network capture cards. For further information please visit http://www.endace.com/.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of Endace Technology Ltd may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997, 1999 Hellmuth Michaelis. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.50 grub 0.97

1.50.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent

access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED

OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.51 gdbm 1.18

1.51.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007, 2011 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.52 e2fsprogs 1.45.6

1.52.1 Available under license :

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

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

```
Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
          Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
     Copyright (c) 2001 Alcove <http://www.alcove.com/>
     Copyright (c) 1997 Klee Dienes
     Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

 Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2001 by Andries Brouwer
Copyright (C) 1999, 2000, 2003 by Theodore Ts'o

You are free to distribute this software under the terms of the GNU
Lesser (Library) General Public License.

On Debian systems, the complete text of the GNU Lesser (Library)
General Public License can be found in /usr/share/common-licenses/LGPL-2.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 by

Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
+ Copyright (C) Andrew Tridgell 1999-2005
+ Copyright (C) Jeremy Allison 2000-2006
+ Copyright (C) Paul `Rusty' Russell 2000

** NOTE! The following LGPL license applies to the tdb

** library. This does NOT imply that all of Samba is released
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2007 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, are made available under
the GNU General Public License version 2, with the exception of the
lib/ext2fs and lib/e2p libraries, which are made available under the
GNU Library General Public License Version 2, the lib/uuid library
which is made available under a BSD-style license and the lib/et and
lib/ss libraries which are made available under an MIT-style license.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General Public
License can be found in `/usr/share/common-licenses/GPL-2'. The
complete text of the GNU Library General Public License can be found
in '/usr/share/common-licenses/LGPL-2'.

The license used for lib/et and lib/ss libraries is:

Copyright 1987 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and
its documentation for any purpose is hereby granted, provided that
the names of M.I.T. and the M.I.T. S.I.P.B. not be used in
advertising or publicity pertaining to distribution of the software
without specific, written prior permission. M.I.T. and the
M.I.T. S.I.P.B. make no representations about the suitability of
this software for any purpose. It is provided "as is" without
express or implied warranty.

The license used for lib/uuid is:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source

code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while

preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does

and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

therefore falls outside the scope of this License.

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2003, 2004 by Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about

the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.
EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and

you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of

Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License

may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.53 gopsutil 3.23.6

1.53.1 Available under license :

gopsutil is distributed under BSD license reproduced below.

Copyright (c) 2014, WAKAYAMA Shirou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the gopsutil authors nor the names of its contributors
  may be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---
internal/common/binary.go in the gopsutil is copied and modified from golang/encoding/binary.go.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.54 libffi 3.1

1.54.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions

apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent

(such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.55 minio-go 7.0.10

1.55.1 Available under license :

```
/*
* MinIO Go Library for Amazon S3 Compatible Cloud Storage
* Copyright 2020 MinIO, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
```

```
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
```

```
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return err
 }

 // Get resources properly escaped and lined up before
 // using them in http request.
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }
```

```
 lh, err := newObjectLegalHold(opts.Status)
 if err != nil {
  return err
 }

 lhData, err := xml.Marshal(lh)
 if err != nil {
  return err
 }

 reqMetadata := requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentBody:      bytes.NewReader(lhData),
  contentLength:    int64(len(lhData)),
  contentMD5Base64: sumMD5Base64(lhData),
  contentSHA256Hex: sum256Hex(lhData),
 }

 // Execute PUT Object Legal Hold.
 resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
 defer closeResponse(resp)
 if err != nil {
  return err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
   return httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 return nil
}

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")
```

```
if opts.VersionID != "" {
 urlValues.Set("versionId", opts.VersionID)
}

// Execute GET on bucket to list objects.
resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
 bucketName:       bucketName,
 objectName:       objectName,
 queryValues:      urlValues,
 contentSHA256Hex: emptySHA256Hex,
})
defer closeResponse(resp)
if err != nil {
 return nil, err
}
if resp != nil {
 if resp.StatusCode != http.StatusOK {
  return nil, httpRespToErrorResponse(resp, bucketName, objectName)
 }
}
lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
 return nil, err
}

return &lh.Status, nil
}
```

MinIO Cloud Storage, (C) 2014-2020 MinIO, Inc.

This product includes software developed at MinIO, Inc.
(https://min.io/).

The MinIO project contains unmodified/modified subcomponents too with
separate copyright notices and license terms. Your use of the source
code for these subcomponents is subject to the terms and conditions
of Apache License Version 2.0

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.56 dgrijalva-jwt-go 4.0.0-preview1

1.56.1 Available under license :

Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.57 goterm 0.0.0-20190703233501-fc88cf888a3f

1.57.1 Available under license :

Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.58 libgcrypt 1.9.4

1.58.1 Available under license :

Additional license notices for Libgcrypt. -*- org -*-

This file contains the copying permission notices for various files in
the Libgcrypt distribution which are not covered by the GNU Lesser
General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included
in the accompanying documentation and be distributed with binary
distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

* BSD_3Clause

For files:
- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S
- cipher/sha512-ssse3-i386.c

#+begin_quote
Copyright (c) 2012, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the
distribution.

* Neither the name of the Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#+end_quote

For files:
- random/jitterentropy-base.c
- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

#+begin_quote
* Copyright Stephan Mueller <smueller@chronox.de>, 2013
*
* License
* =======
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, and the entire permission notice in its entirety,
* including the disclaimer of warranties.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote
* products derived from this software without specific prior
* written permission.
*
* ALTERNATIVELY, this product may be distributed under the terms of
* the GNU General Public License, in which case the provisions of the GPL are
* required INSTEAD OF the above restrictions. (This clause is

* necessary due to a potential bad interaction between the GPL and
* the restrictions contained in a BSD-style copyright.)
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
* WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
* OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
#+end_quote

For files:
- cipher/cipher-gcm-ppc.c

#+begin_quote
Copyright (c) 2006, CRYPTOGAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain copyright notices,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials
  provided with the distribution.

* Neither the name of the CRYPTOGAMS nor the names of its
  copyright holder and contributors may be used to endorse or
  promote products derived from this software without specific
  prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this
product may be distributed under the terms of the GNU General Public
License (GPL), in which case the provisions of the GPL apply INSTEAD OF
those given above.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#+end_quote

* X License

For files:
- install.sh

#+begin_quote
Copyright (C) 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.
#+end_quote

* Public domain

For files:
- cipher/arcfour-amd64.S

#+begin_quote

Author: Marc Bevand <bevand_m (at) epita.fr>
Licence: I hereby disclaim the copyright on this code and place it
in the public domain.
#+end_quote

* OCB license 1

For files:
- cipher/cipher-ocb.c

#+begin_quote
OCB is covered by several patents but may be used freely by most
software. See http://web.cs.ucdavis.edu/~rogaway/ocb/license.htm .
In particular license 1 is suitable for Libgcrypt: See
http://web.cs.ucdavis.edu/~rogaway/ocb/license1.pdf for the full
license document; it basically says:

License 1 License for Open-Source Software Implementations of OCB
(Jan 9, 2013)

Under this license, you are authorized to make, use, and
distribute open-source software implementations of OCB. This
license terminates for you if you sue someone over their
open-source software implementation of OCB claiming that you have
a patent covering their implementation.

License for Open Source Software Implementations of OCB
January 9, 2013

1 Definitions

1.1 Licensor means Phillip Rogaway.

1.2 Licensed Patents means any patent that claims priority to United
States Patent Application No. 09/918,615 entitled Method and Apparatus
for Facilitating Efficient Authenticated Encryption, and any utility,
divisional, provisional, continuation, continuations-in-part, reexamination,
reissue, or foreign counterpart patents that may issue with respect to the
aforesaid patent application. This includes, but is not limited to, United
States Patent No. 7,046,802; United States Patent No. 7,200,227; United
States Patent No. 7,949,129; United States Patent No. 8,321,675 ; and any
patent that issues out of United States Patent Application No. 13/669,114.

1.3 Use means any practice of any invention claimed in the Licensed Patents.

1.4 Software Implementation means any practice of any invention

claimed in the Licensed Patents that takes the form of software executing on a user-programmable, general-purpose computer or that takes the form of a computer-readable medium storing such software. Software Implementation does not include, for example, application-specific integrated circuits (ASICs), field-programmable gate arrays (FPGAs), embedded systems, or IP cores.

1.5 Open Source Software means software whose source code is published and made available for inspection and use by anyone because either (a) the source code is subject to a license that permits recipients to copy, modify, and distribute the source code without payment of fees or royalties, or (b) the source code is in the public domain, including code released for public use through a CC0 waiver. All licenses certified by the Open Source Initiative at opensource.org as of January 9, 2013 and all Creative Commons licenses identified on the creativecommons.org website as of January 9, 2013, including the Public License Fallback of the CC0 waiver, satisfy these requirements for the purposes of this license.

1.6 Open Source Software Implementation means a Software Implementation in which the software implicating the Licensed Patents is Open Source Software. Open Source Software Implementation does not include any Software Implementation in which the software implicating the Licensed Patents is combined, so as to form a larger program, with software that is not Open Source Software.

2 License Grant

2.1 License. Subject to your compliance with the term s of this license, including the restriction set forth in Section 2.2, Licensor hereby grants to you a perpetual, worldwide, non-exclusive, non-transferable, non-sublicenseable, no-charge, royalty-free, irrevocable license to practice any invention claimed in the Licensed Patents in any Open Source Software Implementation.

2.2 Restriction. If you or your affiliates institute patent litigation (including, but not limited to, a cross-claim or counterclaim in a lawsuit) against any entity alleging that any Use authorized by this license infringes another patent, then any rights granted to you under this license automatically terminate as of the date such litigation is filed.

3 Disclaimer

YOUR USE OF THE LICENSED PATENTS IS AT YOUR OWN RISK AND UNLESS REQUIRED BY APPLICABLE LAW, LICENSOR MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED PATENTS OR ANY PRODUCT EMBODYING ANY LICENSED PATENT, EXPRESS OR IMPLIED, STATUT ORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL LICENSOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM OR RELATED TO ANY USE OF THE LICENSED PATENTS, INCLUDING,

WITHOUT LIMITATION, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES PRIOR TO SUCH AN OCCURRENCE.
#+end_quote

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

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

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

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

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

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

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

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

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

^L

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most

effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.59 glibc 2.8

1.59.1 Available under license :

This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation. These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted both by UC Berkeley and by Digital Equipment Corporation. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (C) 1984, Sun Microsystems, Inc.

Sun RPC is a product of Sun Microsystems, Inc. and is provided for unrestricted use provided that this legend is included on all tape media and as a part of the software program in whole or part. Users may copy or modify Sun RPC without charge, but are not authorized to license or distribute it to anyone else except as part of a product or program developed by the user.

SUN RPC IS PROVIDED AS IS WITH NO WARRANTIES OF ANY KIND INCLUDING THE WARRANTIES OF DESIGN, MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE.

Sun RPC is provided with no support and without any obligation on the part of Sun Microsystems, Inc. to assist in its use, correction, modification or enhancement.

SUN MICROSYSTEMS, INC. SHALL HAVE NO LIABILITY WITH RESPECT TO THE INFRINGEMENT OF COPYRIGHTS, TRADE SECRETS OR ANY PATENTS BY SUN RPC OR ANY PART THEREOF.

In no event will Sun Microsystems, Inc. be liable for any lost revenue or profits or other special, indirect and consequential damages, even if Sun has been advised of the possibility of such damages.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or extensions that they make and grant Carnegie Mellon the rights to redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright
(C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

 The author(s) grant permission for redistribution and use in source and
binary forms, with or without modification, of the software and documentation
provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled
  as not being for redistribution (check the version message and/or README),
  you are not permitted to redistribute that version of the software in any
  way or form.
1. All terms of the all other applicable copyrights and licenses must be
  followed.
2. Redistributions of source code must retain the authors' copyright
  notice(s), this list of conditions, and the following disclaimer.

3. Redistributions in binary form must reproduce the authors' copyright
  notice(s), this list of conditions, and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates

the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.60 ndfc-distrace 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.60.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.61 libxml2 2.9.12

1.61.1 Available under license :

Except where otherwise noted in the source code (e.g. the files hash.c,
list.c and the trio files, which are covered by a similar licence but
with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is fur-
nished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FIT-
NESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.62 prometheus-common 0.37.0

1.62.1 Available under license :

Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.63 setserial 2.17

1.63.1 Available under license :

Found license 'General Public License 2.0' in '.\" May be distributed under the GNU General Public License'

1.64 zip 3.0

1.64.1 Available under license :

This is version 2007-Mar-4 of the Info-ZIP license.
The definitive version of this document should be available at
ftp://ftp.info-zip.org/pub/infozip/license.html indefinitely and
a copy at http://www.info-zip.org/pub/infozip/license.html.

Copyright (c) 1990-2007 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as
the following set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois,
Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth,
Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz,
David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko,
Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs,
Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda,
Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren,
Rich Wales, Mike White.

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.

4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

RECORD
 Carriage_Control carriage_return
 Format stream_lf

1.65 ndfc-kafka 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.65.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.66 curl 7.87.0

1.66.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2022, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization of the copyright holder.

1.67 grpc-go 1.46.0

1.67.1 Available under license :

Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.68 sudo 1.8.14p3

1.68.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias

Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark

Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.

Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
Wagner, Klaus
Walsh, Dan

Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Jerovek, Damir
Karvonen, Jorma
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer

Sudo is distributed under the following license:

Copyright (c) 1994-1996, 1998-2015
Todd C. Miller <Todd.Miller@courtesan.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Sponsored in part by the Defense Advanced Research Projects Agency (DARPA) and Air Force Research Laboratory, Air Force Materiel Command, USAF, under agreement number F39502-99-1-0512.

The file redblack.c bears the following license:

Copyright (c) 2001 Emin Martinian

Redistribution and use in source and binary forms, with or without modification, are permitted provided that neither the name of Emin Martinian nor the names of any contributors are be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file reallocarray.c bears the following license:

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any

purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files getcwd.c, glob.c, glob.h, snprintf.c and sudo_queue.h bear the
following license:

Copyright (c) 1989, 1990, 1991, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file fnmatch.c bears the following license:

Copyright (c) 2011, VMware, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the VMware, Inc. nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL VMWARE, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file getopt_long.c bears the following license:

```
/*-
* Copyright (c) 2000 The NetBSD Foundation, Inc.
* All rights reserved.
*
* This code is derived from software contributed to The NetBSD Foundation
* by Dieter Baron and Thomas Klausner.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
* ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
* TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
* BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
```

* POSSIBILITY OF SUCH DAMAGE.
*/

The file inet_pton.c bears the following license:

/* Copyright (c) 1996 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
*/

The embedded copy of zlib bears the following license:

Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

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

1.69 pbkdf2 1.0.0

1.69.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Spomky-Labs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.70 go-openapi-jsonreference 0.20.0

1.70.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.71 parted 3.2

1.71.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic

pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you

receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded

from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you

received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or

run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement,

or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you

to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and

JPG. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item

Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or

through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and

will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any

World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,

replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.72 speexdsp 1.2

1.72.1 Available under license :

Copyright 2002-2008 Xiph.org Foundation
Copyright 2002-2008 Jean-Marc Valin
Copyright 2005-2007 Analog Devices Inc.
Copyright 2005-2008 Commonwealth Scientific and Industrial Research
                Organisation (CSIRO)
Copyright 1993, 2002, 2006 David Rowe
Copyright 2003 EpicGames
Copyright 1992-1994 Jutta Degener, Carsten Bormann

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

- Neither the name of the Xiph.org Foundation nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.73 futures 3.3.0

1.73.1 Available under license :

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python
alone or in any derivative version, provided, however, that PSF's
License Agreement and PSF's notice of copyright, i.e., "Copyright (c)
2001, 2002, 2003, 2004, 2005, 2006 Python Software Foundation; All Rights
Reserved" are retained in Python alone or in any derivative version
prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT

INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

1.74 sim-agent-masterapi 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.74.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object

form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a

file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.75 libnss-mdns 0.10

1.75.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations

below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of

this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

specified materials from the same place.

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License

may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.76 e2fsprogs 1.42.9

1.76.1 Available under license :

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

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell            2005
+   Copyright (C) Andrew Tridgell            1999-2005
+   Copyright (C) Jeremy Allison             2000-2006
+   Copyright (C) Paul `Rusty' Russell       2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
```

of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2003, 2004 by Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2001 by Andries Brouwer
Copyright (C) 1999, 2000, 2003 by Theodore Ts'o

You are free to distribute this software under the terms of the GNU
Lesser (Library) General Public License.

On Debian systems, the complete text of the GNU Lesser (Library)
General Public License can be found in /usr/share/common-licenses/LGPL-2.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

http://sourceforge.net/projects/e2fsprogs

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

Copyright:

Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 by
Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT

OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software

Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/*

Copyright 1987 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

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

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

Packaging is Copyright (c) 2003-2007 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

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

Copyright notice:

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. The complete text of the GNU Library General Public License can be found in '/usr/share/common-licenses/LGPL-2'.

The license used for lib/et and lib/ss libraries is:

Copyright 1987 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose is hereby granted, provided that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The license used for lib/uuid is:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's

source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR

REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.77 olivere-elastic 7.0.32

1.77.1 Available under license :

Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a list of people who have contributed code
to the Elastic repository.
#
It is just my small "thank you" to all those that helped
making Elastic what it is.

#
Please keep this list sorted.

0x6875790d0a [@huydx](https://github.com/huydx)
Aaron Tami [@aarontami](https://github.com/aarontami)
Adam Alix [@adamalix](https://github.com/adamalix)
Adam Weiner [@adamweiner](https://github.com/adamweiner)
Adam Szaraniec [@mimol91](https://github.com/mimol91)
Adrian Lungu [@AdrianLungu](https://github.com/AdrianLungu)
alehano [@alehano](https://github.com/alehano)
Alejandro Carstens [@alejandro-carstens](https://github.com/alejandro-carstens)
Alex [@akotlar](https://github.com/akotlar)
Alexander Sack [@asac](https://github.com/asac)
Alexandre Olivier [@aliphen](https://github.com/aliphen)
Alexey Sharov [@nizsheanez](https://github.com/nizsheanez)
Aman Jain [@amanjain97](https://github.com/amanjain97)
Anders [@ANerd](https://github.com/ANerd)
AndreKR [@AndreKR](https://github.com/AndreKR)
Andr Bierlein [@ligustah](https://github.com/ligustah)
Andrew Dunham [@andrew-d](https://github.com/andrew-d)
Andrew Gaul [@andrewgaul](https://github.com/andrewgaul)
Andy Walker [@alaska](https://github.com/alaska)
Arpit Agarwal [@arpiagar](https://github.com/arpiagar)
Arquivei [@arquivei](https://github.com/arquivei)
Artemiy Elozhenko [@artezh](https://github.com/artezh)
arthurgustin [@arthurgustin](https://github.com/arthurgustin)
Bas van Dijk [@basvandijk](https://github.com/basvandijk)
Benjamin Fernandes [@LotharSee](https://github.com/LotharSee)
Benjamin Zarzycki [@kf6nux](https://github.com/kf6nux)
bestgopher [@bestgopher](https://github.com/bestgopher)
Bjrn Gerdau [@kernle32dll](https://github.com/kernle32dll)
Boris Popovschi [@Zyqsempai](https://github.com/Zyqsempai)
Bowei Xu [@vancexu](https://github.com/vancexu)
Braden Bassingthwaite [@bbassingthwaite-va](https://github.com/bbassingthwaite-va)
Brady Love [@bradylove](https://github.com/bradylove)
Bryan Conklin [@bmconklin](https://github.com/bmconklin)
Bruce Zhou [@brucez-isell](https://github.com/brucez-isell)
Carl Dunham [@carldunham](https://github.com/carldunham)
Carl Johan Gustavsson [@cjgu](https://github.com/cjgu)
Carson [@carson0321](https://github.com/carson0321)
Cat [@cat-turner](https://github.com/cat-turner)
Csar Jimnez [@cesarjimenez](https://github.com/cesarjimenez)
cforbes [@cforbes](https://github.com/cforbes)
(Chang Tai Wei) [@david30907d](https://github.com/david30907d)
cheshire [@NikitaSerenko](https://github.com/NikitaSerenko)
Chris M [@tebriel](https://github.com/tebriel)
Chris Rice [@donutmonger](https://github.com/donutmonger)
Claudiu Olteanu [@claudiuolteanu](https://github.com/claudiuolteanu)

Chris Duncan [@veqryn](https://github.com/veqryn)
Chris Ludden [@cludden](https://github.com/cludden)
Christophe Courtaut [@kri5](https://github.com/kri5)
cmitchell [@cmitchell](https://github.com/cmitchell)
Connor Peet [@connor4312](https://github.com/connor4312)
Conrad Pankoff [@deoxxa](https://github.com/deoxxa)
Corey Scott [@corsc](https://github.com/corsc)
Chris Petersen [@ex-nerd](https://github.com/ex-nerd)
czxichen [@czxichen](https://github.com/czxichen)
Daniel Barrett [@shendaras](https://github.com/shendaras)
Daniel Heckrath [@DanielHeckrath](https://github.com/DanielHeckrath)
Daniel Imfeld [@dimfeld](https://github.com/dimfeld)
Daniel Santos [@danlsgiga](https://github.com/danlsgiga)
David Emanuel Buchmann [@wuurrd](https://github.com/wuurrd)
Devin Christensen [@quixoten](https://github.com/quixoten)
diacone [@diacone](https://github.com/diacone)
Diego Becciolini [@itizir](https://github.com/itizir)
Don Smith III [@cactauz](https://github.com/cactauz)
Dwayne Schultz [@myshkin5](https://github.com/myshkin5)
Elizabeth Jarrett [@mejarrett](https://github.com/mejarrett)
Elliot Williams [@elliotwms](https://github.com/elliotwms)
Ellison Leo [@ellisonleao](https://github.com/ellisonleao)
Emil Gedda [@EmilGedda](https://github.com/EmilGedda)
Erik Grinaker [@erikgrinaker](https://github.com/erikgrinaker)
Erwin [@eticzon](https://github.com/eticzon)
Etienne Lafarge [@elafarge](https://github.com/elafarge)
Eugene Egorov [@EugeneEgorov](https://github.com/EugeneEgorov)
Evan Shaw [@edsrzf](https://github.com/edsrzf)
Fanfan [@wenpos](https://github.com/wenpos)
Faolan C-P [@fcheslack](https://github.com/fcheslack)
Filip Tepper [@filiptepper](https://github.com/filiptepper)
Garrett Kelley [@GarrettKelley](https://github.com/GarrettKelley)
Gaspard Douady [@plopik](https://github.com/plopik)
Gaylord Aulke [@blafasel42](https://github.com/blafasel42)
Gerhard Hring [@ghaering](https://github.com/ghaering)
gregoryfranklin [@gregoryfranklin](https://github.com/gregoryfranklin)
Guilherme Silveira [@guilherme-santos](https://github.com/guilherme-santos)
Guillaume J. Charmes [@creack](https://github.com/creack)
Guiseppe [@gm42](https://github.com/gm42)
Han Yu [@MoonighT](https://github.com/MoonighT)
Harmen [@alicebob](https://github.com/alicebob)
Haroldo Vlez [@Haroldov](https://github.com/Haroldov)
Harrison Wright [@wright8191](https://github.com/wright8191)
Henry Clifford [@hcliff](https://github.com/hcliff)
Henry Stern [@hstern](https://github.com/hstern)
Herbert Lu [@lryong](https://github.com/lryong)
Igor Dubinskiy [@idubinskiy](https://github.com/idubinskiy)
initialcontext [@initialcontext](https://github.com/initialcontext)

Isaac Saldana [@isaldana](https://github.com/isaldana)
Ishan Jain [@ishanjain28](https://github.com/ishanjain28)
J Barkey Wolf [@jjhbw](https://github.com/jjhbw)
Jack Lindamood [@cep21](https://github.com/cep21)
Jacob [@jdelgad](https://github.com/jdelgad)
Jan Dpmeier [@jduepmeier](https://github.com/jduepmeier)
Jayme Rotsaert [@jrots](https://github.com/jrots)
Jean-Alexandre Beaumont [@Enteris](https://github.com/Enteris)
Jean-Franois Roche [@jfroche](https://github.com/jfroche)
Jeff Rand [@jeffrand](https://github.com/jeffrand)
Jeremy Canady [@jrmycanady](https://github.com/jrmycanady)
Jrmie Vexiau [@texvex](https://github.com/texvex)
Jesper Brnn [@Yopi](https://github.com/Yopi)
Jim Berlage [@jimberlage](https://github.com/jimberlage)
Joe Buck [@four2five](https://github.com/four2five)
John Barker [@j16r](https://github.com/j16r)
John Goodall [@jgoodall](https://github.com/jgoodall)
John Stanford [@jxstanford](https://github.com/jxstanford)
Jonas Groenaas Drange [@semafor](https://github.com/semafor)
Josef Frhle [@Dexus](https://github.com/Dexus)
Jos Martnez [@xose](https://github.com/xose)
Josh Chorlton [@jchorl](https://github.com/jchorl)
Jpnock [@Jpnock](https://github.com/Jpnock)
jun [@coseyo](https://github.com/coseyo)
Junpei Tsuji [@jun06t](https://github.com/jun06t)
Karen Yang [@kyangtt](https://github.com/kyangtt)
kartlee [@kartlee](https://github.com/kartlee)
Keith Hatton [@khatton-ft](https://github.com/khatton-ft)
kel [@liketic](https://github.com/liketic)
Kenta SUZUKI [@suzuken](https://github.com/suzuken)
Kevin Mulvey [@kmulvey](https://github.com/kmulvey)
Kyle Brandt [@kylebrandt](https://github.com/kylebrandt)
Larry Cinnabar [@larrycinnabar](https://github.com/larrycinnabar)
Leandro Piccilli [@lpic10](https://github.com/lpic10)
Lee [@leezhm](https://github.com/leezhm)
lechnertech [@lechnertech](https://github.com/lechnertech)
M. Zulfa Achsani [@misterciput](https://github.com/misterciput)
Maciej Lisiewski [@c2h5oh](https://github.com/c2h5oh)
Mara Kim [@autochthe](https://github.com/autochthe)
Marcy Buccellato [@marcybuccellato](https://github.com/marcybuccellato)
Mark Costello [@mcos](https://github.com/mcos)
Martin Hger [@protomouse](https://github.com/protomouse)
Matt Braymer-Hayes [@mattayes](https://github.com/mattayes)
Medhi Bechina [@mdzor](https://github.com/mdzor)
Mike Beshai [@mbesh](https://github.com/mbesh)
Mikhail Balabin [@mablabin](https://github.com/mbalabin)
mmfrb [@mmfrb](https://github.com/mmfrb)
mnpritula [@mnpritula](https://github.com/mnpritula)

mosa [@mosasiru](https://github.com/mosasiru)
Muhammet akr [@cakirmuha](https://github.com/cakirmuha)
Munkyu Im [@munkyu](https://github.com/munkyu)
naimulhaider [@naimulhaider](https://github.com/naimulhaider)
Naoya Yoshizawa [@azihsoyn](https://github.com/azihsoyn)
Naoya Tsutsumi [@tutuming](https://github.com/tutuming)
Nathan Macnamara [@nathanmac](https://github.com/nathanmac)
Nathan Lacey [@nlacey](https://github.com/nlacey)
navins [@ishare](https://github.com/ishare)
NeoCN [@NeoCN](https://github.com/NeoCN)
Nguyen Xuan Dung [@dungnx](https://github.com/dungnx)
Nicholas Wolff [@nwolff](https://github.com/nwolff)
Nick K [@utrack](https://github.com/utrack)
Nick Whyte [@nickw444](https://github.com/nickw444)
Nicolae Vartolomei [@nvartolomei](https://github.com/nvartolomei)
okhowang [@okhowang](https://github.com/okhowang)
Orne Brocaar [@brocaar](https://github.com/brocaar)
ottramst [@ottramst](https://github.com/ottramst)
Paul [@eyeamera](https://github.com/eyeamera)
Paul Oldenburg [@lr-paul](https://github.com/lr-paul)
Pedro [@otherview](https://github.com/otherview)
Pete C [@peteclark-ft](https://github.com/peteclark-ft)
Peter Nagy [@nagypeterjob](https://github.com/nagypeterjob)
Paolo [@ppiccolo](https://github.com/ppiccolo)
Phillip Baker [@phillbaker](https://github.com/phillbaker)
QilingZhao [@qilingzhao](https://github.com/qilingzhao)
Igor Panychek [@panychek](https://github.com/panychek)
Radoslaw Wesolowski [@r--w](https://github.com/r--w)
Rafa Gaus [@rgalus](https://github.com/rgalus)
rchicoli [@rchicoli](https://github.com/rchicoli)
Roman Colohanin [@zuzmic](https://github.com/zuzmic)
Ryan Schmukler [@rschmukler](https://github.com/rschmukler)
Ryan Wynn [@rwynn](https://github.com/rwynn)
Sacheendra talluri [@sacheendra](https://github.com/sacheendra)
Sean DuBois [@Sean-Der](https://github.com/Sean-Der)
Sagan Yaroslav [@sgnrslv](https://github.com/sgnrslv)
Shalin LK [@shalinlk](https://github.com/shalinlk)
Simon Schneider [@raynigon](https://github.com/raynigon)
singham [@zhaochenxiao90](https://github.com/zhaochenxiao90)
Slawomir CALUCH [@slawo](https://github.com/slawo)
soarpenguin [@soarpenguin](https://github.com/soarpenguin)
Stephan Krynauw [@skrynauw](https://github.com/skrynauw)
Stephen Kubovic [@stephenkubovic](https://github.com/stephenkubovic)
Stuart Warren [@Woz](https://github.com/stuart-warren)
Sulaiman [@salajlan](https://github.com/salajlan)
Sundar [@sundarv85](https://github.com/sundarv85)
Swarlston [@Swarlston](https://github.com/Swarlston)
Take [ww24](https://github.com/ww24)

Tetsuya Morimoto [@t2y](https://github.com/t2y)
TheZeroSlave [@TheZeroSlave](https://github.com/TheZeroSlave)
Tomasz Elendt [@telendt](https://github.com/telendt)
TimeEmit [@TimeEmit](https://github.com/timeemit)
TusharM [@tusharm](https://github.com/tusharm)
wangtuo [@wangtuo](https://github.com/wangtuo)
Wdney Yuri [@wedneyyuri](https://github.com/wedneyyuri)
Wesley Kim [@wesleyk](https://github.com/wesleyk)
wolfkdy [@wolfkdy](https://github.com/wolfkdy)
Wyndham Blanton [@wyndhblb](https://github.com/wyndhblb)
Yarden Bar [@ayashjorden](https://github.com/ayashjorden)
Yuya Kusakabe [@higebu](https://github.com/higebu)
zakthomas [@zakthomas](https://github.com/zakthomas)
Zach [@snowzach](https://github.com/snowzach)
zhangxin [@visaxin](https://github.com/visaxin)
@ [@zplzpl](https://github.com/zplzpl)
The MIT License (MIT)
Copyright 2012-2015 Oliver Eilhard

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the Software), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.

1.78 libedit 20130712-3.1

1.78.1 Available under license :

Copyright (c) 1992, 1993
The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by
Christos Zoulas of Cornell University.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.79 zstd 1.4.4

1.79.1 Available under license :

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

* Neither the name Facebook nor the names of its contributors may be used to
endorse or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Simplified BSD License

Copyright (c) 2016, Datadog <info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.80 dom 1.0

1.80.1 Available under license :

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

/*
* Copyright (c) 2001 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software

* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
* See W3C License http://www.w3.org/Consortium/Legal/ for more details.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
No license file was found, but licenses were detected in source scan.

Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE
2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/package.html
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2000 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE. See W3C License http://www.w3.org/Consortium/Legal/ for more
* details.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/w3c/dom/html/HTMLDOMImplementation.java
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*

```
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
   * Checks if this content model has had its min/maxOccurs values reduced for
   * purposes of speeding up UPA.  If so, this content model should not be used
   * for any purpose other than checking unique particle attribution
   *
   * @return a boolean that says whether this content has been compacted for UPA
   */
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * DOM Level 3 LS CR - Experimental.
   * Create a new <code>LSParser</code>. The newly constructed parser may
   * then be configured by means of its <code>DOMConfiguration</code>
   * object, and used to parse documents by means of its <code>parse</code>
   *  method.
   * @param mode  The <code>mode</code> argument is either
   *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
   *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in synchronous
   *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
   *   <code>LSParser</code> that is created will operate in asynchronous
   *   mode.
```

```
   * @param schemaType  An absolute URI representing the type of the schema
   *   language used during the load of a <code>Document</code> using the
   *   newly created <code>LSParser</code>. Note that no lexical checking
   *   is done on the absolute URI. In order to create a
   *   <code>LSParser</code> for any kind of schema types (i.e. the
   *   LSParser will be free to use any schema found), use the value
   *   <code>null</code>.
   * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
   *   , applications must use the value
   *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
   *   applications must use the value
   *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
   *   are outside the scope of the W3C and therefore should recommend an
   *   absolute URI in order to use this method.
   * @return  The newly created <code>LSParser</code> object. This
   *   <code>LSParser</code> is either synchronous or asynchronous
   *   depending on the value of the <code>mode</code> argument.
   * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
   *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
   *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
   *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
   *   may provide a default error handler at creation time. In that case,
   *   the initial value of the <code>"error-handler"</code> configuration
   *   parameter on the new created <code>LSParser</code> contains a
   *   reference to the default error handler.
   * @exception DOMException
   *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
   *   not supported.
  */
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
```

```
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
   * used to check the 3 constraints against each complex type
   * (should be each model group):
   * Unique Particle Attribution, Particle Derivation (Restriction),
   * Element Declrations Consistent.
   */
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
```

```
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSParticle.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/DefaultNamespaceContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDelegate.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/UIEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SecurityManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF16Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSModelImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXEventResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/PSVIErrorList.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/StartDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/Latin1Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/LCount.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ChildNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MouseEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/StAXSchemaParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLInputElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SoftReferenceSymbolTableConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLPreElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/HTMLdtd.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AugmentationsImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLNoopElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/ProcessingInstructionImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLUElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSmallElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/MessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFormElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLCollectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/SerializedDuration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAreaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLChar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPostfieldElement.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeepNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLLocatorWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXLocationWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseSchemaDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/NotationDeclarationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SoftReferenceSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/EntityState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLEmElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/StartElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EndElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLStringBuffer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/DTDImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParserImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLDocument.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Op.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDParser.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolHash.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/EncodingInfo.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/CMNodeFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLAppletElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/SchemaDVFactory.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ErrorHandlerProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/StAXStreamResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XInt.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSIDCDefinition.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/FilePathToURI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/datatype/SerializedXMLGregorianCalendar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSModelGroup.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDeclHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/PrimeNumberSequenceGenerator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/ImmutableLocation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMConfigurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EndDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLPElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMRepeatingLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/NamespaceImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java

* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/AttributeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHeadElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/LSInputList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/EntityDeclarationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/URI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/html/dom/HTMLObjectElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLResourceIdentifier.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLSymbols.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLinkElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DTDDVFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/XMLEventImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XS10TypeHelper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XML11Char.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/StAXInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/SecureProcessingConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Printer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/EmptyLocation.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/events/CharactersImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/stax/XMLEventFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/util/LSInputListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/ExtendedSchemaDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xs/XSValue.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
No license file was found, but licenses were detected in source scan.

```
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements.  See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License.  You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-

jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
No license file was found, but licenses were detected in source scan.

The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0
distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_fr.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message_ja.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties
No license file was found, but licenses were detected in source scan.

/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.

* The ASF licenses this file to You under the Apache License, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Unique Particle Attribution

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java

1.81 golang-jwt 4.0.0

1.81.1 Available under license :

Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.82 binutils 2.25.51

1.82.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third

parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the

copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

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

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

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant

Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''

of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering

more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single

copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item

TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain

that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

These requirements apply to the modified work as a whole. If

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding

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

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

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

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

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

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support

that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

Copyright (C) 2012-2019 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

1.83 sysv-init 2.86-1

1.83.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent

access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED

OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Sysvinit is Copyright (C) 1991-2004 Miquel van Smoorenburg

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.84 flex 2.6.0

1.84.1 Available under license :

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

Metadata-Version: 1.1
Name: flex
Version: 2.6.0
Summary: Swagger Schema validation.
Home-page: https://github.com/pipermerriam/flex
Author: Piper Merriam
Author-email: pipermerriam@gmail.com
License: BSD
Description: # FLEX

[![Build Status](https://travis-ci.org/pipermerriam/flex.png)](https://travis-ci.org/pipermerriam/flex)
[![Documentation Status](https://readthedocs.org/projects/flex-swagger/badge/?version=latest)](https://readthedocs.org/projects/flex-swagger/?badge=latest)
[![PyPi version](https://pypip.in/v/flex/badge.png)](https://pypi.python.org/pypi/flex)
[![PyPi downloads](https://pypip.in/d/flex/badge.png)](https://pypi.python.org/pypi/flex)

Validation tooling for [Swagger 2.0](https://github.com/wordnik/swagger-spec/blob/master/versions/2.0.md) specifications.

[Documentation on ReadTheDocs](http://flex-swagger.readthedocs.org/en/latest/)

Features

* Validate swagger schemas.
* JSON Schema Validation
* Validation of request/response objects against schema.
* Command Line interface.

Keywords: rest swagger
Platform: UNKNOWN

Classifier: Development Status :: 2 - Pre-Alpha
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Natural Language :: English
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4

Found in path(s):
* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex-2.6.0-py2.7.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.

This code is made available to you under the GNU LGPL v3.

Found in path(s):
* /opt/cola/permits/1000237027_1651084378.9/0/flex-2-6-0-macosx-10-10-x86-64-tar-gz/Users/piper/python-environments/flex/lib/python2.7/site-packages/flex/compat/validate_email.py

1.85 etcd 3.4.10

1.85.1 Available under license :

Copyright (C) 2014 by Oleku Konko

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2016 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012-2015, Sergey Cherepanov
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (C) 2016 Travis Cline

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,

INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go
writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2013 Ben Johnson

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Gengo, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of Gengo, Inc. nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES

(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are

solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

THE SOFTWARE.
Copyright (c) 2011 Keith Rarick

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated
documentation files (the "Software"), to deal in the
Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute,
sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall
be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS
OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2016 Jeremy Saenz & Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright 2014 Alan Shreve

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Bjrn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0
Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
Copyright (c) 2005-2008 Dustin Sallings <dustin@spy.net>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

<http://www.opensource.org/licenses/mit-license.php>
(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2016 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [2013] [the CloudFoundry Authors]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
MIT License

Copyright (c) 2017 Blake Gentry

This license applies to the non-Windows portions of this library. The Windows portion maintains its own Apache 2.0 license.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2015 Xiang Li

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets

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

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
CoreOS Project
Copyright 2014 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.86 ipsec-tools 0.8.2

1.86.1 Available under license :

Found license 'General Public License 2.0' in '# This program is free software; you can redistribute it and/or modify # it under the terms of the GNU General Public License as published by # the Free Software Foundation; either version 2, or (at your option) # any later version. # This program is distributed in the hope that it will be useful, # but WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the # GNU General Public License for more details. # You should have received a copy of the GNU General Public License # along with this program. If not, see <http://www.gnu.org/licenses/>. # As a special exception to the GNU General Public License, if you'
Found license 'General Public License 2.0' in 'This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>. */ /* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception. This special exception was added by the Free Software Foundation in * All rights reserved. * Redistribution and use in source and binary forms, with or without * modification, are permitted provided that the following conditions * are met: * 1. Redistributions of source code must retain the above copyright * notice, this list of conditions and the following disclaimer. * 2. Redistributions in binary form must reproduce the above copyright * notice, this list of conditions and the following disclaimer in the * documentation and/or other materials provided with the distribution. * 3. Neither the name of the project nor the names of its contributors * without specific prior written permission.'
Found license 'General Public License 2.0' in 'This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>. */ /* As a special exception, you may create a larger work that contains part or all of the Bison parser skeleton and distribute that work special exception, which will cause the skeleton and the resulting Bison output files to be licensed under the GNU General Public License without this special exception. This special exception was added by the Free Software Foundation in'

1.87 at 3.1.20

1.87.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the deferred
execution scheduler called at.

This package was debianized by its author Thomas Koenig
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

In August 2015 the upstream development and Debian packaging were
taken over by Jose M Calhariz <jose@calhariz.com>

This may be considered the experimental upstream source, and since there
doesn't seem to be any other upstream source, the only upstream source.

Copyright: 1993, 1994, 1995, 1996, 1997 (c) Thomas Koenig
1993 (c) David Parsons
2002, 2005 (c) Ryan Murray

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

The files posixtm.c and posixtm.h have the following copyright information:

Copyright (C) 1989, 1990, 1991, 1998, 2000, 2001, 2002, 2003, 2004,
2005, 2006, 2007 Free Software Foundation Inc.

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

parsetime.pl:

Copyright (C) 2009, Ansgar Burchardt <ansgar@debian.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

On Debian GNU/Linux systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL'.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid

anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program

except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.88 zlib 1.2.3

1.88.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

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

*/
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.89 sysklogd 1.5.0

1.89.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This

General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains

a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but

does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to

control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals

of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.90 pkix-ssh 12.5.1

1.90.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".

[Tatu continues]
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control.  As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.

[However, none of that term is relevant at this point in time.  All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

 - RSA is no longer included, found in the OpenSSL library
 - IDEA is no longer included, its use is deprecated
 - DES is now external, in the OpenSSL library
 - GMP is no longer used, and instead we call BN code from OpenSSL
 - Zlib is now external, in a library
 - The make-ssh-known-hosts script is no longer included
 - TSS has been removed
 - MD5 is now external, in the OpenSSL library
 - RC4 support has been replaced with ARC4 support from OpenSSL
 - Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this
software are publicly available on the Internet and at any major
bookstore, scientific library, and patent office worldwide.  More
information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these
permissions and restrictions.  Use only at your own responsibility.
You will be responsible for any legal consequences yourself; I am not
making any claims whether possessing or using this is legal or not in
your country, and I am not taking any responsibility on your behalf.
```

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
```

```
* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license,
held by the University of California, since we pulled these parts from
original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard
2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson
Roumen Petrov

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
```

```
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@login.dknet.dk> wrote this file.  As long as you retain this
 * notice you can do whatever you want with this stuff. If we meet
 * some day, and you think this stuff is worth it, you can buy me a
 * beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

```
Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
```

* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *

```
* "Software"), to deal in the Software without restriction, including      *
* without limitation the rights to use, copy, modify, merge, publish,      *
* distribute, distribute with modifications, sublicense, and/or sell       *
* copies of the Software, and to permit persons to whom the Software is    *
* furnished to do so, subject to the following conditions:                 *
*                                                                           *
* The above copyright notice and this permission notice shall be included  *
* in all copies or substantial portions of the Software.                    *
*                                                                           *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS  *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF               *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.   *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,   *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR    *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR    *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE.                               *
*                                                                           *
* Except as contained in this notice, the name(s) of the above copyright   *
* holders shall not be used in advertising or otherwise to promote the     *
* sale, use or other dealings in this Software without prior written       *
* authorization.                                                            *
*****************************************************************************/
```

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

1.91 lvm2 2.02.180

1.91.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change

free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,

or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU

FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.92 libevent 2.1.8

1.92.1 Available under license :

CMake - Cross Platform Makefile Generator
Copyright 2000-2013 Kitware, Inc.
Copyright 2000-2011 Insight Software Consortium
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the names of Kitware, Inc., the Insight Software Consortium, nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above copyright and license notice applies to distributions of
CMake in source and binary form. Some source files contain additional
notices of original copyright by their contributors; see each source
for details. Third-party software packages supplied with CMake under
compatible licenses provide their own copyright notices documented in
corresponding subdirectories.

CMake was initially developed by Kitware with the following sponsorship:

* National Library of Medicine at the National Institutes of Health
  as part of the Insight Segmentation and Registration Toolkit (ITK).

* US National Labs (Los Alamos, Livermore, Sandia) ASC Parallel
  Visualization Initiative.

* National Alliance for Medical Image Computing (NAMIC) is funded by the
  National Institutes of Health through the NIH Roadmap for Medical Research,
  Grant U54 EB005149.

* Kitware, Inc.
Libevent is available for use under the following license, commonly known
as the 3-clause (or "modified") BSD license:

==========
Copyright (c) 2000-2007 Niels Provos <provos@citi.umich.edu>
Copyright (c) 2007-2012 Niels Provos and Nick Mathewson

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==========

Portions of Libevent are based on works by others, also made available by them under the three-clause BSD license above. The copyright notices are available in the corresponding source files; the license is as above. Here's a list:

log.c:
  Copyright (c) 2000 Dug Song <dugsong@monkey.org>
  Copyright (c) 1993 The Regents of the University of California.

strlcpy.c:
  Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

win32select.c:
  Copyright (c) 2003 Michael A. Davis <mike@datanerds.net>

evport.c:
  Copyright (c) 2007 Sun Microsystems

ht-internal.h:
  Copyright (c) 2002 Christopher Clark

minheap-internal.h:
  Copyright (c) 2006 Maxim Yegorushkin <maxim.yegorushkin@gmail.com>

==========

The arc4module is available under the following, sometimes called the "OpenBSD" license:

  Copyright (c) 1996, David Mazieres <dm@uun.org>
  Copyright (c) 2008, Damien Miller <djm@openbsd.org>

  Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

  THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

The Windows timer code is based on code from libutp, which is
distributed under this license, sometimes called the "MIT" license.

Copyright (c) 2010 BitTorrent, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.93 python 3.7.10

1.93.1 Available under license :

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional Conditions for this Windows binary build

This program is linked with and uses Microsoft Distributable Code, copyrighted by Microsoft Corporation. The Microsoft Distributable Code is embedded in each .exe, .dll and .pyd file as a result of running the code through a linker.

If you further distribute programs that include the Microsoft Distributable Code, you must comply with the restrictions on distribution specified by Microsoft. In particular, you must require distributors and external end users to agree to terms that protect the

Microsoft Distributable Code at least as much as Microsoft's own requirements for the Distributable Code. See Microsoft's documentation (included in its developer tools and on its website at microsoft.com) for specific details.

Redistribution of the Windows binary build of the Python interpreter complies with this agreement, provided that you do not:

- alter any copyright, trademark or patent notice in Microsoft's Distributable Code;

- use Microsoft's trademarks in your programs' names or in a way that suggests your programs come from or are endorsed by Microsoft;

- distribute Microsoft's Distributable Code to run on a platform other than Microsoft operating systems, run-time technologies or application platforms; or

- include Microsoft Distributable Code in malicious, deceptive or unlawful programs.

These restrictions apply only to the Microsoft Distributable Code as defined above, not to Python itself or any programs running on the Python interpreter. The redistribution of the Python interpreter and libraries is governed by the Python Software License included with this file, or by other licenses as marked.
X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

X Window System is a trademark of The Open Group
libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

Python software and documentation are licensed under the Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in the documentation are dual licensed under the PSF License Version 2 and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses.

The licenses are listed with code falling under that license.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the

permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS

A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE

FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2017 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This license applies to the bootstrapper application that is embedded within the installer. It has no impact on the licensing for the rest of the installer or Python itself, as no code covered by this license exists in any other part of the product.

Microsoft Reciprocal License (MS-RL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do

not accept the license, do not use the software.

1. Definitions
The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.
A "contribution" is the original software, or any additions or changes to the software.
A "contributor" is any person that distributes its contribution under this license.
"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights
(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.
(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations
(A) Reciprocal Grants- For any file you distribute that contains code from the software (in source code or binary format), you must provide recipients the source code to that file along with a copy of this license, which license will govern that file. You may license other files that are entirely your own work and do not contain code from the software under any terms you choose.
(B) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.
(C) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.
(D) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.
(E) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.
(F) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.

1.94 bzip2 1.0.6-13.el7

1.94.1 Available under license :

This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
  not claim that you wrote the original software. If you use this
  software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
  not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

1.95 ifupdown 1.0

1.95.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., <http://fsf.org/>
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively

when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you

received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software

Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

{description}
Copyright (C) {year} {fullname}

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ifupdown2
Upstream-Contact: Roopa Prabhu <roopa@cumulusnetworks.com>, Julien Fortin <julien@cumulusnetworks.com>
Source: http://www.cumulusnetworks.com

Files: *
Copyright: 2014 Cumulus Networks
License: GPL-2

Files: debian/*
Copyright: 2014 Cumulus Networks
License: GPL-2

License: GPL-2
This package is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 of the License
.
This package is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>
.
On Debian systems, the complete text of the GNU General
Public License version 2 can be found in "/usr/share/common-licenses/GPL-2".

1.96 libpcap 1.4.0

1.96.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. The names of the authors may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.97 libtirpc 0.2.5

1.97.1 Available under license :

```
/*
* Copyright (c) Copyright (c) Bull S.A.  2005  All Rights Reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
*    derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

1.98 python-pip 22.0.4

1.98.1 Available under license :

```
Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2013 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
```

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2017 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This is the MIT license

Copyright (c) 2010 ActiveState Software Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2020 Will McGugan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,

subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for

you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

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

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors
may be used to endorse or promote products derived from this software without

specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

MIT License

Copyright (c) 2021 Taneli Hukkinen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made
under the terms of *both* these licenses.
Pylons Project Contributor Agreement
==========

The submitter agrees by adding his or her name within the section below named
"Contributors" and submitting the resulting modified document to the
canonical shared repository location for this software project (whether
directly, as a user with "direct commit access", or via a "pull request"), he
or she is signing a contract electronically. The submitter becomes a
Contributor after a) he or she signs this document by adding their name
beneath the "Contributors" section below, and b) the resulting document is
accepted into the canonical version control repository.

Treatment of Account

Contributor will not allow anyone other than the Contributor to use his or her username or source repository login to submit code to a Pylons Project source repository. Should Contributor become aware of any such use, Contributor will immediately by notifying Agendaless Consulting. Notification must be performed by sending an email to webmaster@agendaless.com. Until such notice is received, Contributor will be presumed to have taken all actions made through Contributor's account. If the Contributor has direct commit access, Agendaless Consulting will have complete control and discretion over capabilities assigned to Contributor's account, and may disable Contributor's account for any reason at any time.

Legal Effect of Contribution

Upon submitting a change or new work to a Pylons Project source Repository (a "Contribution"), you agree to assign, and hereby do assign, a one-half interest of all right, title and interest in and to copyright and other intellectual property rights with respect to your new and original portions of the Contribution to Agendaless Consulting. You and Agendaless Consulting each agree that the other shall be free to exercise any and all exclusive rights in and to the Contribution, without accounting to one another, including without limitation, the right to license the Contribution to others under the Repoze Public License. This agreement shall run with title to the Contribution. Agendaless Consulting does not convey to you any right, title or interest in or to the Program or such portions of the Contribution that were taken from the Program. Your transmission of a submission to the Pylons Project source Repository and marks of identification concerning the Contribution itself constitute your intent to contribute and your assignment of the work in accordance with the provisions of this Agreement.

License Terms

Code committed to the Pylons Project source repository (Committed Code) must be governed by the Repoze Public License (http://repoze.org/LICENSE.txt, aka "the RPL") or another license acceptable to Agendaless Consulting. Until Agendaless Consulting declares in writing an acceptable license other than the RPL, only the RPL shall be used. A list of exceptions is detailed within the "Licensing Exceptions" section of this document, if one exists.

Representations, Warranty, and Indemnification

Contributor represents and warrants that the Committed Code does not violate the rights of any person or entity, and that the Contributor has legal authority to enter into this Agreement and legal authority over Contributed Code. Further, Contributor indemnifies Agendaless Consulting against

violations.

Cryptography

Contributor understands that cryptographic code may be subject to government regulations with which Agendaless Consulting and/or entities using Committed Code must comply. Any code which contains any of the items listed below must not be checked-in until Agendaless Consulting staff has been notified and has approved such contribution in writing.

- Cryptographic capabilities or features

- Calls to cryptographic features

- User interface elements which provide context relating to cryptography

- Code which may, under casual inspection, appear to be cryptographic.

Notices

Contributor confirms that any notices required will be included in any Committed Code.

Licensing Exceptions
==========

None.

List of Contributors
==========

The below-signed are contributors to a code repository that is part of the project named "Translationstring". Each below-signed contributor has read, understands and agrees to the terms above in the section within this document entitled "Pylons Project Contributor Agreement" as of the date beside his or her name.

Contributors

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
the GPL. All Python licenses, unlike the GPL, let you distribute
a modified version without making your changes open source. The
GPL-compatible licenses make it possible to combine Python with
other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010
Python Software Foundation; All Rights Reserved" are retained in Python alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY

DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on

or incorporates Python 1.6.1 or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS"
basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. This License Agreement shall be governed by the federal
intellectual property law of the United States, including without
limitation the federal copyright law, and, to the extent such
U.S. federal law does not apply, by the law of the Commonwealth of
Virginia, excluding Virginia's conflict of law provisions.
Notwithstanding the foregoing, with regard to derivative works based
on Python 1.6.1 that incorporate non-separable material that was
previously distributed under the GNU General Public License (GPL), the
law of the Commonwealth of Virginia shall govern this License
Agreement only as to issues arising under or with respect to
Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this
License Agreement shall be deemed to create any relationship of
agency, partnership, or joint venture between CNRI and Licensee. This
License Agreement does not grant permission to use CNRI trademarks or
trade name in a trademark sense to endorse or promote products or
services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,
installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,

The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1

is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing and
otherwise using this software ("Python") in source or binary form and
its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby
grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,
analyze, test, perform and/or display publicly, prepare derivative works,
distribute, and otherwise use Python alone or in any derivative version,
provided, however, that PSF's License Agreement and PSF's notice of copyright,
i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010
Python Software Foundation; All Rights Reserved" are retained in Python alone or
in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any

relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture

between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS

FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior

permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

Contributors

==========

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff
* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Philip Jenvey
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
* Tarek Ziad
* Toshio Kuratomi

If you think you name is missing, please add it (alpha order by first name)

A. HISTORY OF THE SOFTWARE

==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the

permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS

A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE

FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

License

A copyright notice accompanies this license document that identifies the copyright holders.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the accompanying copyright notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the accompanying copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission from the copyright holders.

4. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

Disclaimer

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Georgios Verigakis <verigak@gmail.com>
#
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
#
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.
Copyright (c) 2006-2021 by the respective authors (see AUTHORS file).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========

Contributors

==========

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Dirley Rodrigues
* Donald Stufft
* Grigory Petrov
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff
* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Phillip J. Eby
* Philip Jenvey
* Philip Thiem
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
* Tarek Ziad
* Toshio Kuratomi

If you think you name is missing, please add it (alpha order by first name)

Copyright (c) 2011 Agendaless Consulting and Contributors.
(http://www.agendaless.com), All Rights Reserved
MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2012-2021 Eric Larson

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2008-present The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Copyright (c) 2008-2013 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License for Bundle of CA Root Certificates (pip/cacert.pem)
==========

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.99 packaging 21.3

1.99.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.100 racoon 0.8.2

1.100.1 Available under license :

/* $NetBSD: crypto_openssl.h,v 1.7 2009/08/17 11:59:10 vanhu Exp $ */

/* Id: crypto_openssl.h,v 1.11 2004/11/13 11:28:01 manubsd Exp */

/*
* Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the project nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.101 queue 1.1.0

1.101.1 Available under license :

University of Illinois/NCSA Open Source License

Copyright (c) 2018 University of Illinois Urbana-Champaign

All rights reserved.

Developed by: University of Illinois Urbana-Champaign students and faculty

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the

rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.
* Neither the names of University of Illinois Urbana-Champaign, nor the names of its contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

1.102 libxcrypt 4.4.36

1.102.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.103 go-cleanhttp 0.5.2

1.103.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant,

then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from

such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.104 u-boot 2010.03

1.104.1 Available under license :

The files in this directory and elsewhere which refer to this LICENCE file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 or (at your option) any later version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along

with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
NOTE! This copyright does *not* cover the so-called "standalone"
applications that use U-Boot services by means of the jump table
provided by U-Boot exactly for this purpose - this is merely
considered normal use of U-Boot, and does *not* fall under the
heading of "derived work".

The header files "include/image.h" and "include/asm-*/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".

Also note that the GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (the U-Boot
source code) is copyrighted by me and others who actually wrote it.
-- Wolfgang Denk

==========

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

License

LZMA SDK is placed in the public domain.

1.105 kubernetes-client 0.24.0

1.105.1 Available under license :

MIT License

Copyright (c) 2020 Marc Lough

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.106 python 2.7.2

1.106.1 Available under license :

PSF LICENSE AGREEMENT FOR PYTHON 2.7.2

This LICENSE AGREEMENT is between the Python Software Foundation (PSF), and the Individual or Organization (Licensee) accessing and otherwise using Python 2.7.2 software in source or binary form and its associated documentation.

Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 2.7.2 alone or in any derivative version, provided, however, that PSFs License Agreement and PSFs notice of copyright, i.e., Copyright 2001-2012 Python Software Foundation; All Rights Reserved are retained in Python 2.7.2 alone or in any derivative version prepared by Licensee.

In the event Licensee prepares a derivative work that is based on or incorporates Python 2.7.2 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 2.7.2.

PSF is making Python 2.7.2 available to Licensee on an AS IS basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 2.7.2 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.2 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.2, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

This License Agreement will automatically terminate upon a material breach of its terms and conditions.

Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

By copying, installing or otherwise using Python 2.7.2, Licensee agrees to be bound by the terms and conditions of this License Agreement.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then

Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative

version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying,

installing or otherwise using Python 1.6.1, Licensee agrees to be
bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.107 curl 7.74.0

1.107.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2020, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN
NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,

DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

1.108 go-rootcerts 1.0.2

1.108.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this

License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the

Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of

this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software,

or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.109 boringssl 0.12.0.0

1.109.1 Available under license :

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL licensing. Files that are completely new have a Google copyright and an ISC license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:

https://cla.developers.google.com/clas

Files in third_party/ have their own licenses, as described therein. The MIT license, for third_party/fiat, which, unlike other third_party directories, is compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from some authors is recorded for use of their work. (This is purely for our own record keeping.)
27287199
27287880
27287883
263291445

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
```

```
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
```

* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* "This product includes cryptographic software written by
* Eric Young (eay@cryptsoft.com)"
* The word 'cryptographic' can be left out if the rouines from the library
* being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
* the apps directory (application code) you must include an acknowledgement:
* "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above

* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */

The code in third_party/fiat carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Licenses for support code

Parts of the TLS test suite are under the Go license. This code is not included
in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so
distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BoringSSL uses the Chromium test infrastructure to run a continuous build, trybots etc. The scripts which manage this, and the script for generating build metadata, are under the Chromium license. Distributing code linked against BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2015-2020 the fiat-crypto authors (see https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all

copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Bharat Mediratta <bharat@menalto.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Eric Roman <eroman@chromium.org>
Hady Zalek <hady.zalek@gmail.com>
Jeffrey Yasskin <jyasskin@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Krystian Kuzniarek <krystian.kuzniarek@gmail.com>
Manuel Klimek <klimek@google.com>
Markus Heule <markus.heule@gmail.com>
Mika Raento <mikie@iki.fi>
Mikls Fazekas <mfazekas@szemafor.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>
Peter Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Zhanyong Wan <wan@google.com>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.110 gdb 8.2

1.110.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program---to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The

systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item
If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work,

and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be

on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions'' are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

@enumerate a
@item
Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

@item
Requiring preservation of specified reasonable legal notices or author

attributions in that material or in the Appropriate Legal Notices
displayed by works containing it; or

@item
Prohibiting misrepresentation of the origin of that material, or
requiring that modified versions of such material be marked in
reasonable ways as different from the original version; or

@item
Limiting the use for publicity purposes of names of licensors or
authors of the material; or

@item
Declining to grant rights under trademark law for use of some trade
names, trademarks, or service marks; or

@item
Requiring indemnification of licensors and authors of that material by
anyone who conveys the material (or modified versions of it) with
contractual assumptions of liability to the recipient, for any
liability that these contractual assumptions directly impose on those
licensors and authors.
@end enumerate

All other non-permissive additional terms are considered ``further
restrictions'' within the meaning of section 10. If the Program as you
received it, or any part of it, contains a notice stating that it is
governed by this License along with a term that is a further
restriction, you may remove that term. If a license document contains
a further restriction but permits relicensing or conveying under this
License, you may add to a covered work material governed by the terms
of that license document, provided that the further restriction does
not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you
must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions; the
above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An ``entity transaction'' is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A ``contributor'' is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's ``contributor version''.

A contributor's ``essential patent claims'' are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, ``control'' includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a ``patent license'' is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To ``grant'' such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. ``Knowingly relying'' means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is ``discriminatory'' if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have

permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a ``copyright disclaimer'' for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your
program into proprietary programs. If your program is a subroutine
library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c man end

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary

GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and

"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in

part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in

formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present

the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities

responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve

the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not

apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco,

California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these

rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and

conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is

safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/* Native-dependent code for modern AMD64 BSD's.

Copyright (C) 2018 Free Software Foundation, Inc.

This file is part of GDB.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

```
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef AMD64_BSD_NAT_H
#define AMD64_BSD_NAT_H

#include "x86-bsd-nat.h"

/* Helper functions.  See definitions.  */
extern void amd64bsd_fetch_inferior_registers (struct regcache *regcache,
          int regnum);
extern void amd64bsd_store_inferior_registers (struct regcache *regcache,
          int regnum);

/* A prototype *BSD/AMD64 target.  */

template<typename BaseTarget>
class amd64_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { amd64bsd_store_inferior_registers (regcache, regnum); }
};

#endif /* i386-bsd-nat.h */
BEGIN {
  FS="\"";
  print "/* ==> Do not modify this file!!  " \
  "-*- buffer-read-only: t -*- vi" \
  ":set ro:";
  print "   It is created automatically by copying.awk.";
  print "   Modify copying.awk instead.  <== */";
  print ""
  print "#include \"defs.h\""
  print "#include \"command.h\""
  print "#include \"gdbcmd.h\""
  print ""
  print "static void show_copying_command (const char *, int);"
  print ""
  print "static void show_warranty_command (const char *, int);"
  print ""
  print "static void";
  print "show_copying_command (const char *ignore, int from_tty)";
```

```
  print "{";
 }
NR == 1,/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  if ($0 ~ //)
    {
      printf "  printf_filtered (\"\\n\");\n";
    }
  else if ($0 !~ /^[  ]*15\. Disclaimer of Warranty\.[  ]*$/)
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
 printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/ {
  print "}";
  print "";
  print "static void";
  print "show_warranty_command (const char *ignore, int from_tty)";
  print "{";
 }
/^[  ]*15\. Disclaimer of Warranty\.[  ]*$/, /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/{
  if (! ($0 ~ /^[  ]*END OF TERMS AND CONDITIONS[  ]*$/))
    {
      printf "  printf_filtered (\"";
      for (i = 1; i < NF; i++)
 printf "%s\\\"", $i;
      printf "%s\\n\");\n", $NF;
    }
 }
END {
  print "}";
  print "";
  print "void"
  print "_initialize_copying (void)";
  print "{";
  print "  add_cmd (\"copying\", no_set_class, show_copying_command,";
  print "    _(\"Conditions for redistributing copies of GDB.\"),";
  print "    &showlist);";
  print "  add_cmd (\"warranty\", no_set_class, show_warranty_command,";
  print "    _(\"Various kinds of warranty you do not have.\"),";
  print "    &showlist);";
  print "";
  print "  /* For old-timers, allow \"info copying\", etc.  */";
  print "  add_info (\"copying\", show_copying_command,";
  print "     _(\"Conditions for redistributing copies of GDB.\"));";
  print "  add_info (\"warranty\", show_warranty_command,";
```

```
  print "     _(\"Various kinds of warranty you do not have.\"));";
  print "}";
 }
/* BSD Kernel Data Access Library (libkvm) interface.

  Copyright (C) 2004-2018 Free Software Foundation, Inc.

  This file is part of GDB.

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#define _KMEMUSER
#include "defs.h"
#include "cli/cli-cmds.h"
#include "command.h"
#include "frame.h"
#include "regcache.h"
#include "target.h"
#include "value.h"
#include "gdbcore.h"  /* for get_exec_file */
#include "gdbthread.h"

#include <fcntl.h>
#include <kvm.h>
#ifdef HAVE_NLIST_H
#include <nlist.h>
#endif
#include <paths.h>
#include "readline/readline.h"
#include <sys/param.h>
#include <sys/proc.h>
#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#include "bsd-kvm.h"
```

```
/* Kernel memory device file.  */
static const char *bsd_kvm_corefile;

/* Kernel memory interface descriptor.  */
static kvm_t *core_kd;

/* Address of process control block.  */
static struct pcb *bsd_kvm_paddr;

/* Pointer to architecture-specific function that reconstructs the
  register state from PCB and supplies it to REGCACHE.  */
static int (*bsd_kvm_supply_pcb)(struct regcache *regcache, struct pcb *pcb);

/* This is the ptid we use while we're connected to kvm.  The kvm
  target currently doesn't export any view of the running processes,
  so this represents the kernel task.  */
static ptid_t bsd_kvm_ptid;

/* The libkvm target.  */

static const target_info bsd_kvm_target_info = {
 "kvm",
 N_("Kernel memory interface"),
 N_("Use a kernel virtual memory image as a target.\n\
Optionally specify the filename of a core dump.")
};

class bsd_kvm_target final : public target_ops
{
public:
 bsd_kvm_target ()
 { this->to_stratum = process_stratum; }

 const target_info &info () const override
 { return bsd_kvm_target_info; }

 void close () override;

 void fetch_registers (struct regcache *, int) override;
 enum target_xfer_status xfer_partial (enum target_object object,
     const char *annex,
     gdb_byte *readbuf,
     const gdb_byte *writebuf,
     ULONGEST offset, ULONGEST len,
     ULONGEST *xfered_len) override;

 void files_info () override;
 bool thread_alive (ptid_t ptid) override;
```

```
 const char *pid_to_str (ptid_t) override;

 bool has_memory () override { return true; }
 bool has_stack () override { return true; }
 bool has_registers () override { return true; }
};

/* Target ops for libkvm interface.  */
static bsd_kvm_target bsd_kvm_ops;

static void
bsd_kvm_target_open (const char *arg, int from_tty)
{
 char errbuf[_POSIX2_LINE_MAX];
 char *execfile = NULL;
 kvm_t *temp_kd;
 char *filename = NULL;

 target_preopen (from_tty);

 if (arg)
   {
     char *temp;

     filename = tilde_expand (arg);
     if (filename[0] != '/')
 {
   temp = concat (current_directory, "/", filename, (char *)NULL);
   xfree (filename);
   filename = temp;
 }
   }

 execfile = get_exec_file (0);
 temp_kd = kvm_openfiles (execfile, filename, NULL,
      write_files ? O_RDWR : O_RDONLY, errbuf);
 if (temp_kd == NULL)
   error (("%s"), errbuf);

 bsd_kvm_corefile = filename;
 unpush_target (&bsd_kvm_ops);
 core_kd = temp_kd;
 push_target (&bsd_kvm_ops);

 add_thread_silent (bsd_kvm_ptid);
 inferior_ptid = bsd_kvm_ptid;

 target_fetch_registers (get_current_regcache (), -1);
```

```
 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

void
bsd_kvm_target::close ()
{
 if (core_kd)
   {
     if (kvm_close (core_kd) == -1)
 warning (("%s"), kvm_geterr(core_kd));
     core_kd = NULL;
   }

 inferior_ptid = null_ptid;
 discard_all_inferiors ();
}

static LONGEST
bsd_kvm_xfer_memory (CORE_ADDR addr, ULONGEST len,
       gdb_byte *readbuf, const gdb_byte *writebuf)
{
 ssize_t nbytes = len;

 if (readbuf)
   nbytes = kvm_read (core_kd, addr, readbuf, nbytes);
 if (writebuf && nbytes > 0)
   nbytes = kvm_write (core_kd, addr, writebuf, nbytes);
 return nbytes;
}

enum target_xfer_status
bsd_kvm_target::xfer_partial (enum target_object object,
         const char *annex, gdb_byte *readbuf,
         const gdb_byte *writebuf,
         ULONGEST offset, ULONGEST len, ULONGEST *xfered_len)
{
 switch (object)
   {
   case TARGET_OBJECT_MEMORY:
     {
 LONGEST ret = bsd_kvm_xfer_memory (offset, len, readbuf, writebuf);

 if (ret < 0)
   return TARGET_XFER_E_IO;
 else if (ret == 0)
   return TARGET_XFER_EOF;
```

```
 else
   {
     *xfered_len = (ULONGEST) ret;
     return TARGET_XFER_OK;
   }
     }

   default:
     return TARGET_XFER_E_IO;
   }
}

void
bsd_kvm_target::files_info ()
{
 if (bsd_kvm_corefile && strcmp (bsd_kvm_corefile, _PATH_MEM) != 0)
   printf_filtered (_("\tUsing the kernel crash dump %s.\n"),
       bsd_kvm_corefile);
 else
   printf_filtered (_("\tUsing the currently running kernel.\n"));
}

/* Fetch process control block at address PADDR.  */

static int
bsd_kvm_fetch_pcb (struct regcache *regcache, struct pcb *paddr)
{
 struct pcb pcb;

 if (kvm_read (core_kd, (unsigned long) paddr, &pcb, sizeof pcb) == -1)
   error (("%s"), kvm_geterr (core_kd));

 gdb_assert (bsd_kvm_supply_pcb);
 return bsd_kvm_supply_pcb (regcache, &pcb);
}

void
bsd_kvm_target::fetch_registers (struct regcache *regcache, int regnum)
{
 struct nlist nl[2];

 if (bsd_kvm_paddr)
   {
     bsd_kvm_fetch_pcb (regcache, bsd_kvm_paddr);
     return;
   }

 /* On dumping core, BSD kernels store the faulting context (PCB)
```

```
   in the variable "dumppcb".  */
 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_dumppcb";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     /* Found dumppcb.  If it contains a valid context, return
  immediately.  */
     if (bsd_kvm_fetch_pcb (regcache, (struct pcb *) nl[0].n_value))
 return;
   }

 /* Traditional BSD kernels have a process proc0 that should always
    be present.  The address of proc0's PCB is stored in the variable
    "proc0paddr".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_proc0paddr";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));

 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found proc0paddr.  */
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }

#ifdef HAVE_STRUCT_THREAD_TD_PCB
 /* In FreeBSD kernels for 5.0-RELEASE and later, the PCB no longer
    lives in `struct proc' but in `struct thread'.  The `struct
    thread' for the initial thread for proc0 can be found in the
    variable "thread0".  */

 memset (nl, 0, sizeof nl);
 nl[0].n_name = "_thread0";

 if (kvm_nlist (core_kd, nl) == -1)
   error (("%s"), kvm_geterr (core_kd));
```

```
 if (nl[0].n_value != 0)
   {
     struct pcb *paddr;

     /* Found thread0.  */
     nl[0].n_value += offsetof (struct thread, td_pcb);
     if (kvm_read (core_kd, nl[0].n_value, &paddr, sizeof paddr) == -1)
 error (("%s"), kvm_geterr (core_kd));

     bsd_kvm_fetch_pcb (regcache, paddr);
     return;
   }
#endif

 /* i18n: PCB == "Process Control Block".  */
 error (_("Cannot find a valid PCB"));
}


/* Kernel memory interface commands.  */
struct cmd_list_element *bsd_kvm_cmdlist;

static void
bsd_kvm_cmd (const char *arg, int fromtty)
{
 /* ??? Should this become an alias for "target kvm"?  */
}

#ifndef HAVE_STRUCT_THREAD_TD_PCB

static void
bsd_kvm_proc_cmd (const char *arg, int fromtty)
{
 CORE_ADDR addr;

 if (arg == NULL)
   error_no_arg (_("proc address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 addr = parse_and_eval_address (arg);
#ifdef HAVE_STRUCT_LWP
 addr += offsetof (struct lwp, l_addr);
#else
 addr += offsetof (struct proc, p_addr);
#endif
```

```
 if (kvm_read (core_kd, addr, &bsd_kvm_paddr, sizeof bsd_kvm_paddr) == -1)
   error (("%s"), kvm_geterr (core_kd));

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

#endif

static void
bsd_kvm_pcb_cmd (const char *arg, int fromtty)
{
 if (arg == NULL)
   /* i18n: PCB == "Process Control Block".  */
   error_no_arg (_("pcb address"));

 if (core_kd == NULL)
   error (_("No kernel memory image."));

 bsd_kvm_paddr = (struct pcb *)(u_long) parse_and_eval_address (arg);

 target_fetch_registers (get_current_regcache (), -1);

 reinit_frame_cache ();
 print_stack_frame (get_selected_frame (NULL), 0, SRC_AND_LOC, 1);
}

bool
bsd_kvm_target::thread_alive (ptid_t ptid)
{
 return true;
}

const char *
bsd_kvm_target::pid_to_str (ptid_t ptid)
{
 static char buf[64];
 xsnprintf (buf, sizeof buf, "<kvm>");
 return buf;
}

/* Add the libkvm interface to the list of all possible targets and
   register CUPPLY_PCB as the architecture-specific process control
   block interpreter.  */
```

```
void
bsd_kvm_add_target (int (*supply_pcb)(struct regcache *, struct pcb *))
{
 gdb_assert (bsd_kvm_supply_pcb == NULL);
 bsd_kvm_supply_pcb = supply_pcb;

 add_target (bsd_kvm_target_info, bsd_kvm_target_open);

 add_prefix_cmd ("kvm", class_obscure, bsd_kvm_cmd, _("\
Generic command for manipulating the kernel memory interface."),
    &bsd_kvm_cmdlist, "kvm ", 0, &cmdlist);

#ifndef HAVE_STRUCT_THREAD_TD_PCB
 add_cmd ("proc", class_obscure, bsd_kvm_proc_cmd,
    _("Set current context from proc address"), &bsd_kvm_cmdlist);
#endif
 add_cmd ("pcb", class_obscure, bsd_kvm_pcb_cmd,
    /* i18n: PCB == "Process Control Block".  */
    _("Set current context from pcb address"), &bsd_kvm_cmdlist);

 /* Some notes on the ptid usage on this target.

    The pid field represents the kvm inferior instance.  Currently,
    we don't support multiple kvm inferiors, but we start at 1
    anyway.  The lwp field is set to != 0, in case the core wants to
    refer to the whole kvm inferior with ptid(1,0,0).

    If kvm is made to export running processes as gdb threads,
    the following form can be used:
    ptid (1, 1, 0) -> kvm inferior 1, in kernel
    ptid (1, 1, 1) -> kvm inferior 1, process 1
    ptid (1, 1, 2) -> kvm inferior 1, process 2
    ptid (1, 1, n) -> kvm inferior 1, process n  */

 bsd_kvm_ptid = ptid_t (1, 1, 0);
}
/* Native-dependent code for x86 BSD's.

  Copyright (C) 2011-2018 Free Software Foundation, Inc.

  This file is part of GDB.

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
```

```
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef X86_BSD_NAT_H
#define X86_BSD_NAT_H

#include "x86-nat.h"

/* Low level x86 XSAVE info.  */
extern size_t x86bsd_xsave_len;

/* A prototype *BSD/x86 target.  */

template<typename BaseTarget>
class x86bsd_nat_target : public x86_nat_target<BaseTarget>
{
 using base_class = x86_nat_target<BaseTarget>;
public:
#ifdef HAVE_PT_GETDBREGS
 void mourn_inferior () override
 {
   x86_cleanup_dregs ();
   base_class::mourn_inferior ();
 }
#endif /* HAVE_PT_GETDBREGS */
};

#endif /* x86-bsd-nat.h */
```

GNU LESSER GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU

General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version

of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but

which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid

circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for

the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are

specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General

Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

```
 The GNU General Public License does not permit incorporating your program
into proprietary programs.  If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
/* Native-dependent code for modern i386 BSD's.

  Copyright (C) 2004-2018 Free Software Foundation, Inc.

  This file is part of GDB.

  This program is free software; you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation; either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#ifndef I386_BSD_NAT_H
#define I386_BSD_NAT_H

/* Helper functions.  See definitions.  */
extern void i386bsd_fetch_inferior_registers (struct regcache *regcache,
        int regnum);
extern void i386bsd_store_inferior_registers (struct regcache *regcache,
        int regnum);

/* A prototype *BSD/i386 target.  */

template<typename BaseTarget>
class i386_bsd_nat_target : public x86bsd_nat_target<BaseTarget>
{
public:
 void fetch_registers (struct regcache *regcache, int regnum) override
 { i386bsd_fetch_inferior_registers (regcache, regnum); }

 void store_registers (struct regcache *regcache, int regnum) override
 { i386bsd_store_inferior_registers (regcache, regnum); }
};
```

#endif /* i386-bsd-nat.h */

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only
works together with the library.

Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which
contains a notice placed by the copyright holder or other authorized
party saying it may be distributed under the terms of this Library
General Public License (also called "this License"). Each licensee is
addressed as "you".

A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

13. The Free Software Foundation may publish revised and/or new
versions of the Library General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

```
#! /usr/bin/env python

# Copyright (C) 2011-2018 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3 of the License, or
# (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <http://www.gnu.org/licenses/>.

"""copyright.py

This script updates the list of years in the copyright notices in
most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
  % filterdiff -x \*.c -x \*.cc -x \*.h -x \*.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.
"""

import datetime
import os
import os.path
import subprocess


def get_update_list():
  """Return the list of files to update.

  Assumes that the current working directory when called is the root
  of the GDB source tree (NOT the gdb/ subdirectory!).  The names of
  the files are relative to that root directory.
  """
```

```
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
            for filename in files:
                relpath = "%s/%s" % (root, filename)
                if (filename in EXCLUDE_ALL_LIST
                    or relpath in EXCLUDE_LIST
                    or relpath in NOT_FSF_LIST
                    or relpath in BY_HAND):
                    # Ignore this file.
                    pass
                else:
                    result.append(relpath)
    return result


def update_files(update_list):
    """Update the copyright header of the files in the given list.

    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list

    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.STDOUT)
    update_out = p.communicate()[0]

    # Process the output.  Typically, a lot of files do not have
    # a copyright notice :-(.  The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one.  For the files that are found not to have one, we filter
```

```
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith('\n'):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
            if may_have_copyright_notice(filename):
                print line
        else:
            # Unrecognized file format. !?!
            print "*** " + line


def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorigthm is fairly crude, meaning that it might return
    some false positives.  I do not think it will return any false
    negatives...  We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False
```

```
def main ():
  """The main subprogram."""
  if not os.path.isfile("gnulib/import/extra/update-copyright"):
     print "Error: This script must be called from the gdb directory."
  root_dir = os.path.dirname(os.getcwd())
  os.chdir(root_dir)

  update_list = get_update_list()
  update_files (update_list)

  # Remind the user that some files need to be updated by HAND...

  if MULTIPLE_COPYRIGHT_HEADERS:
     print
     print("\033[31m"
          "REMINDER: Multiple copyright headers must be updated by hand:"
          "\033[0m")
     for filename in MULTIPLE_COPYRIGHT_HEADERS:
        print "  ", filename

  if BY_HAND:
     print
     print "\033[31mREMINDER: The following files must be updated by hand." \
          "\033[0m"
     for filename in BY_HAND:
        print "  ", filename

################################################################################
#
# Some constants, placed at the end because they take up a lot of room.
# The actual value of these constants is not significant to the understanding
# of the script.
#
################################################################################

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
# or test cases which must be sensitive to line numbering).
#
# Filenames are relative to the root directory.
EXCLUDE_LIST = (
  'gdb/nat/glibc_thread_db.h',
  'gdb/CONTRIBUTE',
  'gdb/gnulib/import'
)

# Files which should not be modified, either because they are
# generated, non-FSF, or otherwise special (e.g. license text,
```

```
# or test cases which must be sensitive to line numbering).
#
# Matches any file or directory name anywhere.  Use with caution.
# This is mostly for files that can be found in multiple directories.
# Eg: We want all files named COPYING to be left untouched.

EXCLUDE_ALL_LIST = (
   "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",
   "fdl.texi", "gpl.texi", "aclocal.m4",
)

# The list of files to update by hand.
BY_HAND = (
   # Nothing at the moment :-).
)

# Files containing multiple copyright headers.  This script is only
# fixing the first one it finds, so we need to finish the update
# by hand.
MULTIPLE_COPYRIGHT_HEADERS = (
   "gdb/doc/gdb.texinfo",
   "gdb/doc/refcard.tex",
   "gdb/gdbarch.sh",
)

# The list of file which have a copyright, but not head by the FSF.
# Filenames are relative to the root directory.
NOT_FSF_LIST = (
   "gdb/exc_request.defs",
   "gdb/gdbtk",
   "gdb/testsuite/gdb.gdbtk/",
   "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
   "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
   "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
   "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
   "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
   "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
   "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
   "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
   "sim/arm/arminit.c",
   "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
   "sim/common/cgen-accfp.c",
   "sim/mips/m16run.c", "sim/mips/sim-main.c",
   "sim/moxie/moxie-gdb.dts",
   # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
   "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
   "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
   "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
```

```
  "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
  "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
  "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
  "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
  "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
  "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
  "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
  "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
  "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
  "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
  "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
  "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
  "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
  "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
  "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
  "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
  "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c",
  "sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
  "sim/ppc/bits.c", "sim/ppc/idecode_fields.h", "sim/ppc/hw_memory.c",
  "sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
  "sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
  "sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
  "sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
  "sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
  "sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
  "sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-icache.c",
  "sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
  "sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
  "sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
  "sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
  "sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
  "sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
  "sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
  "sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h",
  "sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
  "sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
  "sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
  "sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
  "sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
  "sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
  "sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

if __name__ == "__main__":
  main()
```

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization

obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.111 gcache 0.0.1

1.111.1 Available under license :

The MIT License (MIT)

Copyright (c) 2017 Jun Kimura

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.112 jcommon 0.7.2

1.112.1 Available under license :

.
nameLjava/lang/String;email<init>'(Ljava/lang/String;Ljava/lang/String;)VCodegetName()Ljava/lang/String;getEmail "com/jrefinery/ui/about/Contributorjava/lang/Object()V!
**+*,
*
*
.

GPLLjava/lang/String;
ConstantValueLGPL<init>()VCode
com/jrefinery/ui/about/Licencesjava/lang/ObjectDGNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, MA 02139, USA. Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from

the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives

a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE

STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
eSGNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the

library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

* a) The modified work must itself be a software library.
* b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
* c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
* d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

* a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
* b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
* c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
* d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
* e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library

together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

* a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
* b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
!
*

1.113 readline 4.1

1.113.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.114 mergo 0.3.8

1.114.1 Available under license :

Copyright (c) 2013 Dario Casta. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.115 dc 1.06

1.115.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that

there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in

non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for

writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.116 mtd-utils 1.5.1

1.116.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below,

refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.117 liblinear 2.3.0

1.117.1 Available under license :

Copyright (c) 2007-2019 The LIBLINEAR Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither name of copyright holders nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.118 visual-studio-runtime 14.00.24210.0

1.118.1 Available under license :

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates components from the projects listed below. The original copyright notices and the licenses under which Microsoft received such components are set forth below. Microsoft reserves all rights not expressly granted
herein, whether by implication, estoppel or otherwise.

%% winjs version 4.4.0 (https://github.com/winjs/winjs)
==========
WinJS

Copyright (c) Microsoft Corporation

All rights reserved.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ""Software""), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED *AS IS*, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========
END OF winjs NOTICES AND INFORMATION

%% string_scorer version 0.1.20 (https://github.com/joshaven/string_score)
==========
This software is released under the MIT license:

Copyright (c) Joshaven Potter

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF string_scorer NOTICES AND INFORMATION

%% chjj-marked NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
==========
END OF chjj-marked NOTICES AND INFORMATION

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
For Microsoft vscode-theme-seti

This file is based on or incorporates material from the projects listed below ("Third Party OSS"). The original copyright
notice and the license under which Microsoft received such Third Party OSS, are set forth below. Such licenses and notice
are provided for informational purposes only. Microsoft licenses the Third Party OSS to you under the licensing terms for
the Microsoft product or service. Microsoft reserves all other rights not expressly granted under this agreement, whether
by implication, estoppel or otherwise.

1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

Copyright (c) 2014 Jesse Weed

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Monarch definition & snippets:

The MIT License (MIT)

Copyright (c) 2015 David Owens II

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Text mate grammar:

Copyright (c) 2014 Darin Morrison

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2016 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2015 - present Microsoft Corporation

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
microsoft-vscode

THIRD-PARTY SOFTWARE NOTICES AND INFORMATION
Do Not Translate or Localize

This project incorporates components from the projects listed below. The original copyright notices and the licenses under which Microsoft received such components are set forth below. Microsoft reserves all rights not expressly granted herein, whether by implication, estoppel or otherwise.

1. atom/language-c (https://github.com/atom/language-c)
2. atom/language-clojure (https://github.com/atom/language-clojure)
3. atom/language-coffee-script (https://github.com/atom/language-coffee-script)
4. atom/language-css (https://github.com/atom/language-css)
5. atom/language-java (https://github.com/atom/language-java)
6. atom/language-objective-c (https://github.com/atom/language-objective-c)
7. atom/language-sass version 0.52.0 (https://github.com/atom/language-sass)
8. atom/language-xml (https://github.com/atom/language-xml)
9. Benvie/JavaScriptNext.tmLanguage (https://github.com/Benvie/JavaScriptNext.tmLanguage)
10. chjj-marked version 0.3.6 (https://github.com/npmcomponent/chjj-marked)
11. chriskempson/tomorrow-theme (https://github.com/chriskempson/tomorrow-theme)

12. Colorsublime-Themes version 0.1.0 (https://github.com/Colorsublime/Colorsublime-Themes)
13. daaain/Handlebars (https://github.com/daaain/Handlebars)
14. davidrios/jade-tmbundle (https://github.com/davidrios/jade-tmbundle)
15. definitelytyped (https://github.com/DefinitelyTyped/DefinitelyTyped)
16. demyte/language-cshtml (https://github.com/demyte/language-cshtml)
17. dotnet/csharp-tmLanguage version 0.1.0 (https://github.com/dotnet/csharp-tmLanguage)
18. freebroccolo/atom-language-swift (https://github.com/freebroccolo/atom-language-swift)
19. HTML 5.1 W3C Working Draft version 08 October 2015 (http://www.w3.org/TR/2015/WD-html51-20151008/)
20. Ionic documentation version 1.2.4 (https://github.com/ionic-team/ionic-site)
21. ionide/ionide-fsgrammar (https://github.com/ionide/ionide-fsgrammar)
22. js-beautify version 1.6.8 (https://github.com/beautify-web/js-beautify)
23. Jxck/assert version 1.0.0 (https://github.com/Jxck/assert)
24. language-docker (https://github.com/moby/moby)
25. language-go version 0.39.0 (https://github.com/atom/language-go)
26. language-less (https://github.com/atom/language-less)
27. language-php (https://github.com/atom/language-php)
28. language-rust version 0.4.9 (https://github.com/zargony/atom-language-rust)
29. MagicStack/MagicPython (https://github.com/MagicStack/MagicPython)
30. Microsoft/TypeScript-TmLanguage version 0.0.1 (https://github.com/Microsoft/TypeScript-TmLanguage)
31. octicons-code version 3.1.0 (https://octicons.github.com)
32. octicons-font version 3.1.0 (https://octicons.github.com)
33. seti-ui version 0.1.0 (https://github.com/jesseweed/seti-ui)
34. shaders-tmLanguage version 0.1.0 (https://github.com/tgjones/shaders-tmLanguage)
35. string_scorer version 0.1.20 (https://github.com/joshaven/string_score)
36. sublimehq/Packages (https://github.com/sublimehq/Packages)
37. SublimeText/PowerShell (https://github.com/SublimeText/PowerShell)
38. textmate/asp.vb.net.tmbundle (https://github.com/textmate/asp.vb.net.tmbundle)
39. textmate/c.tmbundle (https://github.com/textmate/c.tmbundle)
40. textmate/diff.tmbundle (https://github.com/textmate/diff.tmbundle)
41. textmate/git.tmbundle (https://github.com/textmate/git.tmbundle)
42. textmate/groovy.tmbundle (https://github.com/textmate/groovy.tmbundle)
43. textmate/html.tmbundle (https://github.com/textmate/html.tmbundle)
44. textmate/ini.tmbundle (https://github.com/textmate/ini.tmbundle)
45. textmate/javascript.tmbundle (https://github.com/textmate/javascript.tmbundle)
46. textmate/lua.tmbundle (https://github.com/textmate/lua.tmbundle)
47. textmate/make.tmbundle (https://github.com/textmate/make.tmbundle)
48. textmate/markdown.tmbundle (https://github.com/textmate/markdown.tmbundle)
49. textmate/perl.tmbundle (https://github.com/textmate/perl.tmbundle)
50. textmate/r.tmbundle (https://github.com/textmate/r.tmbundle)
51. textmate/ruby.tmbundle (https://github.com/textmate/ruby.tmbundle)
52. textmate/shellscript.tmbundle (https://github.com/textmate/shellscript.tmbundle)
53. textmate/sql.tmbundle (https://github.com/textmate/sql.tmbundle)
54. textmate/yaml.tmbundle (https://github.com/textmate/yaml.tmbundle)
55. TypeScript-TmLanguage version 0.1.8 (https://github.com/Microsoft/TypeScript-TmLanguage)
56. vscode-swift version 0.0.1 (https://github.com/owensd/vscode-swift)

%% atom/language-c NOTICES AND INFORMATION BEGIN HERE

==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/c.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF atom/language-c NOTICES AND INFORMATION

%% atom/language-clojure NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/mmcgrana/textmate-clojure and distributed under the
following license, located in `LICENSE.md`:

The MIT License (MIT)

Copyright (c) 2010- Mark McGranaghan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
==========
END OF atom/language-clojure NOTICES AND INFORMATION

%% atom/language-coffee-script NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/jashkenas/coffee-script-tmbundle and distributed under the
following license, located in `LICENSE`:

Copyright (c) 2009-2014 Jeremy Ashkenas

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
==========
END OF atom/language-coffee-script NOTICES AND INFORMATION

%% atom/language-css NOTICES AND INFORMATION BEGIN HERE

==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/css.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF atom/language-css NOTICES AND INFORMATION

%% atom/language-java NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to

the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/java.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF atom/language-java NOTICES AND INFORMATION

%% atom/language-objective-c NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/objective-c.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF atom/language-objective-c NOTICES AND INFORMATION

%% atom/language-sass NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/alexsancho/Sass.tmbundle and distributed under the following
license, located in `LICENSE.md`:

Copyright (c) 2012 Alex Sancho, http://alexsancho.name/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF atom/language-sass NOTICES AND INFORMATION

%% atom/language-xml NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/xml.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF atom/language-xml NOTICES AND INFORMATION

%% Benvie/JavaScriptNext.tmLanguage NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2015 simonzack, zertosh, benvie

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF Benvie/JavaScriptNext.tmLanguage NOTICES AND INFORMATION

%% chjj-marked NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2011-2014, Christopher Jeffrey (https://github.com/chjj/)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF chjj-marked NOTICES AND INFORMATION

%% chriskempson/tomorrow-theme NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (C) 2013 Chris Kempson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF chriskempson/tomorrow-theme NOTICES AND INFORMATION

%% Colorsublime-Themes NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) 2015 Colorsublime.com

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF Colorsublime-Themes NOTICES AND INFORMATION

%% daaain/Handlebars NOTICES AND INFORMATION BEGIN HERE
==========
-- Credits

Adapted from the great sublime-text-handlebars package by Nicholas Westlake.

Thanks a lot to all the generous contributors (in alphabetical order): @bittersweetryan, @bradcliffe, @calumbrodie, @duncanbeevers, @hlvnst, @jonschlinkert, @Krutius, @samselikoff, @utkarshkukreti, @zeppelin

-- License

(The MIT License)

Copyright (c) daaain/Handlebars project authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF daaain/Handlebars NOTICES AND INFORMATION

%% davidrios/jade-tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 David Rios

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE
==========
END OF davidrios/jade-tmbundle NOTICES AND INFORMATION

%% definitelytyped NOTICES AND INFORMATION BEGIN HERE
==========
This project is licensed under the MIT license.
Copyrights are respective of each contributor listed at the beginning of each definition file.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF definitelytyped NOTICES AND INFORMATION

%% demyte/language-cshtml NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 James Summerton

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF demyte/language-cshtml NOTICES AND INFORMATION

%% dotnet/csharp-tmLanguage NOTICES AND INFORMATION BEGIN HERE
==========
MIT License

Copyright (c) 2016 .NET Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
==========
END OF dotnet/csharp-tmLanguage NOTICES AND INFORMATION

%% freebroccolo/atom-language-swift NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 Darin Morrison

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF freebroccolo/atom-language-swift NOTICES AND INFORMATION

%% HTML 5.1 W3C Working Draft NOTICES AND INFORMATION BEGIN HERE
==========
Copyright 2015 W3C (MIT, ERCIM, Keio, Beihang). This software or document includes material copied
from or derived from HTML 5.1 W3C Working Draft (http://www.w3.org/TR/2015/WD-html51-20151008/.)

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT
NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF
THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY
PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE
DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents
without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

==========
END OF HTML 5.1 W3C Working Draft NOTICES AND INFORMATION

%% Ionic documentation NOTICES AND INFORMATION BEGIN HERE
==========
Copyright Drifty Co. http://drifty.com/.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright

owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
==========
END OF Ionic documentation NOTICES AND INFORMATION

%% ionide/ionide-fsgrammar NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2015 Krzysztof Cieslak

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF ionide/ionide-fsgrammar NOTICES AND INFORMATION

%% js-beautify NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2007-2017 Einar Lielmanis, Liam Newman, and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF js-beautify NOTICES AND INFORMATION

%% Jxck/assert NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2011 Jxck

Originally from node.js (http://nodejs.org)
Copyright Joyent, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF Jxck/assert NOTICES AND INFORMATION

%% language-docker NOTICES AND INFORMATION BEGIN HERE
==========
Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2013-2017 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==========

END OF language-docker NOTICES AND INFORMATION

%% language-go NOTICES AND INFORMATION BEGIN HERE

==========

The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at

https://github.com/rsms/Go.tmbundle and distributed under the following license, located in `LICENSE`:

Copyright (c) 2009 Rasmus Andersson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The Go Template grammar was derived from GoSublime located at https://github.com/DisposaBoy/GoSublime and distributed under the following license, located in `LICENSE.md`:

Copyright (c) 2012 The GoSublime Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========

END OF language-go NOTICES AND INFORMATION

%% language-less NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/less.tmbundle and distributed under the following
license, located in `LICENSE.md`:

Copyright (c) 2010 Scott Kyle and Rasmus Andersson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF language-less NOTICES AND INFORMATION

%% language-php NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2014 GitHub Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This package was derived from a TextMate bundle located at
https://github.com/textmate/php.tmbundle and distributed under the following
license, located in `README.mdown`:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF language-php NOTICES AND INFORMATION

%% language-rust NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright `2013` `Andreas Neuhaus` `http://zargony.com/`

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF language-rust NOTICES AND INFORMATION

%% MagicStack/MagicPython NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License

Copyright (c) 2015-present MagicStack Inc. http://magic.io

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF MagicStack/MagicPython NOTICES AND INFORMATION

%% Microsoft/TypeScript-TmLanguage NOTICES AND INFORMATION BEGIN HERE
==========

Copyright (c) Microsoft Corporation. All rights reserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
==========
END OF Microsoft/TypeScript-TmLanguage NOTICES AND INFORMATION

%% octicons-code NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

(c) 2012-2015 GitHub

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF octicons-code NOTICES AND INFORMATION

%% octicons-font NOTICES AND INFORMATION BEGIN HERE
==========
(c) 2012-2015 GitHub

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright
Holder(s) under this license and clearly marked as such. This may
include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the
copyright statement(s).

"Original Version" refers to the collection of Font Software components as
distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.
==========
END OF octicons-font NOTICES AND INFORMATION

%% seti-ui NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) 2014 Jesse Weed

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF seti-ui NOTICES AND INFORMATION

%% shaders-tmLanguage NOTICES AND INFORMATION BEGIN HERE
==========
MIT License

Copyright (c) 2017 Tim Jones

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF shaders-tmLanguage NOTICES AND INFORMATION

%% string_scorer NOTICES AND INFORMATION BEGIN HERE
==========
This software is released under the MIT license:

Copyright (c) Joshaven Potter

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF string_scorer NOTICES AND INFORMATION

%% sublimehq/Packages NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) Sublime Packages project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF sublimehq/Packages NOTICES AND INFORMATION

%% SublimeText/PowerShell NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2011 Guillermo Lpez-Anglada

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF SublimeText/PowerShell NOTICES AND INFORMATION

%% textmate/asp.vb.net.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-asp.vb.net.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/asp.vb.net.tmbundle NOTICES AND INFORMATION

%% textmate/c.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-c.tmbundle authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/c.tmbundle NOTICES AND INFORMATION

%% textmate/diff.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-diff.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/diff.tmbundle NOTICES AND INFORMATION

%% textmate/git.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2008 Tim Harper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the"
Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to

permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF textmate/git.tmbundle NOTICES AND INFORMATION

%% textmate/groovy.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-groovy.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/groovy.tmbundle NOTICES AND INFORMATION

%% textmate/html.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-html.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example

"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/html.tmbundle NOTICES AND INFORMATION

%% textmate/ini.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-ini.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/ini.tmbundle NOTICES AND INFORMATION

%% textmate/javascript.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-javascript.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/javascript.tmbundle NOTICES AND INFORMATION

%% textmate/lua.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-lua.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without

express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/lua.tmbundle NOTICES AND INFORMATION

%% textmate/make.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-make.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/make.tmbundle NOTICES AND INFORMATION

%% textmate/markdown.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) markdown.tmbundle authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/markdown.tmbundle NOTICES AND INFORMATION

%% textmate/perl.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========

Copyright (c) textmate-perl.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/perl.tmbundle NOTICES AND INFORMATION

%% textmate/r.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-r.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.
==========
END OF textmate/r.tmbundle NOTICES AND INFORMATION

%% textmate/ruby.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-ruby.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/ruby.tmbundle NOTICES AND INFORMATION

%% textmate/shellscript.tmbundle NOTICES AND INFORMATION BEGIN HERE

==========
Copyright (c) textmate-shellscript.tmbundle project authors

If not otherwise specified (see below), files in this repository fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/shellscript.tmbundle NOTICES AND INFORMATION

%% textmate/sql.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) textmate-sql.tmbundle project authors

If not otherwise specified (see below), files in this folder fall under the following license:

Permission to copy, use, modify, sell and distribute this
software is granted. This software is provided "as is" without
express or implied warranty, and with no claim as to its
suitability for any purpose.

An exception is made for files in readable text which contain their own license information,
or files where an accompanying file exists (in the same directory) with a "-license" suffix added
to the base-name name of the original file, and an extension of txt, html, or similar. For example
"tidy" is accompanied by "tidy-license.txt".
==========
END OF textmate/sql.tmbundle NOTICES AND INFORMATION

%% textmate/yaml.tmbundle NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) 2015 FichteFoll <fichtefoll2@googlemail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF textmate/yaml.tmbundle NOTICES AND INFORMATION

%% TypeScript-TmLanguage NOTICES AND INFORMATION BEGIN HERE
==========
Copyright (c) Microsoft Corporation. All rights reserved.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

==========

END OF TypeScript-TmLanguage NOTICES AND INFORMATION

%% vscode-swift NOTICES AND INFORMATION BEGIN HERE
==========
The MIT License (MIT)

Copyright (c) 2015 David Owens II

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
==========
END OF vscode-swift NOTICES AND INFORMATION
Microsoft Public License (Ms-PL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

1. Definitions

The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.

A "contribution" is the original software, or any additions or changes to the software.

A "contributor" is any person that distributes its contribution under this license.

"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights

(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that

you create.

(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations

(A) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.

(B) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.

(C) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.

(D) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.

(E) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL STUDIO ENTERPRISE 2017, VISUAL STUDIO PROFESSIONAL 2017,
VISUAL STUDIO TEST PROFESSIONAL 2017 AND TRIAL EDITION
These license terms are an agreement between you and Microsoft Corporation (or based on where you live, one of

its affiliates). They apply to the software named above. The terms also apply to any Microsoft services and updates for the software, except to the extent those have different terms.
BY USING THE SOFTWARE, YOU ACCEPT THESE TERMS. IF YOU DO NOT ACCEPT THEM, DO NOT USE THE SOFTWARE. INSTEAD, RETURN IT TO THE RETAILER FOR A REFUND OR CREDIT. If you cannot obtain a refund there, contact Microsoft about Microsoft's refund policies. See www.microsoft.com/worldwide. In the United States and Canada, call (800) MICROSOFT or see www.microsoft.com/info/nareturns.htm.

TRIAL EDITION USE RIGHTS. If the software is a trial edition, this Section applies to your use of the trial edition.

A. GENERAL. You may use any number of copies of the trial edition on your devices. You may only use the trial edition for internal evaluation purposes, and only during the trial period. You may not distribute or deploy any applications you make with the trial edition to a production environment. You may run load tests of up to 250 virtual users during the trial period.
B. TRIAL PERIOD AND CONVERSION. The trial period lasts for 30 days after you install the trial edition, plus any permitted extension period. After the expiration of the trial period, the trial edition will stop running. You may extend the trial period an additional 90 days if you sign in to the software. You may not be able to access data used with the trial edition when it stops running. You may convert your trial rights at any time to the full-use rights described below by acquiring a valid full-use license.
C. DISCLAIMER OF WARRANTY. THE TRIAL EDITION IS LICENSED "AS-IS." YOU BEAR THE RISK OF USING IT. MICROSOFT GIVES NO EXPRESS WARRANTIES, GUARANTEES OR CONDITIONS. TO THE EXTENT PERMITTED UNDER YOUR LOCAL LAWS, MICROSOFT EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT.
FOR AUSTRALIA – YOU HAVE STATUTORY GUARANTEES UNDER THE AUSTRALIAN CONSUMER LAW AND NOTHING IN THESE TERMS IS INTENDED TO AFFECT THOSE RIGHTS.
D. SUPPORT. Because the trial edition is "as is," we may not provide support services for it.
E. LIMITATIONS ON DAMAGES. YOU CAN RECOVER FROM MICROSOFT AND ITS SUPPLIERS ONLY DIRECT DAMAGES UP TO U.S. $5.00. YOU CANNOT RECOVER ANY OTHER DAMAGES, INCLUDING CONSEQUENTIAL, LOST PROFITS, SPECIAL, INDIRECT OR INCIDENTAL DAMAGES.
This limitation applies to (a) anything related to the trial version, services, content (including code) on third party Internet sites, or third party programs; and (b) claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.
It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your country may not allow the exclusion or limitation of incidental, consequential or other damages.

FULL-USE LICENSE TERMS FOR THE SOFTWARE: When you acquire a valid license and either enter a product key or sign in to the software, the terms below apply. You may not share your product key or access credentials.
1. OVERVIEW.
a. Software. The software includes development tools, applications and documentation.
b. License Model. The software is licensed on a per user basis.
2. USE RIGHTS.
a. General. One user may use copies of the software on your devices to develop and test applications. This includes using copies of the software on your own internal servers that remain fully dedicated to your own use. You may not, however, separate the components of the software and run those in a production environment, or on third party devices (except as otherwise stated in this agreement), or for any purpose other than developing and testing your

applications. Running the software on Microsoft Azure requires a separate license.
b. Workloads. These license terms apply to your use of the Workloads made available to you within the software, except to the extent a Workload or a Workload component comes with different terms.
c. Demo Use. The use permitted above includes use of the software in demonstrating your applications.
d. Backup copy. You may make one backup copy of the software, for reinstalling the software.
3. TERMS FOR SPECIFIC COMPONENTS.
a. Utilities. The software contains items on the Utilities List at https://go.microsoft.com/fwlink/?linkid=823097. You may copy and install those items, if included with the software, onto your devices to debug and deploy your applications and databases you developed with the software. Please note that Utilities are designed for temporary use, that Microsoft may not be able to patch or update Utilities separately from the rest of the software, and that some Utilities by their nature may make it possible for others to access the devices on which they are installed. As a result, you should delete all Utilities you have installed after you finish debugging or deploying your applications and databases. Microsoft is not responsible for any third party use or access of Utilities you install on any device.
b. Build Tools. You may copy and install files from the software onto your build devices, including physical devices and virtual machines or containers on those machines, whether on-premises or remote machines that are owned by you, hosted on Azure for you, or dedicated solely to your use (collectively, “Build Devices”). You and others in your organization may use these files on your Build Devices solely to compile, build, and verify applications or run quality or performance tests of those applications as part of the build process. For clarity, “applications” means applications developed by you and others in your organization who are each licensed to use the software.
c. Font Components. While the software is running, you may use its fonts to display and print content. You may only: (i) embed fonts in content as permitted by the embedding restrictions in the fonts; and (ii) temporarily download them to a printer or other output device to help print content.
d. Licenses for Other Components.
• Microsoft Platforms. The software may include components from Microsoft Windows; Microsoft Windows Server; Microsoft SQL Server; Microsoft Exchange; Microsoft Office; and Microsoft SharePoint. These components are governed by separate agreements and their own product support policies, as described in the Microsoft “Licenses” folder accompanying the software, except that, if separate license terms for those components are included in the associated installation directly, those license terms control.
• Developer resources. The software includes compilers, languages, runtimes, environments, and other resources. These components may be governed by separate agreements and have their own product support policies. A list of these other components is located at https://support.microsoft.com.
Third Party Components. The software may include third party components with separate legal notices or governed by other agreements, as may be described in the ThirdPartyNotices file(s) accompanying the software.

e. PACKAGE MANAGERS. The software includes package managers, like NuGet, that give you the option to download other Microsoft and third party software packages to use with your application. Those packages are under their own licenses, and not this agreement. Microsoft does not distribute, license or provide any warranties for any of the third party packages.
4. DISTRIBUTABLE CODE. The software contains code that you are permitted to distribute in applications you develop as described in this Section. (For this Section the term “distribution” also means deployment of your applications for third parties to access over the Internet.)
a. Right to Use and Distribute. The code and text files listed below are “Distributable Code.”
• REDIST.TXT Files. You may copy and distribute the object code form of code listed on the REDIST list located at https://go.microsoft.com/fwlink/?linkid=823097.
• Sample Code, Templates and Styles. You may copy, modify and distribute the source and object code form of code marked as “sample”, “template”, “simple styles” and “sketch styles”.
• Image Library. You may copy and distribute images, graphics and animations in the Image Library as described in the software documentation.

• Third Party Distribution. You may permit distributors of your applications to copy and distribute the Distributable Code as part of those applications.
b. Distribution Requirements. For any Distributable Code you distribute, you must:
• add significant primary functionality to it in your applications;
• require distributors and external end users to agree to terms that protect the Distributable Code at least as much as this agreement; and
• indemnify, defend, and hold harmless Microsoft from any claims, including attorneys' fees, related to the distribution or use of your applications, except to the extent that any claim is based solely on the Distributable Code.
c. Distribution Restrictions. You may not:
• use Microsoft's trademarks in your applications' names or in a way that suggests your applications come from or are endorsed by Microsoft; or
• modify or distribute the source code of any Distributable Code so that any part of it becomes subject to an Excluded License. An Excluded License is one that requires, as a condition of use, modification or distribution of code, that (i) it be disclosed or distributed in source code form; or (ii) others have the right to modify it.
5. DATA.
a. Data Collection. The software may collect information about you and your use of the software, and send that to Microsoft. Microsoft may use this information to provide services and improve our products and services. You may opt-out of many of these scenarios, but not all, as described in the product documentation. There are also some features in the software that may enable you and Microsoft to collect data from users of your applications. If you use these features, you must comply with applicable law, including providing appropriate notices to users of your applications together with Microsoft's privacy statement. Our privacy statement is located at https://go.microsoft.com/fwlink/?LinkID=824704. You can learn more about data collection and use in the help documentation and our privacy statement. Your use of the software operates as your consent to these practices.
b. Processing of Personal Data. To the extent Microsoft is a processor or subprocessor of personal data in connection with the software, Microsoft makes the commitments in the European Union General Data Protection Regulation Terms of the Online Services Terms to all customers effective May 25, 2018, at http://go.microsoft.com/?linkid=9840733.
6. SCOPE OF LICENSE. The software is licensed, not sold. This agreement only gives you some rights to use the software. Microsoft reserves all other rights. Unless applicable law gives you more rights despite this limitation, you may use the software only as expressly permitted in this agreement. In doing so, you must comply with any technical limitations in the software that only allow you to use it in certain ways. You may not
• work around any technical limitations in the software;
• reverse engineer, decompile or disassemble the software, or otherwise attempt to derive the source code for the software, except and to the extent required by third party licensing terms governing use of certain open source components that may be included in the software;
• remove, minimize, block or modify any notices of Microsoft or its suppliers in the software;
• use the software in any way that is against the law;
• share, publish, rent or lease the software, or provide the software as a stand-alone offering for others to use.
7. DOCUMENTATION. Any person that has valid access to your computer or internal network may copy and use the documentation for your internal, reference purposes.
8. NOT FOR RESALE SOFTWARE. You may not sell software marked as "NFR" or "Not for Resale."
9. RIGHTS TO USE OTHER VERSIONS AND LOWER EDITIONS. You may use the software and any prior version on any device. You may create, store, install, run, or access in place of the version licensed, a copy or instance of a prior version, different permitted language version, or lower edition.
10. PROOF OF LICENSE. If you acquired the software on a disc or other media, your proof of license is the Microsoft certificate of authenticity label, the accompanying product key, and your receipt. If you purchased an online copy of the software, your proof of license is the Microsoft product key you received with your purchase and your receipt and/or being able to access the software service through your Microsoft account. To identify genuine

Microsoft software, see www.howtotell.com.
11. TRANSFER TO A THIRD PARTY. If you are a valid licensee of the software, you may transfer it and this agreement directly to another party. Before the transfer, that party must agree that this agreement applies to the transfer and use of the software. The transfer must include the software, genuine Microsoft product key, and (if applicable) the Proof of License label. The transferor must uninstall all copies of the software after transferring it from the device. The transferor may not retain any copies of the genuine Microsoft product key to be transferred, and may only retain copies of the software if otherwise licensed to do so. If you have acquired a non-perpetual license to use the software or if the software is marked Not for Resale you may not transfer the software or the software license agreement to another party.
12. EXPORT RESTRICTIONS. You must comply with all domestic and international export laws and regulations that apply to the software, which include restrictions on destinations, end users, and end use. For further information on export restrictions, visit www.microsoft.com/exporting.
13. SUPPORT. Microsoft provides support for the software as described at https://support.microsoft.com.
14. ENTIRE AGREEMENT. This agreement (including the warranty below), and the terms for supplements, updates, Internet-based services and support services, are the entire agreement for the software and support services.
15. APPLICABLE LAW. If you acquired the software in the United States, Washington State law applies to interpretation of and claims for breach of this agreement, and the laws of the state where you live apply to all other claims. If you acquire the software in any other country, its laws apply.
16. CONSUMER RIGHTS; REGIONAL VARIATIONS. This agreement describes certain legal rights. You may have other rights, including consumer rights, under the laws of your state or country. Separate and apart from your relationship with Microsoft, you may also have rights with respect to the party from which you acquired the software. This agreement does not change those other rights if the laws of your state or country do not permit it to do so. For example, if you acquired the software in one of the below regions, or if mandatory country law applies, then the following provisions apply to you:
a) Australia. References to “Limited Warranty” mean the express warranty provided by Microsoft or the manufacturer or installer. This warranty is in addition to other rights and remedies you may have under law, including your rights and remedies under the statutory guarantees in the Australian Consumer Law.
In this section, “goods” refers to the software for which Microsoft or the manufacturer or installer provides the express warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
b) Canada. If you acquired this software in Canada, you may stop receiving updates by turning off the automatic update feature, disconnecting your device from the Internet (if and when you re-connect to the Internet, however, the software will resume checking for and installing updates), or uninstalling the software. The product documentation, if any, may also specify how to turn off updates for your specific device or software.
c) Germany and Austria.
(i) Warranty. The properly licensed software will perform substantially as described in any Microsoft materials that accompany it. However, Microsoft gives no contractual guarantee in relation to the software.
(ii) Limitation of Liability. In case of intentional conduct, gross negligence, claims based on the Product Liability Act, and death or personal or physical injury, Microsoft is liable according to the statutory law.
Subject to the foregoing clause (ii), Microsoft will only be liable for slight negligence if Microsoft is in breach of such material contractual obligations, the fulfillment of which facilitate the due performance of this agreement, the breach of which would endanger the purpose of this agreement and the compliance with which a party may constantly trust in (so-called "cardinal obligations"). In other cases of slight negligence, Microsoft will not be liable for slight negligence.
17. LIMITATION ON AND EXCLUSION OF DAMAGES. YOU CAN RECOVER FROM MICROSOFT AND ITS SUPPLIERS ONLY DIRECT DAMAGES UP TO THE AMOUNT YOU PAID FOR THE SOFTWARE. YOU

CANNOT RECOVER ANY OTHER DAMAGES, INCLUDING CONSEQUENTIAL, LOST PROFITS, SPECIAL, INDIRECT OR INCIDENTAL DAMAGES.
This limitation applies to (a) anything related to the software, services, content (including code) on third party Internet sites, or third party applications; and (b) claims for breach of contract, breach of warranty, guarantee or condition, strict liability, negligence, or other tort to the extent permitted by applicable law.
It also applies even if Microsoft knew or should have known about the possibility of the damages. The above limitation or exclusion may not apply to you because your state or country may not allow the exclusion or limitation of incidental, consequential or other damages.

****
LIMITED WARRANTY
A. LIMITED WARRANTY. If you follow the instructions, the software will perform substantially as described in the Microsoft materials that you receive in or with the software.
References to “limited warranty” are references to the express warranty provided by Microsoft. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under local Consumer Law.
B. TERM OF WARRANTY; WARRANTY RECIPIENT; LENGTH OF ANY IMPLIED WARRANTIES. THE LIMITED WARRANTY COVERS THE SOFTWARE FOR ONE YEAR AFTER ACQUIRED BY THE FIRST USER. IF YOU RECEIVE SUPPLEMENTS, UPDATES, OR REPLACEMENT SOFTWARE DURING THAT YEAR, THEY WILL BE COVERED FOR THE REMAINDER OF THE WARRANTY OR 30 DAYS, WHICHEVER IS LONGER. If the first user transfers the software, the remainder of the warranty will apply to the recipient.
TO THE EXTENT PERMITTED BY LAW, ANY IMPLIED WARRANTIES, GUARANTEES OR CONDITIONS LAST ONLY DURING THE TERM OF THE LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so these limitations may not apply to you. They also might not apply to you because some countries may not allow limitations on how long an implied warranty, guarantee or condition lasts.
C. EXCLUSIONS FROM WARRANTY. This warranty does not cover problems caused by your acts (or failures to act), the acts of others, or events beyond Microsoft’s reasonable control.
D. REMEDY FOR BREACH OF WARRANTY. MICROSOFT WILL REPAIR OR REPLACE THE SOFTWARE AT NO CHARGE. IF MICROSOFT CANNOT REPAIR OR REPLACE IT, MICROSOFT WILL REFUND THE AMOUNT SHOWN ON YOUR RECEIPT FOR THE SOFTWARE. IT WILL ALSO REPAIR OR REPLACE SUPPLEMENTS, UPDATES AND REPLACEMENT SOFTWARE AT NO CHARGE. IF MICROSOFT CANNOT REPAIR OR REPLACE THEM, IT WILL REFUND THE AMOUNT YOU PAID FOR THEM, IF ANY. YOU MUST UNINSTALL THE SOFTWARE AND RETURN ANY MEDIA AND OTHER ASSOCIATED MATERIALS TO MICROSOFT WITH PROOF OF PURCHASE TO OBTAIN A REFUND. THESE ARE YOUR ONLY REMEDIES FOR BREACH OF THE LIMITED WARRANTY.
E. CONSUMER RIGHTS NOT AFFECTED. YOU MAY HAVE ADDITIONAL CONSUMER RIGHTS UNDER YOUR LOCAL LAWS, WHICH THIS AGREEMENT CANNOT CHANGE.
F. WARRANTY PROCEDURES. You need proof of purchase for warranty service.
1. United States and Canada. For warranty service or information about how to obtain a refund for software acquired in the United States and Canada, contact Microsoft at:
• (800) MICROSOFT;
• Microsoft Customer Service and Support, One Microsoft Way, Redmond, WA 98052-6399; or
• visit (aka.ms/nareturns).
2. Europe, Middle East, and Africa. If you acquired the software in Europe, the Middle East, or Africa, Microsoft Ireland Operations Limited makes this limited warranty. To make a claim under this warranty, you should contact either:
• Microsoft Ireland Operations Limited, Customer Care Centre, Atrium Building Block B, Carmanhall Road,

Sandyford Industrial Estate, Dublin 18, Ireland; or
• the Microsoft affiliate serving your country (see aka.ms/msoffices).
3. Australia. For Warranty Services and to claim expenses in relation to the warranty (if applicable) for software acquired in Australia, contact Microsoft at:
• 13 20 58; or
• Microsoft Pty Ltd, 1 Epping Road, North Ryde NSW 2113, Australia.
4. Outside the United States, Canada, Europe, Middle East, Africa, and Australia. If you acquired the software outside the United States, Canada, Europe, the Middle East, Africa, and Australia, contact the Microsoft affiliate serving your country (see aka.ms/msoffices).
G. NO OTHER WARRANTIES. THE LIMITED WARRANTY IS THE ONLY DIRECT WARRANTY FROM MICROSOFT. MICROSOFT GIVES NO OTHER EXPRESS WARRANTIES, GUARANTEES OR CONDITIONS. WHERE ALLOWED BY YOUR LOCAL LAWS, MICROSOFT EXCLUDES IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. If your local laws give you any implied warranties, guarantees or conditions, despite this exclusion, your remedies are described in the Remedy for Breach of Warranty clause above, to the extent permitted by your local laws.
FOR AUSTRALIA ONLY. References to “Limited Warranty” are references to the warranty provided by Microsoft. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Goods presented for repair may be replaced by refurbished goods of the same type rather than being replaced. Refurbished parts may be used to repair the goods.
H. LIMITATION ON AND EXCLUSION OF DAMAGES FOR BREACH OF WARRANTY. THE LIMITATION ON AND EXCLUSION OF DAMAGES CLAUSE ABOVE APPLIES TO BREACHES OF THIS LIMITED WARRANTY.
THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM COUNTRY TO COUNTRY.

EULA ID: VS2017_ENT_PRO_TRIAL_RTW.2_ENU

1.119 graceful 1.2.15

1.119.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Tyler Bunnell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.120 tcpdump 4.7.4

1.120.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. The names of the authors may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.121 gawk 4.0.0

1.121.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different

permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data

structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.122 openssh 7.8p1

1.122.1 Available under license :

```
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

/*
* Copyright (c) 1996 Theo de Raadt
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
```

```
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

This file is part of the OpenSSH software.

The licences which components of this software fall under are as follows. First, we will summarize and say that all components are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]

```
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control.  As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.
```

[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library

- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style

license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)

The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
 * OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 * OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 * EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license, held by the University of California, since we pulled these parts from original Berkeley code.

```
 * Copyright (c) 1983, 1990, 1992, 1993, 1995
 *      The Regents of the University of California.  All rights reserved.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
```

```
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard
2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright
holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter

Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file.  As long as you retain this
* notice you can do whatever you want with this stuff. If we meet
* some day, and you think this stuff is worth it, you can buy me a
* beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
```

* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following copyright holders:

Internet Software Consortium.
Todd C. Miller

Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE. *
* *
* Except as contained in this notice, the name(s) of the above copyright *
* holders shall not be used in advertising or otherwise to promote the *
* sale, use or other dealings in this Software without prior written *
* authorization. *
**********/

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

```
/*
* Copyright (c) 2012 Darren Tucker (dtucker at zip com au).
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*
* Copyright (c) 2000 Ben Lindstrom.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*
*/

#ifndef _BSD_WAITPID_H
```

```
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

1.123 gettext 0.19.4

1.123.1 Available under license :

Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

Copyright (C) 1998-2003 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER

IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not
be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from him.
The libasprintf package is under the LGPL, see file COPYING.LIB.
This subpackage is under the GPL, see file COPYING in the toplevel directory.
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License'').  Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms.  A ``work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify

that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center @b{NO WARRANTY}

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by

the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
This is the file "copying.dj". It does NOT apply to any sources or
binaries copyrighted by UCB Berkeley, the Free Software Foundation, or
any other agency besides DJ Delorie and others who have agreed to
allow their sources to be distributed under these terms.

Copyright Information for sources and executables that are marked
Copyright (C) DJ Delorie
7 Kim Lane
Rochester NH 03867-2954

This document is Copyright (C) DJ Delorie and may be distributed
verbatim, but changing it is not allowed.

Source code copyright DJ Delorie is distributed under the terms of the
GNU General Public Licence, with the following exceptions:

* Sources used to build crt0.o, gcrt0.o, libc.a, libdbg.a, and
libemu.a are distributed under the terms of the GNU Library General
Public License, rather than the GNU GPL.

* Any existing copyright or authorship information in any given source
 file must remain intact. If you modify a source file, a notice to that
 effect must be added to the authorship information in the source file.

* Runtime binaries, as provided by DJ in DJGPP, may be distributed
 without sources ONLY if the recipient is given sufficient information
 to obtain a copy of djgpp themselves. This primarily applies to
 go32-v2.exe, emu387.dxe, and stubedit.exe.

* Runtime objects and libraries, as provided by DJ in DJGPP, when
 linked into an application, may be distributed without sources ONLY
 if the recipient is given sufficient information to obtain a copy of
 djgpp themselves. This primarily applies to crt0.o and libc.a.

Changes to source code copyright BSD, FSF, or others, by DJ Delorie
fall under the terms of the original copyright. Such files usually
have multiple copyright notices in them.

A copy of the files "COPYING" and "COPYING.LIB" are included with this
document. If you did not receive a copy of these files, you may
obtain one from whence this document was obtained, or by writing:

Free Software Foundation
51 Franklin Street, Fifth Floor
Boston, MA 02110-1301
USA

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source

form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the

terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent

the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of

it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the

form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license,

and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you

to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be

consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute

the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
The gettext-runtime package is partially under the LGPL and partially under
the GPL.

The following parts are under the LGPL, see file intl/COPYING.LIB:
 - the libintl and libasprintf libraries and their header files,
 - the libintl.jar Java library,
 - the GNU.Gettext.dll C# library,
 - the gettext.sh shells script function library.

The following parts are under the GPL, see file COPYING in the toplevel
directory:
 - the _programs_ gettext, ngettext, envsubst,
 - the documentation.

1.124 eapache-go-xerial-snappy 0.0.0-20180814174437-776d5712da21

1.124.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Evan Huus

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.125 jmespath-community-go-jmespath 1.1.1-0.20230531184041-4a4bfbff5d01

1.125.1 Available under license :

MIT License

Copyright (c) 2012-2018 Mat Ryer and Tyler Bunnell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.126 bzip2 1.0.8

1.127 spew 1.1.1

1.127.1 Available under license :

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.128 libunistring 0.9.10

1.128.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU

General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version

of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but

which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid

circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the

Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for

the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some

trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are

specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General

Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future
versions of the GNU General Public License can be used, that proxy's
public statement of acceptance of a version permanently authorizes you
to choose that version for the Program.

Later license versions may give you additional or different
permissions. However, no additional obligations are imposed on any
author or copyright holder as a result of your choosing to follow a
later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom
to share and change all versions of a program---to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the GNU General Public License for most of our software; it
applies also to any other work released this way by its authors. You
can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you
have certain responsibilities if you distribute copies of the
software, or if you modify it: responsibilities to respect the freedom
of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this

License. Each licensee is addressed as ``you''.  ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy.  The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it.  ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an

implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10

makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item
If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is

covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of

whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions'' are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

@enumerate a
@item
Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

@item
Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

@item
Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

@item
Limiting the use for publicity purposes of names of licensors or authors of the material; or

@item
Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

@item
Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
@end enumerate

All other non-permissive additional terms are considered ``further restrictions'' within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An ``entity transaction'' is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A ``contributor'' is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's ``contributor version''.

A contributor's ``essential patent claims'' are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, ``control'' includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a ``patent license'' is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To ``grant'' such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. ``Knowingly relying'' means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is ``discriminatory'' if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box''.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a ``copyright disclaimer'' for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your
program into proprietary programs. If your program is a subroutine

library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be

distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further

copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and

publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has

been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in

the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a

version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;

with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.129 curl 7.74.0

1.129.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2020, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN

NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

1.130 mxj 2.5.5

1.130.1 Available under license :

Copyright (c) 2012-2021 Charles Banning <clbanning@gmail.com>. All rights reserved.

The MIT License (MIT)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2012-2016 Charles Banning <clbanning@gmail.com>.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.131 sim-master-types 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.131.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.132 jbcrypt 0.4

1.132.1 Available under license :

No license file was found, but licenses were detected in source scan.

// Permission to use, copy, modify, and distribute this software for any
// purpose with or without fee is hereby granted, provided that the above
// copyright notice and this permission notice appear in all copies.

Found in path(s):
* /opt/cola/permits/115342115_1646171445.14/0/jbcrypt-0-4-sources-5-jar/org/mindrot/jbcrypt/BCrypt.java

1.133 x-crypto 0.0.0-20220411220226-7b82a4e95df4

1.133.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.134 tcp-wrappers 7.6

1.134.1 Available under license :

```
/*****************************************************************************
* Copyright 1995 by Wietse Venema.  All rights reserved.  Some individual
* files may be covered by other copyrights.
*
* This material was originally written and compiled by Wietse Venema at
* Eindhoven University of Technology, The Netherlands, in 1990, 1991,
* 1992, 1993, 1994 and 1995.
*
* Redistribution and use in source and binary forms are permitted
* provided that this entire copyright notice is duplicated in all such
* copies.
*
* This software is provided "as is" and without any expressed or implied
* warranties, including, without limitation, the implied warranties of
* merchantibility and fitness for any particular purpose.
*****************************************************************************/
```

1.135 i2c-tools 3.1

1.135.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.136 x-sys 0.8.0

1.136.1 Available under license :

Copyright (c) 2013 unformatt

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.137 libgcrypt 1.6.3

1.137.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another

language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY

FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.
^L
Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if

the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any

attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Additional license notices for Libgcrypt. -*- org -*-

This file contains the copying permission notices for various files in
the Libgcrypt distribution which are not covered by the GNU Lesser
General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included
in the accompanying documentation and be distributed with binary
distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

* BSD_3Clause

For files:
- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S

#+begin_quote
Copyright (c) 2012, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the

distribution.

* Neither the name of the Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#+end_quote

For files:
- random/jitterentropy-base.c
- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

#+begin_quote
* Copyright Stephan Mueller <smueller@chronox.de>, 2013
*
* License
* =======
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, and the entire permission notice in its entirety,
* including the disclaimer of warranties.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote
* products derived from this software without specific prior
* written permission.
*
* ALTERNATIVELY, this product may be distributed under the terms of
* the GNU General Public License, in which case the provisions of the GPL are
* required INSTEAD OF the above restrictions. (This clause is

* necessary due to a potential bad interaction between the GPL and
* the restrictions contained in a BSD-style copyright.)
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
* WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
* OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
#+end_quote

* X License

For files:
- install.sh

#+begin_quote
Copyright (C) 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.
#+end_quote

* Public domain

For files:
- cipher/arcfour-amd64.S

#+begin_quote
Author: Marc Bevand <bevand_m (at) epita.fr>
Licence: I hereby disclaim the copyright on this code and place it
in the public domain.
#+end_quote

* OCB license 1

For files:
- cipher/cipher-ocb.c

#+begin_quote
OCB is covered by several patents but may be used freely by most
software. See http://web.cs.ucdavis.edu/~rogaway/ocb/license.htm .
In particular license 1 is suitable for Libgcrypt: See
http://web.cs.ucdavis.edu/~rogaway/ocb/license1.pdf for the full
license document; it basically says:

License 1 License for Open-Source Software Implementations of OCB
(Jan 9, 2013)

Under this license, you are authorized to make, use, and
distribute open-source software implementations of OCB. This
license terminates for you if you sue someone over their
open-source software implementation of OCB claiming that you have
a patent covering their implementation.

License for Open Source Software Implementations of OCB
January 9, 2013

1 Definitions

1.1 Licensor means Phillip Rogaway.

1.2 Licensed Patents means any patent that claims priority to United
States Patent Application No. 09/918,615 entitled Method and Apparatus
for Facilitating Efficient Authenticated Encryption, and any utility,
divisional, provisional, continuation, continuations-in-part, reexamination,
reissue, or foreign counterpart patents that may issue with respect to the
aforesaid patent application. This includes, but is not limited to, United
States Patent No. 7,046,802; United States Patent No. 7,200,227; United

States Patent No. 7,949,129; United States Patent No. 8,321,675 ; and any patent that issues out of United States Patent Application No. 13/669,114.

1.3 Use means any practice of any invention claimed in the Licensed Patents.

1.4 Software Implementation means any practice of any invention claimed in the Licensed Patents that takes the form of software executing on a user-programmable, general-purpose computer or that takes the form of a computer-readable medium storing such software. Software Implementation does not include, for example, application-specific integrated circuits (ASICs), field-programmable gate arrays (FPGAs), embedded systems, or IP cores.

1.5 Open Source Software means software whose source code is published and made available for inspection and use by anyone because either (a) the source code is subject to a license that permits recipients to copy, modify, and distribute the source code without payment of fees or royalties, or (b) the source code is in the public domain, including code released for public use through a CC0 waiver. All licenses certified by the Open Source Initiative at opensource.org as of January 9, 2013 and all Creative Commons licenses identified on the creativecommons.org website as of January 9, 2013, including the Public License Fallback of the CC0 waiver, satisfy these requirements for the purposes of this license.

1.6 Open Source Software Implementation means a Software Implementation in which the software implicating the Licensed Patents is Open Source Software. Open Source Software Implementation does not include any Software Implementation in which the software implicating the Licensed Patents is combined, so as to form a larger program, with software that is not Open Source Software.

2 License Grant

2.1 License. Subject to your compliance with the term s of this license, including the restriction set forth in Section 2.2, Licensor hereby grants to you a perpetual, worldwide, non-exclusive, non-transferable, non-sublicenseable, no-charge, royalty-free, irrevocable license to practice any invention claimed in the Licensed Patents in any Open Source Software Implementation.

2.2 Restriction. If you or your affiliates institute patent litigation (including, but not limited to, a cross-claim or counterclaim in a lawsuit) against any entity alleging that any Use authorized by this license infringes another patent, then any rights granted to you under this license automatically terminate as of the date such litigation is filed.

3 Disclaimer

YOUR USE OF THE LICENSED PATENTS IS AT YOUR OWN RISK AND UNLESS REQUIRED BY APPLICABLE LAW, LICENSOR MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY

KIND CONCERNING THE LICENSED PATENTS OR ANY PRODUCT EMBODYING ANY LICENSED PATENT, EXPRESS OR IMPLIED, STATUT ORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL LICENSOR BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM OR RELATED TO ANY USE OF THE LICENSED PATENTS, INCLUDING, WITHOUT LIMITATION, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES PRIOR TO SUCH AN OCCURRENCE.
#+end_quote

1.138 openssh 7.1p1

1.138.1 Available under license :

```
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

/*
* Copyright (c) 1996 Theo de Raadt
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_
```

```
typedef struct pollfd {
 int  fd;
 short events;
 short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN  0x0001
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI  0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not standard */

int   poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
   * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
   *                    All rights reserved
   *
   * As far as I am concerned, the code I have written for this software
   * can be used freely for any purpose.  Any derived versions of this
   * software must be clearly marked as such, and if the derived work is
   * incompatible with the protocol description in the RFC file, it must be
   * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]

```
   *  However, I am not implying to give any licenses to any patents or
```

* copyrights held by third parties, and the software includes parts that
* are not under my direct control. As far as I know, all included
* source code is used in accordance with the relevant license agreements
* and can be used freely for any purpose (the GNU license being the most
* restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)

ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)

The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
 * OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 * OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 * EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license,

held by the University of California, since we pulled these parts from
original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard
2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright

holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file.  As long as you retain this
* notice you can do whatever you want with this stuff. If we meet
* some day, and you think this stuff is worth it, you can buy me a
* beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
```

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *

```
 * THE USE OR OTHER DEALINGS IN THE SOFTWARE.                          *
 *                                                                     *
 * Except as contained in this notice, the name(s) of the above copyright   *
 * holders shall not be used in advertising or otherwise to promote the     *
 * sale, use or other dealings in this Software without prior written       *
 * authorization.                                                      *
 ***********************************************************************/
```

```
$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $
/*
* Copyright (c) 2012 Darren Tucker (dtucker at zip com au).
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/*
* Copyright (c) 2000 Ben Lindstrom.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
```

```
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w)  ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

1.139 groff 1.22.3

1.139.1 Available under license :

```
-*- text -*-
AUTHOR
------
Peter Schaffter (peter@schaffter.ca)
3-355 Lafontaine Ave
Vanier (ON) CANADA
K1L 6X6

=====================================================================
```

The groff macro file om.tmac and the html documentation pertaining to
it are Copyright (C) 2004-2014 Peter Schaffter.

om.tmac is issued under the GNU General Public License, a full copy of
which can be had at

http://www.gnu.org/licenses/gpl.html

The html documentation pertaining to om.tmac is issued under the GNU
Free Documentation License, a full copy of which can be had at

http://www.gnu.org/copyleft/fdl.html

==========

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input

to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no

other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.
K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements

and/or dedications given therein.
L. Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.
M. Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.
N. Do not retitle any existing section to be Entitled "Endorsements"
or to conflict in title with any Invariant Section.
O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and

multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole

aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

> Copyright (c) YEAR YOUR NAME.
> Permission is granted to copy, distribute and/or modify this document
> under the terms of the GNU Free Documentation License, Version 1.3
> or any later version published by the Free Software Foundation;
> with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
> A copy of the license is included in the section entitled "GNU
> Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

> with the Invariant Sections being LIST THEIR TITLES, with the
> Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain

any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means

the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and

visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified

Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the

substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves

derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the

violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license

published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other

combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

Copyright 2003-2014 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

LICENSES

The groff program is a free software project. It is licensed under the GNU General Public License (GNU GPL), version 3 or later.

The file COPYING in the top directory of the groff source package contains a copy of the GPL that was downloaded from the GNU web site http://www.gnu.org/copyleft/gpl.txt at 3 jan 2009.

All files part of groff are licensed under this version of the GPL (or licenses which are compatible with the GPL). You are free to choose version 3 or any subsequent version of the GPL.

The GPL names an address where you can get the actual version by normal post. Further information is found in the internet at http://www.gnu.org/copyleft.

The groff program is a GNU package, and the copyright of all files of the groff source package which are under the GPL has been assigned to the Free Sofware Foundation (FSF). Information on GNU and FSF is found at http://www.fsf.org/.

Here a list of files which are distributed with groff but which aren't part of it (this is, they either have a non-GPL license, or the copyright hasn't been assigned to the FSF).

Source Files

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/ .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z .

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm

src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex .

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>', e.g. `hyphen.de' or

`hyphen.uk'.

See the file itself for a copyright notice.

. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex .

The patterns have been converted to a format groff can understand.

See the file itself for a copyright notice.

. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex .

See the file itself for a copyright notice.

. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex .

The patterns have been converted to a format groff can understand.

See the files themselves for a copyright notice.

. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphtex.tex .

See the file itself for a copyright notice.

. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz .

The patterns have been converted to a format groff can understand.

See the file itself for a copyright notice.

EOF

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the

public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those

subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of

technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users

beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for

any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,

but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the

parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published

by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.140 readline 6.2

1.140.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License

giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a

requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that

copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this

License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within

the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the

Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.141 util-linux 2.32.1

1.141.1 Available under license :

```
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
```

License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPLv2.1 file.
WEV @@ WEV[B "1

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3 file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.142 sg3-utils 1.47

1.142.1 Available under license :

Copyright (c) 1999-2018, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
Eric Youngdale <eric at andante dot org>

Copyright:

This software is copyright(c) 1994-2021 by the authors

Most of the code in this package is covered by a BSD license.
On Debian systems, the complete text of the BSD License
can be found in `/usr/share/common-licenses/BSD'. All the code
in the library (usually called libsgutils) is covered by a
BSD license.

Some of the older utilities are covered by the GPL. More precisely:
You are free to distribute this software under the terms of the
GNU General Public License either version 2, or (at your option)
any later version. On Debian systems, the complete text of the GNU
General Public License can be found in /usr/share/common-licenses/GPL-2
file. The later GPL-3 is found in /usr/share/common-licenses/GPL-3
file but no code in this package refers to that license.

Douglas Gilbert
4th October 2021

Copyright (c) 1999-2019, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Above is the:
SPDX-License-Identifier: BSD-2-Clause

Copyright (c) 1999-2019, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Above is the:
SPDX-License-Identifier: BSD-2-Clause

1.143 libpcap 1.6.2

1.143.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.144 sim-agent-devicetaskmgr 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.144.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.145 dhcp 4.3.2

1.145.1 Available under license :

Copyright (c) 2004-2015 by Internet Systems Consortium, Inc. ("ISC")
Copyright (c) 1995-2003 by Internet Software Consortium
#
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
#
THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
#
Internet Systems Consortium, Inc.
950 Charter Street
Redwood City, CA 94063
<info@isc.org>
https://www.isc.org/

See the specific source files for any additional copyright or
license statements.
Redistribution terms Automated Testing Framework
==========

License
****

Copyright (c) 2007, 2008, 2009, 2010, 2011, 2012 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, 2012 Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Relicensed code
****

The following code snippets have been taken from other projects. Even though they were not originally licensed under the terms above, the original authors have agreed to relicense their work so that this project can be distributed under a single license. This section is put here just to clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
Copyright (C) 2004-2015 Internet Systems Consortium, Inc. ("ISC")
Copyright (C) 1996-2003 Internet Software Consortium.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Portions of this code release fall under one or more of the
following Copyright notices. Please see individual source
files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2002 Stichting NLnet, Netherlands, stichting@nlnet.nl.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1987, 1990, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) The Internet Society 2005. This version of
this module is part of RFC 4178; see the RFC itself for
full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions

are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* Neither the name of Rice University (RICE) nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is"
basis, without any representations or warranties of any kind, express
or implied including, but not limited to, representations or
warranties of non-infringement, merchantability or fitness for a
particular purpose. In no event shall RICE or contributors be liable
for any direct, indirect, incidental, special, exemplary, or
consequential damages (including, but not limited to, procurement of

substitute goods or services; loss of use, data, or profits; or
business interruption) however caused and on any theory of liability,
whether in contract, strict liability, or tort (including negligence
or otherwise) arising in any way out of the use of this software, even
if advised of the possibility of such damage.

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and that
the name of Digital Equipment Corporation not be used in advertising or
publicity pertaining to distribution of the document or software without
specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS
BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any
   modified or derived work) in source and/or binary forms is permitted
   under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright (C) 2004 Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface

(Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing the derived work.

RSA Security Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project

for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
endorse or promote products derived from this software without
prior written permission. For written permission, please contact
licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL"
nor may "OpenSSL" appear in their names without prior written
permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following
acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2005 - 2008, Holger Zuleger HZnet. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Holger Zuleger HZnet nor the names of its contributors may
be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any

modified or derived work) in source and/or binary forms is permitted
under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they
appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
this License Terms and Conditions, in the documentation and/or other
materials provided with the distribution. For the purposes of binary
distribution the "Copyright Notice" refers to the following language:
"Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products
derived from this Software without specific prior written approval of
JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.146 an-barcelona 0.0.0

1.146.1 Available under license :

Copyright 2017 Degica

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.147 lib-pq 1.10.6

1.147.1 Available under license :

```
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
```

```
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

Copyright (c) 2011-2013, 'pq' Contributors
Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.148 asn1 2.4.1

1.148.1 Available under license :

MIT License

Copyright (c) 2020 Adriano Provvisiero

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.149 kubernetes-client 0.26.2

1.149.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.150 libpcap 1.9.1

1.150.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. The names of the authors may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

```
/*-
* Copyright (c) 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997
* The Regents of the University of California.  All rights reserved.
*
* This code is derived from the Stanford/CMU enet packet filter,
* (net/enet.c) distributed as part of 4.3BSD, and code contributed
* to Berkeley by Steven McCanne and Van Jacobson both of Lawrence
* Berkeley Laboratory.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*      This product includes software developed by the University of
*      California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

1.151 urllib3 1.26.6-1.ph1

1.151.1 Available under license :

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.152 pinentry 0.9.2

1.152.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.153 json-c 0.9

1.153.1 Available under license :

Copyright (c) 2009-2012 Eric Haszlakiewicz

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2004, 2005 Metaparadigm Pte Ltd

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.154 vim 8.1

1.155 modern-go-concurrent 0.0.0-20180306012644-bacd9c7ef1dd

1.155.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.156 html5lib 1.0.1

1.156.1 Available under license :

Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2006-2013 James Graham, Geoffrey Sneddon, and
other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.157 acl 2.2.52

1.157.1 Available under license :

Most components of the "acl" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see COPYING.LGPL).

Some components (as annotated in the source) are licensed
under Version 2 of the GNU General Public License (see below),

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
This package was debianized by Nathan Scott nathans@debian.org on Tue, 26 Feb 2002 13:25:26 +1100

It can be downloaded from ftp://acl.bestbits.at/

Copyright:

Copyright (C) 2001 Andreas Gruenbacher.
Copyright (C) 2001-2002 Silicon Graphics, Inc. All Rights Reserved.

You are free to distribute this software under Version 2.1 of the GNU Lesser General Public License.
On Debian systems, refer to /usr/share/common-licenses/LGPL-2.1 for the complete text of the GNU Lesser General Public License.

Certain components (as annotated in the source) are licensed under the terms of the GNU General Public License.
On Debian systems, the complete text of the GNU General Public License can be found in /usr/share/common-licenses/GPL file.
Most components of the "acl" package are licensed under Version 2.1 of the GNU Lesser General Public License (see below).
below.

Some components (as annotated in the source) are licensed under Version 2 of the GNU General Public License (see COPYING).

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is

modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.158 nettle 3.1.1

1.158.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE

PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the

Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.159 chardet 4.0.0

1.159.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide

complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these,

write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.160 color 1.13.0

1.160.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.161 go-retryablehttp 0.7.1

1.161.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant,

then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from

such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.162 goprocinfo 0.0.0-20210130143923-c95fcf8c64a8

1.162.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013-2014 Yo-An Lin

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.163 protobuf 1.27.1

1.163.1 Available under license :

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.

1.164 shadow 4.2.1

1.164.1 Available under license :

NOTE:
 This license has been obsoleted by the change to the BSD-style copyright.
 You may continue to use this license if you wish, but you are under no
 obligation to do so.

(*
This document is freely plagiarised from the 'Artistic Licence',
distributed as part of the Perl v4.0 kit by Larry Wall, which is
available from most major archive sites. I stole it from CrackLib.

 Id
*)

This documents purpose is to state the conditions under which this
Package (See definition below) viz: "Shadow", the Shadow Password Suite
which is held by Julianne Frances Haugh, may be copied, such that the
copyright holder maintains some semblance of artistic control over the
development of the package, while giving the users of the package the
right to use and distribute the Package in a more-or-less customary
fashion, plus the right to make reasonable modifications.

So there.

****

Definitions:

A "Package" refers to the collection of files distributed by the
Copyright Holder, and derivatives of that collection of files created
through textual modification, or segments thereof.

"Standard Version" refers to such a Package if it has not been modified,
or has been modified in accordance with the wishes of the Copyright
Holder.

"Copyright Holder" is whoever is named in the copyright or copyrights
for the package.

"You" is you, if you're thinking about copying or distributing this
Package.

"Reasonable copying fee" is whatever you can justify on the basis of
media cost, duplication charges, time of people involved, and so on.
(You will not be required to justify it to the Copyright Holder, but
only to the computing community at large as a market that must bear the
fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when AND WHY you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide separate documentation for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables

non-standard names, and clearly documenting the differences in manual
pages (or equivalent), together with instructions on where to get the
Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package. You may charge any fee you choose for support of this Package.
YOU MAY NOT CHARGE A FEE FOR THIS PACKAGE ITSELF. However, you may
distribute this Package in aggregate with other (possibly commercial)
programs as part of a larger (possibly commercial) software distribution
provided that YOU DO NOT ADVERTISE this package as a product of your
own.

6. The name of the Copyright Holder may not be used to endorse or
promote products derived from this software without specific prior
written permission.

7. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it

in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not

compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS

TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.165 zap 1.19.1

1.165.1 Available under license :

Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.166 hd-parm 9.48

1.166.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General

Public License instead of this License.
This package was debianized by Christopher L Cheney <ccheney@debian.org> on
Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from http://www.ibiblio.org/pub/Linux/system/hardware

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */

You are free to distribute this software under the terms of the BSD License.
On Debian systems, the complete text of the BSD License can be found in
/usr/share/common-licenses/BSD
BSD-Style Open Source License:

You may freely use, modify, and redistribute the hdparm program,
as either binary or source, or both.

The only condition is that my name and copyright notice
remain in the source code as-is.

Mark Lord (mlord@pobox.com)

1.167 ndfc-dcnmcms 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.167.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.168 u-boot 2010.3

1.168.1 Available under license :

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk
Copyright (c) 2010, Andrey Makarov (makarov@bmstu.ru, mka-at-mailru@mail.ru),
with Reserved Font Name Anka/Coder Narrow.

Copyright (c) 2011, Pablo Impallari (www.impallari.com|impallari@gmail.com),
Rodrigo Fuenzalida (www.rfuenzalida.com) with Reserved Font Name Cantora.

This Font Software is licensed under the SIL Open Font License, Version 1.1.
This license is copied below, and is also available with a FAQ at:
http://scripts.sil.org/OFL

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide
development of collaborative font projects, to support the font creation
efforts of academic and linguistic communities, and to provide a free and
open framework in which fonts may be shared and improved in partnership
with others.

The OFL allows the licensed fonts to be used, studied, modified and
redistributed freely as long as they are not sold by themselves. The
fonts, including any derivative works, can be bundled, embedded,
redistributed and/or sold with any software provided that any reserved
names are not used by derivative works. The fonts and derivatives,
however, cannot be released under any other type of license. The
requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

DEFINITIONS
"Font Software" refers to the set of files released by the Copyright

Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting -- in part or in whole -- any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS
Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1) Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.

2) Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

3) No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4) The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5) The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created

using the Font Software.

TERMINATION
This license becomes null and void if any of the above conditions are
not met.

DISCLAIMER
THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.
Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain the above
   copyright notice, this list of conditions and the following
   disclaimer.
2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials
   provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
ISC License:
Copyright (c) 2004-2010 by Internet Systems Consortium, Inc. ("ISC")
Copyright (c) 1995-2003 by Internet Software Consortium

Permission to use, copy, modify, and/or distribute this software
for any purpose with or without fee is hereby granted,
provided that the above copyright notice and this permission notice

appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.
This source code has been made available to you by IBM on an AS-IS
basis. Anyone receiving this source is licensed under IBM
copyrights to use it in any way he or she deems fit, including
copying it, modifying it, compiling it, and redistributing it either
with or without modifications. No license under IBM patents or
patent applications is to be implied by the copyright license.

Any user of this software should understand that IBM cannot provide
technical support for this software and will not be responsible for
any consequences resulting from the use of this software.

Any person who transfers this source code or any derivative work
must include the IBM copyright notice, this paragraph, and the
preceding two paragraphs in the transferred software.

COPYRIGHT I B M CORPORATION 1995
LICENSED MATERIAL - PROGRAM PROPERTY OF I B M
License

LZMA SDK is placed in the public domain.
The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
Note that this license is not endorsed by the Free Software Foundation.
It is available here as a convenience to readers of [1]the license
list.

The eCos license version 2.0

This file is part of eCos, the Embedded Configurable Operating System.
Copyright (C) 1998, 1999, 2000, 2001, 2002 Red Hat, Inc.

eCos is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

eCos is distributed in the hope that it will be useful, but WITHOUT ANY
WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with eCos; if not, write to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from this file, or you compile this file and
link it with other works to produce a work based on this file, this
file does not by itself cause the resulting work to be covered by the
GNU General Public License. However the source code for this file must
still be made available in accordance with section (3) of the GNU
General Public License.

This exception does not invalidate any other reasons why a work based
on this file might be covered by the GNU General Public License.

Alternative licenses for eCos may be arranged by contacting Red Hat,
Inc. at http://sources.redhat.com/ecos/ecos-license/

####ECOSGPLCOPYRIGHTEND####

References

1. http://www.gnu.org/licenses/license-list.html

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this

will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that

you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it

contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it,

either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component

itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to

apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions, and the following disclaimer,
without modification.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The names of the above-listed copyright holders may not be used
to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
X11 License
Copyright (C) 1996 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

X Window System is a trademark of X Consortium, Inc.

1.169 net-snmp 5.1

1.169.1 Available under license :

Various copyrights apply to this package, listed in 4 separate parts below. Please make sure that you read all the parts. Up until 2001, the project was based at UC Davis, and the first part covers all code written during this time. From 2001 onwards, the project has been based at SourceForge, and Networks Associates Technology, Inc hold the copyright on behalf of the wider Net-SNMP community, covering all derivative work done since then. An additional copyright section has been added as Part 3 below also under a BSD license for the work contributed by Cambridge Broadband Ltd. to the project since 2001. An additional copyright section has been added as Part 4 below also

under a BSD license for the work contributed by Sun Microsystems, Inc.
to the project since 2003.

Code has been contributed to this project by many people over
the years it has been in development, and a full list of contributors
can be found in the README file under the THANKS section.

---- Part 1: CMU/UCD copyright notice: (BSD like) -----

Copyright 1989, 1991, 1992 by Carnegie Mellon University

Derivative Work - 1996, 1998-2000
Copyright 1996, 1998-2000 The Regents of the University of California

All Rights Reserved

Permission to use, copy, modify and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appears in all copies and
that both that copyright notice and this permission notice appear in
supporting documentation, and that the name of CMU and The Regents of
the University of California not be used in advertising or publicity
pertaining to distribution of the software without specific written
permission.

CMU AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA DISCLAIM ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL CMU OR
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM THE LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

---- Part 2: Networks Associates Technology, Inc copyright notice (BSD) -----

Copyright (c) 2001-2003, Networks Associates Technology, Inc
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Networks Associates Technology, Inc nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 3: Cambridge Broadband Ltd. copyright notice (BSD) -----

Portions of this code are copyright (c) 2001-2003, Cambridge Broadband Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Cambridge Broadband Ltd. may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 4: Sun Microsystems, Inc. copyright notice (BSD) -----

Copyright 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Use is subject to license terms below.

This distribution may include materials developed by third parties.

Sun, Sun Microsystems, the Sun logo and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Sun Microsystems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 5: Sparta, Inc copyright notice (BSD) -----

Copyright (c) 2003, Sparta, Inc
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the Networks Associates Technology, Inc nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.170 bash 4.2.10

1.170.1 Available under license :

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.

Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a

section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements",

"Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering

more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit

permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A

"Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

> Copyright (c) YEAR YOUR NAME.
> Permission is granted to copy, distribute and/or modify this document
> under the terms of the GNU Free Documentation License, Version 1.3
> or any later version published by the Free Software Foundation;
> with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
> A copy of the license is included in the section entitled "GNU
> Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

> with the Invariant Sections being LIST THEIR TITLES, with the
> Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we

recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free

programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain

clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates

for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after

your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The

work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is

conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the

Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a

copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see

<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item

APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file

format whose markup, or absence of markup, has been arranged to thwart
or discourage subsequent modification by readers is not Transparent.
An image format is not Transparent if used for any substantial amount
of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
@sc{ascii} without markup, Texinfo input format, La@TeX{} input
format, @acronym{SGML} or @acronym{XML} using a publicly available
@acronym{DTD}, and standard-conforming simple @acronym{HTML},
PostScript or @acronym{PDF} designed for human modification. Examples
of transparent image formats include @acronym{PNG}, @acronym{XCF} and
@acronym{JPG}. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, @acronym{SGML} or
@acronym{XML} for which the @acronym{DTD} and/or processing tools are
not generally available, and the machine-generated @acronym{HTML},
PostScript or @acronym{PDF} produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.)  To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the

copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version

number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group

Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Unless otherwise stated, all files in this directory are Copyright (C)
1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,
2004,2005,2006,2007,2008,2009,2010,2011
Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying
and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.171 sed 4.2.2

1.171.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's

users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted

by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The "Document", below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as "you". You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by

proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct
  from that of the Document, and from those of previous versions

(which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material

copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections

Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the

Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

Copyright (c) YEAR YOUR NAME.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
A copy of the license is included in the section entitled "GNU
Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

1.172 nfs-utils 1.3.0

1.172.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in

the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN

OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.173 gogo-protobuf 1.3.2

1.173.1 Available under license :

Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

1.174 libdaemon 0.14

1.174.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.175 sim-agent-api 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.175.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.176 libproxy 0.4.11

1.176.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.177 sha1sum-aws_signing_client 0.0.0-20200229211254-f7815c59d5c1

1.177.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Anthony Atkinson

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.178 logr 1.2.2

1.178.1 Available under license :

MIT License

Copyright (c) 2018 EveryMundo

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.179 openssl 1.1.1q

1.179.1 Available under license :

```
LICENSE ISSUES
==============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License
---------------

/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
```

```
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
```

```
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
```

*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the

Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software

distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.180 attr 2.4.47

1.180.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from ftp://oss.sgi.com/projects/xfs/download/

Copyright:

Copyright (C) 2001-2002 Silicon Graphics, Inc. All Rights Reserved.
Copyright (C) 2001 Andreas Gruenbacher.

You are free to distribute this software under Version 2.1
of the GNU Lesser General Public License.
On Debian systems, refer to /usr/share/common-licenses/LGPL-2.1
for the complete text of the GNU Lesser General Public License.

Certain components (as annotated in the source) are licensed
under version 2 of the terms of the GNU General Public License.
On Debian systems, the complete text of the GNU General Public
License can be found in /usr/share/common-licenses/GPL file.
Most components of the "attr" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see below).
below.

Some components (as annotated in the source) are licensed
under Version 2 of the GNU General Public License (see COPYING).

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether

this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or

other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Most components of the "attr" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see COPYING.LGPL).

Some components (as annotated in the source) are licensed
under Version 2 of the GNU General Public License (see below),

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.181 diffutils 3.6

1.181.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10

makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7

additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord

with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or

author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a)

provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may

not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the

combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),

EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.182 xml-apis 1.4.01

1.182.1 Available under license :

xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

HEAR YE, HEAR YE!

All of the .java software and associated documentation about
the DOM in this repository are distributed under the license
from the W3C, which is provided herein.

LICENSE.dom-software.txt covers all software from the W3C
including the following items in the xml-commons project:

xml-commons/java/external/src/org/w3c
and all subdirectories

(Note: SAC (The Simple API for CSS) has been published under an older
version of the W3C license. The original license file is LICENSE.sac.html.)

LICENSE.dom-documentation.txt covers all documentation from the W3C
including the following items in the xml-commons project:

xml-commons/java/external/xdocs/dom
and all subdirectories

The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one-html.html

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html
xml-commons/java/external/README.sax.txt $Id: README.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

HEAR YE, HEAR YE!

All of the .java software and associated documentation about
SAX in this repository are distributed freely in the
public domain.

LICENSE.sax.txt covers all software and documentation from the
megginson.com including the following in the xml-commons project:

xml-commons/java/external/src/org/xml/sax
and all subdirectories
xml-commons/java/external/xdocs/sax

and all subdirectories

The actual SAX classes in xml-commons came from:
http://www.megginson.com/Software/index.html
The original versions are tagged 'SAX-2_0-r2-prerelease'
xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip (COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE
Copyright 2004 World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License. The software license requires "Notice of any changes or modifications to the W3C files, including the date changes were made." Consequently, modified versions of the DOM bindings must document that they do not conform to the W3C standard; in the case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the case of the Java language binding, the package names can no longer be in the 'org.w3c' package.

Note: The original version of the W3C Software Copyright Notice and License could be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
 ==========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache xml-commons xml-apis      ==
==  distribution.                                                      ==
 ==========================================================================
```

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org

xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 226215 2005-06-03 22:49:13Z mrglavas $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.
2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all

times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002.
This version removes the copyright ownership notice such that this license can
be used with materials other than those owned by the W3C, moves information on
style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is
now a host of the W3C, includes references to this specific dated version of
the license, and removes the ambiguous grant of "use". See the older
formulation for the policy prior to this date. Please see our Copyright FAQ for
common questions about using materials from our site, such as the translating
or annotating specifications. Other questions about this notice can be directed
to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered
under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at
http://www.saxproject.org/ for more up-to-date
releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05

1.183 olivere-elastic 5.0.60

1.183.1 Available under license :

Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a list of people who have contributed code
to the Elastic repository.
#
It is just my small "thank you" to all those that helped
making Elastic what it is.
#
Please keep this list sorted.

0x6875790d0a [@huydx](https://github.com/huydx)
Aaron Tami [@aarontami](https://github.com/aarontami)
Adam Alix [@adamalix](https://github.com/adamalix)
Adam Weiner [@adamweiner](https://github.com/adamweiner)
Adam Szaraniec [@mimol91](https://github.com/mimol91)
Adrian Lungu [@AdrianLungu](https://github.com/AdrianLungu)
alehano [@alehano](https://github.com/alehano)
Alejandro Carstens [@alejandro-carstens](https://github.com/alejandro-carstens)
Alex [@akotlar](https://github.com/akotlar)
Alexander Sack [@asac](https://github.com/asac)
Alexandre Olivier [@aliphen](https://github.com/aliphen)
Alexey Sharov [@nizsheanez](https://github.com/nizsheanez)
Aman Jain [@amanjain97](https://github.com/amanjain97)
Anders [@ANerd](https://github.com/ANerd)
AndreKR [@AndreKR](https://github.com/AndreKR)
Andr Bierlein [@ligustah](https://github.com/ligustah)
Andrew Dunham [@andrew-d](https://github.com/andrew-d)
Andrew Gaul [@andrewgaul](https://github.com/andrewgaul)
Andy Walker [@alaska](https://github.com/alaska)
Arpit Agarwal [@arpiagar](https://github.com/arpiagar)
Arquivei [@arquivei](https://github.com/arquivei)

Artemiy Elozhenko [@artezh](https://github.com/artezh)
arthurgustin [@arthurgustin](https://github.com/arthurgustin)
Bas van Dijk [@basvandijk](https://github.com/basvandijk)
Benjamin Fernandes [@LotharSee](https://github.com/LotharSee)
Benjamin Zarzycki [@kf6nux](https://github.com/kf6nux)
bestgopher [@bestgopher](https://github.com/bestgopher)
Bjrn Gerdau [@kernle32dll](https://github.com/kernle32dll)
Boris Popovschi [@Zyqsempai](https://github.com/Zyqsempai)
Bowei Xu [@vancexu](https://github.com/vancexu)
Braden Bassingthwaite [@bbassingthwaite-va](https://github.com/bbassingthwaite-va)
Brady Love [@bradylove](https://github.com/bradylove)
Bryan Conklin [@bmconklin](https://github.com/bmconklin)
Bruce Zhou [@brucez-isell](https://github.com/brucez-isell)
Carl Dunham [@carldunham](https://github.com/carldunham)
Carl Johan Gustavsson [@cjgu](https://github.com/cjgu)
Carson [@carson0321](https://github.com/carson0321)
Cat [@cat-turner](https://github.com/cat-turner)
Csar Jimnez [@cesarjimenez](https://github.com/cesarjimenez)
cforbes [@cforbes](https://github.com/cforbes)
(Chang Tai Wei) [@david30907d](https://github.com/david30907d)
cheshire [@NikitaSerenko](https://github.com/NikitaSerenko)
Chris M [@tebriel](https://github.com/tebriel)
Chris Rice [@donutmonger](https://github.com/donutmonger)
Claudiu Olteanu [@claudiuolteanu](https://github.com/claudiuolteanu)
Chris Duncan [@veqryn](https://github.com/veqryn)
Chris Ludden [@cludden](https://github.com/cludden)
Christophe Courtaut [@kri5](https://github.com/kri5)
cmitchell [@cmitchell](https://github.com/cmitchell)
Connor Peet [@connor4312](https://github.com/connor4312)
Conrad Pankoff [@deoxxa](https://github.com/deoxxa)
Corey Scott [@corsc](https://github.com/corsc)
Chris Petersen [@ex-nerd](https://github.com/ex-nerd)
czxichen [@czxichen](https://github.com/czxichen)
Daniel Barrett [@shendaras](https://github.com/shendaras)
Daniel Heckrath [@DanielHeckrath](https://github.com/DanielHeckrath)
Daniel Imfeld [@dimfeld](https://github.com/dimfeld)
Daniel Santos [@danlsgiga](https://github.com/danlsgiga)
David Emanuel Buchmann [@wuurrd](https://github.com/wuurrd)
Devin Christensen [@quixoten](https://github.com/quixoten)
diacone [@diacone](https://github.com/diacone)
Diego Becciolini [@itizir](https://github.com/itizir)
Don Smith III [@cactauz](https://github.com/cactauz)
Dwayne Schultz [@myshkin5](https://github.com/myshkin5)
Elizabeth Jarrett [@mejarrett](https://github.com/mejarrett)
Elliot Williams [@elliotwms](https://github.com/elliotwms)
Ellison Leo [@ellisonleao](https://github.com/ellisonleao)
Emil Gedda [@EmilGedda](https://github.com/EmilGedda)
Erik Grinaker [@erikgrinaker](https://github.com/erikgrinaker)

Erwin [@eticzon](https://github.com/eticzon)
Etienne Lafarge [@elafarge](https://github.com/elafarge)
Eugene Egorov [@EugeneEgorov](https://github.com/EugeneEgorov)
Evan Shaw [@edsrzf](https://github.com/edsrzf)
Fanfan [@wenpos](https://github.com/wenpos)
Faolan C-P [@fcheslack](https://github.com/fcheslack)
Filip Tepper [@filiptepper](https://github.com/filiptepper)
Garrett Kelley [@GarrettKelley](https://github.com/GarrettKelley)
Gaspard Douady [@plopik](https://github.com/plopik)
Gaylord Aulke [@blafasel42](https://github.com/blafasel42)
Gerhard Hring [@ghaering](https://github.com/ghaering)
gregoryfranklin [@gregoryfranklin](https://github.com/gregoryfranklin)
Guilherme Silveira [@guilherme-santos](https://github.com/guilherme-santos)
Guillaume J. Charmes [@creack](https://github.com/creack)
Guiseppe [@gm42](https://github.com/gm42)
Han Yu [@MoonighT](https://github.com/MoonighT)
Harmen [@alicebob](https://github.com/alicebob)
Haroldo Vlez [@Haroldov](https://github.com/Haroldov)
Harrison Wright [@wright8191](https://github.com/wright8191)
Henry Clifford [@hcliff](https://github.com/hcliff)
Henry Stern [@hstern](https://github.com/hstern)
Herbert Lu [@lryong](https://github.com/lryong)
Igor Dubinskiy [@idubinskiy](https://github.com/idubinskiy)
initialcontext [@initialcontext](https://github.com/initialcontext)
Isaac Saldana [@isaldana](https://github.com/isaldana)
Ishan Jain [@ishanjain28](https://github.com/ishanjain28)
J Barkey Wolf [@jjhbw](https://github.com/jjhbw)
Jack Lindamood [@cep21](https://github.com/cep21)
Jacob [@jdelgad](https://github.com/jdelgad)
Jan Dpmeier [@jduepmeier](https://github.com/jduepmeier)
Jayme Rotsaert [@jrots](https://github.com/jrots)
Jean-Alexandre Beaumont [@Enteris](https://github.com/Enteris)
Jean-Franois Roche [@jfroche](https://github.com/jfroche)
Jeff Rand [@jeffrand](https://github.com/jeffrand)
Jeremy Canady [@jrmycanady](https://github.com/jrmycanady)
Jrmie Vexiau [@texvex](https://github.com/texvex)
Jesper Brnn [@Yopi](https://github.com/Yopi)
Jim Berlage [@jimberlage](https://github.com/jimberlage)
Joe Buck [@four2five](https://github.com/four2five)
John Barker [@j16r](https://github.com/j16r)
John Goodall [@jgoodall](https://github.com/jgoodall)
John Stanford [@jxstanford](https://github.com/jxstanford)
Jonas Groenaas Drange [@semafor](https://github.com/semafor)
Josef Frhle [@Dexus](https://github.com/Dexus)
Jos Martnez [@xose](https://github.com/xose)
Josh Chorlton [@jchorl](https://github.com/jchorl)
Jpnock [@Jpnock](https://github.com/Jpnock)
jun [@coseyo](https://github.com/coseyo)

Junpei Tsuji [@jun06t](https://github.com/jun06t)
Karen Yang [@kyangtt](https://github.com/kyangtt)
kartlee [@kartlee](https://github.com/kartlee)
Keith Hatton [@khatton-ft](https://github.com/khatton-ft)
kel [@liketic](https://github.com/liketic)
Kenta SUZUKI [@suzuken](https://github.com/suzuken)
Kevin Mulvey [@kmulvey](https://github.com/kmulvey)
Kyle Brandt [@kylebrandt](https://github.com/kylebrandt)
Larry Cinnabar [@larrycinnabar](https://github.com/larrycinnabar)
Leandro Piccilli [@lpic10](https://github.com/lpic10)
Lee [@leezhm](https://github.com/leezhm)
lechnertech [@lechnertech](https://github.com/lechnertech)
M. Zulfa Achsani [@misterciput](https://github.com/misterciput)
Maciej Lisiewski [@c2h5oh](https://github.com/c2h5oh)
Mara Kim [@autochthe](https://github.com/autochthe)
Marcy Buccellato [@marcybuccellato](https://github.com/marcybuccellato)
Mark Costello [@mcos](https://github.com/mcos)
Martin Hger [@protomouse](https://github.com/protomouse)
Matt Braymer-Hayes [@mattayes](https://github.com/mattayes)
Medhi Bechina [@mdzor](https://github.com/mdzor)
Mike Beshai [@mbesh](https://github.com/mbesh)
Mikhail Balabin [@mablabin](https://github.com/mbalabin)
mmfrb [@mmfrb](https://github.com/mmfrb)
mnpritula [@mnpritula](https://github.com/mnpritula)
mosa [@mosasiru](https://github.com/mosasiru)
Muhammet akr [@cakirmuha](https://github.com/cakirmuha)
Munkyu Im [@munkyu](https://github.com/munkyu)
naimulhaider [@naimulhaider](https://github.com/naimulhaider)
Naoya Yoshizawa [@azihsoyn](https://github.com/azihsoyn)
Naoya Tsutsumi [@tutuming](https://github.com/tutuming)
Nathan Macnamara [@nathanmac](https://github.com/nathanmac)
Nathan Lacey [@nlacey](https://github.com/nlacey)
navins [@ishare](https://github.com/ishare)
NeoCN [@NeoCN](https://github.com/NeoCN)
Nguyen Xuan Dung [@dungnx](https://github.com/dungnx)
Nicholas Wolff [@nwolff](https://github.com/nwolff)
Nick K [@utrack](https://github.com/utrack)
Nick Whyte [@nickw444](https://github.com/nickw444)
Nicolae Vartolomei [@nvartolomei](https://github.com/nvartolomei)
okhowang [@okhowang](https://github.com/okhowang)
Orne Brocaar [@brocaar](https://github.com/brocaar)
ottramst [@ottramst](https://github.com/ottramst)
Paul [@eyeamera](https://github.com/eyeamera)
Paul Oldenburg [@lr-paul](https://github.com/lr-paul)
Pedro [@otherview](https://github.com/otherview)
Pete C [@peteclark-ft](https://github.com/peteclark-ft)
Peter Nagy [@nagypeterjob](https://github.com/nagypeterjob)
Paolo [@ppiccolo](https://github.com/ppiccolo)

Phillip Baker [@phillbaker](https://github.com/phillbaker)
QilingZhao [@qilingzhao](https://github.com/qilingzhao)
Igor Panychek [@panychek](https://github.com/panychek)
Radoslaw Wesolowski [@r--w](https://github.com/r--w)
Rafa Gaus [@rgalus](https://github.com/rgalus)
rchicoli [@rchicoli](https://github.com/rchicoli)
Roman Colohanin [@zuzmic](https://github.com/zuzmic)
Ryan Schmukler [@rschmukler](https://github.com/rschmukler)
Ryan Wynn [@rwynn](https://github.com/rwynn)
Sacheendra talluri [@sacheendra](https://github.com/sacheendra)
Sean DuBois [@Sean-Der](https://github.com/Sean-Der)
Sagan Yaroslav [@sgnrslv](https://github.com/sgnrslv)
Shalin LK [@shalinlk](https://github.com/shalinlk)
Simon Schneider [@raynigon](https://github.com/raynigon)
singham [@zhaochenxiao90](https://github.com/zhaochenxiao90)
Slawomir CALUCH [@slawo](https://github.com/slawo)
soarpenguin [@soarpenguin](https://github.com/soarpenguin)
Stephan Krynauw [@skrynauw](https://github.com/skrynauw)
Stephen Kubovic [@stephenkubovic](https://github.com/stephenkubovic)
Stuart Warren [@Woz](https://github.com/stuart-warren)
Sulaiman [@salajlan](https://github.com/salajlan)
Sundar [@sundarv85](https://github.com/sundarv85)
Swarlston [@Swarlston](https://github.com/Swarlston)
Take [ww24](https://github.com/ww24)
Tetsuya Morimoto [@t2y](https://github.com/t2y)
TheZeroSlave [@TheZeroSlave](https://github.com/TheZeroSlave)
Tomasz Elendt [@telendt](https://github.com/telendt)
TimeEmit [@TimeEmit](https://github.com/timeemit)
TusharM [@tusharm](https://github.com/tusharm)
wangtuo [@wangtuo](https://github.com/wangtuo)
Wdney Yuri [@wedneyyuri](https://github.com/wedneyyuri)
Wesley Kim [@wesleyk](https://github.com/wesleyk)
wolfkdy [@wolfkdy](https://github.com/wolfkdy)
Wyndham Blanton [@wyndhblb](https://github.com/wyndhblb)
Yarden Bar [@ayashjorden](https://github.com/ayashjorden)
Yuya Kusakabe [@higebu](https://github.com/higebu)
zakthomas [@zakthomas](https://github.com/zakthomas)
Zach [@snowzach](https://github.com/snowzach)
zhangxin [@visaxin](https://github.com/visaxin)
@ [@zplzpl](https://github.com/zplzpl)
The MIT License (MIT)
Copyright 2012-2015 Oliver Eilhard

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the Software), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED AS IS, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.184 boringssl 0.12.0.0

1.184.1 Notifications :

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.184.2 Available under license :

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL licensing. Files that are completely new have a Google copyright and an ISC license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Files in third_party/ have their own licenses, as described therein. The MIT license, for third_party/fiat, which, unlike other third_party directories, is compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from some authors is recorded for use of their work. (This is purely for our own record keeping.)
27287199
27287880
27287883

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
```

```
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
```

*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */

The code in third_party/fiat carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Licenses for support code

Parts of the TLS test suite are under the Go license. This code is not included in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BoringSSL uses the Chromium test infrastructure to run a continuous build, trybots etc. The scripts which manage this, and the script for generating build metadata, are under the Chromium license. Distributing code linked against BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.185 sim-scp 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.185.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.186 readline 7.0

1.186.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different

permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with

modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are

not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct

from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions

it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,

you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license

from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A

``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.'' line with this:

@smallexample

@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.187 go-colorable 0.1.12

1.187.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.188 sqlite 3.18.0

1.188.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

1.189 libassuan 2.5.1

1.189.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10

makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7

additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord

with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or

author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a)

provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may

not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the

combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),

EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that

you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.190 makedumpfile 1.6.4

1.190.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.191 golang 1.18.2

1.191.1 Available under license :

// Copyright 2009 The Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.192 curl 7.85.0

1.192.1 Available under license :

Copyright (c) <year> <owner>.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
BSD-4-Clause (University of California-Specific)

Copyright [various years] The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the University of California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT

SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2022, Daniel Stenberg, <daniel@haxx.se>, and many contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.
Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.193 bind 9.10.2

1.193.1 Available under license :

Redistribution terms Automated Testing Framework
==========

License
****

Copyright (c) 2007, 2008, 2009, 2010, 2011, 2012 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, 2012 Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors

may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Relicensed code
****

The following code snippets have been taken from other projects. Even
though they were not originally licensed under the terms above, the
original authors have agreed to relicense their work so that this project
can be distributed under a single license. This section is put here just to
clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
Copyright (C) 2004-2015 Internet Systems Consortium, Inc. ("ISC")
Copyright (C) 1996-2003 Internet Software Consortium.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Portions of this code release fall under one or more of the
following Copyright notices. Please see individual source
files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2002 Stichting NLnet, Netherlands, stichting@nlnet.nl.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1987, 1990, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) The Internet Society 2005. This version of
this module is part of RFC 4178; see the RFC itself for
full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* Neither the name of Rice University (RICE) nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is" basis, without any representations or warranties of any kind, express or implied including, but not limited to, representations or warranties of non-infringement, merchantability or fitness for a particular purpose. In no event shall RICE or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS
BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different

license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright (C) 2004 Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR

PERFORMANCE OF THIS SOFTWARE.

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is
identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface
(Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that
such works are identified as "derived from the RSA Security Inc. PKCS #11
Cryptographic Token Interface (Cryptoki)" in all material mentioning or
referencing the derived work.

RSA Security Inc. makes no representations concerning either the
merchantability of this software or the suitability of this software for
any particular purpose. It is provided "as is" without express or implied
warranty of any kind.

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

3. All advertising materials mentioning features or use of this
software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
endorse or promote products derived from this software without
prior written permission. For written permission, please contact
licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL"
nor may "OpenSSL" appear in their names without prior written
permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following
acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

```
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
<!--
- Copyright (C) 2005, 2007, 2009  Internet Systems Consortium, Inc. ("ISC")
-
- Permission to use, copy, modify, and/or distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.
-
- THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
- REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
- AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
- INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
- LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
- OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
- PERFORMANCE OF THIS SOFTWARE.
-->

<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
   <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
   <xsl:if test="translate($rest, '&#9;&#32;', '')">
     <xsl:call-template name="isc.copyright.format">
       <xsl:with-param name="text" select="$rest"/>
     </xsl:call-template>
   </xsl:if>
 </xsl:template>
```

```
 <xsl:variable name="isc.copyright.text">
   <xsl:text>
     Permission to use, copy, modify, and/or distribute this software for any
     purpose with or without fee is hereby granted, provided that the above
     copyright notice and this permission notice appear in all copies.

     THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
     REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
     AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
     INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM
     LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
     OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
     PERFORMANCE OF THIS SOFTWARE.
   </xsl:text>
 </xsl:variable>

 <xsl:variable name="isc.copyright">
   <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text">
 <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
   <xsl:text>Copyright (C) </xsl:text>
   <xsl:call-template name="copyright.years">
     <xsl:with-param name="years" select="year"/>
   </xsl:call-template>
   <xsl:text> </xsl:text>
   <xsl:value-of select="holder"/>
   <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
     </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>

</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

Copyright (c) 2005 - 2008, Holger Zuleger HZnet. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Holger Zuleger HZnet nor the names of its contributors may
be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any
modified or derived work) in source and/or binary forms is permitted
under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they
appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
this License Terms and Conditions, in the documentation and/or other
materials provided with the distribution. For the purposes of binary
distribution the "Copyright Notice" refers to the following language:
"Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.194 pcre 8.44

1.194.1 Available under license :

PCRE2 LICENCE

Please see the file LICENCE in the PCRE2 distribution for licensing details.

End
PCRE2 LICENCE

PCRE2 is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Releases 10.00 and above of PCRE2 are distributed under the terms of the "BSD" licence, as specified below, with one exemption for certain binary redistributions. The documentation for PCRE2, supplied in the "doc" directory, is distributed under the same terms as the software itself. The data in the testdata directory is not copyrighted and is in the public domain.

The basic library functions are written in C and are freestanding. Also included in the distribution is a just-in-time compiler that can be used to optimize pattern matching. This is an optional feature that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: Philip.Hazel

Email domain: gmail.com

University of Cambridge Computing Service,
Cambridge, England.

Copyright (c) 1997-2020 University of Cambridge
All rights reserved.

PCRE2 JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

Copyright(c) 2010-2020 Zoltan Herczeg
All rights reserved.

STACK-LESS JUST-IN-TIME COMPILER

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

Copyright(c) 2009-2020 Zoltan Herczeg
All rights reserved.

THE "BSD" LICENCE

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notices,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notices, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the University of Cambridge nor the names of any
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXEMPTION FOR BINARY LIBRARY-LIKE PACKAGES

The second condition in the BSD licence (covering binary redistributions) does not apply all the way down a chain of software. If binary package A includes PCRE2, it must respect the condition, but if package B is software that includes package A, the condition is not imposed on package B unless it uses PCRE2 independently.

End
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.195 lzo 2.09

1.195.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.196 sysv-init 2.86-1

1.196.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Sysvinit is Copyright (C) 1991-2004 Miquel van Smoorenburg

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.197 python-requests 2.27.1

1.197.1 Available under license :

Requests
Copyright 2019 Kenneth Reitz

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.198 resty 2.7.0

1.198.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015-2021 Jeevanandam M., https://myjeeva.com <jeeva@myjeeva.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.199 yaml 1.3.0

1.199.1 Available under license :

Copyright 2018 Eemeli Aro <eemeli@gmail.com>

Permission to use, copy, modify, and/or distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.200 google-uuid 1.3.0

1.200.1 Available under license :

Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.201 pkcs8 0.0.0-20181117223130-1be2e3e5546d

1.201.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.202 kubernetes-api 0.21.4

1.202.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.203 utils 0.0.0-20201110183641-67b214c5f920

1.203.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.204 cavaliercoder-go-rpm 0.0.0-20190131055624-7a9c54e3d83e

1.204.1 Available under license :

Copyright (c) 2017 Ryan Armstrong. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors
may be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.205 otel-internal-metric 0.27.0

1.205.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License

Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.
```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software. It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety. If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
// 1. Redistributions of source code must retain the above copyright notice,
// this list of conditions and the following disclaimer.
//
// 2. Redistributions in binary form must reproduce the above copyright
// notice, this list of conditions and the following disclaimer in the
// documentation and/or other materials provided with the distribution.
//
// 3. The name of the author may be used to endorse or promote products
// derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.206 kubernetes-klog 2.60.1

1.206.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor

that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding

such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate

notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included on
the same "printed page" as the copyright notice for easier identification within
third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.207 sqlite 3.40.1

1.207.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
```

```
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
```

```
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
```

```
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
```

```
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
```

```
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
```

```
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
```

```
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
```

Found in path(s):
* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.h

No license file was found, but licenses were detected in source scan.

/* This will be more informative in a later version. */

Found in path(s):
* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/shell.c
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
```

```
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_SMALL_MALLOC]] <dt>SQLITE_CONFIG_SMALL_MALLOC</dt>
** <dd> ^The SQLITE_CONFIG_SMALL_MALLOC option takes single argument of
** type int, interpreted as a boolean, which if true provides a hint to
** SQLite that it should avoid large memory allocations if possible.
** SQLite will run faster if it is free to make large memory allocations,
** but some application might prefer to run slower in exchange for
** guarantees about memory fragmentation that are possible if large
** allocations are avoided.  This hint is normally off.
** </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
```

```
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_hard_heap_limit64()]
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> The SQLITE_CONFIG_SCRATCH option is no longer used.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a memory pool
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration option is a no-op if an application-defined page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2].
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned memory (pMem), the size of each page cache line (sz),
** and the number of cache lines (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using [SQLITE_CONFIG_PCACHE_HDRSZ].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The pMem
** argument must be either a NULL pointer or a pointer to an 8-byte
** aligned block of memory of at least sz*N bytes, otherwise
** subsequent behavior is undefined.
** ^When pMem is not NULL, SQLite will strive to use the memory provided
** to satisfy page cache needs, falling back to [sqlite3_malloc()] if
** a page cache line is larger than sz bytes or if all of the pMem buffer
** is exhausted.
** ^If pMem is NULL and N is non-zero, then each database connection
** does an initial bulk allocation for page cache memory
** from [sqlite3_malloc()] sufficient for N cache lines if N is positive or
** of -1024*N bytes if N is negative, . ^If additional
** page cache memory is needed beyond what is provided by the initial
** allocation, then SQLite goes to [sqlite3_malloc()] separately for each
** additional cache line. </dd>
**
```

```
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
```

```
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
```

```
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
```

```
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
**
** [[SQLITE_CONFIG_STMTJRNL_SPILL]]
** <dt>SQLITE_CONFIG_STMTJRNL_SPILL
** <dd>^The SQLITE_CONFIG_STMTJRNL_SPILL option takes a single parameter which
** becomes the [statement journal] spill-to-disk threshold.
** [Statement journals] are held in memory until their size (in bytes)
** exceeds this threshold, at which point they are written to disk.
** Or if the threshold is -1, statement journals are always held
** exclusively in memory.
** Since many statement journals never become large, setting the spill
** threshold to a value such as 64KiB can greatly reduce the amount of
** I/O required to support statement rollback.
** The default value for this setting is controlled by the
** [SQLITE_STMTJRNL_SPILL] compile-time option.
**
** [[SQLITE_CONFIG_SORTERREF_SIZE]]
** <dt>SQLITE_CONFIG_SORTERREF_SIZE
```

```
** <dd>The SQLITE_CONFIG_SORTERREF_SIZE option accepts a single parameter
** of type (int) - the new value of the sorter-reference size threshold.
** Usually, when SQLite uses an external sort to order records according
** to an ORDER BY clause, all fields required by the caller are present in the
** sorted records. However, if SQLite determines based on the declared type
** of a table column that its values are likely to be very large - larger
** than the configured sorter-reference size threshold - then a reference
** is stored in each sorted record and the required column values loaded
** from the database as records are returned in sorted order. The default
** value for this option is to never use this optimization. Specifying a
** negative value for this option restores the default behaviour.
** This option is only available if SQLite is compiled with the
** [SQLITE_ENABLE_SORTER_REFERENCES] compile-time option.
**
** [[SQLITE_CONFIG_MEMDB_MAXSIZE]]
** <dt>SQLITE_CONFIG_MEMDB_MAXSIZE
** <dd>The SQLITE_CONFIG_MEMDB_MAXSIZE option accepts a single parameter
** [sqlite3_int64] parameter which is the default maximum size for an in-memory
** database created using [sqlite3_deserialize()].  This default maximum
** size can be adjusted up or down for individual databases using the
** [SQLITE_FCNTL_SIZE_LIMIT] [sqlite3_file_control|file-control].  If this
** configuration setting is never used, then the default maximum is determined
** by the [SQLITE_MEMDB_DEFAULT_MAXSIZE] compile-time option.  If that
** compile-time option is not set, then the default maximum is 1073741824.
** </dl>
*/
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
**************************************************************************
```

```
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
**   *  sqlite3_file methods not associated with locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
```

Found in path(s):
* /opt/cola/permits/1541729670_1675313227.6905026/0/sqlite-amalgamation-3400100-zip/sqlite-amalgamation-3400100/sqlite3.c

1.208 gofuzz 1.1.0

1.208.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.209 @andromeda/an-apollo 1.0.11-7723

1.209.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 - 2016 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.210 strace 4.5

1.210.1 Available under license :

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>

Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (C) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

$Id: COPYRIGHT,v 1.3 2002/03/31 18:43:00 wichert Exp $
This is the Debian packaged version of strace. For a complete list of
changes from the upstream version please see the changelog.

The upstream sources can be found at http://www.liacs.nl/~wichert/strace/

This is the copyright as found in the upstream sources:

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>
Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (C) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

$Id: copyright,v 1.1 2002/03/31 18:45:45 wichert Exp $

1.211 urllib3 1.25.8-2ubuntu0.1

1.211.1 Available under license :

Contributions to the urllib3 project

Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
 * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
 * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
 * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
 * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
 * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
 * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
 * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
 * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
 * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
 * Support for TLS SNI
 * API unification of ssl_version/cert_reqs
 * SSL fingerprint and alternative hostname verification
 * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
 * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
 * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
 * Correct six.moves conflict
 * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
 * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
 * Stream method for Response objects.
 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
 * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
 * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
 * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
 * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
 * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
 * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
 * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
 * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
 * Disabled TLS compression by default on Python 3.2+
 * Disabled TLS compression in pyopenssl contrib module
 * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
 * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
 * HTTPHeaderDict and associated tests and docs
 * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
 * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
 * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
 * PEP8 Compliance and Linting

* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
* Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
* IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
 * Ensure timeouts are not booleans and greater than zero.
 * Fixed infinite loop in ``stream`` when amt=None.
 * Added length_remaining to determine remaining data to be read.
 * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
 * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
 * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
 * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
 * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
 * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
 * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
 * Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
 * Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
 * Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
 * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
 * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
 * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
 * Minor fixes in the test suite

* Will Bond <will@wbond.net>
 * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
 * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* [Your name or handle] <[email or website]>
 * [Brief summary of your changes]
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: urllib3
Upstream-Contact: Andrey Petrov <andrey.petrov@shazow.net>
Source: https://pypi.org/project/urllib3/

Files: *
Copyright: 2008-2019, Andrey Petrov and contributors
License: Expat

Files: src/urllib3/contrib/_securetransport/*
Copyright: 2015-2016, Will Bond <will@wbond.net>
License: Expat

Files: src/urllib3/packages/backports/makefile.py
Copyright: 2007, Python Software Foundation
License: PSF-2

Files: src/urllib3/packages/six.py
Copyright: 2010-2015, Benjamin Peterson
License: Expat

Files: src/urllib3/packages/ssl_match_hostname/__init__.py
Copyright: 2011, Python Software Foundation
License: PSF-2

Files: debian/*
Copyright: 2012-2019, Daniele Tricoli <eriol@debian.org>

License: Expat

License: Expat
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
.
The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License: PSF-2
1. This LICENSE AGREEMENT is between the Python Software Foundation
("PSF"), and the Individual or Organization ("Licensee") accessing
and otherwise using this software ("Python") in source or binary form
and its associated documentation.
.
2. Subject to the terms and conditions of this License Agreement, PSF
hereby grants Licensee a nonexclusive, royalty-free, world-wide
license to reproduce, analyze, test, perform and/or display publicly,
prepare derivative works, distribute, and otherwise use Python alone
or in any derivative version, provided, however, that PSF's License
Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001,
2002, 2003, 2004, 2005, 2006 Python Software Foundation; All Rights
Reserved" are retained in Python alone or in any derivative version
prepared by Licensee.
.
3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make the
derivative work available to others as provided herein, then Licensee
hereby agrees to include in any such work a brief summary of the
changes made to Python.
.
4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR

FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

MIT License

Copyright (c) 2008-2019 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.212 unimrcp 1.10.1

1.212.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General

Public License instead of this License.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Wireshark is distributed under the GNU GPL. There are no restrictions on its use. There are significant restrictions on its distribution.

Parts of Wireshark can be built and distributed as libraries. These parts are still covered by the GPL, and NOT by the Lesser General Public License or any other license.

If you create a combined work using all or part of Wireshark, then your combined work must be released under a license compatible with the GPL.

...and don't get us started on trademarks.

The full text of the GNU GPL follows.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
This text consists of three parts:

Part I: Some remarks regarding the license given in
Part II: The actual license that covers Wireshark.
Part III: Other applicable licenses.

When in doubt: Part II/III is the legally binding part, Part I is just there to make it easier for people that are not familiar with the GPLv2.

Part I:

Wireshark is distributed under the GNU GPLv2. There are no restrictions on its use. There are restrictions on its distribution in source or binary form.

Most parts of Wireshark are covered by a "GPL version 2 or later" license. Some files are covered by different licenses that are compatible with the GPLv2.

As a notable exception the pidl utility at tools/pidl is covered by a "GPL version 3 or later" license. Note that only the tool itself

is covered by this license, not the source code generated by it. The
pidl authors do not consider generated code a derived work of pidl.

Parts of Wireshark can be built and distributed as libraries. These
parts are still covered by the GPL, and NOT by the Lesser General Public
License or any other license.

If you integrate all or part of Wireshark into your own application, then
that application must be released under a license compatible with the GPL.

The full text of the GNU GPL and the other applicable licenses follows.

Part II:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Part III:

Parts of this software are licensed as follows

Copyright (c) 1988, 1992, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Markus Friedl. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Endace Technology Ltd, Hamilton, New Zealand.
All rights reserved.

This software and documentation has been developed by Endace Technology Ltd. along with the DAG PCI network capture cards. For further information please visit http://www.endace.com/.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of Endace Technology Ltd may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997, 1999 Hellmuth Michaelis. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that

you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the

notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This package was debianized by Frederic Peters <fpeters@debian.org> on
Sun, 13 Sep 1998 23:05:47 +0200

It was downloaded from http://www.wireshark.org/download/src/all-versions/

The Wireshark web site URL is http://www.wireshark.org/

Upstream Authors:
Gerald Combs <gerald@wireshark.org> and contributors

Except where otherwise noted in the source code, Wireshark is covered under
the GNU General Public License (v2 or later).

Wireshark is copyright (c) 1998-2006 Gerald Combs.

* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version 2
* of the License, or (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, write to the Free Software
* Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

On Debian systems the GNU GPL may be viewed in /usr/share/common-licenses/GPL.

Wireshark and the "fin" logo are trademarks of Gerald Combs.

Source files included in Wireshark and with other licenses are listed below:

Public Domain
---

g711.c:
* This source code is a product of Sun Microsystems, Inc. and is provided
* for unrestricted use. Users may copy or modify this source code without
* charge.
*
* SUN SOURCE CODE IS PROVIDED AS IS WITH NO WARRANTIES OF ANY KIND INCLUDING
* THE WARRANTIES OF DESIGN, MERCHANTIBILITY AND FITNESS FOR A PARTICULAR
* PURPOSE, OR ARISING FROM A COURSE OF DEALING, USAGE OR TRADE PRACTICE.
*
* Sun source code is provided with no support and without any obligation on
* the part of Sun Microsystems, Inc. to assist in its use, correction,
* modification or enhancement.
*
* SUN MICROSYSTEMS, INC. SHALL HAVE NO LIABILITY WITH RESPECT TO THE
* INFRINGEMENT OF COPYRIGHTS, TRADE SECRETS OR ANY PATENTS BY THIS SOFTWARE
* OR ANY PART THEREOF.
*
* In no event will Sun Microsystems, Inc. be liable for any lost revenue
* or profits or other special, indirect and consequential damages, even if
* Sun has been advised of the possibility of such damages.
*
* Sun Microsystems, Inc.
* 2550 Garcia Avenue
* Mountain View, California 94043

LGPL
---

mkstemp.c: LGPL, from GNU C Library
mkstemp.h: idem
strncasecmp.c: idem
strptime.c: idem
ps.c: idem
* Copyright (C) 1991, 1992, 1996, 1998 Free Software Foundation, Inc.
* This file is part of the GNU C Library.
*
* The GNU C Library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public License as

* published by the Free Software Foundation; either version 2 of the
* License, or (at your option) any later version.
*
* The GNU C Library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with the GNU C Library; see the file COPYING.LIB. If not,
* write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor,
* Boston, MA 02110-1301, USA.

epan/g_ascii_strtoull.c: LGPL, from GLIB
epan/g_ascii_strtoull.h: idem
gtk/ethclist.c: idem
gtk/ethclist.h: idem
* GLIB - Library of useful routines for C programming
* Copyright (C) 1995-1997 Peter Mattis, Spencer Kimball and Josh MacDonald
* Copyright (C) 1997-1998 Jay Painter <jpaint@serv.net><jpaint@gimp.org>
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Lesser General Public License for more details.
*
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
* 02110-1301, USA.

epan/dfilter/grammar.c: LGPL, Copyright 1991-1995 by D. Richard Hipp
tools/lemon/lempar.c: idem
* Copyright 1991-1995 by D. Richard Hipp.
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Library General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,

* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
* Library General Public License for more details.
*
* You should have received a copy of the GNU Library General Public
* License along with this library; if not, write to the
* Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
* 02110-1301, USA.

MIT
---

epan/xmlstub.h:
* This is part of tree.h from the libxml2 distribution. It is used
* for structure reference when dynamically linking to libxml.
*
* The GPL agreement for this file and for libxml2 can be found at
* http://www.xmlsoft.org

Note that libxml2 is MIT-licensed, not GPL.

BSD & BSD-like
---

epan/crypt-md5.c:
epan/crypt-md5.h:
* Copyright (C) 1999, 2000, 2002 Aladdin Enterprises. All rights reserved.
*
* This software is provided 'as-is', without any express or implied
* warranty. In no event will the authors be held liable for any damages
* arising from the use of this software.
*
* Permission is granted to anyone to use this software for any purpose,
* including commercial applications, and to alter it and redistribute it
* freely, subject to the following restrictions:
*
* 1. The origin of this software must not be misrepresented; you must not
*   claim that you wrote the original software. If you use this software
*   in a product, an acknowledgment in the product documentation would be
*   appreciated but is not required.
* 2. Altered source versions must be plainly marked as such, and must not be
*   misrepresented as being the original software.
* 3. This notice may not be removed or altered from any source distribution.
*
* L. Peter Deutsch
* ghost@aladdin.com

epan/except.c:
epan/except.h:
* Portable Exception Handling for ANSI C.
* Copyright (C) 1999 Kaz Kylheku <kaz@ashi.footprints.net>
*
* Free Software License:
*
* All rights are reserved by the author, with the following exceptions:
* Permission is granted to freely reproduce and distribute this software,
* possibly in exchange for a fee, provided that this copyright notice appears
* intact. Permission is also granted to adapt this software to produce
* derivative works, as long as the modified versions carry this copyright
* notice and additional notices stating that the work has been modified.
* This source code may be translated into executable form and incorporated
* into proprietary software; there is no requirement for such software to
* contain a copyright notice related to this source.

epan/in_cksum.c:
epan/inet_aton.c:
* Copyright (c) 1988, 1992, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

epan/inet_ntop.c:
epan/inet_pton.c:
* Copyright (c) 1996-1999 by Internet Software Consortium.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
* ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
* CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.

epan/dissectors/packet-enc.c:
epan/dissectors/packet-etherip.c:
epan/dissectors/packet-ipsec-udp.c:
* Copyright (c) 2003 Markus Friedl. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

epan/dissectors/packet-pflog.c:
epan/dissectors/packet-pflog.h:

* Copyright 2001 Mike Frantzen
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* - Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
* "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
* LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
* FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
* COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
* BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
* CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
* ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.

epan/dissectors/packet-vj.c:

* This file created by Irfan Khan <ikhan@qualcomm.com>
* Copyright (c) 2001 by QUALCOMM, Incorporated.
* All Rights reserved.
*
* Routines to compress and uncompress TCP packets (for transmission
* over low speed serial lines).
*
* Copyright (c) 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms are permitted
* provided that the above copyright notice and this paragraph are
* duplicated in all such forms and that any documentation,
* advertising materials, and other materials related to such
* distribution and use acknowledge that the software was developed
* by the University of California, Berkeley. The name of the
* University may not be used to endorse or promote products derived
* from this software without specific prior written permission.
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

wiretap/erf.c:
wiretap/erf.h:
* Copyright (c) 2003 Endace Technology Ltd, Hamilton, New Zealand.
* All rights reserved.
*
* This software and documentation has been developed by Endace Technology Ltd.
* along with the DAG PCI network capture cards. For further information please
* visit http://www.endace.com/.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* 1. Redistributions of source code must retain the above copyright notice,
* this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
*
* 3. The name of Endace Technology Ltd may not be used to endorse or promote
* products derived from this software without specific prior written
* permission.
*
* THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
* EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
* PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
* IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.

wiretap/i4b_trace.h:
* Copyright (c) 1997, 1999 Hellmuth Michaelis. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.

*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Files missing license notices
---

tap-funnel.c:
 Wireshark terms, according to author on wireshark-dev@, message-id:
 <f20d86b70607200240x2a6f7b0as68daf43b2eef6a56@mail.gmail.com>

editcap.c:
merge.c:
mergecap.c:
 Wireshark terms, according to wireshark-dev@, message-id:
 <c9a3e4540607210110v50758766wf272c4e6c74d48f3@mail.gmail.com>

epan/epan.c:
epan/exceptions.h:
epan/dfilter/gencode.h:
epan/dfilter/glib-util.c:
epan/dfilter/glib-util.h:
 Contributed by Gilbert Ramirez, he has been contacted, his other files are
 under Wireshark terms, (message-id: <44C1EFA2.3050907@alum.mit.edu>)

epan/dissectors/packet-bootparams.h:
epan/dissectors/packet-mount.h:
epan/dissectors/packet-nfs.h:
epan/dissectors/packet-x11-keysym.h:
 Corresponding .c files have GPL notices, authors have been contacted for
 clarification.

epan/dissectors/packet-nlm.h: no license info
 Wireshark terms, according to wireshark-dev@, message-id:
 <c9a3e4540607221458j407d552ekf28309c494487a8b@mail.gmail.com>

gtk/win32-file-dlg.h:
 Contributed by Gerald Combs, Wireshark author, no answer yet but there is no

reason why it would not have standard Wireshark terms. Message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/in_cksum.h:
BSD, like in_cksum.c, according to wireshark-dev@, message-id:
<44C1EFA2.3050907@alum.mit.edu>

epan/dissectors/packet-diameter-defs.h:
GNU GPL notice added in current Subversion repository, will be in file for
0.99.3.

snprintf.h:
no longer used, according to wireshark-dev@, but it was under GPL like .c
message-id: <c9a3e4540607200322j2225fdf8q8687b1b1fd13543a@mail.gmail.com>

```
/* <filename>.c
*
* $Id: gpl-template.txt 43536 2012-06-28 22:56:06Z darkjames $
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version 2
* of the License, or (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, write to the Free Software
* Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
*/
```

All files in this directory are dual licensed by the licenses
included below, unless the individual license of a file says
otherwise.

$Id: LICENSE.txt 19708 2006-10-26 16:39:34Z jmayer $

```
##########################################################################
#
#  Copyright (c) ....
#
# This program is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License
```

```
# as published by the Free Software Foundation; either version 2
# of the License, or (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor,
# Boston, MA  02110-1301, USA.
#
#######################################################################
#
#  Copyright (c) ...
#  All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
#
# * Redistributions of source code must retain the above copyright
#   notice, this list of conditions and the following disclaimer.
#
# * Redistributions in binary form must reproduce the above copyright
#   notice, this list of conditions and the following disclaimer in
#   the documentation and/or other materials provided with the
#   distribution.
#
# * Neither the name of the <ORGANIZATION> nor the names of its
#   contributors may be used to endorse or promote products derived
#   from this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
# BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
# LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
# CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
# ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.
#
```

The IDL files in this directory are made available by the Samba Team
under the following license:

Permission to use, copy, modify, and distribute these interface
definitions for any purpose is hereby granted without fee.

This work is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
Copyright notice for the files copied from
http://www.opensync.org/browser/branches/3rd-party-cmake-modules/modules

$Id: COPYING-CMAKE-SCRIPTS 34248 2010-09-25 15:38:12Z jmayer $

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.213 mail 1.4

1.213.1 Available under license :

<h1>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0</h1>

 Definitions.
<blockquote><p>
1.1. "Contributor" means each individual or entity that
creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the
Original Software, prior Modifications used by a
Contributor (if any), and the Modifications made by that
particular Contributor.

1.3. "Covered Software" means (a) the Original Software, or
(b) Modifications, or (c) the combination of files
containing Original Software with files containing
Modifications, in each case including portions thereof.

1.4. "Executable" means the Covered Software in any form
other than Source Code.

1.5. "Initial Developer" means the individual or entity
that first makes Original Software available under this
License.

1.6. "Larger Work" means a work which combines Covered
Software or portions thereof with code not governed by the
terms of this License.

1.7. "License" means this document.

1.8. "Licensable" means having the right to grant, to the
maximum extent possible, whether at the time of the initial
grant or subsequently acquired, any and all of the rights
conveyed herein.

1.9. "Modifications" means the Source Code and Executable
form of any of the following:
<blockquote>
A. Any file that results from an addition to,
deletion from or modification of the contents of a
file containing Original Software or previous
Modifications;

B. Any new file that contains any part of the
Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made
available under the terms of this License.
</blockquote>
1.10. "Original Software" means the Source Code and
Executable form of computer software code that is
originally released under this License.

1.11. "Patent Claims" means any patent claim(s), now owned
or hereafter acquired, including without limitation,
method, process, and apparatus claims, in any patent
Licensable by grantor.

1.12. "Source Code" means (a) the common form of computer
software code in which modifications are made and (b)
associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal
entity exercising rights under, and complying with all of
the terms of, this License. For legal entities, "You"
includes any entity which controls, is controlled by, or is
under common control with You. For purposes of this
definition, "control" means (a) the power, direct or
indirect, to cause the direction or management of such
entity, whether by contract or otherwise, or (b) ownership
of more than fifty percent (50%) of the outstanding shares
or beneficial ownership of such entity.

</blockquote>
 License Grants.
<blockquote>
2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, the
Initial Developer hereby grants You a world-wide,
royalty-free, non-exclusive license:
<blockquote>
(a) under intellectual property rights (other than
patent or trademark) Licensable by Initial Developer,
to use, reproduce, modify, display, perform,
sublicense and distribute the Original Software (or
portions thereof), with or without Modifications,
and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using or selling of Original Software, to make, have
made, use, practice, sell, and offer for sale, and/or
otherwise dispose of the Original Software (or
portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b)
are effective on the date Initial Developer first
distributes or otherwise makes the Original Software
available to a third party under the terms of this
License.

(d) Notwithstanding Section 2.1(b) above, no patent
license is granted: (1) for code that You delete from
the Original Software, or (2) for infringements
caused by: (i) the modification of the Original
Software, or (ii) the combination of the Original
Software with other software or devices.
</blockquote>
2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and
subject to third party intellectual property claims, each
Contributor hereby grants You a world-wide, royalty-free,
non-exclusive license:
 <blockquote>
(a) under intellectual property rights (other than
patent or trademark) Licensable by Contributor to
use, reproduce, modify, display, perform, <a
name="maximumUsageLevelLicense2">sublicense
and distribute the Modifications created by such
Contributor (or portions thereof), either on an
unmodified basis, with other Modifications, as
Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making,
using, or selling of Modifications made by that
Contributor either alone and/or in combination with
its Contributor Version (or portions of such
combination), to make, use, sell, offer for sale,
have made, and/or otherwise dispose of: (1)
Modifications made by that Contributor (or portions
thereof); and (2) the combination of Modifications

made by that Contributor with its Contributor Version
(or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and
2.2(b) are effective on the date Contributor first
distributes or otherwise makes the Modifications
available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent
license is granted: (1) for any code that Contributor
has deleted from the Contributor Version; (2) for
infringements caused by: (i) third party
modifications of Contributor Version, or (ii) the
combination of Modifications made by that Contributor
with other software (except as part of the
Contributor Version) or other devices; or (3) under
Patent Claims infringed by Covered Software in the
absence of Modifications made by that Contributor.

</blockquote>
</blockquote>
 Distribution Obligations.
<blockquote>
3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make
available in Executable form must also be made available in
Source Code form and that Source Code form must be
distributed only under the terms of this License. You must
include a copy of this License with every copy of the
Source Code form of the Covered Software You distribute or
otherwise make available. You must inform recipients of any
such Covered Software in Executable form as to how they can
obtain such Covered Software in Source Code form in a
reasonable manner on or through a medium customarily used
for software exchange.

3.2. Modifications.

The Modifications that You create or to which You
contribute are governed by the terms of this License. You
represent that You believe Your Modifications are Your
original creation(s) and/or You have sufficient rights to
grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification.
You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works.

You may create a Larger Work by combining Covered Software

with other code not governed by the terms of this License
and distribute the Larger Work as a single product. In such
a case, You must make sure the requirements of this License
are fulfilled for the Covered Software.
</blockquote>
 Versions of the License.
<blockquote>
4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and
may publish revised and/or new versions of this License
from time to time. Each version will be given a
distinguishing version number. Except as provided in
Section 4.3, no one other than the license steward has the
right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. If the Initial Developer includes a
notice in the Original Software prohibiting it from being
distributed or otherwise made available under any
subsequent version of the License, You must distribute and
make the Covered Software available under the terms of the
version of the License under which You originally received
the Covered Software. Otherwise, You may also choose to
use, distribute or otherwise make the Covered Software
available under the terms of any subsequent version of the
License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a
new license for Your Original Software, You may create and
use a modified version of this License if You: (a) rename
the license and remove any references to the name of the
license steward (except to note that the license differs
from this License); and (b) otherwise make it clear that
the license contains terms which differ from this License.
</blockquote>

 DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS"
BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED,

INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

 TERMINATION.

<blockquote>

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

</blockquote>
 LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT
(INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE
INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF
COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE
LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK
STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN
INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF
LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO
NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
APPLY TO YOU.

 U.S. GOVERNMENT END USERS.

The Covered Software is a "commercial item," as that term is
defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial
computer software" (as that term is defined at 48 C.F.R.
252.227-7014(a)(1)) and "commercial computer software
documentation" as such terms are used in 48 C.F.R. 12.212 (Sept.
1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1
through 227.7202-4 (June 1995), all U.S. Government End Users
acquire Covered Software with only those rights set forth herein.
This U.S. Government Rights clause is in lieu of, and supersedes,
any other FAR, DFAR, or other clause or provision that addresses
Government rights in computer software under this License.

 MISCELLANEOUS.

This License represents the complete agreement concerning subject
matter hereof. If any provision of this License is held to be
unenforceable, such provision shall be reformed only to the
extent necessary to make it enforceable. This License shall be
governed by the law of the jurisdiction specified in a notice
contained within the Original Software (except to the extent
applicable law, if any, provides otherwise), excluding such
jurisdiction's conflict-of-law provisions. Any litigation
relating to this License shall be subject to the jurisdiction of
the courts located in the jurisdiction and venue specified in a
notice contained within the Original Software, with the losing

party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

 RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

1.214 go-hclog 1.2.0

1.214.1 Available under license :

MIT License

Copyright (c) 2017 HashiCorp

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.215 kube-openapi 0.0.0-20220328201542-3ee0da9b0b42

1.215.1 Available under license :

```
// Copyright 2015 go-swagger maintainers
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//    http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
// Copyright 2015 go-swagger maintainers
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//    http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

package spec
```

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.216 scram 1.1.1

1.216.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Source: https://metacpan.org/release/Authen-SCRAM
Upstream-Contact: David Golden <dagolden@cpan.org>
Upstream-Name: Authen-SCRAM

Files: *
Copyright: 2014, David Golden <dagolden@cpan.org>
License: Apache-2.0

Files: debian/*
Copyright: 2015, Harlan Lieberman-Berg <hlieberman@setec.io>
2018, Xavier Guimard <x.guimard@free.fr>
License: Apache-2.0

License: Apache-2.0
Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at
https://www.apache.org/licenses/LICENSE-2.0
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
.

On Debian systems, the complete text of the Apache License,
Version 2.0 can be found in `/usr/share/common-licenses/Apache-2.0'.

1.217 gorilla 1.8.0

1.217.1 Available under license :

Copyright (c) 2012-2018 The Gorilla Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.218 iw 4.1

1.218.1 Available under license :

Copyright (c) 2007, 2008 Johannes Berg
Copyright (c) 2007 Andy Lutomirski
Copyright (c) 2007 Mike Kershaw
Copyright (c) 2008-2009 Luis R. Rodriguez

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.219 coreutils 8.24

1.219.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive

or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work

in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the

Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or

requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify

or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.220 pinentry 0.9.2

1.220.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.221 nexusdash-golang-core 0.1.0-rajenata.11

1.221.1 Available under license :

The Go source code and supporting files in this directory
are covered by the usual Go license (see ../../../../LICENSE).

When building with GOEXPERIMENT=boringcrypto, the following applies.

The goboringcrypto_linux_amd64.syso object file is built
from BoringSSL source code by build/build.sh and is covered
by the BoringSSL license reproduced below and also at
https://boringssl.googlesource.com/boringssl/+/fips-20190808/LICENSE.

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Some files from Intel are under yet another license, which is also included
underneath.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the
OpenSSL License and the original SSLeay license apply to the toolkit. See below
for the actual license texts. Actually both licenses are BSD-style Open Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
27287199

27287880
27287883

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

```
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
```

```
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

ISC license used for completely new code in BoringSSL:

```
/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */
```

Some files from Intel carry the following license:

```
# Copyright (c) 2012, Intel Corporation
#
# All rights reserved.
#
```

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
#
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
#
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the
distribution.
#
* Neither the name of the Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
#
THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION ""AS IS"" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS

OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
People who have agreed to one of the CLAs and can contribute patches.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Andrea Leofreddi.
Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.222 scipy 1.10.0.dev

1.222.1 Available under license :

Copyright (c) 2005-2015, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

* Neither the name of the NumPy Developers nor the names of any
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files
- numpydoc.py
- docscrape.py
- docscrape_sphinx.py
- phantom_import.py

have the following license:

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files
- compiler_unparse.py
- comment_eater.py
- traitsdoc.py

have the following license:

This software is OSI Certified Open Source Software.

OSI Certified is a certification mark of the Open Source Initiative.

Copyright (c) 2006, Enthought, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of Enthought, Inc. nor the names of its contributors may
  be used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file
- plot_directive.py
originates from Matplotlib (http://matplotlib.sf.net/) which has
the following license:

Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved.

1. This LICENSE AGREEMENT is between John D. Hunter (JDH), and the Individual or Organization (Licensee) accessing and otherwise using matplotlib software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib 0.98.3 alone or in any derivative version, provided, however, that JDHs License Agreement and JDHs notice of copyright, i.e., Copyright (c) 2002-2008 John D. Hunter; All Rights Reserved are retained in matplotlib 0.98.3 alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 0.98.3 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees

to include in any such work a brief summary of the changes made to matplotlib 0.98.3.

4. JDH is making matplotlib 0.98.3 available to Licensee on an AS IS basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB 0.98.3 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB 0.98.3 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB 0.98.3, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between JDH and Licensee. This License Agreement does not grant permission to use JDH trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using matplotlib 0.98.3, Licensee agrees to be bound by the terms and conditions of this License Agreement.

1.223 cavium-liquidio 3.1.2

1.223.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.224 go-resiliency 1.2.0

1.224.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Evan Huus

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.225 libuser 0.62

1.225.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.226 mitchellh-copystructure 1.2.0

1.226.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.227 pkix-ssh 12.1

1.227.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as follows. First, we will summarize and say that all components

are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".

[Tatu continues]
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control.  As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.

[However, none of that term is relevant at this point in time.  All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

 - RSA is no longer included, found in the OpenSSL library
 - IDEA is no longer included, its use is deprecated
 - DES is now external, in the OpenSSL library
 - GMP is no longer used, and instead we call BN code from OpenSSL
 - Zlib is now external, in a library
 - The make-ssh-known-hosts script is no longer included
 - TSS has been removed
 - MD5 is now external, in the OpenSSL library
 - RC4 support has been replaced with ARC4 support from OpenSSL
 - Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this
software are publicly available on the Internet and at any major
bookstore, scientific library, and patent office worldwide.  More
information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these
permissions and restrictions.  Use only at your own responsibility.
You will be responsible for any legal consequences yourself; I am not
making any claims whether possessing or using this is legal or not in
```

your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
```

```
* This code is hereby placed in the public domain.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license,
held by the University of California, since we pulled these parts from
original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard

2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson
Roumen Petrov

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
```

```
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@login.dknet.dk> wrote this file.  As long as you retain this
 * notice you can do whatever you want with this stuff. If we meet
 * some day, and you think this stuff is worth it, you can buy me a
 * beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

```
Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
```

* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

```
* Permission is hereby granted, free of charge, to any person obtaining a  *
* copy of this software and associated documentation files (the           *
* "Software"), to deal in the Software without restriction, including      *
* without limitation the rights to use, copy, modify, merge, publish,      *
* distribute, distribute with modifications, sublicense, and/or sell       *
* copies of the Software, and to permit persons to whom the Software is    *
* furnished to do so, subject to the following conditions:                 *
*                                                                           *
* The above copyright notice and this permission notice shall be included  *
* in all copies or substantial portions of the Software.                    *
*                                                                           *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS  *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF               *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.   *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,   *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR    *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR    *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE.                               *
*                                                                           *
* Except as contained in this notice, the name(s) of the above copyright   *
* holders shall not be used in advertising or otherwise to promote the     *
* sale, use or other dealings in this Software without prior written       *
* authorization.                                                            *
*****************************************************************************/
```

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

1.228 numcpus 0.6.0

1.228.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.229 xerces-j 2.7.1

1.229.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001,2002,2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidatedInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/Base64BinaryDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/HexBinaryDV.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001, 2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/XPathMatcher.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/identity/Selector.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/ValueStore.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001-2004, 2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeGroupDecl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001,2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/ElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/dom/DocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeListCache.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999,2000,2004-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLElementImpl.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2005,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/EmptyXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHandlerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XMLSchemaValidatorComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMResultAugmentor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/XSGrammarPoolContainer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/AbstractXMLSchema.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
```

```
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/DurationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/AttributesProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPValidatorComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/JAXPValidationMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DatatypeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SoftReferenceGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XPointerParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/DatatypeFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/SchemaContentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXLocatorWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeAwareParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerPart.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSQName.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/datatype/XMLGregorianCalendarImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/StreamValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DOMValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/Util.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/LocatorProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ElementSchemePointer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ValidatorHelper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/TeeXMLDocumentFilterImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SchemaValidatorConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/ShortHandPointer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerProxy.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/DraconianErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xpointer/XPointerProcessor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/ReadOnlyGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/BalancedDTDGrammar.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0

*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLDocumentParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XIncludeParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSComplexTypeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SubstitutionGroupHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/QNameDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractSAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDSimpleTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAnnotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecurityConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDComplexTypeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMConfigurationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyURIDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/parsers/XMLGrammarCachingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ObjectFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
    * used to check the 3 constraints against each complex type
    * (should be each model group):
    * Unique Particle Attribution, Particle Derivation (Restriction),
    * Element Declrations Consistent.
    */
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSConstraints.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2000-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
```

*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLResourceIdentifier.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UTF8Reader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNamespaceBinder.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2003-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeNamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XInclude11TextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/XIncludeTextReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/MultipleScopeNamespaceSupport.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001, 2002, 2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");

* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMErrorHandlerWrapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2002,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLSymbols.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xinclude/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/SecuritySupport.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/SecuritySupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XSGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IntegerDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/NSItemListImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2001 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE.
* See W3C License http://www.w3.org/Consortium/Legal/ for more details.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/CharacterDataEditAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASNotationDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMImplementationAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ElementEditAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DocumentAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/dom3/as/DOMASException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001,2002,2004-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/ListDV.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2000-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
```

* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software

* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttributeMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ChildNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/NamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/ElementPSVImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPath.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DocumentBuilderFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMAny.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaNamespaceSupport.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SymbolTable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/EncodingInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/AugmentationsImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2002,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SynchronizedSymbolTable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLAttributesImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/SchemaSymbols.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/Augmentations.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLString.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/AttributePSVImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponentManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLComponent.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/UCSReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NamespaceBinder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLAttributes.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/DefaultValidationErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/ASCIIReader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/JAXPConstants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMASBuilderImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/IntStack.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/Grammar.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/QName.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DefaultErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDTDContentModelHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLGrammarDescription.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001, 2002,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ParserConfigurationSettings.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDUniqueOrKeyTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolverWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/NamespaceContext.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/RevalidationHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMErrorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SymbolHash.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IDREFDV.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/XPathException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/IntegratedParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMLocatorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarPreparser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidatorFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLEntityResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XInt.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLConfigurationException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMInputImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/DTDDVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultXMLDocumentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASModelImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMOutputImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NodeImpl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/EntityDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDeclarationPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/IDDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeFacetException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/XSSimpleType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMStringListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationSourceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGrammarBucket.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDocumentScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParseException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDFilter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLDocumentFragmentHandler.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11DTDDVFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DVFactoryException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XIntPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDContentModelSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XNIException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/UniqueOrKey.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/KeyRef.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLDTDSource.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DatatypeException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/EntityState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BooleanDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMXSImplementationSourceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/DTDDVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/StringDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/InvalidDatatypeValueException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/parser/XMLPullParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/UnionDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractXMLDocumentParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/AttrImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2002-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/impl/xs/XSModelImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLChar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegexParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11NSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentFragmentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSAllCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XHTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11NSDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLErrorReporter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XML11Char.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLScanner.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLParser.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2002,2004-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMNormalizer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ParentNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammar.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NamedNodeMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMUtil.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDProcessor.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002,2003-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
```

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/StringListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSObjectListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/ShortListImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/JAXPNamespaceContextWrapper.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,

* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSElementDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDNotationTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractParticleTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSWildcardDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDGroupTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSNotationDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAttributeGroupTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeDecl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationListImpl.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999,2000,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableCaptionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLIElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTemplateElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLModElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLQuoteElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTitleElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOptgroupElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHeadElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFieldSetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLUElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableCellElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPrevElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/wml/dom/WMLBrElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLParagraphElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTextAreaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLIsIndexElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLStrongElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDoElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLImageElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLObjectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLPreElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLInputElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLIFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFontElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMenuElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLinkElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOneventElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTdElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAppletElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLMetaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLIElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/html/dom/HTMLFormElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLEmElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLStyleElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBaseElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMapElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLRefreshElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLCardElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBRElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLHeadElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSetvarElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLScriptElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLWmlElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLGoElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLUListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLOptionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLabelElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDivElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSelectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLHtmlElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/html/dom/HTMLAreaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBodyElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLFieldsetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableSectionElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptGroupElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTableElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLPostfieldElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLNoopElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLBElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLTableRowElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLInputElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLMetaElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLBigElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLSmallElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLAnchorElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLButtonElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBaseFontElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLSelectElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/dom/WMLTrElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/html/dom/HTMLParamElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameSetElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOListElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLOptionElementImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/grammars/XMLSchemaDescription.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001-2002,2004-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSParticleDecl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002,2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMapImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSNamedMap4Types.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/AnyAtomicDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/ExternalSubsetResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/PrecisionDecimalDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAnnotationInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/SAXMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/ByteListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configurable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSLoaderImpl.java

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2004,2006 The Apache Software Foundation.
*
```

* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/AttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSGroupDecl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2000 World Wide Web Consortium,
* (Massachusetts Institute of Technology, Institut National de
* Recherche en Informatique et en Automatique, Keio University). All
* Rights Reserved. This program is distributed under the W3C's Software
* Intellectual Property License. This program is distributed in the
* hope that it will be useful, but WITHOUT ANY WARRANTY; without even
* the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
* PURPOSE. See W3C License http://www.w3.org/Consortium/Legal/ for more
* details.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/w3c/dom/html/HTMLDOMImplementation.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*

```
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
  * DOM Level 3 LS CR - Experimental.
    * Create a new <code>LSParser</code>. The newly constructed parser may
    * then be configured by means of its <code>DOMConfiguration</code>
    * object, and used to parse documents by means of its <code>parse</code>
    *  method.
    * @param mode  The <code>mode</code> argument is either
    *   <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
    *   <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in synchronous
    *   mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
    *   <code>LSParser</code> that is created will operate in asynchronous
    *   mode.
    * @param schemaType  An absolute URI representing the type of the schema
    *   language used during the load of a <code>Document</code> using the
    *   newly created <code>LSParser</code>. Note that no lexical checking
    *   is done on the absolute URI. In order to create a
    *   <code>LSParser</code> for any kind of schema types (i.e. the
    *   LSParser will be free to use any schema found), use the value
    *   <code>null</code>.
    * <p ><b>Note:</b>    For W3C XML Schema [<a href='http://www.w3.org/TR/2001/REC-xmlschema-1-
20010502/'>XML Schema Part 1</a>]
    *   , applications must use the value
    *   <code>"http://www.w3.org/2001/XMLSchema"</code>. For XML DTD [<a
href='http://www.w3.org/TR/2000/REC-xml-20001006'>XML 1.0</a>],
    *   applications must use the value
    *   <code>"http://www.w3.org/TR/REC-xml"</code>. Other Schema languages
    *   are outside the scope of the W3C and therefore should recommend an
    *   absolute URI in order to use this method.
    * @return  The newly created <code>LSParser</code> object. This
    *   <code>LSParser</code> is either synchronous or asynchronous
    *   depending on the value of the <code>mode</code> argument.
    * <p ><b>Note:</b>    By default, the newly created <code>LSParser</code>
    *    does not contain a <code>DOMErrorHandler</code>, i.e. the value of
    *   the "<a href='http://www.w3.org/TR/2003/WD-DOM-Level-3-Core-20030609/core.html#parameter-error-
handler'>
    *   error-handler</a>" configuration parameter is <code>null</code>. However, implementations
    *   may provide a default error handler at creation time. In that case,
    *   the initial value of the <code>"error-handler"</code> configuration
    *   parameter on the new created <code>LSParser</code> contains a
```

```
   *   reference to the default error handler.
   * @exception DOMException
   *    NOT_SUPPORTED_ERR: Raised if the requested mode or schema type is
   *   not supported.
  */
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/DefaultText.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/IdentityConstraint.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/BasicParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSEmptyCM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xni/XMLLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ErrorHandlerWrapper.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/SchemaDVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/DOMEntityResolverWrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaParsingConfig.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMBuilder.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
// Unique Particle Attribution
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSDFACM.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIElementNSImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002-2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSModelGroupImpl.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLErrorCode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11DTDConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDouble.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EntityResolver2Wrapper.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayTimeDurationDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLCatalogResolver.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/ByteList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/XSDateTime.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11NonValidatingConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/HTTPInputSource.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DayDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DateDV.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2003,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/AttributePSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObject.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSMultiValueFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/XSGrammarPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/xerces/util/SecurityManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ElementPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAnnotation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/LSInputList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamedMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItem.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNamespaceItemList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/PSVIProvider.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ShortList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTerm.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSObjectList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/ItemPSVI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/StringList.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModel.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*     http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/URI.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLVersionDetector.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDocumentInfo.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParserForXMLSchema.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XMLGrammarParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11DTDScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLEntityManager.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLDTDLoader.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializerImpl.java
No license file was found, but licenses were detected in source scan.

cos-nonambig = cos-nonambig: {0} and {1} (or elements from their substitution group) violate \"Unique Particle Attribution\". During validation against this schema, ambiguity would be created for those two particles.

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999,2000,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLCollectionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLIElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLStrongElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLEmElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSelectElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDOMImplementation.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLCardElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLMetaElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/wml/WMLFieldsetElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSetvarElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTemplateElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLGoElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLInputElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLImgElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLDocument.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPrevElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAnchorElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLHeadElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAccessElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPostfieldElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOptionElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/NameNodeListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLSmallElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/html/dom/HTMLFormControl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTdElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBrElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLBigElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-

jar/org/apache/wml/WMLElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLOneventElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLUElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLPElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLAElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLTableElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLWmlElement.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/wml/WMLNoopElement.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
No license file was found, but licenses were detected in source scan.

Copyright 2005 The Apache Software Foundation.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE
2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/datatypes/package.html
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2003-2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/CMNodeFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2002, 2003,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/BaseDVFactory.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/util/SimpleLocator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSDDescription.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLResourceIdentifierImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FullDVFactory.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001,2002,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/FieldActivator.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2002,2004,2005 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XMLSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RegularExpression.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ListDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/RangeToken.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/XML11Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CoreDocumentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMLeaf.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/BaseMarkupSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XML11DTDProcessor.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Token.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMStateSet.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2000-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.

*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Constants.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/jaxp/SAXParserImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DOMParserImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2001-2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/DoubleDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/StandardParserConfiguration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOM.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/XML11Configuration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/identity/Field.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/FloatDV.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/AbstractDOMParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/opti/SchemaDOMParser.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2003-2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
*      http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSSimpleTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSElementDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSFacet.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroupDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSAttributeUse.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSIDCDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSWildcard.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSComplexTypeDefinition.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSNotationDeclaration.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSModelGroup.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/xs/XSParticle.java
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 1999-2002,2004,2006 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
```

* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DocumentTypeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/TreeWalkerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/XSAttributeUseImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementImpl.java
No license file was found, but licenses were detected in source scan.

/*
* Copyright 1999-2002,2004 The Apache Software Foundation.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

Found in path(s):
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLEntityDecl.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/msg/XMLMessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLElementDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ASDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/ENTITYDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMBinOp.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMBinOp.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/NOTATIONDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/Base64.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLSimpleType.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/OutputFormat.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/DTDParser.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredTextImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredProcessingInstructionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/xs/SchemaDateTimeException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/MutationEventImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/DOMSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11NMTOKENDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLContentSpec.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/parsers/CachingParserPool.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/HTMLdtd.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLStringBuffer.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/LCount.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/events/EventImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityReferenceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeepNodeListImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Encodings.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XMLNSDocumentScannerImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementNSImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/REUtil.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/EncodingMap.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Serializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/DTDGrammarBucket.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLAttributeDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredEntityImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredDocumentTypeImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNSDTDValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredAttrImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/EntityReferenceImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/XMLNotationDecl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactoryImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Printer.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/Op.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/validation/ValidationManager.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CharacterDataImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/Method.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/Version.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/XML11IDREFDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ProcessingInstructionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/XMLGrammarPoolImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNotationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredElementImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredCommentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/util/HexBin.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/ElementDefinitionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/xpath/regex/ParseException.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CommentImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/MixedContentModel.java

* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/XML11EntityScanner.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/SimpleContentModel.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/RangeExceptionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/ContentModelValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/util/MessageFormatter.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/LineSeparator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dv/dtd/IDDatatypeValidator.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/DeferredNode.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/dom/CDATASectionImpl.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xerces/impl/dtd/models/CMUniOp.java
* /opt/cola/permits/1124919501_1611197727.99/0/xercesimpl-2-8-0-sources-jar/org/apache/xml/serialize/SerializerFactory.java

1.230 tdb 1.43

1.230.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.231 etree 1.1.1-0.20200718192613-4a2f8b9d084c

1.231.1 Available under license :

Copyright 2015-2019 Brett Vickers. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDER ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Brett Vickers (beevik)
Felix Geisendrfer (felixge)
Kamil Kisiel (kisielk)
Graham King (grahamking)
Matt Smith (ma314smith)
Michal Jemala (michaljemala)
Nicolas Piganeau (npiganeau)
Chris Brown (ccbrown)
Earncef Sequeira (earncef)
Gabriel de Labachelerie (wuzuf)

1.232 montanaflynn-stats 0.0.0-20171201202039-1bf9dbcd8cbe

1.232.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: stats
Source: https://github.com/montanaflynn/stats

Files: *
Copyright: 2014-2015 Montana Flynn (https://anonfunction.com)
License: Expat

Files: debian/*
Copyright: 2017 Anthony Fok <foka@debian.org>
License: Expat
Comment: Debian packaging is licensed under the same terms as upstream

License: Expat
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
.
The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.233 pierrec-lz4 2.6.1+incompatible

1.233.1 Available under license :

Copyright (c) 2015, Pierre Curto
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of xxHash nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.234 wireshark 1.10.1

1.234.1 Available under license :

The IDL files in this directory are made available by the Samba Team
under the following license:

Permission to use, copy, modify, and distribute these interface
definitions for any purpose is hereby granted without fee.

This work is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you

distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is

void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it

under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE

PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Wireshark is distributed under the GNU GPL. There are no restrictions on its use. There are significant restrictions on its distribution.

Parts of Wireshark can be built and distributed as libraries. These parts are still covered by the GPL, and NOT by the Lesser General Public License or any other license.

If you create a combined work using all or part of Wireshark, then your combined work must be released under a license compatible with the GPL.

...and don't get us started on trademarks.

The full text of the GNU GPL follows.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
/* <filename>.c
*

* $Id: gpl-template.txt 43536 2012-06-28 22:56:06Z darkjames $
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
*
* This program is free software; you can redistribute it and/or
* modify it under the terms of the GNU General Public License
* as published by the Free Software Foundation; either version 2
* of the License, or (at your option) any later version.
*
* This program is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
* GNU General Public License for more details.
*
* You should have received a copy of the GNU General Public License
* along with this program; if not, write to the Free Software
* Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
*/

Copyright notice for the files copied from
http://www.opensync.org/browser/branches/3rd-party-cmake-modules/modules

$Id: COPYING-CMAKE-SCRIPTS 34248 2010-09-25 15:38:12Z jmayer $

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

All files in this directory are dual licensed by the licenses
included below, unless the individual license of a file says
otherwise.

$Id: LICENSE.txt 19708 2006-10-26 16:39:34Z jmayer $

```
#######################################################################
#
#  Copyright (c) ....
#
# This program is free software; you can redistribute it and/or
# modify it under the terms of the GNU General Public License
# as published by the Free Software Foundation; either version 2
# of the License, or (at your option) any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program; if not, write to the Free Software
# Foundation, Inc., 51 Franklin Street, Fifth Floor,
# Boston, MA  02110-1301, USA.
#
#######################################################################
#
#  Copyright (c) ...
#  All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
#
# * Redistributions of source code must retain the above copyright
#   notice, this list of conditions and the following disclaimer.
#
# * Redistributions in binary form must reproduce the above copyright
#   notice, this list of conditions and the following disclaimer in
#   the documentation and/or other materials provided with the
#   distribution.
#
# * Neither the name of the <ORGANIZATION> nor the names of its
#   contributors may be used to endorse or promote products derived
#   from this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
#
This text consists of three parts:

Part I: Some remarks regarding the license given in
Part II: The actual license that covers Wireshark.
Part III: Other applicable licenses.

When in doubt: Part II/III is the legally binding part, Part I is just
there to make it easier for people that are not familiar with the GPLv2.

Part I:

Wireshark is distributed under the GNU GPLv2. There are no restrictions
on its use. There are restrictions on its distribution in source or
binary form.

Most parts of Wireshark are covered by a "GPL version 2 or later" license.
Some files are covered by different licenses that are compatible with
the GPLv2.

As a notable exception the pidl utility at tools/pidl is covered by a
"GPL version 3 or later" license. Note that only the tool itself
is covered by this license, not the source code generated by it. The
pidl authors do not consider generated code a derived work of pidl.

Parts of Wireshark can be built and distributed as libraries. These
parts are still covered by the GPL, and NOT by the Lesser General Public
License or any other license.

If you integrate all or part of Wireshark into your own application, then
that application must be released under a license compatible with the GPL.

The full text of the GNU GPL and the other applicable licenses follows.

Part II:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Part III:

Parts of this software are licensed as follows

Copyright (c) 1988, 1992, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Markus Friedl. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Endace Technology Ltd, Hamilton, New Zealand.
All rights reserved.

This software and documentation has been developed by Endace Technology Ltd. along with the DAG PCI network capture cards. For further information please visit http://www.endace.com/.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of Endace Technology Ltd may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1997, 1999 Hellmuth Michaelis. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.235 netbsd-resolv 2.22

1.235.1 Available under license :

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for

you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License'').  Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms.  A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
``any later version'', you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

@center @b{NO WARRANTY}

@item

BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status

of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation`s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the

software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author`s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors` reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone`s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program`s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically

terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program`s name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w`. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c`
for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation. These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following
license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC
Berkeley, by Digital Equipment Corporation and by Internet Software
Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and
that the name of Digital Equipment Corporation not be used in
advertising or publicity pertaining to distribution of the document or
software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP.
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following
license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials
  provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS" CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or extensions that they make and grant Carnegie Mellon the rights to redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form.
1. All terms of the all other applicable copyrights and licenses must be followed.
2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright
The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011 Simon Josefsson

This file is part of GNU Libidn.

GNU Libidn is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

GNU Libidn is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with GNU Libidn; if not, see <http://www.gnu.org/licenses/>.

The following notice applies to portions of libidn/nfkc.c:

This file contains functions from GLIB, including gutf8.c and
gunidecomp.c, all licensed under LGPL and copyright hold by:

Copyright (C) 1999, 2000 Tom Tromey
Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and
libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello.

Disclaimer and license: Regarding this entire document or any
portion of it (including the pseudocode and C code), the author
makes no guarantees and is not responsible for any damage resulting
from its use. The author grants irrevocable permission to anyone
to use, modify, and distribute it in any way that does not diminish
the rights of anyone else to use, modify, and distribute it,
provided that redistributed derivative works do not contain
misleading author or version information. Derivative works need
not be licensed under similar terms.

Copyright (C) The Internet Society (2003). All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works. However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of

developing Internet standards in which case the procedures for copyrights defined in the Internet Standards process must be followed, or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
  software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
  explicit claim or by omission. Since few users ever read sources,
  credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
  misrepresented as being the original software. Since few users
  ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. In practice, this means that if you use
PCRE in software that you distribute to others, commercially or
otherwise, you must put a sentence like this

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant
files or online help data or similar. A reference to the ftp site for
the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not
intended to apply to whole chains of software. If package A includes PCRE,
it must acknowledge it, but if package B is software that includes package
A, the condition is not imposed on package B (unless it uses PCRE
independently).

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
then the terms of that licence shall supersede any condition above with
which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew:

(C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

1. you do not pretend that you wrote it
2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, see
<http://www.gnu.org/licenses/>. */
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative

works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy

a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications

adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item

Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by

adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History"
in the various original documents, forming one section Entitled
``History"; likewise combine any sections Entitled ``Acknowledgements",
and any sections Entitled ``Dedications". You must delete all
sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any
World Wide Web server that publishes copyrightable works and also
provides prominent facilities for anybody to edit those works. A
public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,

provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.236 augeas 1.4.0

1.236.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source

code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it

becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference

directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.237 keypoint-pngencoder 0.7.2

1.237.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of

any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a

copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.238 packaging 20.4

1.238.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made
under the terms of *both* these licenses.
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.239 structured-merge-diff 4.1.2

1.239.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go
writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.240 libaio 0.3.109

1.240.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.
^L
Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining

where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.241 iptables 1.14.21

1.241.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as

distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.242 gdbm 1.8.3

1.242.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below,

refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.243 binutils 2.36.1

1.243.1 Available under license :

(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS

file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog

targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using

patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

Copyright (C) 2012-2021 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the

Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation

into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall

be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does

not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a

covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section

of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the

copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version

if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original

publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or

distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder

fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts

being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with

the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the

Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.

Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest

possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.244 kube-openapi 0.0.0-20221012153701-172d655c2280

1.244.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2020 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

```
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Copyright 2015 go-swagger maintainers
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//    http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
// Copyright 2015 go-swagger maintainers
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//    http://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

package spec

// License information for the exposed API.
//
```

```
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.245 ndfc-aas 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.245.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.246 python 2.7.9

1.246.1 Available under license :

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this
distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional Conditions for this Windows binary build

This program is linked with and uses Microsoft Distributable Code,
copyrighted by Microsoft Corporation. The Microsoft Distributable Code
includes the following files:

msvcr90.dll
msvcp90.dll
msvcm90.dll

If you further distribute programs that include the Microsoft
Distributable Code, you must comply with the restrictions on
distribution specified by Microsoft. In particular, you must require
distributors and external end users to agree to terms that protect the
Microsoft Distributable Code at least as much as Microsoft's own
requirements for the Distributable Code. See Microsoft's documentation
(included in its developer tools and on its website at microsoft.com)
for specific details.

Redistribution of the Windows binary build of the Python interpreter
complies with this agreement, provided that you do not:

- alter any copyright, trademark or patent notice in Microsoft's
Distributable Code;

- use Microsoft's trademarks in your programs' names or in a way that

suggests your programs come from or are endorsed by Microsoft;

- distribute Microsoft's Distributable Code to run on a platform other than Microsoft operating systems, run-time technologies or application platforms; or

- include Microsoft Distributable Code in malicious, deceptive or unlawful programs.

These restrictions apply only to the Microsoft Distributable Code as defined above, not to Python itself or any programs running on the Python interpreter. The redistribution of the Python interpreter and libraries is governed by the Python Software License included with this file, or by other licenses as marked.
libffi - Copyright (c) 1996-2014 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group
libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
and Clark Cooper
Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006 Expat maintainers.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes

2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"

basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS

FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with

Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
pybench License

This copyright notice and license applies to all files in the pybench
directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby
granted, provided that the above copyright notice appear in all copies
and that both that copyright notice and this permission notice appear
in supporting documentation or portions thereof, including
modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION

WITH THE USE OR PERFORMANCE OF THIS SOFTWARE !

1.247 goautoneg 0.0.0-20191010083416-a7dc8b61c822

1.247.1 Available under license :

Copyright (c) 2011, Open Knowledge Foundation Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the Open Knowledge Foundation Ltd. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.248 flex 2.5.39

1.248.1 Available under license :

Flex carries the copyright used for BSD software, slightly modified because it originated at the Lawrence Berkeley (not Livermore!) Laboratory, which operates under a contract with the Department of Energy:

Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007 The Flex Project.

Copyright (c) 1990, 1997 The Regents of the University of California.
All rights reserved.

This code is derived from software contributed to Berkeley by
Vern Paxson.

The United States Government has rights in this work pursuant
to contract no. DE-AC03-76SF00098 between the United States
Department of Energy and the University of California.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.

This basically says "do whatever you please with this software except
remove this notice or take advantage of the University's (or the flex
authors') name".

Note that the "flex.skl" scanner skeleton carries no copyright notice.
You are free to do whatever you please with scanners generated using flex;
for them, you are not even bound by the above copyright.

1.249 gnupg 2.1.7

1.249.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for

unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further

restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's

public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
Here is a list with collected copyright notices. For details see the
description of each individual package. [Compiled by wk FIXME]

GnuPG is

Copyright (C) 1997-2015 Werner Koch
Copyright (C) 1994-2015 Free Software Foundation, Inc.
Copyright (C) 2003-2015 g10 Code GmbH
Copyright (C) 2002 Klarlvdalens Datakonsult AB
Copyright (C) 1995-1997, 2000-2007 Ulrich Drepper <drepper@gnu.ai.mit.edu>
Copyright (C) 1994 X Consortium
Copyright (C) 1998 by The Internet Society.
Copyright (C) 1998-2004 The OpenLDAP Foundation
Copyright (C) 1998-2004 Kurt D. Zeilenga.
Copyright (C) 1998-2004 Net Boolean Incorporated.
Copyright (C) 2001-2004 IBM Corporation.
Copyright (C) 1999-2003 Howard Y.H. Chu.
Copyright (C) 1999-2003 Symas Corporation.
Copyright (C) 1998-2003 Hallvard B. Furuseth.
Copyright (C) 1992-1996 Regents of the University of Michigan.

GnuPG is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.

GnuPG is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public
License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1301, USA

GPGME is

Copyright (C) 2000 Werner Koch (dd9jn)
Copyright (C) 2001, 2002, 2003, 2004, 2005, 2006 g10 Code GmbH

GPGME is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as
published by the Free Software Foundation; either version 2.1 of
the License, or (at your option) any later version.

GPGME is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License
along with this program; if not, see <http://www.gnu.org/licenses/>.

LIBGPG-ERROR is

Copyright (C) 2003, 2004 g10 Code GmbH

libgpg-error is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public License
as published by the Free Software Foundation; either version 2.1 of
the License, or (at your option) any later version.

libgpg-error is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License
along with this program; if not, see <http://www.gnu.org/licenses/>.

NSIS is

Copyright (C) 1999-2005 Nullsoft, Inc.

This license applies to everything in the NSIS package, except where
otherwise noted.

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any
damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must
   not claim that you wrote the original software. If you use this
   software in a product, an acknowledgment in the product
   documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
   distribution.

The user interface used with the installer is

Copyright (C) 2002-2005 Joost Verburg

[It is distributed along with NSIS and the same conditions as stated above apply]

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

1.250 libtecla 1.4.1

1.250.1 Available under license :

Copyright (c) 2000, 2001, 2002, 2003, 2004, 2012, 2014 by Martin C. Shepherd.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

1.251 otel-exporters-otlp-internal-retry 1.4.1

1.251.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and

conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.
```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
```

// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
// 1. Redistributions of source code must retain the above copyright notice,
// this list of conditions and the following disclaimer.
//
// 2. Redistributions in binary form must reproduce the above copyright
// notice, this list of conditions and the following disclaimer in the
// documentation and/or other materials provided with the distribution.
//
// 3. The name of the author may be used to endorse or promote products
// derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.252 go-jose 2.6.0

1.252.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.253 tar 1.26

1.253.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's

users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted

by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.254 protobuf 1.28.1

1.254.1 Available under license :

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.255 golang-snappy 0.0.4

1.255.1 Available under license :

This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).

#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.256 packaging 20.3

1.256.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made

under the terms of *both* these licenses.
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.257 netkit-telnet 0.17

1.257.1 Available under license :

<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following

disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.258 gorilla 1.4.2

1.258.1 Available under license :

Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.259 kexec-tools 2.0.7

1.259.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.260 cronie 1.5.0

1.260.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

```
/*
* Copyright (c) 2004 by Internet Systems Consortium, Inc. ("ISC")
* Copyright (c) 1997,2000 by Internet Software Consortium, Inc.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
* OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/
/*
* Copyright (c) 1988, 1993, 1994
* The Regents of the University of California.  All rights reserved.
*
* This code is derived from software written by Ken Arnold and
* published in UNIX Review, Vol. 6, No. 8.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
*/
/*
* Copyright (c) 1989, 1993
* The Regents of the University of California. All rights reserved.
*
* This code is derived from software contributed to Berkeley by
* Paul Vixie.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third

parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.261 cjson 1.7.15

1.261.1 Available under license :

Copyright (c) 2009-2017 Dave Gamble and cJSON contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Contributors
==========

Original Author:
- [Dave Gamble](https://github.com/DaveGamble)

Current Maintainer:
- [Max Bruckner](https://github.com/FSMaxB)
- [Alan Wang](https://github.com/Alanscut)

Contributors:
* [Ajay Bhargav](https://github.com/ajaybhargav)
* [Alper Akcan](https://github.com/alperakcan)
* [Andrew Tang](https://github.com/singku)
* [Anton Sergeev](https://github.com/anton-sergeev)
* [Benbuck Nason](https://github.com/bnason-nf)
* [Bernt Johan Damslora](https://github.com/bjda)
* [Bob Kocisko](https://github.com/bobkocisko)
* [Christian Schulze](https://github.com/ChristianSch)
* [Casperinous](https://github.com/Casperinous)
* [ChenYuan](https://github.com/zjuchenyuan)
* [Debora Grosse](https://github.com/DeboraG)
* [dieyushi](https://github.com/dieyushi)
* [Dngwn Hung ()](https://github.com/DongwenHuang)

* [Donough Liu](https://github.com/ldm0)
* [Erez Oxman](https://github.com/erez-o)
* Eswar Yaganti
* [Evan Todd](https://github.com/etodd)
* [Fabrice Fontaine](https://github.com/ffontaine)
* Ian Mobley
* Irwan Djadjadi
* [HuKeping](https://github.com/HuKeping)
* [IvanVoid](https://github.com/npi3pak)
* [Jakub Wilk](https://github.com/jwilk)
* [Jiri Zouhar](https://github.com/loigu)
* [Jonathan Fether](https://github.com/jfether)
* [Julian Ste](https://github.com/julian-st)
* [Julin Vsquez](https://github.com/juvasquezg)
* [Kevin Branigan](https://github.com/kbranigan)
* [Kevin Sapper](https://github.com/sappo)
* [Kyle Chisholm](https://github.com/ChisholmKyle)
* [Linus Wallgren](https://github.com/ecksun)
* [Mateusz Szafoni](https://github.com/raiden00pl)
* Mike Pontillo
* [miaoerduo](https://github.com/miaoerduo)
* [Mike Jerris](https://github.com/mjerris)
* [Mike Robinson](https://github.com/mhrobinson)
* [Moorthy](https://github.com/moorthy-bs)
* [myd7349](https://github.com/myd7349)
* [NancyLi1013](https://github.com/NancyLi1013)
* Paulo Antonio Alvarez
* [Pawe Malowany](https://github.com/PawelMalowany)
* [Pawel Winogrodzki](https://github.com/PawelWMS)
* [prefetchnta](https://github.com/prefetchnta)
* [Rafael Leal Dias](https://github.com/rafaeldias)
* [Randy](https://github.com/randy408)
* [raiden00pl](https://github.com/raiden00pl)
* [Robin Mallinson](https://github.com/rmallins)
* [Rod Vagg](https://github.com/rvagg)
* [Roland Meertens](https://github.com/rmeertens)
* [Romain Porte](https://github.com/MicroJoe)
* [SANJEEV BA](https://github.com/basanjeev)
* [Sang-Heon Jeon](https://github.com/lntuition)
* [Simon Sobisch](https://github.com/GitMensch)
* [Simon Ricaldone](https://github.com/simon-p-r)
* [Square789](https://github.com/Square789)
* [Stephan Gatzka](https://github.com/gatzka)
* [Vemake](https://github.com/vemakereporter)
* [Wei Tan](https://github.com/tan-wei)
* [Weston Schmidt](https://github.com/schmidtw)
* [xiaomianhehe](https://github.com/xiaomianhehe)
* [yangfl](https://github.com/yangfl)

* [yuta-oxo](https://github.com/yuta-oxo)
* [Zach Hindes](https://github.com/zhindes)
* [Zhao Zhixu](https://github.com/zhaozhixu)

And probably more people on [SourceForge](https://sourceforge.net/p/cjson/bugs/search/?q=status%3Aclosed-rejected+or+status%3Aclosed-out-of-date+or+status%3Awont-fix+or+status%3Aclosed-fixed+or+status%3Aclosed&page=0)

Also thanks to all the people who reported bugs and suggested new features.
The MIT License (MIT)

Copyright (c) <year> 2007-14 Mike Karlesky, Mark VanderVoord, Greg Williams

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.262 kexec-tools 2.0.23

1.262.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.263 cpio 2.12

1.263.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.264 berkeley-db 5.3.28

1.264.1 Available under license :

Copyright (c) 1996, 2013 Oracle and/or its affiliates. All rights reserved.
See the file LICENSE for redistribution information.
This software is copyrighted by Christian Werner <chw@ch-werner.de>
and other authors. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.
This software is copyrighted by Christian Werner <chw@ch-werner.de> and others.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY

FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

NOTE

The license is based on the zlib/libpng license. For more details see http://www.opensource.org/licenses/zlib-license.html. The intent of the license is to:

- keep the license as simple as possible
- encourage the use of CuTest in both free and commercial applications and libraries
- keep the source code together
- give credit to the CuTest contributors for their work

If you ship CuTest in source form with your source distribution, the following license document must be included with it in unaltered form. If you find CuTest useful we would like to hear about it.

LICENSE

Copyright (c) 2003 Asim Jalis

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source

distribution.
This package was debianized by Sam Clegg <samo@debian.org> on
Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

Copyright: Copyright (c) 2001-2011 Christian Werner <chw@ch-werner.de>
OS/2 Port Copyright (c) 2004 Lorne R. Sunley <lsunley@mb.sympatico.ca>

License:

This software is copyrighted by Christian Werner <chw@ch-werner.de>
and other authors. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

The Debian packaging is (C) 2006, Sam Clegg <samo@debian.org> and
is licensed under the GPL-3, see `/usr/share/common-licenses/GPL-3'.
/*-
* Id
*/

The following is the license that applies to this copy of the Berkeley DB
software. For a license to use the Berkeley DB software under conditions

other than those described here, or to purchase support for this software,
please contact Oracle at berkeleydb-info_us@oracle.com.

=-=-=-

```
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Copyright (c) 1995, 1996
* The President and Fellows of Harvard University.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
/***
```

* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2005 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
* contributors may be used to endorse or promote products derived from
* this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/

1.265 nfs-utils 3.1.1

1.265.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Copyright (c) 2004 The Regents of the University of Michigan.
All rights reserved.

Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.266 tenacity 7.0.0

1.266.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.267 scipy 1.2.3

1.267.1 Available under license :

Copyright (C) 2003-2005 Peter J. Verveer

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2003, The Regents of the University of California, through Lawrence Berkeley National Laboratory (subject to receipt of any required approvals from U.S. Dept. of Energy)

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

(1) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
(2) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
(3) Neither the name of Lawrence Berkeley National Laboratory, U.S. Dept. of Energy nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF

LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This version obtained on 1 Jun 84 from (kahaner@nbs-sdc)
David K. Kahaner
Scientific Computing Division
National Bureau of Standards
Washington DC 20234

WARNING: the calling sequences here differ from those in the book:
R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner
Quadpack: a Subroutine Package for Automatic Integration
Springer Verlag, 1983. Series in Computational Mathematics v.1
Copyright (c) 2002-2005, Jean-Sebastien Roy (js@jeannot.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

BSD Software License

Pertains to ARPACK and P_ARPACK

Copyright (c) 1996-2008 Rice University.
Developed by D.C. Sorensen, R.B. Lehoucq, C. Yang, and K. Maschhoff.
All rights reserved.

Arpack has been renamed to arpack-ng.

Copyright (c) 2001-2011 - Scilab Enterprises
Updated by Allan Cornet, Sylvestre Ledru.

Copyright (c) 2010 - Jordi Gutirrez Hermoso (Octave patch)

Copyright (c) 2007 - Sbastien Fabbro (gentoo patch)

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

- Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer listed
 in this license in the documentation and/or other materials
 provided with the distribution.

- Neither the name of the copyright holders nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Qhull, Copyright (c) 1993-2015

C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
Computation and Visualization of Geometric Structures
(The Geometry Center)
University of Minnesota

email: qhull@qhull.org

This software includes Qhull from C.B. Barber and The Geometry Center.
Qhull is copyrighted as noted above. Qhull is free software and may
be obtained via http from www.qhull.org. It may be freely copied, modified,
and redistributed under the following conditions:

1. All copyright notices must remain intact in all files.

2. A copy of this text file must be distributed along with any copies of Qhull that you redistribute; this includes copies that you have modified, or copies of programs or other software products that include Qhull.

3. If you modify Qhull, you must include a notice giving the name of the person performing the modification, the date of modification, and the reason for such modification.

4. When distributing modified versions of Qhull, or other software products that include Qhull, you must provide notice that the original source code may be obtained as noted above.

5. There is no warranty or other guarantee of fitness for Qhull, it is provided solely "as is". Bug reports or fixes may be sent to qhull_bug@qhull.org; the authors may or may not act on them as they desire.

Copyright (c) 2001, 2002 Enthought, Inc.
All rights reserved.

Copyright (c) 2003-2017 SciPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
c. Neither the name of Enthought nor the names of the SciPy Developers may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SciPy bundles a number of libraries that are compatibly licensed. We list these here.

Name: Numpydoc
Files: doc/sphinxext/numpydoc/*
License: 2-clause BSD
For details, see doc/sphinxext/LICENSE.txt

Name: scipy-sphinx-theme
Files: doc/scipy-sphinx-theme/*
License: 3-clause BSD, PSF and Apache 2.0
For details, see doc/sphinxext/LICENSE.txt

Name: Six
Files: scipy/_lib/six.py
License: MIT
For details, see the header inside scipy/_lib/six.py

Name: Decorator
Files: scipy/_lib/decorator.py
License: 2-clause BSD
For details, see the header inside scipy/_lib/decorator.py

Name: ID
Files: scipy/linalg/src/id_dist/*
License: 3-clause BSD
For details, see scipy/linalg/src/id_dist/doc/doc.tex

Name: L-BFGS-B
Files: scipy/optimize/lbfgsb/*
License: BSD license
For details, see scipy/optimize/lbfgsb/README

Name: SuperLU
Files: scipy/sparse/linalg/dsolve/SuperLU/*
License: 3-clause BSD
For details, see scipy/sparse/linalg/dsolve/SuperLU/License.txt

Name: ARPACK
Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*
License: 3-clause BSD
For details, see scipy/sparse/linalg/eigen/arpack/ARPACK/COPYING

Name: Qhull
Files: scipy/spatial/qhull/*
License: Qhull license (BSD-like)
For details, see scipy/spatial/qhull/COPYING.txt

Name: Cephes
Files: scipy/special/cephes/*
License: 3-clause BSD
Distributed under 3-clause BSD license with permission from the author,
see https://lists.debian.org/debian-legal/2004/12/msg00295.html

Cephes Math Library Release 2.8: June, 2000
Copyright 1984, 1995, 2000 by Stephen L. Moshier

This software is derived from the Cephes Math Library and is
incorporated herein by permission of the author.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of the <organization> nor the
names of its contributors may be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: Faddeeva
Files: scipy/special/Faddeeva.*
License: MIT
Copyright (c) 2012 Massachusetts Institute of Technology

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Name: qd
Files: scipy/special/cephes/dd_*.[ch]
License: modified BSD license ("BSD-LBNL-License.doc")
This work was supported by the Director, Office of Science, Division
of Mathematical, Information, and Computational Sciences of the
U.S. Department of Energy under contract numbers DE-AC03-76SF00098 and
DE-AC02-05CH11231.

Copyright (c) 2003-2009, The Regents of the University of California,
through Lawrence Berkeley National Laboratory (subject to receipt of
any required approvals from U.S. Dept. of Energy) All rights reserved.

1. Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

(1) Redistributions of source code must retain the copyright
notice, this list of conditions and the following disclaimer.

(2) Redistributions in binary form must reproduce the copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

(3) Neither the name of the University of California, Lawrence
Berkeley National Laboratory, U.S. Dept. of Energy nor the names
of its contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

2. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

3. You are under no obligation whatsoever to provide any bug fixes, patches, or upgrades to the features, functionality or performance of the source code ("Enhancements") to anyone; however, if you choose to make your Enhancements available either publicly, or directly to Lawrence Berkeley National Laboratory, without imposing a separate written license agreement for such Enhancements, then you hereby grant the following license: a non-exclusive, royalty-free perpetual license to install, use, modify, prepare derivative works, incorporate into other computer software, distribute, and sublicense such enhancements or derivative works thereof, in binary and source code form.

prehistoric

Copyright (c) 1992-2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2000-2015 The University of California Berkeley. All rights reserved.

Copyright (c) 2006-2015 The University of Colorado Denver. All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

- Neither the name of the copyright holders nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

The copyright holders provide no reassurances that the source code
provided does not infringe any patent, copyright, or any other
intellectual property rights of third parties. The copyright holders
disclaim any liability to any recipient for claims brought against
recipient by any third party for infringement of that parties
intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.268 wget 1.21.3

1.268.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains

in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a

copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place

additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an

organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a

publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this

License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF

ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.269 namespace 1.4.01

1.269.1 Available under license :

xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip (COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE
Copyright 2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and
License. The software license requires "Notice of any changes or modifications
to the W3C files, including the date changes were made." Consequently, modified

versions of the DOM bindings must document that they do not conform to the W3C standard; in the case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the case of the Java language binding, the package names can no longer be in the 'org.w3c' package.

Note: The original version of the W3C Software Copyright Notice and License could be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
===
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache xml-commons xml-apis ==
== distribution. ==
===

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org
xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 226215 2005-06-03 22:49:13Z mrglavas $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.
2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved.

http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, moves information on style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, such as the translating or annotating specifications. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered
under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at
http://www.saxproject.org/ for more up-to-date
releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05

1.270 manveru-trie 0.0.0-20130618104229-c02825966377

1.270.1 Available under license :

Copyright (c) 2013 Michael Fellinger
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of NLnetLabs nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.271 netkit-ftp 0.17

1.271.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/main.c

* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmds.c
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmdtab.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1985 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ruserpass.c
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/domacro.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
```

* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
* $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
*/

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp_var.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1980 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:

* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.c
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE

* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp.c
No license file was found, but licenses were detected in source scan.

.\" All rights reserved.
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"   notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.
.\" 3. All advertising materials mentioning features or use of this software
.\" 4. Neither the name of the University nor the names of its contributors
.\"   without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/netrc.5
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp.1
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors

```
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90
* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1633532305_1681719645.6079297/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h

1.272 sim-switchdb 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.272.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  * Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.273 xz 5.2.4

1.273.1 Available under license :

XZ Utils Licensing
==========

Different licenses apply to different files in this package. Here
is a rough summary of which licenses apply to which parts of this
package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public
  domain unless GNU getopt_long had to be compiled and linked
  in from the lib directory. The getopt_long code is under
  GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been
  adapted from gzip. These scripts and their documentation are
  under GNU GPLv2+.

- All the documentation in the doc directory and most of the
  XZ Utils specific documentation files in other directories
  are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that
  are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
  in the binaries being built.

- Test files and test code in the tests directory, and debugging
  utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files
  that are under various free software licenses.

You can do whatever you want with the files that have been put into
the public domain. If you find public domain legally problematic,
take the previous sentence as a license grant. If you still find
the lack of copyright legally problematic, you have too many
lawyers.

As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils
into your project, acknowledging this somewhere in your software is
polite (especially if it is proprietary, non-free software), but
naturally it is not legally required. Here is an example of a good
notice to put into "about box" or into documentation:

This software includes code from XZ Utils <https://tukaani.org/xz/>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code
pieces that are copyrighted. Thus, it is possible that e.g. liblzma
binary wouldn't actually be in the public domain in its entirety
even though it contains no copyrighted code from the XZ Utils source
package.

If you have questions, don't hesitate to ask the author(s) for more
information.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Copyright (C) 1998, 2002, 2006, 2007 Free Software Foundation

The original version for gzip was written by Paul Eggert.
Modified for XZ Utils by Andrew Dudman and Lasse Collin.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

1.274 golang 1.19.4

1.274.1 Available under license :

The Go source code and supporting files in this directory
are covered by the usual Go license (see ../../../../LICENSE).

When building with GOEXPERIMENT=boringcrypto, the following applies.

The goboringcrypto_linux_amd64.syso object file is built
from BoringSSL source code by build/build.sh and is covered
by the BoringSSL license reproduced below and also at
https://boringssl.googlesource.com/boringssl/+/fips-20190808/LICENSE.

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Some files from Intel are under yet another license, which is also included
underneath.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the
OpenSSL License and the original SSLeay license apply to the toolkit. See below
for the actual license texts. Actually both licenses are BSD-style Open Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
 27287199
 27287880
 27287883

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
```

```
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
```

```
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

ISC license used for completely new code in BoringSSL:

```
/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */
```

Some files from Intel carry the following license:

```
# Copyright (c) 2012, Intel Corporation
#
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# met:
```

#
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
#
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the
distribution.
#
* Neither the name of the Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
#
THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION ""AS IS"" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
People who have agreed to one of the CLAs and can contribute patches.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from
   this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR

CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Andrea Leofreddi.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.275 backoff 4.1.2

1.275.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Cenk Alt

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.276 mattn-go-isatty 0.0.14

1.276.1 Available under license :

Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.277 errwrap 1.1.0

1.277.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making,

using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such

warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible
With Secondary Licenses, as defined by
the Mozilla Public License, v. 2.0.

1.278 xz 5.2.1

1.278.1 Available under license :

```
XZ Utils Licensing
==================

  Different licenses apply to different files in this package. Here
  is a rough summary of which licenses apply to which parts of this
  package (but check the individual files to be sure!):

    - liblzma is in the public domain.

    - xz, xzdec, and lzmadec command line tools are in the public
      domain unless GNU getopt_long had to be compiled and linked
      in from the lib directory. The getopt_long code is under
      GNU LGPLv2.1+.

    - The scripts to grep, diff, and view compressed files have been
      adapted from gzip. These scripts and their documentation are
      under GNU GPLv2+.

    - All the documentation in the doc directory and most of the
      XZ Utils specific documentation files in other directories
      are in the public domain.

    - Translated messages are in the public domain.

    - The build system contains public domain files, and files that
      are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
      in the binaries being built.

    - Test files and test code in the tests directory, and debugging
      utilities in the debug directory are in the public domain.

    - The extra directory may contain public domain files, and files
      that are under various free software licenses.

  You can do whatever you want with the files that have been put into
  the public domain. If you find public domain legally problematic,
  take the previous sentence as a license grant. If you still find
  the lack of copyright legally problematic, you have too many
  lawyers.

  As usual, this software is provided "as is", without any warranty.

  If you copy significant amounts of public domain code from XZ Utils
```

into your project, acknowledging this somewhere in your software is
polite (especially if it is proprietary, non-free software), but
naturally it is not legally required. Here is an example of a good
notice to put into "about box" or into documentation:

This software includes code from XZ Utils <https://tukaani.org/xz/>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code
pieces that are copyrighted. Thus, it is possible that e.g. liblzma
binary wouldn't actually be in the public domain in its entirety
even though it contains no copyrighted code from the XZ Utils source
package.

If you have questions, don't hesitate to ask the author(s) for more
information.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that

you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the

entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer

can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users

can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in

source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant

patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily

for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future

versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.279 libnss-nis 3.2

1.279.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide

complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be

allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these,

write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.280 x-time-rate 0.0.0-20220411224347-583f2d630306

1.280.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the

distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.281 nanopb 0.12

1.281.1 Available under license :

Copyright (c) 2011 Petteri Aimonen <jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or
implied warranty. In no event will the authors be held liable
for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
  must not claim that you wrote the original software. If you use
  this software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
  must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
  distribution.

1.282 hashicorp-go-cleanhttp 0.5.2

1.282.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant,

then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from

such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.283 x-time-rate 0.0.0-20210220033141-f8bda1e9f3ba

1.283.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.

1.284 paesslerag-gval 1.0.0

1.284.1 Available under license :

Copyright (c) 2017, Paessler AG <support@paessler.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.285 x-oauth2 0.0.0-20220223155221-ee480838109b

1.285.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.286 bind 9.11.37

1.286.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the

creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or

as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered

Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have

received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts

of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.
Copyright (C) Internet Systems Consortium, Inc. ("ISC")

See COPYRIGHT in the source root or https://isc.org/copyright.html for terms.
Copyright (C) 1999-2014 Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, You can obtain one at http://mozilla.org/MPL/2.0/.

Copyright (C) 2009-2015 Red Hat

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND AUTHORS DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
Portions Copyright (C) Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.

See the COPYRIGHT file distributed with this work for additional

information regarding copyright ownership.

Portions Copyright (C) Network Associates, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (C) Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.

See the COPYRIGHT file distributed with this work for additional
information regarding copyright ownership.
Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any
modified or derived work) in source and/or binary forms is permitted
under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they
appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
this License Terms and Conditions, in the documentation and/or other
materials provided with the distribution. For the purposes of binary
distribution the "Copyright Notice" refers to the following language:
"Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products

derived from this Software without specific prior written approval of
JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright (C) 1996-2022 Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.

Portions of this code release fall under one or more of the
following Copyright notices. Please see individual source
files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2002 Stichting NLnet, Netherlands, stichting@nlnet.nl.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1987, 1990, 1993, 1994

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) The Internet Society 2005. This version of
this module is part of RFC 4178; see the RFC itself for
full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* Neither the name of Rice University (RICE) nor the names of its
  contributors may be used to endorse or promote products derived

from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is" basis, without any representations or warranties of any kind, express or implied including, but not limited to, representations or warranties of non-infringement, merchantability or fitness for a particular purpose. In no event shall RICE or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS
BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different license is obtained from Japan Network Information Center ("JPNIC"), a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda, Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any modified or derived work) in source and/or binary forms is permitted under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice, this License Terms and Conditions, in the documentation and/or other materials provided with the distribution. For the purposes of binary distribution the "Copyright Notice" refers to the following language: "Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products derived from this Software without specific prior written approval of JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright (C) 2004 Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM

LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing the derived work.

RSA Security Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

3. All advertising materials mentioning features or use of this
software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
endorse or promote products derived from this software without
prior written permission. For written permission, please contact
licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL"
nor may "OpenSSL" appear in their names without prior written
permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following
acknowledgment:
"This product includes software developed by the OpenSSL Project
for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS" AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 2008-2011 Red Hat, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND Red Hat DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL Red Hat BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2013-2014, Farsight Security, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2014 by Farsight Security, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Internet Engineering Task Force R.E. Gilligan (FreeGate)
INTERNET-DRAFT S. Thomson (Bellcore)
Obsoletes RFC 2133 Jim Bound (Compaq)
W. R. Stevens (Consultant)
January 25, 1999

Basic Socket Interface Extensions for IPv6

<draft-ietf-ipngwg-bsd-api-new-06.txt>

Status of this Memo

This document is a submission by the Internet Protocol IPv6 Working Group of the Internet Engineering Task Force (IETF). Comments should be submitted to the ipng@sunroof.eng.sun.com mailing list.

This document is an Internet-Draft. Internet-Drafts are working documents of the Internet Engineering Task Force (IETF), its areas, and its working groups. Note that other groups may also distribute working documents as Internet-Drafts.

Internet-Drafts are draft documents valid for a maximum of six months and may be updated, replaced, or obsoleted by other documents at any time. It is inappropriate to use Internet-Drafts as reference material or to cite them other than as "work in progress."

To view the entire list of current Internet-Drafts, please check the "1id-abstracts.txt" listing contained in the Internet-Drafts Shadow Directories on ftp.is.co.za (Africa), ftp.nordu.net (Europe), munnari.oz.au (Pacific Rim), ftp.ietf.org (US East Coast), or ftp.isi.edu (US West Coast).

Distribution of this memo is unlimited.

Abstract

The de facto standard application program interface (API) for TCP/IP applications is the "sockets" interface. Although this API was developed for Unix in the early 1980s it has also been implemented on a wide variety of non-Unix systems. TCP/IP applications written using the sockets API have in the past enjoyed a high degree of portability and we would like the same portability with IPv6 applications. But changes are required to the sockets API to support IPv6 and this memo describes these changes. These include a new socket address structure to carry IPv6 addresses, new address conversion functions, and some new socket options. These extensions are designed to provide access to the basic IPv6 features required by TCP and UDP applications, including multicasting, while introducing a minimum of change into the system and providing complete compatibility for existing IPv4 applications. Additional extensions for advanced IPv6 features (raw sockets and access to the IPv6 extension headers) are defined in another document [4].

Open Source Used In NXOS-MDS Platform 9.4.1 2930

Table of Contents:

1. Introduction.....3
2. Design Considerations.....3
2.1 What Needs to be Changed.....3
2.2 Data Types.....5
2.3 Headers.....5
2.4 Structures.....5
3. Socket Interface.....5
3.1 IPv6 Address Family and Protocol Family.....5
3.2 IPv6 Address Structure.....6
3.3 Socket Address Structure for 4.3BSD-Based Systems.....6
3.4 Socket Address Structure for 4.4BSD-Based Systems.....7
3.5 The Socket Functions.....8
3.6 Compatibility with IPv4 Applications.....9
3.7 Compatibility with IPv4 Nodes.....9
3.8 IPv6 Wildcard Address.....10
3.9 IPv6 Loopback Address.....11
3.10 Portability Additions.....11
4. Interface Identification.....13
4.1 Name-to-Index.....14
4.2 Index-to-Name.....14
4.3 Return All Interface Names and Indexes.....15
4.4 Free Memory.....15
5. Socket Options.....15
5.1 Unicast Hop Limit.....16
5.2 Sending and Receiving Multicast Packets.....16
6. Library Functions.....18
6.1 Nodename-to-Address Translation.....18
6.2 Address-To-Nodename Translation.....21
6.3 Freeing memory for getipnodebyname and getipnodebyaddr.....22
6.4 Protocol-Independent Nodename and Service Name Translation.22
6.5 Socket Address Structure to Nodename and Service Name.....25
6.6 Address Conversion Functions.....26
6.7 Address Testing Macros.....27
7. Summary of New Definitions.....28
8. Security Considerations.....29
9. Year 2000 Considerations.....29
Changes From RFC 2133.....30
Acknowledgments.....32
References.....33
Authors' Addresses.....33

1. Introduction

While IPv4 addresses are 32 bits long, IPv6 interfaces are identified by 128-bit addresses. The socket interface makes the size of an IP address quite visible to an application; virtually all TCP/IP applications for BSD-based systems have knowledge of the size of an IP address. Those parts of the API that expose the addresses must be changed to accommodate the larger IPv6 address size. IPv6 also introduces new features (e.g., traffic class and flowlabel), some of which must be made visible to applications via the API. This memo defines a set of extensions to the socket interface to support the larger address size and new features of IPv6.

2. Design Considerations

There are a number of important considerations in designing changes to this well-worn API:

- The API changes should provide both source and binary compatibility for programs written to the original API. That is, existing program binaries should continue to operate when run on a system supporting the new API. In addition, existing applications that are re-compiled and run on a system supporting

the new API should continue to operate. Simply put, the API changes for IPv6 should not break existing programs. An additonal mechanism for implementations to verify this is to verify the new symbols are protected by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

- The changes to the API should be as small as possible in order to simplify the task of converting existing IPv4 applications to IPv6.

- Where possible, applications should be able to use this API to interoperate with both IPv6 and IPv4 hosts. Applications should not need to know which type of host they are communicating with.

- IPv6 addresses carried in data structures should be 64-bit aligned. This is necessary in order to obtain optimum performance on 64-bit machine architectures.

Because of the importance of providing IPv4 compatibility in the API, these extensions are explicitly designed to operate on machines that provide complete support for both IPv4 and IPv6. A subset of this API could probably be designed for operation on systems that support only IPv6. However, this is not addressed in this memo.

2.1 What Needs to be Changed

The socket interface API consists of a few distinct components:

- Core socket functions.

- Address data structures.

- Name-to-address translation functions.

- Address conversion functions.

The core socket functions -- those functions that deal with such things

as setting up and tearing down TCP connections, and sending and receiving UDP packets -- were designed to be transport independent. Where protocol addresses are passed as function arguments, they are carried via opaque pointers. A protocol-specific address data structure is defined for each protocol that the socket functions support. Applications must cast pointers to these protocol-specific address structures into pointers to the generic "sockaddr" address structure when using the socket functions. These functions need not change for IPv6, but a new IPv6-specific address data structure is needed.

The "sockaddr_in" structure is the protocol-specific data structure for IPv4. This data structure actually includes 8-octets of unused space, and it is tempting to try to use this space to adapt the sockaddr_in structure to IPv6. Unfortunately, the sockaddr_in structure is not large enough to hold the 16-octet IPv6 address as well as the other information (address family and port number) that is needed. So a new address data structure must be defined for IPv6.

IPv6 addresses are scoped [2] so they could be link-local, site, organization, global, or other scopes at this time undefined. To support applications that want to be able to identify a set of interfaces for a specific scope, the IPv6 sockaddr_in structure must support a field that can be used by an implementation to identify a set of interfaces identifying the scope for an IPv6 address.

The name-to-address translation functions in the socket interface are gethostbyname() and gethostbyaddr(). These are left as is and new functions are defined to support IPv4 and IPv6. Additionally, the POSIX 1003.g draft [3] specifies a new nodename-to-address translation function which is protocol independent. This function can also be used with IPv4 and IPv6.

The address conversion functions -- inet_ntoa() and inet_addr() -- convert IPv4 addresses between binary and printable form. These functions are quite specific to 32-bit IPv4 addresses. We have designed two analogous functions that convert both IPv4 and IPv6 addresses, and carry an address type parameter so that they can be extended to other protocol families as well.

Finally, a few miscellaneous features are needed to support IPv6. New interfaces are needed to support the IPv6 traffic class, flow label, and hop limit header fields. New socket options are needed to control the sending and receiving of IPv6 multicast packets.

The socket interface will be enhanced in the future to provide access to other IPv6 features. These extensions are described in [4].

2.2 Data Types

The data types of the structure elements given in this memo are intended to be examples, not absolute requirements. Whenever possible, data types from Draft 6.6 (March 1997) of POSIX 1003.1g are used: uintN_t means an unsigned integer of exactly N bits (e.g., uint16_t). We also assume the argument data types from 1003.1g when possible (e.g., the final argument to setsockopt() is a size_t value). Whenever buffer sizes are specified, the POSIX 1003.1 size_t data type is used (e.g., the two length arguments to getnameinfo()).

2.3 Headers

When function prototypes and structures are shown we show the headers that must be #included to cause that item to be defined.

2.4 Structures

When structures are described the members shown are the ones that must appear in an implementation. Additional, nonstandard members may also be defined by an implementation. As an additional precaution nonstandard members could be verified by Feature Test Macros as described in IEEE Std 1003.1. (Such Feature Test Macros are not defined by this RFC.)

The ordering shown for the members of a structure is the recommended ordering, given alignment considerations of multibyte members, but an implementation may order the members differently.

3. Socket Interface

This section specifies the socket interface changes for IPv6.

3.1 IPv6 Address Family and Protocol Family

A new address family name, AF_INET6, is defined in <sys/socket.h>. The AF_INET6 definition distinguishes between the original sockaddr_in address data structure, and the new sockaddr_in6 data structure.

A new protocol family name, PF_INET6, is defined in <sys/socket.h>. Like most of the other protocol family names, this will usually be defined to have the same value as the corresponding address family name:

```
#define PF_INET6        AF_INET6
```

The PF_INET6 is used in the first argument to the socket() function to indicate that an IPv6 socket is being created.

3.2 IPv6 Address Structure

A new in6_addr structure holds a single IPv6 address and is defined as a result of including <netinet/in.h>:

```
struct in6_addr {
    uint8_t  s6_addr[16];      /* IPv6 address */
};
```

This data structure contains an array of sixteen 8-bit elements, which make up one 128-bit IPv6 address. The IPv6 address is stored in network byte order.

The structure in6_addr above is usually implemented with an embedded union with extra fields that force the desired alignment level in a manner similar to BSD implementations of "struct in_addr". Those additional implementation details are omitted here for simplicity.

An example is as follows:

```
struct in6_addr {
   union {
      uint8_t  _S6_u8[16];
      uint32_t _S6_u32[4];
      uint64_t _S6_u64[2];
   } _S6_un;
};
#define s6_addr _S6_un._S6_u8
```

3.3 Socket Address Structure for 4.3BSD-Based Systems

In the socket interface, a different protocol-specific data structure is defined to carry the addresses for each protocol suite. Each protocol-specific data structure is designed so it can be cast into a protocol-independent data structure -- the "sockaddr" structure. Each has a "family" field that overlays the "sa_family" of the sockaddr data structure. This field identifies the type of the data structure.

The sockaddr_in structure is the protocol-specific address data structure for IPv4. It is used to pass addresses between applications and the system in the socket functions. The following sockaddr_in6 structure holds IPv6 addresses and is defined as a result of including the <netinet/in.h> header:

```
 struct sockaddr_in6 {
    sa_family_t     sin6_family;    /* AF_INET6 */
    in_port_t       sin6_port;      /* transport layer port # */
    uint32_t        sin6_flowinfo;  /* IPv6 traffic class & flow info */
    struct in6_addr sin6_addr;      /* IPv6 address */
    uint32_t        sin6_scope_id;  /* set of interfaces for a scope */
 };
```

This structure is designed to be compatible with the sockaddr data structure used in the 4.3BSD release.

The sin6_family field identifies this as a sockaddr_in6 structure. This

field overlays the sa_family field when the buffer is cast to a sockaddr

data structure. The value of this field must be AF_INET6.

The sin6_port field contains the 16-bit UDP or TCP port number. This field is used in the same way as the sin_port field of the sockaddr_in structure. The port number is stored in network byte order.

The sin6_flowinfo field is a 32-bit field that contains two pieces of information: the traffic class and the flow label. The contents and interpretation of this member is specified in [1]. The sin6_flowinfo field SHOULD be set to zero by an implementation prior to using the sockaddr_in6 structure by an application on receive operations.

The sin6_addr field is a single in6_addr structure (defined in the previous section). This field holds one 128-bit IPv6 address. The address is stored in network byte order.

The ordering of elements in this structure is specifically designed so that when sin6_addr field is aligned on a 64-bit boundary, the start of the structure will also be aligned on a 64-bit boundary. This is done for optimum performance on 64-bit architectures.

The sin6_scope_id field is a 32-bit integer that identifies a set of interfaces as appropriate for the scope of the address carried in the sin6_addr field. For a link scope sin6_addr sin6_scope_id would be an interface index. For a site scope sin6_addr, sin6_scope_id would be a site identifier. The mapping of sin6_scope_id to an interface or set of interfaces is left to implementation and future specifications on the subject of site identifiers.

Notice that the sockaddr_in6 structure will normally be larger than the generic sockaddr structure. On many existing implementations the sizeof(struct sockaddr_in) equals sizeof(struct sockaddr), with both being 16 bytes. Any existing code that makes this assumption needs to be examined carefully when converting to IPv6.

3.4 Socket Address Structure for 4.4BSD-Based Systems

The 4.4BSD release includes a small, but incompatible change to the socket interface. The "sa_family" field of the sockaddr data structure was changed from a 16-bit value to an 8-bit value, and the space saved used to hold a length field, named "sa_len". The sockaddr_in6 data structure given in the previous section cannot be correctly cast into the newer sockaddr data structure. For this reason, the following alternative IPv6 address data structure is provided to be used on systems based on 4.4BSD. It is defined as a result of including the <netinet/in.h> header.

```
struct sockaddr_in6 {
    uint8_t         sin6_len;       /* length of this struct */
    sa_family_t     sin6_family;    /* AF_INET6 */
    in_port_t       sin6_port;      /* transport layer port # */
    uint32_t        sin6_flowinfo;  /* IPv6 flow information */
    struct in6_addr sin6_addr;      /* IPv6 address */
    uint32_t        sin6_scope_id;  /* set of interfaces for a scope */
};
```


The only differences between this data structure and the 4.3BSD variant are the inclusion of the length field, and the change of the family field to a 8-bit data type. The definitions of all the other fields are identical to the structure defined in the previous section.

Systems that provide this version of the sockaddr_in6 data structure must also declare SIN6_LEN as a result of including the <netinet/in.h> header. This macro allows applications to determine whether they are being built on a system that supports the 4.3BSD or 4.4BSD variants of the data structure.

3.5 The Socket Functions

Applications call the socket() function to create a socket descriptor that represents a communication endpoint. The arguments to the socket() function tell the system which protocol to use, and what format address structure will be used in subsequent functions. For example, to create an IPv4/TCP socket, applications make the call:

```
s = socket(PF_INET, SOCK_STREAM, 0);
```

To create an IPv4/UDP socket, applications make the call:

```
s = socket(PF_INET, SOCK_DGRAM, 0);
```

Applications may create IPv6/TCP and IPv6/UDP sockets by simply using the constant PF_INET6 instead of PF_INET in the first argument. For example, to create an IPv6/TCP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_STREAM, 0);
```

To create an IPv6/UDP socket, applications make the call:

```
s = socket(PF_INET6, SOCK_DGRAM, 0);
```

Once the application has created a PF_INET6 socket, it must use the sockaddr_in6 address structure when passing addresses in to the system. The functions that the application uses to pass addresses into the system are:

```
bind()
connect()
sendmsg()
sendto()
```

The system will use the sockaddr_in6 address structure to return addresses to applications that are using PF_INET6 sockets. The functions that return an address from the system to an application are:

```
accept()
recvfrom()
recvmsg()
getpeername()
getsockname()
```

No changes to the syntax of the socket functions are needed to support

IPv6, since all of the "address carrying" functions use an opaque address pointer, and carry an address length as a function argument.

3.6 Compatibility with IPv4 Applications

In order to support the large base of applications using the original API, system implementations must provide complete source and binary compatibility with the original API. This means that systems must continue to support PF_INET sockets and the sockaddr_in address structure. Applications must be able to create IPv4/TCP and IPv4/UDP sockets using the PF_INET constant in the socket() function, as

described in the previous section. Applications should be able to hold a combination of IPv4/TCP, IPv4/UDP, IPv6/TCP and IPv6/UDP sockets simultaneously within the same process.

Applications using the original API should continue to operate as they did on systems supporting only IPv4. That is, they should continue to interoperate with IPv4 nodes.

3.7 Compatibility with IPv4 Nodes

The API also provides a different type of compatibility: the ability for IPv6 applications to interoperate with IPv4 applications. This feature uses the IPv4-mapped IPv6 address format defined in the IPv6 addressing architecture specification [2]. This address format allows the IPv4 address of an IPv4 node to be represented as an IPv6 address. The IPv4 address is encoded into the low-order 32 bits of the IPv6 address, and the high-order 96 bits hold the fixed prefix 0:0:0:0:0:FFFF. IPv4-mapped addresses are written as follows:

```
::FFFF:<IPv4-address>
```

These addresses can be generated automatically by the getipnodebyname() function when the specified host has only IPv4 addresses (as described in Section 6.1).

Applications may use PF_INET6 sockets to open TCP connections to IPv4 nodes, or send UDP packets to IPv4 nodes, by simply encoding the destination's IPv4 address as an IPv4-mapped IPv6 address, and passing that address, within a sockaddr_in6 structure, in the connect() or sendto() call. When applications use PF_INET6 sockets to accept TCP connections from IPv4 nodes, or receive UDP packets from IPv4 nodes, the system returns the peer's address to the application in the accept(), recvfrom(), or getpeername() call using a sockaddr_in6 structure encoded this way.

Few applications will likely need to know which type of node they are interoperating with. However, for those applications that do need to know, the IN6_IS_ADDR_V4MAPPED() macro, defined in Section 6.7, is provided.

Open Source Used In NXOS-MDS Platform 9.4.1 2941

3.8 IPv6 Wildcard Address

While the bind() function allows applications to select the source IP address of UDP packets and TCP connections, applications often want the system to select the source address for them. With IPv4, one specifies the address as the symbolic constant INADDR_ANY (called the "wildcard" address) in the bind() call, or simply omits the bind() entirely.

Since the IPv6 address type is a structure (struct in6_addr), a symbolic constant can be used to initialize an IPv6 address variable, but cannot be used in an assignment. Therefore systems provide the IPv6 wildcard address in two forms.

The first version is a global variable named "in6addr_any" that is an in6_addr structure. The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_any;
```

Applications use in6addr_any similarly to the way they use INADDR_ANY in IPv4. For example, to bind a socket to port number 23, but let the system select the source address, an application could use the following code:

```
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_family = AF_INET6;
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_any;  /* structure assignment */
 . . .
if (bind(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
        . . .
```

The other version is a symbolic constant named IN6ADDR_ANY_INIT and is defined in <netinet/in.h>. This constant can be used to initialize an in6_addr structure:

```
struct in6_addr anyaddr = IN6ADDR_ANY_INIT;
```

Note that this constant can be used ONLY at declaration time. It can not be used to assign a previously declared in6_addr structure. For example, the following code will not work:

```
/* This is the WRONG way to assign an unspecified address */
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_addr = IN6ADDR_ANY_INIT; /* will NOT compile */
```

Be aware that the IPv4 INADDR_xxx constants are all defined in host byte order but the IPv6 IN6ADDR_xxx constants and the IPv6 in6addr_xxx externals are defined in network byte order.

3.9 IPv6 Loopback Address

Applications may need to send UDP packets to, or originate TCP connections to, services residing on the local node. In IPv4, they can do this by using the constant IPv4 address INADDR_LOOPBACK in their connect(), sendto(), or sendmsg() call.

IPv6 also provides a loopback address to contact local TCP and UDP services. Like the unspecified address, the IPv6 loopback address is provided in two forms -- a global variable and a symbolic constant.

The global variable is an in6_addr structure named "in6addr_loopback." The extern declaration for this variable is defined in <netinet/in.h>:

```
extern const struct in6_addr in6addr_loopback;
```

Applications use in6addr_loopback as they would use INADDR_LOOPBACK in IPv4 applications (but beware of the byte ordering difference mentioned at the end of the previous section). For example, to open a TCP connection to the local telnet server, an application could use the following code:

```
struct sockaddr_in6 sin6;
 . . .
sin6.sin6_family = AF_INET6;
```

```
sin6.sin6_flowinfo = 0;
sin6.sin6_port = htons(23);
sin6.sin6_addr = in6addr_loopback;  /* structure assignment */
 . . .
if (connect(s, (struct sockaddr *) &sin6, sizeof(sin6)) == -1)
        . . .
```

The symbolic constant is named IN6ADDR_LOOPBACK_INIT and is defined in <netinet/in.h>. It can be used at declaration time ONLY; for example:

```
struct in6_addr loopbackaddr = IN6ADDR_LOOPBACK_INIT;
```

Like IN6ADDR_ANY_INIT, this constant cannot be used in an assignment to a previously declared IPv6 address variable.

3.10 Portability Additions

One simple addition to the sockets API that can help application writers is the "struct sockaddr_storage". This data structure can simplify writing code portable across multiple address families and platforms. This data structure is designed with the following goals.

- It has a large enough implementation specific maximum size to store the desired set of protocol specific socket address data structures. Specifically, it is at least large enough to accommodate sockaddr_in and sockaddr_in6 and possibly other protocol specific socket addresses too.
- It is aligned at an appropriate boundary so protocol specific socket address data structure pointers can be cast to it and access their fields without alignment problems. (e.g. pointers to sockaddr_in6 and/or sockaddr_in can be cast to it and access fields without alignment

problems).
- It has the initial field(s) isomorphic to the fields of the "struct sockaddr" data structure on that implementation which can be used as a discriminants for deriving the protocol in use. These initial field(s) would on most implementations either be a single field of type "sa_family_t" (isomorphic to sa_family field, 16 bits) or two fields of type uint8_t and sa_family_t respectively,

(isomorphic to sa_len and sa_family_t, 8 bits each).

An example implementation design of such a data structure would be as follows.

```
/*
* Desired design of maximum size and alignment
*/
#define _SS_MAXSIZE    128  /* Implementation specific max size */
#define _SS_ALIGNSIZE  (sizeof (int64_t))
                    /* Implementation specific desired alignment */
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE   (_SS_ALIGNSIZE - sizeof (sa_family_t))
#define _SS_PAD2SIZE   (_SS_MAXSIZE - (sizeof (sa_family_t)+
                      _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  sa_family_t  __ss_family;     /* address family */
  /* Following fields are implementation specific */
  char      __ss_pad1[_SS_PAD1SIZE];
          /* 6 byte pad, this is to make implementation
          /* specific pad up to alignment field that */
          /* follows explicit in the data structure */
  int64_t   __ss_align;     /* field to force desired structure */
           /* storage alignment */
  char      __ss_pad2[_SS_PAD2SIZE];
          /* 112 byte pad to achieve desired size, */
          /* _SS_MAXSIZE value minus size of ss_family */
          /* __ss_pad1, __ss_align fields is 112 */
};
```

On implementations where sockaddr data structure includes a "sa_len", field this data structure would look like this:

```
/*
* Definitions used for sockaddr_storage structure paddings design.
*/
#define _SS_PAD1SIZE (_SS_ALIGNSIZE -
                    (sizeof (uint8_t) + sizeof (sa_family_t))
#define _SS_PAD2SIZE (_SS_MAXSIZE - (sizeof (sa_family_t)+
                      _SS_PAD1SIZE + _SS_ALIGNSIZE))
struct sockaddr_storage {
  uint8_t      __ss_len;       /* address length */
  sa_family_t  __ss_family;     /* address family */
  /* Following fields are implementation specific */
  char         __ss_pad1[_SS_PAD1SIZE];
             /* 6 byte pad, this is to make implementation
```

```
            /* specific pad up to alignment field that */
            /* follows explicit in the data structure */
  int64_t      __ss_align;  /* field to force desired structure */
```



```
            /* storage alignment */
  char        __ss_pad2[_SS_PAD2SIZE];
            /* 112 byte pad to achieve desired size, */
            /* _SS_MAXSIZE value minus size of ss_len, */
            /* __ss_family, __ss_pad1, __ss_align fields is 112 */
};
```

The above example implementation illustrates a data structure which will align on a 64 bit boundary. An implementation specific field "__ss_align" along "__ss_pad1" is used to force a 64-bit alignment which covers proper alignment good enough for needs of sockaddr_in6 (IPv6), sockaddr_in (IPv4) address data structures. The size of padding fields __ss_pad1 depends on the chosen alignment boundary. The size of padding field __ss_pad2 depends on the value of overall size chosen for the total size of the structure. This size and alignment are represented in the above example by implementation specific (not required) constants _SS_MAXSIZE (chosen value 128) and _SS_ALIGNMENT (with chosen value 8). Constants _SS_PAD1SIZE (derived value 6) and _SS_PAD2SIZE (derived value 112) are also for illustration and not required. The implementation specific definitions and structure field names above start with an underscore to denote implementation private namespace. Portable code is not expected to access or reference those fields or constants.

The sockaddr_storage structure solves the problem of declaring storage for automatic variables which is large enough and aligned enough for storing socket address data structure of any family. For example, code with a file descriptor and without the context of the address family can pass a pointer to a variable of this type where a pointer to a socket address structure is expected in calls such as getpeername() and determine the address family by accessing the received content after the call.

The sockaddr_storage structure may also be useful and applied to certain other interfaces where a generic socket address large enough and aligned for use with multiple address families may be needed. A discussion of those interfaces is outside the scope of this document.

Also, much existing code assumes that any socket address structure can fit in a generic sockaddr structure. While this has been true for IPv4 socket address structures, it has always been false for Unix domain socket address structures (but in practice this has not been a problem) and it is also false for IPv6 socket address structures (which can be a problem).

So now an application can do the following:

```
struct sockaddr_storage __ss;
struct sockaddr_in6 *sin6;
sin6 = (struct sockaddr_in6 *) &__ss;
```

4. Interface Identification

This API uses an interface index (a small positive integer) to identify the local interface on which a multicast group is joined (Section 5.3). Additionally, the advanced API [4] uses these same interface indexes to identify the interface on which a datagram is received, or to specify

the interface on which a datagram is to be sent.

Interfaces are normally known by names such as "le0", "sl1", "ppp2", and the like. On Berkeley-derived implementations, when an interface is made known to the system, the kernel assigns a unique positive integer value (called the interface index) to that interface. These are small positive integers that start at 1. (Note that 0 is never used for an interface index.) There may be gaps so that there is no current interface for a particular positive interface index.

This API defines two functions that map between an interface name and index, a third function that returns all the interface names and indexes, and a fourth function to return the dynamic memory allocated by the previous function. How these functions are implemented is left up to the implementation. 4.4BSD implementations can implement these functions using the existing sysctl() function with the NET_RT_IFLIST command. Other implementations may wish to use ioctl() for this purpose.

4.1 Name-to-Index

The first function maps an interface name into its corresponding index.

```
#include <net/if.h>

unsigned int  if_nametoindex(const char *ifname);
```

If the specified interface name does not exist, the return value is 0, and errno is set to ENXIO. If there was a system error (such as running out of memory), the return value is 0 and errno is set to the proper value (e.g., ENOMEM).

4.2 Index-to-Name

The second function maps an interface index into its corresponding name.

```
#include <net/if.h>

char  *if_indextoname(unsigned int ifindex, char *ifname);
```

The ifname argument must point to a buffer of at least IF_NAMESIZE bytes into which the interface name corresponding to the specified index is returned. (IF_NAMESIZE is also defined in <net/if.h> and its value includes a terminating null byte at the end of the interface name.) This pointer is also the return value of the function. If there is no interface corresponding to the specified index, NULL is returned, and errno is set to ENXIO, if there was a system error (such as running out of memory), if_indextoname returns NULL and errno would be set to the proper value (e.g., ENOMEM).

4.3 Return All Interface Names and Indexes

The if_nameindex structure holds the information about a single interface and is defined as a result of including the <net/if.h> header.

```
struct if_nameindex {
  unsigned int   if_index;  /* 1, 2, ... */
  char          *if_name;   /* null terminated name: "le0", ... */
};
```

The final function returns an array of if_nameindex structures, one structure per interface.

```
struct if_nameindex  *if_nameindex(void);
```

The end of the array of structures is indicated by a structure with an if_index of 0 and an if_name of NULL. The function returns a NULL pointer upon an error, and would set errno to the appropriate value.

The memory used for this array of structures along with the interface names pointed to by the if_name members is obtained dynamically. This memory is freed by the next function.

4.4 Free Memory

The following function frees the dynamic memory that was allocated by if_nameindex().

```
#include <net/if.h>

void  if_freenameindex(struct if_nameindex *ptr);
```

The argument to this function must be a pointer that was returned by if_nameindex().

Currently net/if.h doesn't have prototype definitions for functions and it is recommended that these definitions be defined in net/if.h as well and the struct if_nameindex{}.

5. Socket Options

A number of new socket options are defined for IPv6. All of these new options are at the IPPROTO_IPV6 level. That is, the "level" parameter in the getsockopt() and setsockopt() calls is IPPROTO_IPV6 when using these options. The constant name prefix IPV6_ is used in all of the new

socket options. This serves to clearly identify these options as applying to IPv6.

The declaration for IPPROTO_IPV6, the new IPv6 socket options, and related constants defined in this section are obtained by including the header <netinet/in.h>.

5.1 Unicast Hop Limit

A new setsockopt() option controls the hop limit used in outgoing unicast IPv6 packets. The name of this option is IPV6_UNICAST_HOPS, and it is used at the IPPROTO_IPV6 layer. The following example illustrates how it is used:

```
int  hoplimit = 10;

if (setsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
            (char *) &hoplimit, sizeof(hoplimit)) == -1)
    perror("setsockopt IPV6_UNICAST_HOPS");
```

When the IPV6_UNICAST_HOPS option is set with setsockopt(), the option value given is used as the hop limit for all subsequent unicast packets sent via that socket. If the option is not set, the system selects a default value. The integer hop limit value (called x) is interpreted as follows:

```
x < -1:       return an error of EINVAL
x == -1:      use kernel default
0 <= x <= 255: use x
x >= 256:     return an error of EINVAL
```

The IPV6_UNICAST_HOPS option may be used with getsockopt() to determine the hop limit value that the system will use for subsequent unicast packets sent via that socket. For example:

```
int  hoplimit;
size_t  len = sizeof(hoplimit);
```

```
 if (getsockopt(s, IPPROTO_IPV6, IPV6_UNICAST_HOPS,
            (char *) &hoplimit, &len) == -1)
    perror("getsockopt IPV6_UNICAST_HOPS");
 else
    printf("Using %d for hop limit.\n", hoplimit);
```

5.2 Sending and Receiving Multicast Packets

IPv6 applications may send UDP multicast packets by simply specifying an IPv6 multicast address in the address argument of the sendto() function.

Three socket options at the IPPROTO_IPV6 layer control some of the parameters for sending multicast packets. Setting these options is not required: applications may send multicast packets without using these options. The setsockopt() options for controlling the sending of multicast packets are summarized below. These three options can also be used with getsockopt().

IPV6_MULTICAST_IF

Set the interface to use for outgoing multicast packets.
The argument is the index of the interface to use.

Argument type: unsigned int

IPV6_MULTICAST_HOPS

Set the hop limit to use for outgoing multicast packets.
(Note a separate option - IPV6_UNICAST_HOPS - is
provided to set the hop limit to use for outgoing
unicast packets.)

The interpretation of the argument is the same
as for the IPV6_UNICAST_HOPS option:

```
x < -1:        return an error of EINVAL
x == -1:       use kernel default
0 <= x <= 255: use x
```

x >= 256: return an error of EINVAL

If IPV6_MULTICAST_HOPS is not set, the default is 1
(same as IPv4 today)

Argument type: int

IPV6_MULTICAST_LOOP

If a multicast datagram is sent to a group to which the sending host itself belongs (on the outgoing interface), a copy of the datagram is looped back by the IP layer for local delivery if this option is set to 1. If this option is set to 0 a copy is not looped back. Other option values return an error of EINVAL.

If IPV6_MULTICAST_LOOP is not set, the default is 1 (loopback; same as IPv4 today).

Argument type: unsigned int

The reception of multicast packets is controlled by the two setsockopt() options summarized below. An error of EOPNOTSUPP is returned if these two options are used with getsockopt().

IPV6_JOIN_GROUP

Join a multicast group on a specified local interface.
If the interface index is specified as 0,
the kernel chooses the local interface.
For example, some kernels look up the multicast group
in the normal IPv6 routing table and using the resulting interface.

Argument type: struct ipv6_mreq

IPV6_LEAVE_GROUP

Leave a multicast group on a specified interface.

Argument type: struct ipv6_mreq

The argument type of both of these options is the ipv6_mreq structure, defined as a result of including the <netinet/in.h> header;

```
struct ipv6_mreq {
    struct in6_addr ipv6mr_multiaddr; /* IPv6 multicast addr */
```

```
    unsigned int    ipv6mr_interface; /* interface index */
};
```

Note that to receive multicast datagrams a process must join the multicast group and bind the UDP port to which datagrams will be sent. Some processes also bind the multicast group address to the socket, in addition to the port, to prevent other datagrams destined to that same port from being delivered to the socket.

6. Library Functions

New library functions are needed to perform a variety of operations with IPv6 addresses. Functions are needed to lookup IPv6 addresses in the Domain Name System (DNS). Both forward lookup (nodename-to-address translation) and reverse lookup (address-to-nodename translation) need to be supported. Functions are also needed to convert IPv6 addresses between their binary and textual form.

We note that the two existing functions, gethostbyname() and gethostbyaddr(), are left as-is. New functions are defined to handle both IPv4 and IPv6 addresses.

6.1 Nodename-to-Address Translation

The commonly used function gethostbyname() is inadequate for many applications, first because it provides no way for the caller to specify anything about the types of addresses desired (IPv4 only, IPv6 only, IPv4-mapped IPv6 are OK, etc.), and second because many implementations of this function are not thread safe. RFC 2133 defined a function named gethostbyname2() but this function was also inadequate, first because its use required setting a global option (RES_USE_INET6) when IPv6 addresses were required, and second because a flag argument is needed to provide the caller with additional control over the types of addresses required.

The following function is new and must be thread safe:

```
#include <sys/socket.h>
#include <netdb.h>
```

```
struct hostent *getipnodebyname(const char *name, int af, int flags
                                int *error_num);
```

The name argument can be either a node name or a numeric address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). The af argument specifies the address family, either AF_INET or AF_INET6. The error_num value is returned to the caller, via a pointer, with the appropriate error code in error_num, to support thread safe error code returns. error_num will be set to one of the following values:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognised the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

The flags argument specifies the types of addresses that are searched for, and the types of addresses that are returned. We note that a special flags value of AI_DEFAULT (defined below) should handle most applications.

That is, porting simple applications to use IPv6 replaces the call

```
hptr = gethostbyname(name);
```

with

```
hptr = getipnodebyname(name, AF_INET6, AI_DEFAULT, &error_num);
```

and changes any subsequent error diagnosis code to use error_num instead of externally declared variables, such as h_errno.

Applications desiring finer control over the types of addresses searched for and returned, can specify other combinations of the flags argument.

A flags of 0 implies a strict interpretation of the af argument:

- If flags is 0 and af is AF_INET, then the caller wants only IPv4 addresses. A query is made for A records. If successful, the IPv4 addresses are returned and the h_length member of the hostent structure will be 4, else the function returns a NULL pointer.

- If flags is 0 and if af is AF_INET6, then the caller wants only IPv6 addresses. A query is made for AAAA records. If successful, the IPv6 addresses are returned and the h_length member of the hostent structure will be 16, else the function returns a NULL pointer.

Other constants can be logically-ORed into the flags argument, to modify the behavior of the function.

- If the AI_V4MAPPED flag is specified along with an af of AF_INET6, then the caller will accept IPv4-mapped IPv6 addresses. That is, if no AAAA records are found then a query is made for A records and any found are returned as IPv4-mapped IPv6 addresses (h_length will be 16). The AI_V4MAPPED flag is ignored unless af equals AF_INET6.

- The AI_ALL flag is used in conjunction with the AI_V4MAPPED flag, and is only used with the IPv6 address family. When AI_ALL is logically or'd with AI_V4MAPPED flag then the caller wants all addresses: IPv6 and IPv4-mapped IPv6. A query is first made for AAAA records and if successful, the IPv6 addresses are returned. Another query is then made for A records and any found are returned as IPv4-mapped IPv6 addresses. h_length will be 16. Only if both

queries fail does the function return a NULL pointer. This flag is ignored unless af equals AF_INET6.

- The AI_ADDRCONFIG flag specifies that a query for AAAA records should occur only if the node has at least one IPv6 source address configured and a query for A records should occur only if the node has at least one IPv4 source address configured.

  For example, if the node has no IPv6 source addresses configured, and af equals AF_INET6, and the node name being looked up has both AAAA and A records, then:

  (a) if only AI_ADDRCONFIG is specified, the function returns a NULL pointer;
  (b) if AI_ADDRCONFIG | AI_V4MAPPED is specified, the A records are returned as IPv4-mapped IPv6 addresses;

The special flags value of AI_DEFAULT is defined as

```
#define  AI_DEFAULT  (AI_V4MAPPED | AI_ADDRCONFIG)
```

We noted that the getipnodebyname() function must allow the name argument to be either a node name or a literal address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). This saves applications from having to call inet_pton() to handle literal address strings.

There are four scenarios based on the type of literal address string and the value of the af argument.

The two simple cases are:

When name is a dotted-decimal IPv4 address and af equals AF_INET, or when name is an IPv6 hex address and af equals AF_INET6. The members of the returned hostent structure are: h_name points to a copy of the name argument, h_aliases is a NULL pointer, h_addrtype is a copy of the af argument, h_length is either 4 (for AF_INET) or 16 (for AF_INET6), h_addr_list[0] is a pointer to the 4-byte or 16-byte binary address, and h_addr_list[1] is a NULL pointer.

When name is a dotted-decimal IPv4 address and af equals AF_INET6, and flags equals AI_V4MAPPED, an IPv4-mapped IPv6 address is returned: h_name points to an IPv6 hex address containing the IPv4-mapped IPv6 address, h_aliases is a NULL pointer, h_addrtype is AF_INET6, h_length is 16, h_addr_list[0] is a pointer to the 16-byte binary address, and h_addr_list[1] is a NULL pointer. If AI_V4MAPPED is set (with or without AI_ALL) return IPv4-mapped otherwise return NULL.

It is an error when name is an IPv6 hex address and af equals AF_INET. The function's return value is a NULL pointer and error_num equals HOST_NOT_FOUND.

6.2 Address-To-Nodename Translation

The following function has the same arguments as the existing gethostbyaddr() function, but adds an error number.

```
#include <sys/socket.h>
#include <netdb.h>

struct hostent *getipnodebyaddr(const void *src, size_t len, int af,
                                int *error_num);
```

As with getipnodebyname(), getipnodebyaddr() must be thread safe. The error_num value is returned to the caller with the appropriate error code, to support thread safe error code returns. The following error conditions may be returned for error_num:

HOST_NOT_FOUND

No such host is known.

NO_ADDRESS

The server recognized the request and the name but no address is available. Another type of request to the name server for the domain might return an answer.

NO_RECOVERY

An unexpected server failure occurred which cannot be recovered.

TRY_AGAIN

A temporary and possibly transient error occurred, such as a failure of a server to respond.

One possible source of confusion is the handling of IPv4-mapped IPv6

addresses and IPv4-compatible IPv6 addresses, but the following logic should apply.

1. If af is AF_INET6, and if len equals 16, and if the IPv6 address is an IPv4-mapped IPv6 address or an IPv4-compatible IPv6 address, then skip over the first 12 bytes of the IPv6 address, set af to AF_INET, and set len to 4.

2. If af is AF_INET, lookup the name for the given IPv4 address (e.g., query for a PTR record in the in-addr.arpa domain).

3. If af is AF_INET6, lookup the name for the given IPv6 address (e.g., query for a PTR record in the ip6.int domain).

4. If the function is returning success, then the single address that is returned in the hostent structure is a copy of the first argument to the function with the same address family that was passed as an argument to this function.

All four steps listed are performed, in order. Also note that the IPv6 hex addresses "::" and "::1" MUST NOT be treated as IPv4-compatible

addresses, and if the address is "::", HOST_NOT_FOUND MUST be returned and a query of the address not performed.

Also for the macro in section 6.7 IN6_IS_ADDR_V4COMPAT MUST return false for "::" and "::1".

6.3 Freeing memory for getipnodebyname and getipnodebyaddr

The hostent structure does not change from its existing definition. This structure, and the information pointed to by this structure, are dynamically allocated by getipnodebyname and getipnodebyaddr. The following function frees this memory:

```
#include <netdb.h>

void freehostent(struct hostent *ptr);
```

6.4 Protocol-Independent Nodename and Service Name Translation

Nodename-to-address translation is done in a protocol-independent fashion using the getaddrinfo() function that is taken from the Institute of Electrical and Electronic Engineers (IEEE) POSIX 1003.1g (Protocol Independent Interfaces) draft specification [3].

The official specification for this function will be the final POSIX standard, with the following additional requirements:

- getaddrinfo() (along with the getnameinfo() function described in the next section) must be thread safe.

- The AI_NUMERICHOST is new with this document.

- All fields in socket address structures returned by getaddrinfo() that are not filled in through an explicit argument (e.g., sin6_flowinfo and sin_zero) must be set to 0. (This makes it easier to compare socket address structures.)

- getaddrinfo() must fill in the length field of a socket address structure (e.g., sin6_len) on systems that support this field.

We are providing this independent description of the function because POSIX standards are not freely available (as are IETF documents).

```
#include <sys/socket.h>
#include <netdb.h>

int getaddrinfo(const char *nodename, const char *servname,
                const struct addrinfo *hints,
                struct addrinfo **res);
```

The addrinfo structure is defined as a result of including the <netdb.h> header.

```
struct addrinfo {
```



```
    int     ai_flags;     /* AI_PASSIVE, AI_CANONNAME, AI_NUMERICHOST */
```

```
  int     ai_family;    /* PF_xxx */
  int     ai_socktype;  /* SOCK_xxx */
  int     ai_protocol;  /* 0 or IPPROTO_xxx for IPv4 and IPv6 */
  size_t  ai_addrlen;   /* length of ai_addr */
  char   *ai_canonname; /* canonical name for nodename */
  struct sockaddr  *ai_addr; /* binary address */
  struct addrinfo  *ai_next; /* next structure in linked list */
};
```

The return value from the function is 0 upon success or a nonzero error code. The following names are the nonzero error codes from getaddrinfo(), and are defined in <netdb.h>:

```
EAI_ADDRFAMILY  address family for nodename not supported
EAI_AGAIN       temporary failure in name resolution
EAI_BADFLAGS    invalid value for ai_flags
EAI_FAIL        non-recoverable failure in name resolution
EAI_FAMILY      ai_family not supported
EAI_MEMORY      memory allocation failure
EAI_NODATA      no address associated with nodename
EAI_NONAME      nodename nor servname provided, or not known
EAI_SERVICE     servname not supported for ai_socktype
EAI_SOCKTYPE    ai_socktype not supported
EAI_SYSTEM      system error returned in errno
```

The nodename and servname arguments are pointers to null-terminated strings or NULL. One or both of these two arguments must be a non-NULL pointer. In the normal client scenario, both the nodename and servname are specified. In the normal server scenario, only the servname is specified. A non-NULL nodename string can be either a node name or a numeric host address string (i.e., a dotted-decimal IPv4 address or an IPv6 hex address). A non-NULL servname string can be either a service name or a decimal port number.

The caller can optionally pass an addrinfo structure, pointed to by the third argument, to provide hints concerning the type of socket that the caller supports. In this hints structure all members other than ai_flags, ai_family, ai_socktype, and ai_protocol must be zero or a NULL pointer. A value of PF_UNSPEC for ai_family means the caller will accept any protocol family. A value of 0 for ai_socktype means the caller will accept any socket type. A value of 0 for ai_protocol means the caller will accept any protocol. For example, if the caller handles only TCP and not UDP, then the ai_socktype member of the hints structure should be set to SOCK_STREAM when getaddrinfo() is called. If the caller handles only IPv4 and not IPv6, then the ai_family member of the hints structure should be set to PF_INET when getaddrinfo() is called. If the third argument to getaddrinfo() is a NULL pointer, this is the same as if the caller had filled in an addrinfo structure initialized to

zero with ai_family set to PF_UNSPEC.

Upon successful return a pointer to a linked list of one or more addrinfo structures is returned through the final argument. The caller can process each addrinfo structure in this list by following the ai_next pointer, until a NULL pointer is encountered. In each returned addrinfo structure the three members ai_family, ai_socktype, and ai_protocol are the corresponding arguments for a call to the socket() function. In each addrinfo structure the ai_addr member points to a

filled-in socket address structure whose length is specified by the ai_addrlen member.

If the AI_PASSIVE bit is set in the ai_flags member of the hints structure, then the caller plans to use the returned socket address structure in a call to bind(). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to INADDR_ANY for an IPv4 address or IN6ADDR_ANY_INIT for an IPv6 address.

If the AI_PASSIVE bit is not set in the ai_flags member of the hints structure, then the returned socket address structure will be ready for a call to connect() (for a connection-oriented protocol) or either connect(), sendto(), or sendmsg() (for a connectionless protocol). In this case, if the nodename argument is a NULL pointer, then the IP address portion of the socket address structure will be set to the loopback address.

If the AI_CANONNAME bit is set in the ai_flags member of the hints structure, then upon successful return the ai_canonname member of the first addrinfo structure in the linked list will point to a null-terminated string containing the canonical name of the specified nodename.

If the AI_NUMERICHOST bit is set in the ai_flags member of the hints structure, then a non-NULL nodename string must be a numeric host address string. Otherwise an error of EAI_NONAME is returned. This flag prevents any type of name resolution service (e.g., the DNS) from being called.

All of the information returned by getaddrinfo() is dynamically

allocated: the addrinfo structures, and the socket address structures and canonical node name strings pointed to by the addrinfo structures. To return this information to the system the function freeaddrinfo() is called:

```
#include <sys/socket.h>
#include <netdb.h>

void freeaddrinfo(struct addrinfo *ai);
```

The addrinfo structure pointed to by the ai argument is freed, along with any dynamic storage pointed to by the structure. This operation is repeated until a NULL ai_next pointer is encountered.

To aid applications in printing error messages based on the EAI_xxx codes returned by getaddrinfo(), the following function is defined.

```
#include <sys/socket.h>
#include <netdb.h>

char *gai_strerror(int ecode);
```

The argument is one of the EAI_xxx values defined earlier and the return value points to a string describing the error. If the argument is not one of the EAI_xxx values, the function still returns a pointer to a string whose contents indicate an unknown error.

6.5 Socket Address Structure to Nodename and Service Name

The POSIX 1003.1g specification includes no function to perform the reverse conversion from getaddrinfo(): to look up a nodename and service name, given the binary address and port. Therefore, we define the following function:

```
#include <sys/socket.h>
#include <netdb.h>

int getnameinfo(const struct sockaddr *sa, socklen_t salen,
                char *host, size_t hostlen,
                char *serv, size_t servlen,
```

```
                int flags);
```

This function looks up an IP address and port number provided by the caller in the DNS and system-specific database, and returns text strings for both in buffers provided by the caller. The function indicates successful completion by a zero return value; a non-zero return value indicates failure.

The first argument, sa, points to either a sockaddr_in structure (for IPv4) or a sockaddr_in6 structure (for IPv6) that holds the IP address and port number. The salen argument gives the length of the sockaddr_in or sockaddr_in6 structure.

The function returns the nodename associated with the IP address in the buffer pointed to by the host argument. The caller provides the size of this buffer via the hostlen argument. The service name associated with the port number is returned in the buffer pointed to by serv, and the servlen argument gives the length of this buffer. The caller specifies not to return either string by providing a zero value for the hostlen or servlen arguments. Otherwise, the caller must provide buffers large enough to hold the nodename and the service name, including the terminating null characters.

Unfortunately most systems do not provide constants that specify the maximum size of either a fully-qualified domain name or a service name. Therefore to aid the application in allocating buffers for these two returned strings the following constants are defined in <netdb.h>:

```
#define NI_MAXHOST  1025
#define NI_MAXSERV    32
```

The first value is actually defined as the constant MAXDNAME in recent versions of BIND's <arpa/nameser.h> header (older versions of BIND define this constant to be 256) and the second is a guess based on the services listed in the current Assigned Numbers RFC.

The final argument is a flag that changes the default actions of this function. By default the fully-qualified domain name (FQDN) for the host is looked up in the DNS and returned. If the flag bit NI_NOFQDN is set, only the nodename portion of the FQDN is returned for local hosts.

If the flag bit NI_NUMERICHOST is set, or if the host's name cannot be located in the DNS, the numeric form of the host's address is returned instead of its name (e.g., by calling inet_ntop() instead of getipnodebyaddr()). If the flag bit NI_NAMEREQD is set, an error is

returned if the host's name cannot be located in the DNS.

If the flag bit NI_NUMERICSERV is set, the numeric form of the service address is returned (e.g., its port number) instead of its name. The two NI_NUMERICxxx flags are required to support the "-n" flag that many commands provide.

A fifth flag bit, NI_DGRAM, specifies that the service is a datagram service, and causes getservbyport() to be called with a second argument of "udp" instead of its default of "tcp". This is required for the few ports (e.g. 512-514) that have different services for UDP and TCP.

These NI_xxx flags are defined in <netdb.h> along with the AI_xxx flags already defined for getaddrinfo().

6.6 Address Conversion Functions

The two functions inet_addr() and inet_ntoa() convert an IPv4 address between binary and text form. IPv6 applications need similar functions. The following two functions convert both IPv6 and IPv4 addresses:

```
#include <sys/socket.h>
#include <arpa/inet.h>

int inet_pton(int af, const char *src, void *dst);

const char *inet_ntop(int af, const void *src,
                      char *dst, size_t size);
```

The inet_pton() function converts an address in its standard text presentation form into its numeric binary form. The af argument specifies the family of the address. Currently the AF_INET and AF_INET6 address families are supported. The src argument points to the string being passed in. The dst argument points to a buffer into which the function stores the numeric address. The address is returned in network byte order. Inet_pton() returns 1 if the conversion succeeds, 0 if the input is not a valid IPv4 dotted-decimal string or a valid IPv6 address string, or -1 with errno set to EAFNOSUPPORT if the af argument is unknown. The calling application must ensure that the buffer referred to by dst is large enough to hold the numeric address (e.g., 4 bytes for AF_INET or 16 bytes for AF_INET6).

If the af argument is AF_INET, the function accepts a string in the standard IPv4 dotted-decimal form:

```
ddd.ddd.ddd.ddd
```

where ddd is a one to three digit decimal number between 0 and 255. Note that many implementations of the existing inet_addr() and inet_aton() functions accept nonstandard input: octal numbers, hexadecimal numbers, and fewer than four numbers. inet_pton() does not accept these formats.

If the af argument is AF_INET6, then the function accepts a string in one of the standard IPv6 text forms defined in Section 2.2 of the addressing architecture specification [2].

The inet_ntop() function converts a numeric address into a text string suitable for presentation. The af argument specifies the family of the address. This can be AF_INET or AF_INET6. The src argument points to a buffer holding an IPv4 address if the af argument is AF_INET, or an IPv6 address if the af argument is AF_INET6, the address must be in network byte order. The dst argument points to a buffer where the function will store the resulting text string. The size argument specifies the size of this buffer. The application must specify a non-NULL dst argument. For IPv6 addresses, the buffer must be at least 46-octets. For IPv4 addresses, the buffer must be at least 16-octets. In order to allow applications to easily declare buffers of the proper size to store IPv4 and IPv6 addresses in string form, the following two constants are defined in <netinet/in.h>:

```
#define INET_ADDRSTRLEN    16
#define INET6_ADDRSTRLEN   46
```

The inet_ntop() function returns a pointer to the buffer containing the text string if the conversion succeeds, and NULL otherwise. Upon failure, errno is set to EAFNOSUPPORT if the af argument is invalid or ENOSPC if the size of the result buffer is inadequate.

6.7 Address Testing Macros

The following macros can be used to test for special IPv6 addresses.

```
#include <netinet/in.h>

int  IN6_IS_ADDR_UNSPECIFIED (const struct in6_addr *);
int  IN6_IS_ADDR_LOOPBACK    (const struct in6_addr *);
int  IN6_IS_ADDR_MULTICAST   (const struct in6_addr *);
int  IN6_IS_ADDR_LINKLOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_SITELOCAL   (const struct in6_addr *);
int  IN6_IS_ADDR_V4MAPPED    (const struct in6_addr *);
int  IN6_IS_ADDR_V4COMPAT    (const struct in6_addr *);

int  IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
int  IN6_IS_ADDR_MC_ORGLOCAL (const struct in6_addr *);
int  IN6_IS_ADDR_MC_GLOBAL   (const struct in6_addr *);
```

The first seven macros return true if the address is of the specified type, or false otherwise. The last five test the scope of a multicast address and return true if the address is a multicast address of the specified scope or false if the address is either not a multicast address or not of the specified scope. Note that IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL return true only for the two local-use IPv6 unicast addresses. These two macros do not return true for IPv6 multicast addresses of either link-local scope or site-local scope.

7. Summary of New Definitions

The following list summarizes the constants, structure, and extern definitions discussed in this memo, sorted by header.

```
<net/if.h>     IF_NAMESIZE
<net/if.h>     struct if_nameindex{};
```

```
<netdb.h>      AI_ADDRCONFIG
<netdb.h>      AI_DEFAULT
<netdb.h>      AI_ALL
<netdb.h>      AI_CANONNAME
<netdb.h>      AI_NUMERICHOST
<netdb.h>      AI_PASSIVE
<netdb.h>      AI_V4MAPPED
<netdb.h>      EAI_ADDRFAMILY
<netdb.h>      EAI_AGAIN
<netdb.h>      EAI_BADFLAGS
<netdb.h>      EAI_FAIL
<netdb.h>      EAI_FAMILY
<netdb.h>      EAI_MEMORY
<netdb.h>      EAI_NODATA
<netdb.h>      EAI_NONAME
<netdb.h>      EAI_SERVICE
<netdb.h>      EAI_SOCKTYPE
<netdb.h>      EAI_SYSTEM
<netdb.h>      NI_DGRAM
<netdb.h>      NI_MAXHOST
<netdb.h>      NI_MAXSERV
<netdb.h>      NI_NAMEREQD
<netdb.h>      NI_NOFQDN
<netdb.h>      NI_NUMERICHOST
<netdb.h>      NI_NUMERICSERV
<netdb.h>      struct addrinfo{};

<netinet/in.h>  IN6ADDR_ANY_INIT
<netinet/in.h>  IN6ADDR_LOOPBACK_INIT
<netinet/in.h>  INET6_ADDRSTRLEN
<netinet/in.h>  INET_ADDRSTRLEN
<netinet/in.h>  IPPROTO_IPV6
<netinet/in.h>  IPV6_JOIN_GROUP
<netinet/in.h>  IPV6_LEAVE_GROUP
<netinet/in.h>  IPV6_MULTICAST_HOPS
<netinet/in.h>  IPV6_MULTICAST_IF
<netinet/in.h>  IPV6_MULTICAST_LOOP
<netinet/in.h>  IPV6_UNICAST_HOPS
<netinet/in.h>  SIN6_LEN
<netinet/in.h>  extern const struct in6_addr in6addr_any;
<netinet/in.h>  extern const struct in6_addr in6addr_loopback;
<netinet/in.h>  struct in6_addr{};
<netinet/in.h>  struct ipv6_mreq{};
<netinet/in.h>  struct sockaddr_in6{};

<sys/socket.h>  AF_INET6
<sys/socket.h>  PF_INET6
```

```
<sys/socket.h>  struct sockaddr_storage;
```

The following list summarizes the function and macro prototypes

discussed in this memo, sorted by header.

```
<arpa/inet.h>   int inet_pton(int, const char *, void *);
<arpa/inet.h>   const char *inet_ntop(int, const void *,
                        char *, size_t);

<net/if.h>      char *if_indextoname(unsigned int, char *);
<net/if.h>      unsigned int if_nametoindex(const char *);
<net/if.h>      void if_freenameindex(struct if_nameindex *);
<net/if.h>      struct if_nameindex *if_nameindex(void);

<netdb.h>       int getaddrinfo(const char *, const char *,
                    const struct addrinfo *,
                    struct addrinfo **);
<netdb.h>       int getnameinfo(const struct sockaddr *, socklen_t,
                    char *, size_t, char *, size_t, int);
<netdb.h>       void freeaddrinfo(struct addrinfo *);
<netdb.h>       char *gai_strerror(int);
<netdb.h>       struct hostent *getipnodebyname(const char *, int, int,
                        int *);
<netdb.h>       struct hostent *getipnodebyaddr(const void *, size_t, int,
                        int *);
<netdb.h>       void freehostent(struct hostent *);

<netinet/in.h>  int IN6_IS_ADDR_LINKLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_LOOPBACK(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_GLOBAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_LINKLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_NODELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_ORGLOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MC_SITELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_MULTICAST(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_SITELOCAL(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_UNSPECIFIED(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_V4COMPAT(const struct in6_addr *);
<netinet/in.h>  int IN6_IS_ADDR_V4MAPPED(const struct in6_addr *);
```

8. Security Considerations

IPv6 provides a number of new security mechanisms, many of which need to be accessible to applications. Companion memos detailing the extensions to the socket interfaces to support IPv6 security are being written.

9. Year 2000 Considerations

There are no issues for this draft concerning the Year 2000 issue regarding the use of dates.

Changes From RFC 2133

Changes made in the March 1998 Edition (-01 draft):

Changed all "hostname" to "nodename" for consistency with other IPv6 documents.

Section 3.3: changed comment for sin6_flowinfo to be "traffic class & flow info" and updated corresponding text description to current definition of these two fields.

Section 3.10 ("Portability Additions") is new.

Section 6: a new paragraph was added reiterating that the existing gethostbyname() and gethostbyaddr() are not changed.

Section 6.1: change gethostbyname3() to getnodebyname(). Add AI_DEFAULT to handle majority of applications. Renamed AI_V6ADDRCONFIG to AI_ADDRCONFIG and define it for A records and IPv4

addresses too. Defined exactly what getnodebyname() must return if the name argument is a numeric address string.

Section 6.2: change gethostbyaddr() to getnodebyaddr(). Reword items 2 and 3 in the description of how to handle IPv4-mapped and IPv4-compatible addresses to "lookup a name" for a given address, instead of specifying what type of DNS query to issue.

Section 6.3: added two more requirements to getaddrinfo().

Section 7: added the following constants to the list for <netdb.h>: AI_ADDRCONFIG, AI_ALL, and AI_V4MAPPED. Add union sockaddr_union and SA_LEN to the lists for <sys/socket.h>.

Updated references.

Changes made in the November 1997 Edition (-00 draft):

The data types have been changed to conform with Draft 6.6 of the Posix 1003.1g standard.

Section 3.2: data type of s6_addr changed to "uint8_t".

Section 3.3: data type of sin6_family changed to "sa_family_t". data type of sin6_port changed to "in_port_t", data type of sin6_flowinfo changed to "uint32_t".

Section 3.4: same as Section 3.3, plus data type of sin6_len changed to "uint8_t".

Section 6.2: first argument of gethostbyaddr() changed from "const char *" to "const void *" and second argument changed from "int" to "size_t".

Section 6.4: second argument of getnameinfo() changed from "size_t" to "socklen_t".

The wording was changed when new structures were defined, to be more explicit as to which header must be included to define the structure:

Section 3.2 (in6_addr{}), Section 3.3 (sockaddr_in6{}), Section 3.4

(sockaddr_in6{}), Section 4.3 (if_nameindex{}), Section 5.3 (ipv6_mreq{}), and Section 6.3 (addrinfo{}).

Section 4: NET_RT_LIST changed to NET_RT_IFLIST.

Section 5.1: The IPV6_ADDRFORM socket option was removed.

Section 5.3: Added a note that an option value other than 0 or 1 for IPV6_MULTICAST_LOOP returns an error. Added a note that IPV6_MULTICAST_IF, IPV6_MULTICAST_HOPS, and IPV6_MULTICAST_LOOP can also be used with getsockopt(), but IPV6_ADD_MEMBERSHIP and IPV6_DROP_MEMBERSHIP cannot be used with getsockopt().

Section 6.1: Removed the description of gethostbyname2() and its associated RES_USE_INET6 option, replacing it with gethostbyname3().

Section 6.2: Added requirement that gethostbyaddr() be thread safe. Reworded step 4 to avoid using the RES_USE_INET6 option.

Section 6.3: Added the requirement that getaddrinfo() and getnameinfo() be thread safe. Added the AI_NUMERICHOST flag.

Section 6.6: Added clarification about IN6_IS_ADDR_LINKLOCAL and IN6_IS_ADDR_SITELOCAL macros.

Changes made to the draft -01 specification Sept 98

Changed priority to traffic class in the spec.

Added the need for scope identification in section 2.1.

Added sin6_scope_id to struct sockaddr_in6 in sections 3.3 and 3.4.

Changed 3.10 to use generic storage structure to support holding IPv6 addresses and removed the SA_LEN macro.

Distinguished between invalid input parameters and system failures for Interface Identification in Section 4.1 and 4.2.

Added defaults for multicast operations in section 5.2 and changed the names from ADD to JOIN and DROP to LEAVE to be consistent with IPv6 multicast terminology.

Changed getnodebyname to getipnodebyname, getnodebyaddr to getipnodebyaddr, and added MT safe error code to function parameters in section 6.

Moved freehostent to its own sub-section after getipnodebyaddr now

6.3 (so this bumps all remaining sections in section 6.

Clarified the use of AI_ALL and AI_V4MAPPED that these are dependent on the AF parameter and must be used as a conjunction in section 6.1.

Removed the restriction that literal addresses cannot be used with a flags argument in section 6.1.

Added Year 2000 Section to the draft

Deleted Reference to the following because the attached is deleted from the ID directory and has expired. But the logic from the aforementioned draft still applies, so that was kept in Section 6.2 bullets after 3rd paragraph.

[7] P. Vixie, "Reverse Name Lookups of Encapsulated IPv4 Addresses in IPv6", Internet-Draft, <draft-vixie-ipng-ipv4ptr-00.txt>, May 1996.

Deleted the following reference as it is no longer referenced. And the draft has expired.

[3] D. McDonald, "A Simple IP Security API Extension to BSD Sockets", Internet-Draft, <draft-mcdonald-simple-ipsec-api-01.txt>, March 1997.

Deleted the following reference as it is no longer referenced.

[4] C. Metz, "Network Security API for Sockets", Internet-Draft, <draft-metz-net-security-api-01.txt>, January 1998.

Update current references to current status.

Added alignment notes for in6_addr and sin6_addr.

Clarified further that AI_V4MAPPED must be used with a dotted IPv4 literal address for getipnodebyname(), when address family is AF_INET6.

Added text to clarify "::" and "::1" when used by getipnodebyaddr().

Acknowledgments

Thanks to the many people who made suggestions and provided feedback to this document, including: Werner Almesberger, Ran Atkinson, Fred Baker, Dave Borman, Andrew Cherenson, Alex Conta, Alan Cox, Steve Deering, Richard Draves, Francis Dupont, Robert Elz, Marc Hasson, Tom Herbert, Bob Hinden, Wan-Yen Hsu, Christian Huitema, Koji Imada, Markus Jork, Ron Lee, Alan Lloyd, Charles Lynn, Dan McDonald, Dave Mitton, Thomas Narten, Josh Osborne, Craig Partridge, Jean-Luc Richier, Erik Scoredos, Keith Sklower, Matt Thomas, Harvey Thompson, Dean D. Throop, Karen Tracey, Glenn Trewitt, Paul Vixie, David Waitzman, Carl Williams, and Kazu Yamamoto,

The getaddrinfo() and getnameinfo() functions are taken from an earlier Internet Draft by Keith Sklower. As noted in that draft, William Durst, Steven Wise, Michael Karels, and Eric Allman provided many useful discussions on the subject of protocol-independent name-to-address translation, and reviewed early versions of Keith Sklower's original proposal. Eric Allman implemented the first prototype of getaddrinfo(). The observation that specifying the pair of name and service would suffice for connecting to a service independent of protocol details was made by Marshall Rose in a proposal to X/Open for a "Uniform Network Interface".

Craig Metz, Jack McCann, Erik Nordmark, Tim Hartrick, and Mukesh Kacker made many contributions to this document. Ramesh Govindan made a number

of contributions and co-authored an earlier version of this memo.

References

[1] S. Deering, R. Hinden, "Internet Protocol, Version 6 (IPv6) Specification", RFC 2460 Draft Standard.

[2] R. Hinden, S. Deering, "IP Version 6 Addressing Architecture", RFC 2373, July 1998 Draft Standard.

[3] IEEE, "Protocol Independent Interfaces",

IEEE Std 1003.1g, DRAFT 6.6,
March 1997.

[4] W. Stevens, M. Thomas, "Advanced Sockets API for IPv6",
RFC 2292, February 1998.

Authors' Addresses

Robert E. Gilligan
FreeGate Corporation
1208 E. Arques Ave.
Sunnyvale, CA 94086
Phone: +1 408 617 1004
Email: gilligan@freegate.net

Susan Thomson
Bell Communications Research
MRE 2P-343, 445 South Street
Morristown, NJ 07960
Telephone: +1 201 829 4514
Email: set@thumper.bellcore.com

Jim Bound
Compaq Computer Corporation
110 Spitbrook Road ZK3-3/U14
Nashua, NH 03062-2698
Phone: +1 603 884 0400
Email: bound@zk3.dec.com

W. Richard Stevens
1202 E. Paseo del Zorro
Tucson, AZ 85718-2826
Phone: +1 520 297 9416
Email: rstevens@kohala.com

Open Source Used In NXOS-MDS Platform 9.4.1 2974

Copyright (C) @SYSYEARS@ Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.
Portions Copyright (C) Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.

See the COPYRIGHT file distributed with this work for additional
information regarding copyright ownership.
./CHANGES X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./CONTRIBUTING X 2018,2019,2020,2021,2022
./CONTRIBUTING.md MKD 2018,2019,2020,2021,2022
./COPYRIGHT TXT.TOP
1996,1997,1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./EXCLUDED X 2017,2018,2019,2020,2021,2022
./HISTORY X 2010,2013,2016,2017,2018,2019,2020,2021,2022
./HISTORY.md MKD 2017,2018,2019,2020,2021,2022
./Kyuafile X 2017,2018,2019,2020,2021,2022
./LICENSE X 2016,2018,2019,2020,2021,2022
./Makefile.in MAKE
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./OPTIONS X 2017,2018,2019,2020,2021,2022
./OPTIONS.md MKD 2017,2018,2019,2020,2021,2022
./README X
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./README.md MKD 2017,2018,2019,2020,2021,2022
./acconfig.h C 1999,2000,2001,2002,2003,2004,2005,2007,2008,2012,2014,2016,2018,2019,2020,2021,2022
./aclocal.m4 X 1999,2000,2001,2012,2014,2018,2019,2020,2021,2022
./autogen.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/Makefile.in MAKE
2000,2001,2002,2003,2004,2005,2006,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/check/check-tool.c C
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/check/check-tool.h C 2000,2001,2002,2004,2005,2007,2010,2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/named-checkconf.8 MAN DOCBOOK
./bin/check/named-checkconf.c C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,202

2
./bin/check/named-checkconf.docbook SGML
2000,2001,2002,2004,2005,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/check/named-checkconf.html HTML DOCBOOK
./bin/check/named-checkzone.8 MAN DOCBOOK
./bin/check/named-checkzone.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/check/named-checkzone.docbook SGML
2000,2001,2002,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/check/named-checkzone.html HTML DOCBOOK
./bin/check/win32/checkconf.dsp.in X 2001,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/win32/checkconf.dsw X 2001,2013,2018,2019,2020,2021,2022
./bin/check/win32/checkconf.mak.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/win32/checkconf.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/check/win32/checkconf.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/check/win32/checkconf.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/check/win32/checktool.dsp.in X 2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/win32/checktool.dsw X 2006,2018,2019,2020,2021,2022
./bin/check/win32/checktool.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/check/win32/checktool.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/check/win32/checktool.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.dsp.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.dsw X 2001,2013,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.mak.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/check/win32/checkzone.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/confgen/Makefile.in MAKE 2009,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/confgen/ddns-confgen.8 MAN DOCBOOK
./bin/confgen/ddns-confgen.c C 2009,2011,2014,2016,2018,2019,2020,2021,2022
./bin/confgen/ddns-confgen.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/confgen/ddns-confgen.html HTML DOCBOOK
./bin/confgen/include/confgen/os.h C 2009,2016,2018,2019,2020,2021,2022
./bin/confgen/keygen.c C 2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/confgen/keygen.h C 2009,2016,2018,2019,2020,2021,2022
./bin/confgen/rndc-confgen.8 MAN DOCBOOK
./bin/confgen/rndc-confgen.c C
2001,2003,2004,2005,2007,2008,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/confgen/rndc-confgen.docbook SGML
2001,2003,2004,2005,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/confgen/rndc-confgen.html HTML DOCBOOK
./bin/confgen/unix/Makefile.in MAKE 2009,2012,2016,2018,2019,2020,2021,2022
./bin/confgen/unix/os.c C 2009,2016,2018,2019,2020,2021,2022
./bin/confgen/util.c C 2009,2015,2016,2018,2019,2020,2021,2022
./bin/confgen/util.h C 2009,2016,2018,2019,2020,2021,2022
./bin/confgen/win32/confgentool.dsp.in X 2009,2013,2018,2019,2020,2021,2022
./bin/confgen/win32/confgentool.dsw X 2009,2018,2019,2020,2021,2022

./bin/confgen/win32/confgentool.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/confgen/win32/confgentool.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/confgen/win32/confgentool.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.dsp.in X 2009,2013,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.dsw X 2009,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.mak.in X 2009,2013,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/confgen/win32/ddnsconfgen.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/confgen/win32/os.c C 2009,2016,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.dsp.in X 2001,2009,2013,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.dsw X 2001,2004,2005,2006,2009,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.mak.in X 2001,2004,2005,2006,2009,2013,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/confgen/win32/rndcconfgen.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/delv/Makefile.in MAKE 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/delv/delv.1 MAN DOCBOOK
./bin/delv/delv.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/delv/delv.docbook SGML 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/delv/delv.html HTML DOCBOOK
./bin/delv/win32/delv.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./bin/delv/win32/delv.dsw X 2014,2018,2019,2020,2021,2022
./bin/delv/win32/delv.mak.in X 2014,2016,2018,2019,2020,2021,2022
./bin/delv/win32/delv.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./bin/delv/win32/delv.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/delv/win32/delv.vcxproj.user X 2014,2018,2019,2020,2021,2022
./bin/dig/Makefile.in MAKE
2000,2001,2002,2004,2005,2007,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/dig.1 MAN DOCBOOK
./bin/dig/dig.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/dig.docbook SGML
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/dig.html HTML DOCBOOK
./bin/dig/dighost.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/host.1 MAN DOCBOOK
./bin/dig/host.c C
2000,2001,2002,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/host.docbook SGML
2000,2001,2002,2004,2005,2007,2008,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/host.html HTML DOCBOOK
./bin/dig/include/dig/dig.h C

2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/nslookup.1 MAN DOCBOOK
./bin/dig/nslookup.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/nslookup.docbook SGML
2004,2005,2006,2007,2010,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/nslookup.html HTML DOCBOOK
./bin/dig/win32/dig.dsp.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/dig.dsw X 2001,2018,2019,2020,2021,2022
./bin/dig/win32/dig.mak.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/dig.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dig/win32/dig.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/win32/dig.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dig/win32/dighost.dsp.in X 2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/dighost.dsw X 2006,2018,2019,2020,2021,2022
./bin/dig/win32/dighost.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dig/win32/dighost.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/win32/dighost.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dig/win32/host.dsp.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/host.dsw X 2001,2018,2019,2020,2021,2022
./bin/dig/win32/host.mak.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/host.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dig/win32/host.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/win32/host.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.dsp.in X 2001,2002,2004,2005,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.dsw X 2001,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.mak.in X 2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dig/win32/nslookup.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/Makefile.in MAKE
2000,2001,2002,2004,2005,2007,2008,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-dsfromkey.8 MAN DOCBOOK
./bin/dnssec/dnssec-dsfromkey.c C 2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-dsfromkey.docbook SGML
2008,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-dsfromkey.html HTML DOCBOOK
./bin/dnssec/dnssec-importkey.8 MAN DOCBOOK
./bin/dnssec/dnssec-importkey.c C 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-importkey.docbook SGML 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-importkey.html HTML DOCBOOK
./bin/dnssec/dnssec-keyfromlabel.8 MAN DOCBOOK
./bin/dnssec/dnssec-keyfromlabel.c C
2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-keyfromlabel.docbook SGML
2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022

./bin/dnssec/dnssec-keyfromlabel.html HTML DOCBOOK
./bin/dnssec/dnssec-keygen.8 MAN DOCBOOK
./bin/dnssec/dnssec-keygen.c C.NAI
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-keygen.docbook SGML
2000,2001,2002,2003,2004,2005,2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-keygen.html HTML DOCBOOK
./bin/dnssec/dnssec-revoke.8 MAN DOCBOOK
./bin/dnssec/dnssec-revoke.c C 2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-revoke.docbook SGML 2009,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-revoke.html HTML DOCBOOK
./bin/dnssec/dnssec-settime.8 MAN DOCBOOK
./bin/dnssec/dnssec-settime.c C 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-settime.docbook SGML 2009,2010,2011,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-settime.html HTML DOCBOOK
./bin/dnssec/dnssec-signzone.8 MAN DOCBOOK
./bin/dnssec/dnssec-signzone.c C.NAI
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-signzone.docbook SGML
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-signzone.html HTML DOCBOOK
./bin/dnssec/dnssec-verify.8 MAN DOCBOOK
./bin/dnssec/dnssec-verify.c C 2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-verify.docbook SGML 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/dnssec/dnssec-verify.html HTML DOCBOOK
./bin/dnssec/dnssectool.c C
2000,2001,2003,2004,2005,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/dnssectool.h C
2000,2001,2003,2004,2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/dnssectool.dsp.in X 2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/dnssectool.dsw X 2006,2009,2018,2019,2020,2021,2022
./bin/dnssec/win32/dnssectool.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/dnssectool.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/dnssectool.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.dsp.in X 2008,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.dsw X 2008,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.mak.in X 2008,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/dsfromkey.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/importkey.dsp.in X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/importkey.dsw X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/importkey.mak.in X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/importkey.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022

./bin/dnssec/win32/importkey.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/importkey.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.dsp.in X 2008,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.dsw X 2008,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.mak.in X 2008,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/keyfromlabel.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.dsp.in X 2001,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.dsw X 2001,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.mak.in X 2001,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/keygen.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.dsp.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.dsw X 2009,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.mak.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/revoke.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.dsp.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.dsw X 2009,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.mak.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/settime.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.dsp.in X 2001,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.dsw X 2001,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.mak.in X 2001,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/signzone.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.dsp.in X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.dsw X 2013,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.mak.in X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/dnssec/win32/verify.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/named/Makefile.in MAKE
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/bind9.xsl SGML 2006,2007,2008,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/bind9.xsl.h X 2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/builtin.c C
2001,2002,2003,2004,2005,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/client.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

./bin/named/config.c C
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/control.c C
2001,2002,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/controlconf.c C
2001,2002,2003,2004,2005,2006,2007,2008,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/convertxsl.pl PERL 2006,2007,2008,2012,2014,2016,2018,2019,2020,2021,2022
./bin/named/fuzz.c C 2016,2018,2019,2020,2021,2022
./bin/named/geoip.c C 2013,2014,2016,2018,2019,2020,2021,2022
./bin/named/include/dlz/dlz_dlopen_driver.h C 2011,2016,2018,2019,2020,2021,2022
./bin/named/include/named/builtin.h C 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/client.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/include/named/config.h C 2001,2002,2004,2005,2006,2007,2009,2013,2016,2018,2019,2020,2021,2022
./bin/named/include/named/control.h C
2001,2002,2003,2004,2005,2006,2007,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/include/named/fuzz.h C 2016,2018,2019,2020,2021,2022
./bin/named/include/named/geoip.h C 2013,2016,2018,2019,2020,2021,2022
./bin/named/include/named/globals.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/include/named/interfacemgr.h C
1999,2000,2001,2002,2004,2005,2007,2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/named/include/named/listenlist.h C 2000,2001,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./bin/named/include/named/log.h C
1999,2000,2001,2002,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/include/named/logconf.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/lwaddr.h C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/lwdclient.h C 2000,2001,2004,2005,2007,2009,2015,2016,2018,2019,2020,2021,2022
./bin/named/include/named/lwresd.h C 2000,2001,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./bin/named/include/named/lwsearch.h C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/main.h C
1999,2000,2001,2002,2004,2005,2007,2009,2013,2015,2016,2018,2019,2020,2021,2022
./bin/named/include/named/notify.h C 1999,2000,2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./bin/named/include/named/ns_smf_globals.h C 2005,2007,2014,2016,2018,2019,2020,2021,2022
./bin/named/include/named/query.h C
1999,2000,2001,2002,2004,2005,2007,2010,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/include/named/seccomp.h C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/named/include/named/server.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/include/named/sortlist.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/statschannel.h C 2008,2016,2018,2019,2020,2021,2022
./bin/named/include/named/tkeyconf.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/tsigconf.h C
1999,2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022

./bin/named/include/named/types.h C
1999,2000,2001,2004,2005,2006,2007,2008,2009,2015,2016,2018,2019,2020,2021,2022
./bin/named/include/named/update.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/xfrout.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/include/named/zoneconf.h C
1999,2000,2001,2002,2004,2005,2006,2007,2010,2011,2015,2016,2018,2019,2020,2021,2022
./bin/named/interfacemgr.c C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/listenlist.c C 2000,2001,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./bin/named/log.c C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/named/logconf.c C
1999,2000,2001,2004,2005,2006,2007,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/lwaddr.c C 2000,2001,2004,2005,2007,2008,2014,2016,2018,2019,2020,2021,2022
./bin/named/lwdclient.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/named/lwderror.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/lwdgabn.c C 2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./bin/named/lwdgnba.c C 2000,2001,2002,2004,2005,2007,2008,2014,2016,2018,2019,2020,2021,2022
./bin/named/lwdgrbn.c C
2000,2001,2003,2004,2005,2006,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/lwdnoop.c C 2000,2001,2004,2005,2007,2008,2016,2018,2019,2020,2021,2022
./bin/named/lwresd.8 MAN DOCBOOK
./bin/named/lwresd.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/lwresd.docbook SGML
2000,2001,2004,2005,2007,2008,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/lwresd.html HTML DOCBOOK
./bin/named/lwsearch.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./bin/named/main.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/named.8 MAN DOCBOOK
./bin/named/named.conf.5 MAN DOCBOOK
./bin/named/named.conf.docbook SGML
2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/named.conf.html HTML DOCBOOK
./bin/named/named.docbook SGML
2000,2001,2003,2004,2005,2006,2007,2008,2009,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/named.html HTML DOCBOOK
./bin/named/notify.c C 1999,2000,2001,2002,2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./bin/named/query.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/server.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/sortlist.c C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022

./bin/named/statschannel.c C 2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/tkeyconf.c C
1999,2000,2001,2004,2005,2006,2007,2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/named/tsigconf.c C
1999,2000,2001,2004,2005,2006,2007,2009,2011,2012,2016,2017,2018,2019,2020,2021,2022
./bin/named/unix/Makefile.in MAKE 1999,2000,2001,2004,2007,2009,2011,2012,2016,2018,2019,2020,2021,2022
./bin/named/unix/dlz_dlopen_driver.c C 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/named/unix/include/named/os.h C
1999,2000,2001,2002,2004,2005,2007,2008,2009,2014,2016,2017,2018,2019,2020,2021,2022
./bin/named/unix/os.c C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/update.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/win32/dlz_dlopen_driver.c C 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/named/win32/include/named/ntservice.h C
1999,2000,2001,2002,2003,2004,2007,2016,2018,2019,2020,2021,2022
./bin/named/win32/include/named/os.h C
1999,2000,2001,2002,2004,2007,2008,2009,2014,2016,2017,2018,2019,2020,2021,2022
./bin/named/win32/named.dsp.in X
2001,2004,2005,2008,2009,2010,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/win32/named.dsw X 2001,2018,2019,2020,2021,2022
./bin/named/win32/named.mak.in X
2001,2002,2004,2005,2006,2008,2009,2010,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/named/win32/named.vcxproj.filters.in X 2013,2015,2016,2018,2019,2020,2021,2022
./bin/named/win32/named.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/win32/named.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/named/win32/ntservice.c C
1999,2000,2001,2002,2004,2006,2007,2009,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/win32/os.c C
1999,2000,2001,2002,2004,2005,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/xfrout.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/named/zoneconf.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/nsupdate/Makefile.in MAKE
2000,2001,2002,2004,2006,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/nsupdate/nsupdate.1 MAN DOCBOOK
./bin/nsupdate/nsupdate.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/nsupdate/nsupdate.docbook SGML
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/nsupdate/nsupdate.html HTML DOCBOOK

./bin/nsupdate/win32/nsupdate.dsp.in X 2001,2004,2005,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/nsupdate/win32/nsupdate.dsw X 2001,2018,2019,2020,2021,2022
./bin/nsupdate/win32/nsupdate.mak.in X
2001,2002,2004,2005,2006,2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/nsupdate/win32/nsupdate.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/nsupdate/win32/nsupdate.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/nsupdate/win32/nsupdate.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/pkcs11/Makefile.in MAKE 2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/OLD-PKCS11-NOTES X 2009,2018,2019,2020,2021,2022
./bin/pkcs11/openssl-0.9.8zh-patch X 2015,2018,2019,2020,2021,2022
./bin/pkcs11/openssl-1.0.0t-patch X 2015,2018,2019,2020,2021,2022
./bin/pkcs11/openssl-1.0.1t-patch X 2016,2018,2019,2020,2021,2022
./bin/pkcs11/openssl-1.0.2h-patch X 2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-destroy.8 MAN DOCBOOK
./bin/pkcs11/pkcs11-destroy.c X 2009,2010,2014,2015,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-destroy.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-destroy.html HTML DOCBOOK
./bin/pkcs11/pkcs11-keygen.8 MAN DOCBOOK
./bin/pkcs11/pkcs11-keygen.c X 2009,2014,2015,2017,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-keygen.docbook SGML 2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-keygen.html HTML DOCBOOK
./bin/pkcs11/pkcs11-list.8 MAN DOCBOOK
./bin/pkcs11/pkcs11-list.c C 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-list.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-list.html HTML DOCBOOK
./bin/pkcs11/pkcs11-tokens.8 MAN DOCBOOK
./bin/pkcs11/pkcs11-tokens.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-tokens.docbook SGML 2014,2015,2016,2018,2019,2020,2021,2022
./bin/pkcs11/pkcs11-tokens.html HTML DOCBOOK
./bin/pkcs11/win32/pk11destroy.dsp.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11destroy.dsw X 2009,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11destroy.mak.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11destroy.vcxproj.filters.in X 2013,2014,2015,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11destroy.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11destroy.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.dsp.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.dsw X 2009,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.mak.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.vcxproj.filters.in X 2013,2014,2015,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11keygen.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.dsp.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.dsw X 2009,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.mak.in X 2009,2013,2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.vcxproj.filters.in X 2013,2014,2015,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11list.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11tokens.dsp.in X 2014,2018,2019,2020,2021,2022

./bin/pkcs11/win32/pk11tokens.dsw X 2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11tokens.mak.in X 2014,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11tokens.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11tokens.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/pkcs11/win32/pk11tokens.vcxproj.user X 2014,2018,2019,2020,2021,2022
./bin/python/Makefile.in MAKE 2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/python/dnssec-checkds.8 MAN DOCBOOK
./bin/python/dnssec-checkds.docbook SGML 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/python/dnssec-checkds.html HTML DOCBOOK
./bin/python/dnssec-checkds.py.in PYTHON-BIN 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/python/dnssec-coverage.8 MAN DOCBOOK
./bin/python/dnssec-coverage.docbook SGML 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/python/dnssec-coverage.html HTML DOCBOOK
./bin/python/dnssec-coverage.py.in PYTHON-BIN 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/python/dnssec-keymgr.8 MAN DOCBOOK
./bin/python/dnssec-keymgr.docbook SGML 2016,2017,2018,2019,2020,2021,2022
./bin/python/dnssec-keymgr.html HTML DOCBOOK
./bin/python/dnssec-keymgr.py.in PYTHON-BIN 2016,2017,2018,2019,2020,2021,2022
./bin/python/isc/Makefile.in MAKE 2016,2018,2019,2020,2021,2022
./bin/python/isc/__init__.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/checkds.py.in PYTHON 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/python/isc/coverage.py.in PYTHON 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/python/isc/dnskey.py.in PYTHON 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/python/isc/eventlist.py.in PYTHON 2015,2016,2018,2019,2020,2021,2022
./bin/python/isc/keydict.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/keyevent.py.in PYTHON 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/python/isc/keymgr.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/keyseries.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/keyzone.py.in PYTHON 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/python/isc/policy.py.in PYTHON 2016,2017,2018,2019,2020,2021,2022
./bin/python/isc/rndc.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/Makefile.in MAKE 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/dnskey_test.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/policy_test.py.in PYTHON 2016,2017,2018,2019,2020,2021,2022
./bin/python/isc/tests/test-policies/01-keysize.pol CONF-C 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/test-policies/02-prepublish.pol CONF-C 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/test-policies/03-postpublish.pol CONF-C 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/test-policies/04-combined-pre-post.pol CONF-C 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/test-policies/05-numeric-zone.pol CONF-C 2017,2018,2019,2020,2021,2022
./bin/python/isc/tests/testdata/Kexample.com.+007+35529.key X 2016,2018,2019,2020,2021,2022
./bin/python/isc/tests/testdata/Kexample.com.+007+35529.private X 2016,2018,2019,2020,2021,2022
./bin/python/isc/utils.py.in PYTHON 2016,2018,2019,2020,2021,2022
./bin/python/setup.py PYTHON 2016,2018,2019,2020,2021,2022
./bin/rndc/Makefile.in MAKE 2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/rndc/include/rndc/os.h C 2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./bin/rndc/rndc.8 MAN DOCBOOK
./bin/rndc/rndc.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202

0,2021,2022
./bin/rndc/rndc.conf CONF-C 2000,2001,2004,2007,2013,2014,2016,2018,2019,2020,2021,2022
./bin/rndc/rndc.conf.5 MAN DOCBOOK
./bin/rndc/rndc.conf.docbook SGML 2000,2001,2004,2005,2007,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/rndc/rndc.conf.html HTML DOCBOOK
./bin/rndc/rndc.docbook SGML 2000,2001,2004,2005,2007,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/rndc/rndc.html HTML DOCBOOK
./bin/rndc/util.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/rndc/util.h C 2000,2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.dsp.in X 2001,2004,2005,2006,2009,2013,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.dsw X 2001,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.mak.in X 2001,2002,2004,2005,2006,2009,2013,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/rndc/win32/rndc.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/rndc/win32/rndcutil.dsp.in X 2006,2013,2018,2019,2020,2021,2022
./bin/rndc/win32/rndcutil.dsw X 2006,2018,2019,2020,2021,2022
./bin/rndc/win32/rndcutil.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/rndc/win32/rndcutil.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/rndc/win32/rndcutil.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/Makefile.in MAKE
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,201
8,2019,2020,2021,2022
./bin/tests/bigtest/README TXT.BRIEF 2013,2016,2018,2019,2020,2021,2022
./bin/tests/bigtest/buildzones.sh SH 2013,2016,2018,2019,2020,2021,2022
./bin/tests/bigtest/rndc.key X 2013,2018,2019,2020,2021,2022
./bin/tests/bigtest/tests.sh SH 2013,2016,2018,2019,2020,2021,2022
./bin/tests/bigtest/zones X 2013,2018,2019,2020,2021,2022
./bin/tests/cfg_test.c C 2018,2019,2020,2021,2022
./bin/tests/fromhex.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/headerdep_test.sh.in SH 2018,2019,2020,2021,2022
./bin/tests/makejournal.c C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/named.conf CONF-C 1999,2000,2001,2004,2007,2011,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/Kchild.example.+003+04017.key X 2018,2019,2020,2021,2022
./bin/tests/optional/Kchild.example.+003+04017.private X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/optional/Makefile.in MAKE 2018,2019,2020,2021,2022
./bin/tests/optional/adb_test.c C
1999,2000,2001,2004,2005,2007,2009,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/backtrace_test.c C 2009,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/byaddr_test.c C 2000,2001,2002,2004,2005,2007,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/byname_test.c C
2000,2001,2004,2005,2007,2009,2012,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/db_test.c C
1999,2000,2001,2004,2005,2007,2008,2009,2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/dst_test.c C 2018,2019,2020,2021,2022
./bin/tests/optional/entropy2_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/entropy_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/fsaccess_test.c C 2000,2001,2004,2005,2007,2012,2015,2016,2018,2019,2020,2021,2022

./bin/tests/optional/gsstest.c C 2018,2019,2020,2021,2022
./bin/tests/optional/gxba_test.c C 2018,2019,2020,2021,2022
./bin/tests/optional/gxbn_test.c C 2018,2019,2020,2021,2022
./bin/tests/optional/hash_test.c C 2000,2001,2004,2005,2006,2007,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/inter_test.c C 2000,2001,2003,2004,2005,2007,2008,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/keyboard_test.c C 2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/lex_test.c C 1998,1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/lfsr_test.c C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/log_test.c C 1999,2000,2001,2004,2007,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/lwres_test.c C 2018,2019,2020,2021,2022
./bin/tests/optional/lwresconf_test.c C 2018,2019,2020,2021,2022
./bin/tests/optional/master_test.c C 1999,2000,2001,2004,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/mempool_test.c C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/optional/name_test.c C
1998,1999,2000,2001,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/nsecify.c C
1999,2000,2001,2003,2004,2007,2008,2009,2011,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/ratelimiter_test.c C 1999,2000,2001,2004,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/rbt_test.c C
1999,2000,2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/rbt_test.out X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/optional/rbt_test.txt SH 1999,2000,2001,2004,2007,2012,2016,2018,2019
./bin/tests/optional/rwlock_test.c C
1998,1999,2000,2001,2004,2005,2007,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/serial_test.c C 1999,2000,2001,2003,2004,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/shutdown_test.c C
1998,1999,2000,2001,2004,2007,2011,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/sig0_test.c C 2000,2001,2004,2005,2007,2008,2009,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/sock_test.c C
1998,1999,2000,2001,2004,2007,2008,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/optional/sym_test.c C 1998,1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/task_test.c C 1998,1999,2000,2001,2004,2007,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/timer_test.c C 1998,1999,2000,2001,2004,2007,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/optional/zone_test.c C
1999,2000,2001,2002,2004,2005,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/README X 2014,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/Makefile.in MAKE 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/create.c C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/find.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/genrsa.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/login.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/privrsa.c C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/pubrsa.c C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/random.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/session.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/sha1.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/benchmarks/sign.c C 2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/pkcs11/benchmarks/verify.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/pkcs11-hmacmd5.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/pkcs11/pkcs11-md5sum.c C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/prepare-softhsm2.sh X 2018,2019,2020,2021,2022
./bin/tests/startperf/README X 2011,2018,2019,2020,2021,2022
./bin/tests/startperf/clean.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/startperf/makenames.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/startperf/mkzonefile.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/startperf/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/startperf/smallzone.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/Makefile.in MAKE
2000,2001,2004,2007,2008,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/README TXT.BRIEF 2000,2001,2004,2010,2011,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/acl/clean.sh SH 2008,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns2/named7.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns3/example.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/acl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/ns4/example.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/acl/ns4/existing.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/acl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/acl/setup.sh SH 2008,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/acl/tests.sh SH 2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/additional/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/mx.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/naptr.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/naptr2.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/nid.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/root.db ZONE 2019,2020,2021,2022
./bin/tests/system/additional/ns1/rt.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/rt2.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns1/srv.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/additional/ns3/root.hint ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/additional/setup.sh SH 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/additional/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/addzone/clean.sh SH 2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns1/inlineslave.db ZONE 2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/addzone/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/added.db ZONE 2010,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/default.nzf.in X 2010,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/hints.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/inline.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/normal.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/previous.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns2/redirect.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns3/e.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/addzone/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/addzone/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/addzone/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/allow-query/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns1/root.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/generic.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named01.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named02.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named03.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named04.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named05.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named06.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named07.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named08.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named09.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named10.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named11.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named12.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named21.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named22.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named23.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named24.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named25.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named26.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named27.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named28.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named29.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named30.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named31.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named32.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named33.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named34.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named40.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named53.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named54.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/allow-query/ns2/named55.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named56.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns2/named57.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns3/named.args X 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/allow-query/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ans.pl PERL 2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/auth/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/auth/ns1/chaos.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/auth/ns1/example.com.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/auth/ns1/example.net.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/auth/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/auth/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/auth/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/auth/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/autosign/clean.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns1/keygen.sh SH 2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns1/root.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/Xbar.+005+30676.key X 2010,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/Xbar.+005+30676.private X 2010,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/Xbar.+005+30804.key X 2010,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/Xbar.+005+30804.private X 2010,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/bar.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/child.nsec3.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/child.optout.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/dst.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/example.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/insecure.secure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/keygen.sh SH 2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns2/private.secure.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/autonsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/delay.example.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/delzsk.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inacksk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inacksk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk2.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/inaczsk3.example.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/insecure.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/jitter.nsec3.example.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/autosign/ns3/keygen.sh SH
2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nozsk.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/autosign/ns3/nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3-to-nsec.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/nsec3.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/oldsigs.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/optout.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/optout.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure-to-insecure.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure-to-insecure2.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure.nsec3.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/secure.optout.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/sync.example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/ttl1.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/ttl2.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/ttl3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns3/ttl4.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/autosign/prereq.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/setup.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/autosign/tests.sh SH 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/builtin/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/builtin/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/builtin/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/builtin/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/builtin/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/builtin/tests.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/dig.batch X 2001,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/knowngood.dig.out X 2001,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/ns1/example.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/ns1/expire-test.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/ns1/flushtest.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/cacheclean/tests.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/case/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/case/dynamic.good X 2015,2018,2019,2020,2021,2022
./bin/tests/system/case/ns1/dynamic.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/case/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/case/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/case/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/case/postns1.good X 2015,2018,2019,2020,2021,2022
./bin/tests/system/case/postupdate.good X 2015,2018,2019,2020,2021,2022
./bin/tests/system/case/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/case/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns1/catalog.example.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns1/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns2/named.conf.in CONF-C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns3/dom5.example.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns3/dom6.example.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/ns3/named.conf.in CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/catz/tests.sh SH 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/README TXT.BRIEF 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ans3/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ans4/README.anspy TXT.BRIEF 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ans4/ans.py PYTHON 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/clean.sh SH 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/chain/ns1/root.db ZONE 2011,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns2/example.db ZONE 2011,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns2/generic.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/chain/ns2/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns2/sub.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/chain/ns5/sub.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/chain/ns7/root.hint ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/prereq.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/setup.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/chain/tests.sh SH 2011,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/altdb.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/altdlz.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-also-notify.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-catz-zone.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-dnssec.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-hint.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-in-view-dup.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-inline-slave.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-ipv4-prefix-dotted1.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/bad-ipv4-prefix2.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/bad-keep-response-order.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lifetime.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lmdb-mapsize-bogus.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lmdb-mapsize-toolarge.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lmdb-mapsize-toosmall.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-lmdb-mapsize-unlimited.conf CONF-C 2017,2018,2019,2020,2021,2022

./bin/tests/system/checkconf/bad-many.conf CONF-C 2005,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-master-request-ixfr.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-maxttlmap.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-noddns.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-options-also-notify.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-acl.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-all-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-errors-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-ipv4-prefix-length.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-ipv6-prefix-length.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-max-table-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-nodata-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-nxdomains-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-qps-scale.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-referrals-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-responses-per-second.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-slip.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rate-limit-window.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-rpz-zone.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedwritable1.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedwritable2.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone1.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone2.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-sharedzone3.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-stub-masters-dialup.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-tsig.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy1.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy10.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy11.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy12.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy13.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy14.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy15.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy2.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy3.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy4.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy5.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy6.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy7.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy8.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-update-policy9.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/bad-view-also-notify.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-dlv-ksk-key.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-dup-records-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-dup-records.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-missing-zone.conf CONF-C 2020,2021,2022
./bin/tests/system/checkconf/check-mx-cname-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-mx-cname.db ZONE 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/checkconf/check-mx-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-mx.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-names-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-names.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-root-ksk-2010.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-root-ksk-2017.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-root-ksk-both.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-srv-cname-fail.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/check-srv-cname.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/clean.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/dlz-bad.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/dnssec.1 CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/dnssec.2 CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/dnssec.3 CONF-C 2011,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-acl.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-class.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-dlv-dlv.example.com.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-dup-managed-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/good-dup-trusted-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/good-lmdb-mapsize-largest.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-lmdb-mapsize-smallest.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-nested.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-options-also-notify.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-response-dot.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy1.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy10.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy11.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy12.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy2.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy3.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy4.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy5.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy6.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy7.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy8.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-update-policy9.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good-view-also-notify.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/good.conf CONF-C
2005,2007,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/hint-nofile.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/in-view-good.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/inline-bad.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/inline-good.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/inline-no.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/max-cache-size-good.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/max-ttl.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/maxttl-bad.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/maxttl-bad.db ZONE 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/checkconf/maxttl.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/notify.conf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/portrange-good.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/range.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/shared.example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/tests.sh SH
2005,2007,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/view-class-any1.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/view-class-any2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/view-class-in1.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/view-class-in2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-address-prefix-length-mismatch.conf CONF-C 2020,2021,2022
./bin/tests/system/checkconf/warn-dlv-auto.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-dlv-dlv.isc.org.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-duplicate-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/warn-duplicate-root-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkconf/warn-keydir.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkconf/warn-validation-auto-key.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/checkds/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.bat BAT 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.pl PERL 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/dig.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/missing.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/none.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/ok.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/tests.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.dlv.example.dlv.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.dnskey.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checkds/wrong.example.ds.db X 2012,2018,2019,2020,2021,2022
./bin/tests/system/checknames/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/fail.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/fail.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/ignore.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/ignore.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/root.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/warn.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns1/warn.update.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns2/root.hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns3/root.hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/checknames/ns4/master-ignore.update.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/checknames/ns4/root.hints ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/setup.sh SH 2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checknames/tests.sh SH 2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/clean.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-badclass.raw X 2015,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-caa-rr.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-cdnskey.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-cds.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-dhcid.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-dns-sd-reverse.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-eid.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-generate-tkey.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nimloc.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsap-empty.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsap-odd-nibble.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsec3-padded.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-nsec3owner-padded.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-tkey.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-tsig.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad-unspec.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad1.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad2.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad3.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/bad4.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/badttl.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/crashzone.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/delegating-ns-address-below-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-cdnskey.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-cds.db ZONE 2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-dns-sd-reverse.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-gc-msdcs.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-nsap.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-nsec3-nopadhash.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-occulted-ns-by-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good-occulted-ns-by-ns.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/good1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/inherit.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/nowarn.inherited.owner.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/ns-address-below-dname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/test1.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/test2.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/warn.inherit.origin.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/checkzone/zones/warn.inherited.owner.db ZONE 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/cleanall.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cleanpkcs11.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/controls.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/controls.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/common/rndc.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/rndc.key CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/common/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/conf.sh.in SH
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/conf.sh.win32 SH 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ans9/ans.py PYTHON 2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badaes.conf.in X 2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badhex.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsha1.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsha256.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-badsiphash24.conf X 2019,2020,2021,2022
./bin/tests/system/cookie/bad-cookie-toolong.conf CONF-C 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-aes.conf.in X 2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-sha1.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-sha256.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/cookie/good-cookie-siphash24.conf X 2019,2020,2021,2022
./bin/tests/system/cookie/ns1/example.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns1/root.hint ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns2/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns4/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns5/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns6/root.hint ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns7/root.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns8/example.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/cookie/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/cookie/prereq.sh SH 2020,2021,2022
./bin/tests/system/cookie/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/cookie/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/coverage/01-ksk-inactive/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/01-ksk-inactive/expect X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/02-zsk-inactive/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/02-zsk-inactive/expect X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/03-ksk-unpublished/README X 2013,2018,2019,2020,2021,2022

./bin/tests/system/coverage/03-ksk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/04-zsk-unpublished/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/04-zsk-unpublished/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/05-ksk-unpub-active/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/05-ksk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/06-zsk-unpub-active/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/06-zsk-unpub-active/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/07-ksk-ttl/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/07-ksk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/08-zsk-ttl/README X 2013,2018,2019,2020,2021,2022
./bin/tests/system/coverage/08-zsk-ttl/expect X 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/09-check-zsk/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/09-check-zsk/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/10-check-ksk/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/10-check-ksk/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/11-cutoff/README X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/11-cutoff/expect X 2014,2018,2019,2020,2021,2022
./bin/tests/system/coverage/12-ksk-deletion/expect X 2018,2019,2020,2021,2022
./bin/tests/system/coverage/13-dotted-dotless/expect X 2019,2020,2021,2022
./bin/tests/system/coverage/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/coverage/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/clean.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/ns1/named1.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/database/ns1/named2.conf.in CONF-C 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/database/setup.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/database/tests.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns1/inlineslave.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns1/named.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/added.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/named.args X 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/named.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/ns2/normal.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/delzone/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/clean.sh SH 2019,2020,2021,2022
./bin/tests/system/dialup/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns2/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns3/hint.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/ns3/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dialup/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/digcomp.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ans4/startme X 2017,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ans7/ans.pl PERL 2020,2021,2022

./bin/tests/system/digdelv/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/digdelv/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/ditch.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/clean.sh SH 2004,2007,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/rootservers.utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/druz.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns2/utld.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/child.db.in ZONE 2004,2007,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns3/sign.sh SH 2004,2007,2009,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/child.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/hints ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns5/rndc.conf CONF-C 2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/child.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns6/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/ns7/hints ZONE 2019,2020,2021,2022
./bin/tests/system/dlv/ns7/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/dlv/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/setup.sh SH 2004,2007,2009,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlv/tests.sh SH 2004,2007,2010,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/NS=10=example.com.= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/broken/dns.d/@/SOA=10=ns.example.com.=root.example.com.=None=None=None=None=None= TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/DNAME=10=example.net.= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/NS=10=example.com.= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/dns.d/@/SOA=10=ns.example.com.=root.example.com.=2010062900=0=0=0=10= TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/dns-root/com/example/xfr.d/10.53.0.1 TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlz/prereq.sh SH 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlz/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dlz/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/Makefile.in MAKE 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/driver.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/driver.h C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/dlzs.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/named.conf.in CONF-C 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dlzexternal/tests.sh SH 2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad18.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad19.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad7.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad8.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/bad9.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn1.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn2.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn3.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn4.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn5.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn6.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn7.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/conf/warn8.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dns64/ns1/example.db ZONE 2010,2011,2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/dns64/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dns64/ns2/rpz.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dns64/tests.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/README TXT.BRIEF 2000,2001,2002,2004,2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ans10/ans.py PYTHON 2020,2021,2022
./bin/tests/system/dnssec/clean.sh SH
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/dnssec_update_test.pl PERL 2002,2004,2007,2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/root.db.in ZONE
2000,2001,2004,2007,2010,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns1/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/algroll.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/badparam.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cdnskey.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds-auto.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds-update.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/cds.secure.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/child.nsec3.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/child.optout.example.db ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/dlv.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/dst.example.db.in ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/example.db.in ZONE
2000,2001,2002,2004,2007,2008,2009,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/in-addr.arpa.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/insecure.secure.example.db ZONE
2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/key.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/private.secure.example.db.in ZONE
2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/rfc2335.example.db X 2004,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/sign.sh SH
2000,2001,2002,2003,2004,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/single-nsec3.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/template.secure.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns2/too-many-iterations.db.in ZONE 2021,2022
./bin/tests/system/dnssec/ns3/auto-nsec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/auto-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/bogus.example.db.in ZONE

2000,2001,2004,2007,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dname-at-apex-nsec3.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-nsec3-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unknown.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unsupported-2.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dnskey-unsupported.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/dynamic.example.db.in ZONE 2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/expired.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/expiring.example.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/future.example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/generic.example.db.in ZONE 2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/inline.example.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.below-cname.example.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.nsec3.example.db ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/insecure.optout.example.db ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/key.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/kskonly.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/lower.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/managed-future.example.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/multiple.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nosign.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/nsec3.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/occluded.example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout-unknown.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.example.db.in ZONE 2006,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/optout.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/publish-inactive.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/rsasha256.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/rsasha512.example.db.in ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.below-cname.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.example.db.in ZONE
2000,2001,2004,2007,2008,2010,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.nsec3.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/secure.optout.example.db.in ZONE 2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval.example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval1.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/siginterval2.conf CONF-C 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/sign.sh SH
2000,2001,2002,2004,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/split-dnssec.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/split-smart.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/ttlpatch.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/dnssec/ns3/unsupported-algorithm.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/update-nsec3.example.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns3/upper.example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns4/named5.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/sign.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns5/trusted.conf.bad CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/named.args X 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/optout-tld.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns6/sign.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/named.nosoa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/nosoa.secure.example.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns7/split-rrsig.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/ns8/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/dnssec/ns9/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/dnssec/ntadiff.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/prereq.sh SH
2000,2001,2002,2004,2006,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/setup.sh SH
2000,2001,2004,2007,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+07065.private X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+005+23362.private X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.key X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+15002.private X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.key X 2021,2022
./bin/tests/system/dnssec/signer/general/Kexample.com.+008+63613.private X 2021,2022
./bin/tests/system/dnssec/signer/general/bogus-ksk.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/bogus-zsk.key X 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test1.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test2.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test3.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test4.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test5.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test6.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test7.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test8.zone ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/general/test9.zone ZONE 2021,2022

./bin/tests/system/dnssec/signer/remove.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/signer/remove2.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnssec/tests.sh SH
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/README TXT.BRIEF 2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-buffer-hint-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-flush-timeout-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-input-queue-size-po2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-output-queue-size-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-max.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-fstrm-set-reopen-interval-min.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/bad-missing-dnstap-output-view.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/bad-missing-dnstap-output.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-dnstap-in-options.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/good-dnstap-in-view.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-buffer-hint.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-flush-timeout.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-input-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-notify-threshold.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-mpsc.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-model-spsc.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-output-queue-size.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/good-fstrm-set-reopen-interval.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/large-answer.fstrm X 2019,2020,2021,2022
./bin/tests/system/dnstap/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dnstap/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dnstap/ydump.py PYTHON 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dscp/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns2/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns3/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/dscp/ns3/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns4/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns5/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/hint.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns7/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/dscp/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dscp/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dscp/tests.sh SH 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/bad.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/good.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/dsdigest/tests.sh SH 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/check_journal.pl PERL 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/named.args X 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/reset_keys.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/ns1/signing.test.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dupsigs/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/AUTHORS X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/COPYING X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/README X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/db.c X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/db.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/driver.c X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/instance.c X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/instance.h X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/lock.c X 2015,2018,2019,2020,2021,2022

./bin/tests/system/dyndb/driver/lock.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/log.c X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/log.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/syncptr.c X 2015,2017,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/syncptr.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/util.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/zone.c X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/driver/zone.h X 2015,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/dyndb/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/dyndb/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/ns2/named.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ecdsa/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/clean.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/named.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/root.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns1/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.key X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+03613.private X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.key X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+015+35217.private X 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.key X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+09713.private X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.key X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/Xexample.com.+016+38353.private X 2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/example.com.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/named.conf CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/ns2/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/prereq.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/setup.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/eddsa/tests.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ednscompliance/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/empty.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/ns1/rfc1918.zones CONF-C 2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/emptyzones/ns1/root.hint ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/emptyzones/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/feature-test.c C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ans4/ans.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named.args X 2015,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/ns3/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/fetchlimit/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/bad6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good1.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good2.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good3.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good4.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good5.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good6.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good7.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/conf/good8.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/signed.db.in ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/signed.db.presigned X 2014,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns1/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/hints ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/named2.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/filter-aaaa/ns4/root.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/signed.db.in ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/signed.db.presigned X 2014,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns4/unsigned.db ZONE 2010,2012,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns5/hints ZONE 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/filter-aaaa/tests.sh SH 2010,2012,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/formerr/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/formerr.pl PERL 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/nametoolong X 2013,2018,2019,2020,2021,2022
./bin/tests/system/formerr/noquestions X 2013,2018,2019,2020,2021,2022
./bin/tests/system/formerr/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/formerr/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/formerr/tests.sh SH 2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/formerr/twoquestions X 2013,2018,2019,2020,2021,2022
./bin/tests/system/forward/ans6/startme X 2019,2020,2021,2022
./bin/tests/system/forward/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/example.db X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/example.db X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns2/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns3/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns4/malicious.db ZONE 2020,2021,2022
./bin/tests/system/forward/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns4/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/forward/ns5/rebind.db ZONE 2020,2021,2022
./bin/tests/system/forward/ns5/root.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ns7/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/forward/ns7/root.db ZONE 2019,2020,2021,2022
./bin/tests/system/forward/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/forward/rfc1918-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/rfc1918-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/forward/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ula-inherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/forward/ula-notinherited.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/genzone.sh SH
2001,2002,2003,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/geoip/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIP.csv X 2013,2014,2018,2019,2020,2021,2022

./bin/tests/system/geoip/data/GeoIP.dat X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNum.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNum.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNumv6.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPASNumv6.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPCity.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPCity.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPCityv6.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPCityv6.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPDomain.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPDomain.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPISP.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPISP.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPNetSpeed.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPNetSpeed.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPOrg.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPOrg.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPRegion.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPRegion.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPv6.csv X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/GeoIPv6.dat X 2013,2018,2019,2020,2021,2022
./bin/tests/system/geoip/data/README TXT.BRIEF 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named10.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named11.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named12.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named13.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named14.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named15.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named16.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named5.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named6.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named7.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named8.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/ns2/named9.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/geoip/options.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/prereq.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip/tests.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/geoip2/clean.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-areacode.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-dbname.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-netspeed.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/bad-regiondb.conf CONF-C 2019,2020,2021,2022

./bin/tests/system/geoip2/conf/bad-threeletter.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/conf/good-options.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-City.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-City.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Country.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Country.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Domain.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-Domain.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-ISP.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoIP2-ISP.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoLite2-ASN.json X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/GeoLite2-ASN.mmdb X 2019,2020,2021,2022
./bin/tests/system/geoip2/data/README.md MKD 2019,2020,2021,2022
./bin/tests/system/geoip2/data/write-test-data.pl PERL 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/example.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named1.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named10.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named11.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named12.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named13.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named14.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named2.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named3.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named4.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named5.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named6.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named7.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named8.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/ns2/named9.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/geoip2/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/setup.sh SH 2019,2020,2021,2022
./bin/tests/system/geoip2/tests.sh SH 2019,2020,2021,2022
./bin/tests/system/glue/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/fi.good X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/glue/noglue.good X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/cache.in ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/mil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/net.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/root-servers.nil.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/setup.sh SH 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/tests.sh SH 2000,2001,2003,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/glue/xx.good X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/glue/yy.good X 2000,2001,2003,2018,2019,2020,2021,2022
./bin/tests/system/gost/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns1/root.db.in ZONE 2010,2016,2018,2019,2020,2021,2022

./bin/tests/system/gost/ns1/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/ns2/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/gost/tests.sh SH 2010,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/idna/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/idna/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/idna/ns1/root.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/idna/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/idna/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/ifconfig.bat BAT 2016,2018,2019,2020,2021,2022
./bin/tests/system/ifconfig.sh SH
2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/checkdsa.sh.in SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/root.db.in ZONE 2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns2/bits.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns2/nsec3-loop.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master2.db.in ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master3.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master4.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master5.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/master6.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/inline/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns3/sign.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns4/noixfr.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns5/named.conf.post CONF-C 2011,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns5/named.conf.pre CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/inline/ns7/sign.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/ns8/example.com.db.in ZONE 2020,2021,2022
./bin/tests/system/inline/ns8/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/inline/ns8/sign.sh SH 2020,2021,2022
./bin/tests/system/inline/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/inline/setup.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/inline/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/clean.sh SH 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/mx-cname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/integrity/ns1/srv-cname.db ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/integrity/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/integrity/tests.sh SH 2017,2018,2019,2020,2021,2022

./bin/tests/system/ixfr/ans2/startme X 2011,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/clean.sh SH 2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns1/startme X 2012,2013,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/mytest2.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest0.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns3/subtest1.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/ixfr/ns5/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/ixfr/prereq.sh SH 2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/setup.sh SH 2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/ixfr/tests.sh SH 2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/01-ksk-inactive/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/01-ksk-inactive/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/02-zsk-inactive/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/02-zsk-inactive/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/03-ksk-unpublished/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/03-ksk-unpublished/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/04-zsk-unpublished/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/04-zsk-unpublished/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/05-ksk-unpub-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/05-ksk-unpub-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/06-zsk-unpub-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/06-zsk-unpub-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/07-ksk-ttl/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/07-ksk-ttl/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/08-zsk-ttl/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/08-zsk-ttl/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/09-no-keys/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/09-no-keys/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/10-change-roll/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/10-change-roll/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/11-many-simul/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/11-many-simul/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/12-many-active/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/12-many-active/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/13-noroll/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/13-noroll/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/14-wrongalg/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/14-wrongalg/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/15-unspec/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/15-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/16-wrongalg-unspec/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/17-noforce/expect X 2016,2018,2019,2020,2021,2022

./bin/tests/system/keymgr/18-nonstd-prepub/README TXT.BRIEF 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/18-nonstd-prepub/expect X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/18-nonstd-prepub/policy.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/README TXT.BRIEF 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/expect X 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/extra.sh SH 2019,2020,2021,2022
./bin/tests/system/keymgr/19-old-keys/policy.conf CONF-C 2019,2020,2021,2022
./bin/tests/system/keymgr/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.good X 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/policy.sample CONF-C 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/prereq.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/testpolicy.py PYTHON 2016,2018,2019,2020,2021,2022
./bin/tests/system/keymgr/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/build.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns1/trusted.conf X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/ednsrefused.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns10/named.ednsrefused X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/dropedns.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns2/named.dropedns X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/dropedns-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.dropedns X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns3/named.notcp X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns4/plain.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/named.notcp X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns5/plain-notcp.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/edns512.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/edns512.db.signed X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns6/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/edns512-notcp.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/edns512-notcp.db.signed X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.args X 2014,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns7/named.notcp X 2014,2018,2019,2020,2021,2022

./bin/tests/system/legacy/ns7/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/ednsformerr.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns8/named.ednsformerr X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/ednsnotimp.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/legacy/ns9/named.ednsnotimp X 2018,2019,2020,2021,2022
./bin/tests/system/legacy/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/legacy/tests.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.1000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.2000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.3000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.4000 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/knowngood.dig.out.a-maximum-rrset X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/limits/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/limits/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/limits/tests.sh SH 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/clean.sh SH 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/controls.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.dirconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.pipeconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.plain CONF-C 2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.plainconf CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.symconf CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.unlimited CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/named.versconf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/rndc.conf.in CONF-C 2011,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/setup.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/logfileconfig/tests.sh SH 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/Makefile.in MAKE
2000,2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/clean.sh SH 2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwresd1/lwresd.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwresd1/nosearch.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwresd1/resolv.conf CONF-SH
2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/lwtest.c C
2000,2001,2002,2004,2007,2008,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/10.10.10.in-addr.arpa.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/e.example1.db X 2008,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/example1.db ZONE
2000,2001,2002,2003,2004,2007,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/example2.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/ip6.arpa.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/lwresd/ns1/ip6.int.db ZONE 2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/named.conf CONF-C
2000,2001,2004,2006,2007,2008,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/resolv.conf CONF-SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/lwresd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/clean.sh SH 2001,2004,2007,2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/knowngood.dig.out X 2001,2004,2012,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/include.db ZONE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/sub.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/ttl1.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns1/ttl2.db ZONE 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns2/example.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterfile/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/masterfile/tests.sh SH 2001,2004,2007,2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/inheritownerafterinclude.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/inheritownerafterinclude.good X 2015,2018,2019,2020,2021,2022
./bin/tests/system/masterfile/zone/nameservers.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/clean.sh SH 2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/compile.sh SH
2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/example.db ZONE 2005,2007,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/large.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns1/signed.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns2/formerly-text.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterformat/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/masterformat/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/setup.sh SH 2005,2006,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/masterformat/tests.sh SH 2005,2007,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/metadata/child.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/clean.sh SH 2009,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/metadata/parent.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/setup.sh SH 2009,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/metadata/tests.sh SH 2009,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/README TXT.BRIEF 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/clean.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/root.db ZONE 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/sign.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns1/unsupported.key X 2019,2020,2021,2022
./bin/tests/system/mkeys/ns2/named.args X 2015,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/mkeys/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns3/named.args X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns5/named1.args X 2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns5/named2.args X 2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/named.args X 2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/setup.sh SH 2019,2020,2021,2022
./bin/tests/system/mkeys/ns6/unsupported-managed.key X 2019,2020,2021,2022
./bin/tests/system/mkeys/ns7/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/mkeys/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/mkeys/tests.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/names/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/ns1/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/names/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/names/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example1.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example2.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example3.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/example4.db ZONE 2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/generic.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns4/named.port.in X 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/notify/ns5/x21.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/notify/tests.sh SH
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/ns1/example.net.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nslookup/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nslookup/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ans4/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/clean.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/commandlist X 2012,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.after X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.afterstop X 2001,2004,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/knowngood.ns1.before X 2000,2001,2003,2004,2009,2018,2019,2020,2021,2022

./bin/tests/system/nsupdate/krb/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/example1.db ZONE
2000,2001,2002,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/many.test.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/max-ttl.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns1/sample.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns10/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns2/sample.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/delegation.test.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/dnskey.test.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/nsec3param.test.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/sign.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns3/too-big.test.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/local.db.in ZONE 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/named.args X 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns5/named.conf.in CONF-C 2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/named.args X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/dns-other-than-KRB5_KTNAME.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/dns.keytab X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/example.com.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/in-addr.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/machine.ccache X 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/ns9/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/prereq.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/setup.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/nsupdate/update_test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/nsupdate/verylarge.in X 2013,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/clean.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/added.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/prereq.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/nzd2nzf/tests.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/org.isc.bind.system SH 2010,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/org.isc.bind.system.plist X 2010,2018,2019,2020,2021,2022
./bin/tests/system/packet.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/parallel.sh SH 2019,2020,2021,2022
./bin/tests/system/pending/clean.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/root.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns1/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/example.com.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/example.db.in ZONE 2009,2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/forgery.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns2/sign.sh SH 2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/hostile.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/mail.example.db ZONE 2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pending/prereq.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/setup.sh SH 2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pending/tests.sh SH 2009,2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/input X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/inputb X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns1/root.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns2/examplea.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns3/exampleb.db ZONE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns3/named.args X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pipelined/pipequeries.c C 2014,2015,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/ref X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/refb X 2014,2015,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/setup.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/pipelined/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/2037-pk11_numbits-crash-test.pkt X 2020,2021,2022
./bin/tests/system/pkcs11/clean.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/ns1/named.conf CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/pkcs11/setup.sh SH 2010,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/tests.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11/usepkcs11 X 2010,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/ns1/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/ns1/named.conf CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/pkcs11ssl/usepkcs11 X 2014,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/README TXT.BRIEF 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans2/ans.pl PERL 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans4/ans.pl PERL 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ans7/ans.pl PERL 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns1/root.db ZONE 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/hints.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named3.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/ns3/named4.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/reclimit/prereq.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/reclimit/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/redirect/clean.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/bad3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good1.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good2.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good3.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/conf/good4.conf CONF-C 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/example.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/redirect.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/root.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns1/sign.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns2/example.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns2/redirect.db.in ZONE 2011.2013,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/redirect.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns3/sign.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns4/example.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/redirect/ns4/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/setup.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/redirect/tests.sh SH 2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans2/ans.pl PERL 2000,2001,2004,2007,2009,2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans3/ans.pl PERL 2000,2001,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ans8/ans.pl PERL 2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/clean.sh SH 2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns1/root.hint ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/broken.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/named.noaa TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/root.db ZONE 2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/sourcens.db ZONE 2020,2021,2022
./bin/tests/system/resolver/ns4/tld1.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns4/tld2.db ZONE 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns5/child.server.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns5/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns5/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/broken.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/delegation-only.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/ds.example.net.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/example.net.db.in ZONE 2010,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/keygen.sh SH 2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/moves.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/no-edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/root.db ZONE 2010,2011,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns6/targetns.db ZONE 2020,2021,2022
./bin/tests/system/resolver/ns6/to-be-removed.tld.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/all-cnames.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/edns-version.tld.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/named.args X 2011,2012,2014,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/ns7/server.db.in ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/prereq.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/setup.sh SH 2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/resolver/tests.sh SH
2000,2001,2004,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rndc/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/clean.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rndc/gencheck.c C 2014,2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/rndc/ns2/incl.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns2/secondkey.conf CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns4/named.conf.in CONF-C 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns6/named.args X 2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/ns6/named.conf.in CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/setup.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rndc/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/clean.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/root.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns1/sign.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns2/example.db.in ZONE 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns2/sign.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns3/hint.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns4/hint.db ZONE 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rootkeysentinel/tests.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rpz/README TXT.BRIEF 2019,2020,2021,2022
./bin/tests/system/rpz/clean.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns1/root.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/base-tld2s.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/bl.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/blv2.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/blv3.tld2.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/hints ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns2/tld2.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/base.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/broken.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns3/crash1 X 2011,2013,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/crash2 X 2011,2012,2013,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/hints ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns3/manual-update-rpz-2.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns3/manual-update-rpz.db.in ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns4/hints ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns4/tld4.db ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/empty.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/hints ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022

./bin/tests/system/rpz/ns5/named.args X 2013,2014,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns5/tld5.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns6/hints ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns7/hints ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpz/ns9/hints ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/ns9/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/rpz/ns9/rpz.db ZONE 2019,2020,2021,2022
./bin/tests/system/rpz/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/qperf.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/setup.sh SH 2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test1 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test2 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test3 ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test4 ZONE 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test4a ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test5 ZONE 2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/test6 ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpz/tests.sh SH 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/README TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/db.l0 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/db.l1.l0 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/example.com.db ZONE 2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/root.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/test1.example.net.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns1/test2.example.net.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip1 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip2 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.clientip21 ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.given ZONE 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log1 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log2 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.log3 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.passthru ZONE 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard1 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard2a ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard2b ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/db.wildcard3 ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.clientip.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.clientip2.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.conf.header.in CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.default.conf CONF-C 2015,2016,2018,2019,2020,2021,2022

./bin/tests/system/rpzrecurse/ns2/named.log.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard1.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard2.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard3.conf CONF-C 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/named.wildcard4.conf CONF-C 2020,2021,2022
./bin/tests/system/rpzrecurse/ns2/root.hint ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns3/example.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns3/named1.conf.in CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns3/named2.conf.in CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns3/policy.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns3/root.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns4/child.example.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/ns4/named.conf.in CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/setup.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/testgen.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rpzrecurse/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/classlist.good X 2013,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/clean.sh SH 2013,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/privatelist.good X 2013,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/tests.sh SH 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrchecker/typelist.good X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/rrl/broken.conf CONF-C 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns1/root.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns2/tld2.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/hints ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns3/tld3.db ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/hints ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrl/ns4/tld4.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/setup.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrl/tests.sh SH 2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/clean.sh SH 2006,2007,2008,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.fixed.good X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good1 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good10 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good11 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good12 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good13 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good14 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good15 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good16 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good17 X 2006,2018,2019,2020,2021,2022

./bin/tests/system/rrsetorder/dig.out.random.good18 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good19 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good2 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good20 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good21 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good22 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good23 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good24 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good3 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good4 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good5 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good6 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good7 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good8 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/dig.out.random.good9 X 2006,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns1/root.db ZONE 2006,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/rrsetorder/tests.sh SH 2006,2007,2008,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/Makefile.in MAKE 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/README.md TXT.BRIEF 2021,2022
./bin/tests/system/rsabigexponent/bigkey.c C 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/bad03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good01.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good02.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/conf/good03.conf CONF-C 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/root.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns1/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+05896.private X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.key X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/Xexample.+005+51829.private X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/dsset-example.in X 2012,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.bad ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/example.db.in ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns2/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/rsabigexponent/tests.sh SH 2012,2016,2018,2019,2020,2021,2022

./bin/tests/system/run.gdb X 2019,2020,2021,2022
./bin/tests/system/run.sh SH 2000,2001,2004,2007,2010,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runall.sh SH 2000,2001,2004,2007,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/runsequential.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/runtime/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/runtime/clean.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt2.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt3.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt4.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt5.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt6.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named-alt9.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/runtime/ns2/named1.conf.in CONF-C 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/setup.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/runtime/tests.sh SH 2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/send.pl PERL 2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/README TXT.BRIEF 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/clean.sh SH 2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/root.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns1/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/example.db.in ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns2/sign.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sfcache/ns5/trusted.conf.bad CONF-C 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/setup.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/sfcache/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/child.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/clean.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/parent.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/prereq.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/smartsign/tests.sh SH 2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/clean.sh SH 2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/sortlist/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/sortlist/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/sortlist/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/clean.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/spf/ns1/spf.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/spf/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/spf/tests.sh SH 2013,2014,2016,2018,2019,2020,2021,2022

./bin/tests/system/start.pl SH
2001,2004,2005,2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/start.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/clean.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad06.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad07.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad08.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad09.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad10.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/bad11.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good01.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good02.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good03.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good04.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/conf/good05.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/knowngood.dig.out.rec X 2010,2013,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns2/named.conf.in CONF-C 2010,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/named.conf.in CONF-C 2010,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/sign.sh SH 2010,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns3/undelegated.db.in ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.com.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.info.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/example.org.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/sign.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/ns4/sub.example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/setup.sh SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/staticstub/tests.sh SH 2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ans4/ans.pl PERL 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/clean.sh SH 2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/root.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns1/zone.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/example.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns3/internal.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022

./bin/tests/system/statistics/ns3/root.hint ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/statistics/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/statistics/tests.sh SH 2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/clean.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/fetch.pl PERL 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/ns2/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/statschannel/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/server-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/server-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/statschannel/tests.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic-json.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic-xml.pl PERL 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.1 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.2 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.4 X 2015,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.5 X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/statschannel/traffic.expect.6 X 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stop.pl SH 2001,2004,2005,2006,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stop.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stopall.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/stress/clean.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns1/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns2/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns3/named.conf CONF-C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/ns4/named.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/prereq.sh SH 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/setup.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/tests.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stress/update.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/knowngood.dig.out.norec X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/stub/knowngood.dig.out.rec X 2000,2001,2013,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/stub/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns2/child.example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/stub/ns3/example.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/stub/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/stub/ns4/example.db ZONE 2020,2021,2022
./bin/tests/system/stub/ns4/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/stub/ns5/named.conf.in CONF-C 2020,2021,2022
./bin/tests/system/stub/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/stub/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ans6/ans.py PYTHON 2019,2020,2021,2022

./bin/tests/system/tcp/clean.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns1/root.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns2/example.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tcp/ns5/named.conf.in CONF-C 2019,2020,2021,2022
./bin/tests/system/tcp/prereq.sh SH 2019,2020,2021,2022
./bin/tests/system/tcp/setup.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/tcp/tests.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/testcrypto.sh SH 2014,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/testsock.pl PERL 2000,2001,2004,2007,2010,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/testsock6.pl PERL 2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/testsummary.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/tkey/Makefile.in MAKE
2001,2002,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/clean.sh SH 2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/keycreate.c C
2001,2004,2005,2007,2009,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/keydelete.c C
2001,2004,2005,2007,2009,2010,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/example.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/named.conf.in CONF-C
2001,2004,2007,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/ns1/setup.sh SH 2001,2004,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/prereq.sh SH 2001,2004,2006,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/setup.sh SH 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tkey/tests.sh SH 2001,2004,2007,2009,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ans2/ans.pl PERL 2020,2021,2022
./bin/tests/system/tsig/badlocation X 2020,2021,2022
./bin/tests/system/tsig/badtime X 2020,2021,2022
./bin/tests/system/tsig/clean.sh SH 2005,2006,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ns1/example.db ZONE 2005,2006,2007,2009,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tsig/prereq.sh SH 2020,2021,2022
./bin/tests/system/tsig/setup.sh SH 2016,2018,2019,2020,2021,2022
./bin/tests/system/tsig/tests.sh SH 2005,2006,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/authsock.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/clean.sh SH 2010,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/administrator.ccache X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/dns.keytab X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/example.nil.db.in X 2011,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/ns1/testdenied.ccache X 2010,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/prereq.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/setup.sh SH 2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/tsiggss/tests.sh SH 2010,2011,2014,2016,2017,2018,2019,2020,2021,2022

./bin/tests/system/unknown/clean.sh SH
2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/large.out X 2012,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken3.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken4.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/broken5.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/class10.hints ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/example-class10.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/example-in.db ZONE
2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/large.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/unknown/ns3/sign.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/unknown/zones/nan.bad ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ans4/ans.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/clean.sh SH 2000,2001,2004,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.after1 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.after2 X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.before X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/knowngood.ns2.before X 2000,2001,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns1/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/upforwd/ns3/nomaster.db ZONE 2011,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/prereq.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/setup.sh SH 2000,2001,2004,2007,2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/upforwd/tests.sh SH 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/clean.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/tests.sh SH 2012,2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/verify/zones/genzones.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/verify/zones/unsigned.db ZONE 2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/clean.sh SH
2000,2001,2004,2005,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/1.10.in-addr.arpa.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/example1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022

./bin/tests/system/views/ns2/example2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/external/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/internal/inline.db ZONE 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns2/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/internal.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/named1.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns3/named2.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/ns5/child.clone.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/views/setup.sh SH 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/views/tests.sh SH 2000,2001,2004,2007,2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/clean.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/dlv.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/named.conf.in CONF-C 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/nsec.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/nsec3.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/private.nsec.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/private.nsec3.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/root.db.in ZONE 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns1/sign.sh SH 2012,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/wildcard/ns5/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/wildcard/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/setup.sh SH 2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/wildcard/tests.sh SH 2012,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/bigkey.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/feature-test.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/gencheck.vcxproj.user X 2016,2018,2019,2020,2021,2022

./bin/tests/system/win32/keycreate.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/keycreate.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/keydelete.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/lwtest.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/win32/pipequeries.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badkeydata X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/badmessageid X 2020,2021,2022
./bin/tests/system/xfer/ans5/goodaxfr X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/partial X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/unknownkey X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/unsigned X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ans5/wrongkey X 2011,2018,2019,2020,2021,2022
./bin/tests/system/xfer/clean.sh SH
2000,2001,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig1.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/xfer/dig2.good X
2000,2001,2003,2004,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/xfer/knowngood.mapped X 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/axfr-too-big.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/ixfr-too-big.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/mapped.db.in ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns2/slave.db.in ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns4/named.conf.base CONF-C 2011,2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns4/root.db.in ZONE 2011,2016,2018,2019,2020,2021,2022

./bin/tests/system/xfer/ns6/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns7/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns8/example.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/ns8/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xfer/prereq.sh SH 2011,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/setup.sh SH
2001,2002,2004,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xfer/tests.sh SH
2000,2001,2004,2005,2007,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/clean.sh SH 2000,2001,2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/changing1.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/changing2.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns1/root.db ZONE 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns2/example.db ZONE
2000,2001,2002,2003,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/xferquota/setup.pl PERL 2000,2001,2004,2007,2011,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/setup.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/xferquota/tests.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ans5/ans.pl PERL 2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/clean.sh SH 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns1/root.db ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns2/tld.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns3/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns3/root.hint ZONE 2013,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/ns4/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zero/ns4/one.tld.db ZONE 2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/prereq.sh SH 2018,2019,2020,2021,2022
./bin/tests/system/zero/setup.sh SH 2013,2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/zero/tests.sh SH 2013,2016,2017,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/a.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/aaaa.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/bigserial.db ZONE 2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/clean.sh SH 2004,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/cname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/dname.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/noaddress.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/ns1/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/ns2/named.conf.in CONF-C 2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/nxdomain.db ZONE 2004,2007,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/prereq.sh SH 2014,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/setup.sh SH 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/system/zonechecks/tests.sh SH 2004,2007,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data2 X 1999,2000,2001,2018,2019,2020,2021,2022

./bin/tests/testdata/wire/wire_test.data3 X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/testdata/wire/wire_test.data4 X 1999,2000,2001,2018,2019,2020,2021,2022
./bin/tests/virtual-time/Makefile.in MAKE 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/README TXT.BRIEF 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/sign.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-ksk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/sign.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/autosign-zsk/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/cleanall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/common/controls.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/common/rndc.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/common/root.hint ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/conf.sh.in SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/run.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/runall.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/clean.sh SH 2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/ns1/example.db.in ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/ns1/named.conf CONF-C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/ns1/root.db ZONE 2010,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/ns1/wrap.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/setup.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/slave/tests.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/start.pl PERL 2010,2012,2015,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/start.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/stop.pl PERL 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/stop.sh SH 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/testsock.pl PERL 2010,2012,2016,2018,2019,2020,2021,2022
./bin/tests/virtual-time/vtwrapper.c C 2010,2016,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/backtrace_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/inter_test.dsp.in X 2013,2018,2019,2020,2021,2022

./bin/tests/win32/inter_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/inter_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/inter_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/inter_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/inter_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.dsp.in X 2016,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.dsw X 2016,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.mak.in X 2016,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.vcxproj.filters.in X 2016,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.vcxproj.in X 2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/makejournal.vcxproj.user X 2016,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/rwlock_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/shutdown_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/sock_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/task_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.dsw X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tests/win32/timer_test.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tests/wire_test.c C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./bin/tools/Makefile.in MAKE 2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/arpaname.1 MAN DOCBOOK
./bin/tools/arpaname.c C 2009,2015,2016,2018,2019,2020,2021,2022
./bin/tools/arpaname.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tools/arpaname.html HTML DOCBOOK
./bin/tools/dnstap-read.1 MAN DOCBOOK

./bin/tools/dnstap-read.c C 2015,2016,2018,2019,2020,2021,2022
./bin/tools/dnstap-read.docbook SGML 2015,2016,2018,2019,2020,2021,2022
./bin/tools/dnstap-read.html HTML DOCBOOK
./bin/tools/genrandom.8 MAN DOCBOOK
./bin/tools/genrandom.c C
2000,2001,2002,2003,2004,2005,2007,2009,2010,2012,2014,2016,2018,2019,2020,2021,2022
./bin/tools/genrandom.docbook SGML 2009,2010,2011,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tools/genrandom.html HTML DOCBOOK
./bin/tools/isc-hmac-fixup.8 MAN DOCBOOK
./bin/tools/isc-hmac-fixup.c C 2010,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tools/isc-hmac-fixup.docbook SGML 2010,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/isc-hmac-fixup.html HTML DOCBOOK
./bin/tools/mdig.1 MAN DOCBOOK
./bin/tools/mdig.c C 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/mdig.docbook SGML 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/mdig.html HTML DOCBOOK
./bin/tools/named-journalprint.8 MAN DOCBOOK
./bin/tools/named-journalprint.c C
2000,2001,2004,2005,2006,2007,2008,2009,2015,2016,2018,2019,2020,2021,2022
./bin/tools/named-journalprint.docbook SGML 2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/named-journalprint.html HTML DOCBOOK
./bin/tools/named-nzd2nzf.8 MAN DOCBOOK
./bin/tools/named-nzd2nzf.c C 2016,2017,2018,2019,2020,2021,2022
./bin/tools/named-nzd2nzf.docbook SGML 2016,2018,2019,2020,2021,2022
./bin/tools/named-nzd2nzf.html HTML DOCBOOK
./bin/tools/named-rrchecker.1 MAN DOCBOOK
./bin/tools/named-rrchecker.c C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/named-rrchecker.docbook SGML 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tools/named-rrchecker.html HTML DOCBOOK
./bin/tools/nsec3hash.8 MAN DOCBOOK
./bin/tools/nsec3hash.c C 2006,2008,2009,2011,2014,2016,2018,2019,2020,2021,2022
./bin/tools/nsec3hash.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./bin/tools/nsec3hash.html HTML DOCBOOK
./bin/tools/win32/arpaname.dsp.in X 2009,2013,2018,2019,2020,2021,2022
./bin/tools/win32/arpaname.dsw X 2009,2018,2019,2020,2021,2022
./bin/tools/win32/arpaname.mak.in X 2009,2013,2018,2019,2020,2021,2022
./bin/tools/win32/arpaname.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/arpaname.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/arpaname.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.dsp.in X 2009,2013,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.dsw X 2009,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.mak.in X 2009,2013,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/genrandom.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/ischmacfixup.dsp.in X 2010,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tools/win32/ischmacfixup.dsw X 2010,2018,2019,2020,2021,2022
./bin/tools/win32/ischmacfixup.mak.in X 2010,2013,2014,2016,2018,2019,2020,2021,2022

./bin/tools/win32/ischmacfixup.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/ischmacfixup.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/ischmacfixup.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.dsp.in X 2009,2013,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.dsw X 2009,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.mak.in X 2009,2010,2013,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/journalprint.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.dsp.in X 2015,2016,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.dsw X 2015,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.mak.in X 2015,2016,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.vcxproj.filters.in X 2015,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.vcxproj.in X 2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/mdig.vcxproj.user X 2015,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.dsp.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.dsw X 2009,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.mak.in X 2009,2013,2014,2016,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/nsec3hash.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.dsp.in X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.dsw X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.mak.in X 2013,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/tools/win32/rrchecker.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/AccountInfo.cpp C.PORTION
2001,2002,2004,2007,2009,2013,2016,2017,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/AccountInfo.h C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.cpp C.PORTION 2001,2004,2007,2009,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.dsp.in X 2001,2007,2009,2013,2014,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.dsw X 2001,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.h C.PORTION 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.mak.in X 2001,2006,2007,2009,2013,2014,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.rc X 2001,2005,2009,2014,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.vcxproj.in X 2013,2014,2015,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstall.vcxproj.user X 2013,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstallDlg.cpp C.PORTION
2001,2003,2004,2005,2006,2007,2008,2009,2010,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/BINDInstallDlg.h C.PORTION
2001,2004,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/DirBrowse.cpp C.PORTION 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/DirBrowse.h C.PORTION 2001,2004,2007,2016,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/StdAfx.cpp X 2001,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/StdAfx.h X 2001,2006,2011,2013,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/VersionInfo.cpp X 2001,2008,2015,2017,2018,2019,2020,2021,2022

./bin/win32/BINDInstall/VersionInfo.h X 2001,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/res/BINDInstall.ico X 2001,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/res/BINDInstall.rc2 X 2001,2018,2019,2020,2021,2022
./bin/win32/BINDInstall/resource.h X 2001,2005,2009,2018,2019,2020,2021,2022
./bind.keys X 2009,2010,2011,2017,2018,2019,2020,2021,2022
./bind.keys.h X 2009,2010,2011,2012,2014,2017,2018,2019,2020,2021,2022
./cocci/unreachable.spatch X 2018,2019,2020,2021,2022
./config.guess X 1998,1999,2000,2001,2004,2009,2013,2018,2019,2020,2021,2022
./config.h.in X
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./config.h.win32 C
1999,2000,2001,2004,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./config.sub X 1998,1999,2000,2001,2004,2013,2018,2019,2020,2021,2022
./config.threads.in X 2005,2006,2010,2011,2012,2013,2018,2019,2020,2021,2022
./configure X
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./configure.ac SH
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./conftools/perllib/dnsconf/DNSConf-macros.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./conftools/perllib/dnsconf/DNSConf.i C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./conftools/perllib/dnsconf/Makefile.PL PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./conftools/perllib/dnsconf/named1.conf CONF-C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./conftools/perllib/dnsconf/test.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./contrib/README X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./contrib/dane/mkdane.sh X 2012,2018,2019,2020,2021,2022
./contrib/dane/tlsa6698.pem X 2012,2018,2019,2020,2021,2022
./contrib/dlz/bin/dlzbdb/Makefile.in X 2005,2007,2009,2011,2012,2015,2016,2018,2019,2020,2021,2022
./contrib/dlz/bin/dlzbdb/dlzbdb.c X 2005,2016,2018,2019,2020,2021,2022
./contrib/dlz/config.dlz.in X 2005,2006,2008,2010,2011,2014,2016,2017,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_bdb_driver.c X 2005,2008,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_bdbhpt_driver.c X 2005,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_dlopen_driver.c X 2010,2011,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_drivers.c X 2005,2010,2011,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_filesystem_driver.c X 2005,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_ldap_driver.c X 2005,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_mysql_driver.c X 2005,2007,2009,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_odbc_driver.c X 2005,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_postgres_driver.c X 2005,2007,2010,2011,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/dlz_stub_driver.c X 2005,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_bdb_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_bdbhpt_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_dlopen_driver.h X 2010,2011,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_drivers.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_filesystem_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_ldap_driver.h X 2005,2018,2019,2020,2021,2022

./contrib/dlz/drivers/include/dlz/dlz_mysql_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_odbc_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_postgres_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/dlz_stub_driver.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/include/dlz/sdlz_helper.h X 2005,2018,2019,2020,2021,2022
./contrib/dlz/drivers/rules.in X 2005,2010,2018,2019,2020,2021,2022
./contrib/dlz/drivers/sdlz_helper.c X 2005,2010,2011,2012,2016,2018,2019,2020,2021,2022
./contrib/dlz/example/Makefile X 2010,2013,2018,2019,2020,2021,2022
./contrib/dlz/example/README X 2011,2012,2013,2014,2018,2019,2020,2021,2022
./contrib/dlz/example/dlz_example.c X 2010,2011,2012,2013,2014,2018,2019,2020,2021,2022
./contrib/dlz/example/named.conf X 2011,2014,2018,2019,2020,2021,2022
./contrib/dlz/example/win32/DLLMain.c X 2011,2016,2018,2019,2020,2021,2022
./contrib/dlz/example/win32/dxdriver.def X 2011,2018,2019,2020,2021,2022
./contrib/dlz/example/win32/dxdriver.dsp X 2018,2019,2020,2021,2022
./contrib/dlz/example/win32/dxdriver.dsw X 2011,2018,2019,2020,2021,2022
./contrib/dlz/example/win32/dxdriver.mak X 2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/Makefile X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/README.md X 2013,2015,2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/dlz_bdbhpt_dynamic.c X 2013,2015,2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/testing/README X 2015,2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/testing/bdbhpt-populate.pl X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/bdbhpt/testing/dns-data.txt X 2013,2015,2018,2019
./contrib/dlz/modules/bdbhpt/testing/named.conf X 2015,2018,2019,2020,2021,2022
./contrib/dlz/modules/common/dlz_dbi.c X 2013,2014,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/filesystem/Makefile X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/filesystem/dir.c X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/filesystem/dir.h X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/filesystem/dlz_filesystem_dynamic.c X 2013,2015,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/include/dlz_dbi.h X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/include/dlz_list.h X 2013,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/include/dlz_minimal.h X 2013,2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/include/dlz_pthread.h X 2013,2014,2015,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/Makefile X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/dlz_ldap_dynamic.c X 2013,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/testing/README X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/testing/dlz.schema X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/testing/example.ldif X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/testing/named.conf X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/ldap/testing/slapd.conf X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/Makefile.in X 2013,2017,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/dlz_mysql_dynamic.c X 2013,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/testing/README X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/testing/dlz.data X 2013,2017,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/testing/dlz.schema X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysql/testing/named.conf X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/Makefile.in X 2014,2015,2017,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/README X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/dlz_mysqldyn_mod.c X 2014,2015,2018,2019,2020,2021,2022

./contrib/dlz/modules/mysqldyn/testing/README X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/testing/dlz.data X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/testing/dlz.schema X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/mysqldyn/testing/named.conf X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/Makefile X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/README X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/dlz_perl_callback.xs X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/dlz_perl_callback_clientinfo.xs X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/dlz_perl_driver.c X 2013,2015,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/dlz_perl_driver.h X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/testing/dlz_perl_example.pm X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/perl/testing/named.conf X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/Makefile X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/dlz_sqlite3_dynamic.c X 2014,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/testing/README X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/testing/dlz.data X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/testing/dlz.schema X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/sqlite3/testing/named.conf X 2014,2018,2019,2020,2021,2022
./contrib/dlz/modules/wildcard/Makefile X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/wildcard/README X 2013,2018,2019,2020,2021,2022
./contrib/dlz/modules/wildcard/dlz_wildcard_dynamic.c X 2013,2015,2016,2018,2019,2020,2021,2022
./contrib/dlz/modules/wildcard/testing/named.conf X 2013,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/Makefile.in X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/README X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/RELEASE_NOTES X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/aclocal.m4 X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/acx_pthread.m4 X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/config.guess X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/config.sub X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/configure X 2016,2017,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/configure.in X 2016,2017,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/contrib/queryparse/INSTALL X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/contrib/queryparse/USAGE X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/contrib/queryparse/queryparse X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/contrib/queryparse/queryparse.1 X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/datafile.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/datafile.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/dns.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/dns.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/dnsperf.1 X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/dnsperf.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/doc/caching-dns-performance.pdf X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/doc/dnsperf.pdf X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/doc/resperf.pdf X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/install-sh X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/log.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/log.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/net.c X 2016,2018,2019,2020,2021,2022

./contrib/dnsperf-2.1.0.0-1/net.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/opt.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/opt.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/os.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/os.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/resperf-report X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/resperf.1 X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/resperf.c X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/util.h X 2016,2018,2019,2020,2021,2022
./contrib/dnsperf-2.1.0.0-1/version.h X 2016,2018,2019,2020,2021,2022
./contrib/dnspriv/README.md MKD 2017,2018,2019,2020,2021,2022
./contrib/dnspriv/named.conf CONF-C 2017,2018,2019,2020,2021,2022
./contrib/dnspriv/nginx.conf SH 2017,2018,2019,2020,2021,2022
./contrib/idn/README.idnkit X 2005,2009,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/ChangeLog X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/DISTFILES X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/INSTALL X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/INSTALL.ja X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/LICENSE.txt X 2003,2018,2019
./contrib/idn/idnkit-1.0-src/Makefile.in X 2003,2004,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/NEWS X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/README X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/README.ja X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/acconfig.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/aclocal.m4 X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/config.guess X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/config.sub X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/configure X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/configure.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/config.h.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/config.h.win X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/aliaslist.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/api.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/assert.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/checker.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/converter.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/debug.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/delimitermap.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/export.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/filechecker.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/filemapper.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/localencoding.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/log.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/logmacro.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/mapper.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/mapselector.h X 2003,2018,2019,2020,2021,2022

./contrib/idn/idnkit-1.0-src/include/idn/nameprep.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/normalizer.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/punycode.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/race.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/res.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/resconf.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/result.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/strhash.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/ucs4.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/ucsmap.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/ucsset.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/unicode.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/unormalize.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/utf8.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/util.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/idn/version.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/api.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/localencoding.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/log.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/res.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/resconf.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/result.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/utf8.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/include/mdn/version.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/install-sh X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/Makefile.in X 2003,2004,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/aliaslist.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/aliaslist.sh X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/api.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/checker.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/converter.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/debug.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/delimitermap.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/filechecker.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/filemapper.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/idn.conf.sample.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/localencoding.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/log.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/mapper.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/mapselector.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/nameprep.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/nameprep_template.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/nameprepdata.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/normalizer.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/punycode.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/race.c X 2003,2018,2019,2020,2021,2022

./contrib/idn/idnkit-1.0-src/lib/res.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/resconf.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/result.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/strhash.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/Makefile.in X 2003,2004,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init1.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init2.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init3.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init4-1.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init4-2.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init4-3.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init5-1.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init5-2.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api-init5-3.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/api.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/checker.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/codeset.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/converter.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/delimitermap.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/iconvchk.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/mapper.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/mapselector.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/nameprep.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/normalizer.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/res.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/resconf.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/setenv.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/setenv.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/testsuite.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/testsuite.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/testutil.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/testutil.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/testygen X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/ucs4.tsy X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/tests/utffilter X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/ucs4.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/ucsmap.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/ucsset.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/unicode.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/unicode_template.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/unicodedata_320.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/unormalize.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/utf8.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/util.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/lib/version.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/ltconfig X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/ltmain.sh X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/make.wnt X 2003,2018,2019,2020,2021,2022

./contrib/idn/idnkit-1.0-src/man/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/man/idn.conf.5.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/man/libidnkit.3.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/map/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/map/jp.map X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/mkinstalldirs X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/patch/bind9/bind-9.2.1-patch X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/patch/bind9/bind-9.2.2-patch X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/idnconv.1 X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/idnconv.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/idnslookup.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/selectiveencode.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/selectiveencode.h X 2003,2009,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/util.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/idnconv/util.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/rpm/idnkit.spec X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/Makefile.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/resolver.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/resolver.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/runidn.1 X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/runidn.in X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/stub.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/tools/runidn/stub.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/util/Makefile X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/util/SparseMap.pm X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/util/UCD.pm X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/util/generate_nameprep_data.pl X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/util/generate_normalize_data.pl X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/win/README.WIN X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/README.txt X 2003,2018,2019
./contrib/idn/idnkit-1.0-src/wsock/README_j.txt X 2003,2018,2019
./contrib/idn/idnkit-1.0-src/wsock/common/checkdll.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/convert.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/dump.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/encoding.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/hook.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/printf.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/common/wrapcommon.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/config/idnconf.tcl X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/config/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/dlldef.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/dllfunc.c X 2003,2018,2019,2020,2021,2022

./contrib/idn/idnkit-1.0-src/wsock/wsock11/dllload.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/dllmain.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/dllstub.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock11/wsock32.def X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/dlldef.h X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/dllfunc.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/dllload.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/dllmain.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/dllstub.c X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/make.wnt X 2003,2018,2019,2020,2021,2022
./contrib/idn/idnkit-1.0-src/wsock/wsock20/ws2_32.def X 2003,2018,2019,2020,2021,2022
./contrib/kasp/README X 2016,2018,2019,2020,2021,2022
./contrib/kasp/kasp.xml X 2016,2018,2019,2020,2021,2022
./contrib/kasp/kasp2policy.py X 2016,2018,2019,2020,2021,2022
./contrib/kasp/policy.good X 2016,2018,2019,2020,2021,2022
./contrib/perftcpdns/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./contrib/perftcpdns/configure X 2014,2018,2019,2020,2021,2022
./contrib/perftcpdns/configure.in SH 2014,2016,2018,2019,2020,2021,2022
./contrib/perftcpdns/perftcpdns.c C 2013,2014,2016,2018,2019,2020,2021,2022
./contrib/queryperf/Makefile.in X 2001,2004,2018,2019,2020,2021,2022
./contrib/queryperf/README X 2001,2018,2019,2020,2021,2022
./contrib/queryperf/config.h.in X 2007,2018,2019,2020,2021,2022
./contrib/queryperf/configure X 2001,2002,2004,2007,2012,2018,2019,2020,2021,2022
./contrib/queryperf/configure.in X 2001,2004,2007,2012,2018,2019,2020,2021,2022
./contrib/queryperf/input/sample.0 X 2001,2018,2019,2020,2021,2022
./contrib/queryperf/input/sample.1 X 2001,2018,2019,2020,2021,2022
./contrib/queryperf/missing/addrinfo.h X 2004,2018,2019,2020,2021,2022
./contrib/queryperf/missing/getaddrinfo.c X 2004,2018,2019,2020,2021,2022
./contrib/queryperf/missing/getnameinfo.c X 2004,2018,2019,2020,2021,2022
./contrib/queryperf/queryperf.c X 2001,2002,2003,2004,2005,2007,2012,2013,2014,2018,2019,2020,2021,2022
./contrib/queryperf/utils/gen-data-queryperf.py X 2003,2008,2016,2018,2019,2020,2021,2022
./contrib/scripts/catzhash.py X 2020,2021,2022
./contrib/scripts/check-secure-delegation.pl.in PERL 2010,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/scripts/check5011.pl X 2013,2014,2017,2018,2019,2020,2021,2022
./contrib/scripts/dnssec-keyset.sh X 2015,2018,2019,2020,2021,2022
./contrib/scripts/named-bootconf.sh SH.PORTION
1999,2000,2001,2004,2006,2007,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/scripts/nanny.pl PERL 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/scripts/zone-edit.sh.in SH 2010,2012,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/bdb/README X 2002,2018,2019,2020,2021,2022
./contrib/sdb/bdb/bdb.c X 2002,2011,2014,2018,2019,2020,2021,2022
./contrib/sdb/bdb/bdb.h X 2002,2018,2019,2020,2021,2022
./contrib/sdb/bdb/zone2bdb.c X 2002,2008,2009,2018,2019,2020,2021,2022
./contrib/sdb/dir/dirdb.c C 2000,2001,2004,2007,2011,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/dir/dirdb.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./contrib/sdb/ldap/INSTALL.ldap X 2001,2002,2004,2018,2019,2020,2021,2022
./contrib/sdb/ldap/README.ldap X 2001,2002,2004,2018,2019,2020,2021,2022

./contrib/sdb/ldap/README.zone2ldap X 2001,2015,2018,2019,2020,2021,2022
./contrib/sdb/ldap/ldapdb.c X 2001,2002,2003,2004,2011,2014,2018,2019,2020,2021,2022
./contrib/sdb/ldap/ldapdb.h X 2001,2018,2019,2020,2021,2022
./contrib/sdb/ldap/zone2ldap.1 X 2001,2018,2019,2020,2021,2022
./contrib/sdb/ldap/zone2ldap.c X 2001,2005,2008,2009,2011,2015,2016,2018,2019,2020,2021,2022
./contrib/sdb/pgsql/pgsqldb.c C 2000,2001,2004,2007,2011,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/pgsql/pgsqldb.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./contrib/sdb/pgsql/zonetodb.c C 2000,2001,2002,2004,2005,2007,2008,2009,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/sqlite/README.sdb_sqlite X 2007,2018,2019,2020,2021,2022
./contrib/sdb/sqlite/sqlitedb.c X 2007,2011,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/sqlite/sqlitedb.h X 2007,2016,2018,2019,2020,2021,2022
./contrib/sdb/sqlite/zone2sqlite.c X 2007,2008,2009,2010,2013,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/tcl/lookup.tcl TCL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./contrib/sdb/tcl/tcldb.c C 2000,2001,2004,2007,2011,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/tcl/tcldb.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./contrib/sdb/time/timedb.c C 2000,2001,2004,2007,2011,2014,2016,2018,2019,2020,2021,2022
./contrib/sdb/time/timedb.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./dangerfile.py PYTHON 2020,2021,2022
./doc/Makefile.in MAKE 2000,2001,2004,2005,2006,2007,2012,2015,2016,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM-book.xml SGML
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch01.html X
2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./doc/arm/Bv9ARM.ch02.html X
2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./doc/arm/Bv9ARM.ch03.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch04.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch05.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch06.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch07.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch08.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.ch09.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202

0,2021,2022
./doc/arm/Bv9ARM.ch10.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM.ch11.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM.ch12.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM.ch13.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM.conf X 2015,2018,2019,2020,2021,2022
./doc/arm/Bv9ARM.html X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./doc/arm/Bv9ARM.pdf X 2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/Makefile.in MAKE
2001,2002,2004,2005,2006,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./doc/arm/README-SGML TXT.BRIEF 2000,2001,2004,2015,2016,2018,2019,2020,2021,2022
./doc/arm/acl.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/catz.xml SGML 2016,2017,2018,2019,2020,2021,2022
./doc/arm/controls.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/delegation-only.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/dlz.xml SGML 2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./doc/arm/dnssec.xml SGML 2010,2011,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/dyndb.xml SGML 2015,2016,2018,2019,2020,2021,2022
./doc/arm/forward.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/hint.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/in-view.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/isc-logo.pdf X 2005,2010,2018,2019,2020,2021,2022
./doc/arm/key.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/libdns.xml SGML 2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/logging-categories.xml SGML 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/logging.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/man.arpaname.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.ddns-confgen.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.delv.html X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dig.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-checkds.html X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-coverage.html X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-dsfromkey.html X
2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-importkey.html X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-keyfromlabel.html X
2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-keygen.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-keymgr.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-revoke.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-settime.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnssec-signzone.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

./doc/arm/man.dnssec-verify.html X 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.dnstap-read.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.genrandom.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.host.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.isc-hmac-fixup.html X 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.lwresd.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.mdig.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named-checkconf.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named-checkzone.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named-journalprint.html X
2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named-nzd2nzf.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named-rrchecker.html X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named.conf.html X 2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.named.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.nsec3hash.html X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.nslookup.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.nsupdate.html X 2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.pkcs11-destroy.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.pkcs11-keygen.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.pkcs11-list.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.pkcs11-tokens.html X 2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.rndc-confgen.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.rndc.conf.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/man.rndc.html X
2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/managed-keys.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/managed-keys.xml SGML 2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/master.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/masters.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/notes-9.11.0.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.1.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.10.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.11.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.12.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.13.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.14.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.15.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.16.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.17.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.18.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.19.xml SGML 2020,2021,2022

./doc/arm/notes-9.11.2.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.20.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.21.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.22.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.23.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.24.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.25.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.26.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.27.xml SGML 2020,2021,2022
./doc/arm/notes-9.11.28.xml SGML 2021,2022
./doc/arm/notes-9.11.29.xml SGML 2021,2022
./doc/arm/notes-9.11.3.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.30.xml SGML 2021,2022
./doc/arm/notes-9.11.31.xml SGML 2021,2022
./doc/arm/notes-9.11.32.xml SGML 2021,2022
./doc/arm/notes-9.11.33.xml SGML 2021,2022
./doc/arm/notes-9.11.34.xml SGML 2021,2022
./doc/arm/notes-9.11.35.xml SGML 2021,2022
./doc/arm/notes-9.11.36.xml SGML 2021,2022
./doc/arm/notes-9.11.37.xml SGML 2021,2022
./doc/arm/notes-9.11.4.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.5.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.6.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.7.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.8.xml SGML 2019,2020,2021,2022
./doc/arm/notes-9.11.9.xml SGML 2019,2020,2021,2022
./doc/arm/notes-download.xml SGML 2019,2020,2021,2022
./doc/arm/notes-eol.xml SGML 2019,2020,2021,2022
./doc/arm/notes-intro.xml SGML 2019,2020,2021,2022
./doc/arm/notes-license.xml SGML 2019,2020,2021,2022
./doc/arm/notes-thankyou.xml SGML 2019,2020,2021,2022
./doc/arm/notes-wrapper.xml SGML 2014,2015,2016,2018,2019,2020,2021,2022
./doc/arm/notes.conf X 2015,2018,2019,2020,2021,2022
./doc/arm/notes.html X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/notes.pdf X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/notes.xml SGML 2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/arm/noteversion.xml.in SGML 2015,2016,2018,2019,2020,2021,2022
./doc/arm/options.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/pkcs11.xml SGML 2010,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./doc/arm/pkgversion.xml.in SGML 2015,2016,2018,2019,2020,2021,2022
./doc/arm/redirect.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/releaseinfo.xml.in SGML 2015,2016,2018,2019,2020,2021,2022
./doc/arm/server.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/slave.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/static-stub.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/statistics-channels.grammar.xml SGML 2018,2019,2020,2021,2022
./doc/arm/stub.zoneopt.xml SGML 2018,2019,2020,2021,2022
./doc/arm/trusted-keys.grammar.xml SGML 2018,2019,2020,2021,2022

./doc/design/addressdb TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/cds-child TXT.BRIEF 2015,2016,2018,2019,2020,2021,2022
./doc/design/compression TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/database TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/db_rules TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/decompression TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/dispatch TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/dscp TXT.BRIEF 2013,2016,2018,2019,2020,2021,2022
./doc/design/keydone TXT.BRIEF 2011,2016,2018,2019,2020,2021,2022
./doc/design/logging TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/lwres TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/ncache TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/rdataset TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/red-black TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/resolver TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/search TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/tasks TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/unsupported-algorithms-in-bind9 TXT.BRIEF 2019,2020,2021,2022
./doc/design/verify TXT.BRIEF 2012,2016,2018,2019,2020,2021,2022
./doc/design/windows-nt TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/design/zone TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/dev/DBC TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/dev/autoconf TXT.BRIEF 2001,2002,2004,2016,2018,2019,2020,2021,2022
./doc/dev/coding.html HTML 1999,2000,2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./doc/dev/cvs-usage TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/dev/dev.md MKD 2017,2018,2019,2020,2021,2022
./doc/dev/magic_numbers TXT.BRIEF 1999,2000,2001,2002,2004,2016,2018,2019,2020,2021,2022
./doc/dev/rdata.md MKD 1999,2000,2001,2004,2007,2016,2017,2018,2019,2020,2021,2022
./doc/dev/release TXT.BRIEF
2000,2001,2002,2003,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./doc/dev/results TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/dev/style.md MKD 2017,2018,2019,2020,2021,2022
./doc/dev/tests TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/dev/unexpected TXT.BRIEF 1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/doxygen/Doxyfile.in X 2006,2017,2018,2019,2020,2021,2022
./doc/doxygen/Makefile.in MAKE 2006,2007,2012,2015,2016,2018,2019,2020,2021,2022
./doc/doxygen/doxygen-input-filter.in PERL 2006,2007,2012,2016,2018,2019,2020,2021,2022
./doc/doxygen/isc-footer.html HTML 2006,2007,2016,2018,2019,2020,2021,2022
./doc/doxygen/isc-header.html HTML 2006,2007,2016,2018,2019,2020,2021,2022
./doc/doxygen/mainpage X 2006,2018,2019,2020,2021,2022
./doc/misc/Makefile.in MAKE 2001,2004,2007,2009,2012,2016,2017,2018,2019,2020,2021,2022
./doc/misc/delegation-only.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/dnssec TXT.BRIEF 2000,2001,2002,2004,2016,2018,2019,2020,2021,2022
./doc/misc/docbook-grammars.pl PERL 2018,2019,2020,2021,2022
./doc/misc/docbook-options.pl PERL 2017,2018,2019,2020,2021,2022
./doc/misc/docbook-zoneopt.pl PERL 2018,2019,2020,2021,2022
./doc/misc/format-options.pl PERL 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./doc/misc/forward.zoneopt X 2018,2019,2020,2021,2022

./doc/misc/hint.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/in-view.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/ipv6 TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/misc/master.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/migration TXT.BRIEF 2000,2001,2003,2004,2007,2008,2016,2018,2019,2020,2021,2022
./doc/misc/migration-4to9 TXT.BRIEF 2001,2004,2016,2018,2019,2020,2021,2022
./doc/misc/options X
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./doc/misc/redirect.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/rfc-compliance TXT.BRIEF 2001,2004,2015,2016,2018,2019,2020,2021,2022
./doc/misc/roadmap TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/misc/sdb TXT.BRIEF 2000,2001,2004,2016,2018,2019,2020,2021,2022
./doc/misc/slave.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/sort-options.pl PERL 2007,2012,2016,2018,2019,2020,2021,2022
./doc/misc/static-stub.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/stub.zoneopt X 2018,2019,2020,2021,2022
./doc/misc/tcp-fast-open TXT.BRIEF 2016,2017,2018,2019,2020,2021,2022
./doc/tex/Makefile.in MAKE 2015,2016,2018,2019,2020,2021,2022
./doc/tex/armstyle.sty.in X 2015,2018,2019,2020,2021,2022
./doc/tex/notestyle.sty X 2015,2018,2019,2020,2021,2022
./doc/xsl/Makefile.in MAKE 2005,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/arm-param.xsl SGML 2015,2016,2018,2019,2020,2021,2022
./doc/xsl/copyright.xsl SGML 2005,2007,2009,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/graphics/caution.eps X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/caution.pdf X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/important.eps X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/important.pdf X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/note.eps X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/note.pdf X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/tip.eps X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/tip.pdf X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/warning.eps X 2015,2018,2019,2020,2021,2022
./doc/xsl/graphics/warning.pdf X 2015,2018,2019,2020,2021,2022
./doc/xsl/isc-docbook-chunk.xsl.in SGML 2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/isc-docbook-html.xsl.in SGML 2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/isc-docbook-text.xsl SGML 2005,2007,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/isc-manpage.xsl.in SGML 2005,2007,2015,2016,2018,2019,2020,2021,2022
./doc/xsl/isc-notes-html.xsl.in SGML 2015,2016,2018,2019,2020,2021,2022
./doc/xsl/notes-param.xsl SGML 2015,2016,2018,2019,2020,2021,2022
./doc/xsl/pre-latex.xsl SGML 2005,2007,2015,2016,2018,2019,2020,2021,2022
./docutil/HTML_COPYRIGHT X 2001,2004,2016,2018,2019,2020,2021,2022
./docutil/MAN_COPYRIGHT X 2001,2004,2016,2018,2019,2020,2021,2022
./docutil/patch-db2latex-duplicate-template-bug X 2007,2018,2019,2020,2021,2022
./docutil/patch-db2latex-nested-param-bug X 2007,2018,2019,2020,2021,2022
./docutil/patch-db2latex-xsltproc-title-bug X 2007,2018,2019,2020,2021,2022
./install-sh X 1998,1999,2000,2001,2018,2019,2020,2021,2022
./isc-config.sh.1 MAN DOCBOOK

./isc-config.sh.docbook SGML 2009,2014,2015,2016,2018,2019,2020,2021,2022
./isc-config.sh.html HTML DOCBOOK
./isc-config.sh.in SH 2000,2001,2003,2004,2007,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/Makefile.in MAKE 1998,1999,2000,2001,2003,2004,2007,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/bind9/Makefile.in MAKE 2001,2004,2007,2009,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/api X 2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/check.c C
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/getaddresses.c C 2001,2002,2004,2005,2007,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/include/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/bind9/include/bind9/Makefile.in MAKE 2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/bind9/include/bind9/check.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/bind9/include/bind9/getaddresses.h C 2001,2004,2005,2006,2007,2009,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/include/bind9/version.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/bind9/version.c C 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/bind9/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.def X 2001,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.dsp.in X 2001,2004,2005,2009,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.dsw X 2001,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.mak.in X
2001,2002,2004,2005,2006,2009,2011,2013,2014,2015,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.vcxproj.filters.in X 2013,2015,2016,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/bind9/win32/libbind9.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/bind9/win32/version.c C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/dns/Makefile.in MAKE
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/acache.c C 2004,2005,2006,2007,2008,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/acl.c C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/dns/adb.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/api X
1999,2000,2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/badcache.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/byaddr.c C 2000,2001,2002,2003,2004,2005,2007,2009,2013,2016,2017,2018,2019,2020,2021,2022
./lib/dns/cache.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/callbacks.c C 1999,2000,2001,2004,2005,2007,2011,2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/catz.c C 2016,2017,2018,2019,2020,2021,2022
./lib/dns/client.c C 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/clientinfo.c C 2011,2014,2016,2018,2019,2020,2021,2022

./lib/dns/compress.c C 1999,2000,2001,2004,2005,2006,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/db.c C
1999,2000,2001,2003,2004,2005,2007,2008,2009,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./lib/dns/dbiterator.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/dbtable.c C 1999,2000,2001,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/dns/diff.c C
2000,2001,2002,2003,2004,2005,2007,2008,2009,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/dispatch.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/dlz.c C.PORTION
1999,2000,2001,2005,2007,2009,2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./lib/dns/dns64.c C 2010,2011,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/dnssec.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,201
9,2020,2021,2022
./lib/dns/dnstap.c C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/dnstap.proto X 2015,2018,2019,2020,2021,2022
./lib/dns/ds.c C 2002,2003,2004,2005,2006,2007,2010,2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/dst_api.c C.NAI
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,201
9,2020,2021,2022
./lib/dns/dst_gost.h C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/dst_internal.h C.NAI
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/dst_lib.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/dst_openssl.h C 2002,2004,2005,2007,2008,2009,2011,2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/dst_parse.c C.NAI
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/dst_parse.h C.NAI
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/dst_pkcs11.h C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/dst_result.c C 1999,2000,2001,2004,2005,2007,2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/dyndb.c C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/ecdb.c C 2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/fixedname.c C 2018,2019,2020,2021,2022
./lib/dns/forward.c C 2000,2001,2004,2005,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/dns/gen-unix.h C 1999,2000,2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/gen-win32.h C 1999,2000,2001,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/dns/gen.c C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/geoip.c C 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/geoip2.c C 2019,2020,2021,2022
./lib/dns/gssapi_link.c C
2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022

./lib/dns/gssapictx.c C
2000,2001,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/hmac_link.c C.NAI
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/Makefile.in MAKE
1998,1999,2000,2001,2002,2003,2004,2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/acache.h C 2004,2006,2007,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/acl.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/adb.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/badcache.h C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/bit.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/byaddr.h C 2000,2001,2002,2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/cache.h C
1999,2000,2001,2004,2005,2006,2007,2009,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/callbacks.h C
1999,2000,2001,2002,2004,2005,2006,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/catz.h C 2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/cert.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/client.h C 2009,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/clientinfo.h C 2011,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/compress.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/db.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/dbiterator.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dbtable.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/diff.h C
2000,2001,2004,2005,2006,2007,2008,2009,2010,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dispatch.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/dlz.h C.PORTION
1999,2000,2001,2005,2006,2007,2009,2010,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dlz_dlopen.h C 2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/dns64.h C 2010,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dnssec.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dnstap.h C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/ds.h C 2002,2004,2005,2006,2007,2010,2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/dsdigest.h C 2012,2016,2018,2019,2020,2021,2022

./lib/dns/include/dns/dyndb.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/ecdb.h C 2009,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/edns.h C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/events.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2010,2011,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/fixedname.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/forward.h C 2000,2001,2004,2005,2006,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/geoip.h C 2013,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/ipkeylist.h C 2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/iptable.h C 2007,2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/journal.h C
1999,2000,2001,2004,2005,2006,2007,2008,2009,2011,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/keydata.h C 2009,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/keyflags.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/keytable.h C 2000,2001,2004,2005,2007,2009,2010,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/keyvalues.h C
1999,2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2012,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/lib.h C 1999,2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/log.h C
1999,2000,2001,2003,2004,2005,2006,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/include/dns/lookup.h C 2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/master.h C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/masterdump.h C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/message.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/include/dns/name.h C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/include/dns/ncache.h C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/nsec.h C
1999,2000,2001,2003,2004,2005,2006,2007,2008,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/nsec3.h C 2008,2009,2010,2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/nta.h C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/opcode.h C 2002,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/order.h C 2002,2004,2005,2006,2007,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/peer.h C
2000,2001,2003,2004,2005,2006,2007,2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/portlist.h C 2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/private.h C 2009,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rbt.h C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/include/dns/rcode.h C 1999,2000,2001,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022

./lib/dns/include/dns/rdata.h C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdataclass.h C 1998,1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdatalist.h C 1999,2000,2001,2004,2005,2006,2007,2008,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdataset.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdatasetiter.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdataslab.h C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rdatatype.h C
1998,1999,2000,2001,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/request.h C
2000,2001,2002,2004,2005,2006,2007,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/resolver.h C
1999,2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/result.h C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rootns.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rpz.h C 2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/rriterator.h C 2009,2011,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/rrl.h C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/sdb.h C 2000,2001,2004,2005,2006,2007,2009,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/sdlz.h C.PORTION
1999,2000,2001,2005,2006,2007,2009,2010,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/secalg.h C 1999,2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/secproto.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/soa.h C 2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/ssu.h C
2000,2001,2003,2004,2005,2006,2007,2008,2010,2011,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/stats.h C
2000,2001,2004,2005,2006,2007,2008,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/tcpmsg.h C 1999,2000,2001,2004,2005,2006,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/time.h C 1999,2000,2001,2004,2005,2006,2007,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/timer.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/tkey.h C
1999,2000,2001,2004,2005,2006,2007,2009,2010,2011,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/tsec.h C 2009,2010,2012,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/tsig.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2010,2011,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/ttl.h C 1999,2000,2001,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/types.h C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/update.h C 2011,2015,2016,2018,2019,2020,2021,2022

./lib/dns/include/dns/validator.h C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2013,2014,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/version.h C 2001,2004,2005,2006,2007,2012,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/view.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/xfrin.h C
1999,2000,2001,2003,2004,2005,2006,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/zone.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dns/zonekey.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dns/zt.h C 1999,2000,2001,2002,2004,2005,2006,2007,2011,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dst/Makefile.in MAKE
1998,1999,2000,2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/include/dst/dst.h C
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/include/dst/gssapi.h C
2000,2001,2004,2005,2006,2007,2009,2010,2011,2013,2016,2018,2019,2020,2021,2022
./lib/dns/include/dst/lib.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/include/dst/result.h C
1999,2000,2001,2004,2005,2006,2007,2008,2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/ipkeylist.c C 2016,2018,2019,2020,2021,2022
./lib/dns/iptable.c C 2007,2008,2009,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/journal.c C
1999,2000,2001,2002,2004,2005,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/key.c C 2001,2004,2005,2006,2007,2011,2016,2018,2019,2020,2021,2022
./lib/dns/keydata.c C 2009,2014,2016,2018,2019,2020,2021,2022
./lib/dns/keytable.c C 2000,2001,2004,2005,2007,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/lib.c C 1999,2000,2001,2004,2005,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/log.c C
1999,2000,2001,2003,2004,2005,2006,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/lookup.c C 2000,2001,2003,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/dns/mapapi X 2013,2018,2019,2020,2021,2022
./lib/dns/master.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/masterdump.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/message.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/name.c C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,201

8,2019,2020,2021,2022
./lib/dns/ncache.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/nsec.c C
1999,2000,2001,2003,2004,2005,2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/nsec3.c C 2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/nta.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/openssl_link.c C.NAI
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/openssldh_link.c C.NAI
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/openssldsa_link.c C.NAI
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/openssleccdsa_link.c C 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/openssleddsa_link.c C 2017,2018,2019,2020,2021,2022
./lib/dns/opensslgost_link.c C 2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/opensslrsa_link.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/order.c C 2002,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/peer.c C
2000,2001,2003,2004,2005,2006,2007,2008,2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/pkcs11.c C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/pkcs11dh_link.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/pkcs11dsa_link.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/pkcs11ecdsa_link.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/pkcs11eddsa_link.c C 2017,2018,2019,2020,2021,2022
./lib/dns/pkcs11gost_link.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/pkcs11rsa_link.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/portlist.c C 2003,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/dns/private.c C 2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rbt.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rbtdb.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rbtdb.h C 1999,2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/rbtdb64.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rbtdb64.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rcode.c C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata.c C

1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/any_255/tsig_250.c C 1999,2000,2001,2002,2003,2004,2005,2007,2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/any_255/tsig_250.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/ch_3/a_1.c C 2005,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/ch_3/a_1.h C 2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/afsdb_18.c C 1999,2000,2001,2003,2004,2005,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/afsdb_18.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/amtrelay_260.c C 2019,2020,2021,2022
./lib/dns/rdata/generic/amtrelay_260.h C 2019,2020,2021,2022
./lib/dns/rdata/generic/avc_258.c C 2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/avc_258.h C 2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/caa_257.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/caa_257.h C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cdnskey_60.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cdnskey_60.h C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cds_59.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cds_59.h C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cert_37.c C 1999,2000,2001,2002,2003,2004,2005,2007,2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cert_37.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cname_5.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/cname_5.h C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/csync_62.c C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/csync_62.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dlv_32769.c C 2004,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dlv_32769.h C 2004,2006,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dname_39.c C 1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dname_39.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dnskey_48.c C 2003,2004,2005,2007,2009,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/dnskey_48.h C 2003,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/doa_259.c C 2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/doa_259.h C 2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ds_43.c C 2002,2004,2005,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ds_43.h C 2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/eui48_108.c C 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/eui48_108.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/eui64_109.c C 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/eui64_109.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/gpos_27.c C 1999,2000,2001,2002,2004,2005,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/gpos_27.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/hinfo_13.c C

1998,1999,2000,2001,2002,2004,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/hinfo_13.h C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/hip_55.c C 2009,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/hip_55.h C 2009,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ipseckey_45.c C 2005,2007,2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ipseckey_45.h C 2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/isdn_20.c C
1999,2000,2001,2002,2004,2005,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/isdn_20.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/key_25.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/key_25.h C 1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/keydata_65533.c C 2009,2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/keydata_65533.h C 2009,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/l32_105.c C 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/l32_105.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/l64_106.c C 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/l64_106.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/loc_29.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/loc_29.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/lp_107.c C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/lp_107.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mb_7.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mb_7.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/md_3.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/md_3.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mf_4.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mf_4.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mg_8.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mg_8.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/minfo_14.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/minfo_14.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mr_9.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mr_9.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mx_15.c C
1998,1999,2000,2001,2003,2004,2005,2007,2009,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/mx_15.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/naptr_35.c C
1999,2000,2001,2003,2004,2005,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/rdata/generic/naptr_35.h C 1999,2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nid_104.c C 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nid_104.h C 2013,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ninfo_56.c C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ninfo_56.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ns_2.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ns_2.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022

./lib/dns/rdata/generic/nsec3_50.c C 2008,2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nsec3_50.h C 2008,2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nsec3param_51.c C 2008,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nsec3param_51.h C 2008,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nsec_47.c C 2003,2004,2007,2008,2009,2011,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nsec_47.h C 2003,2004,2005,2007,2008,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/null_10.c C
1998,1999,2000,2001,2002,2004,2007,2009,2011,2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/null_10.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nxt_30.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/nxt_30.h C 1999,2000,2001,2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/openpgpkey_61.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/openpgpkey_61.h C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/opt_41.c C
1998,1999,2000,2001,2002,2004,2005,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/rdata/generic/opt_41.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/proforma.c C
1998,1999,2000,2001,2002,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/proforma.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ptr_12.c C 1998,1999,2000,2001,2004,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ptr_12.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rkey_57.c C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rkey_57.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rp_17.c C 1999,2000,2001,2004,2005,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rp_17.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rrsig_46.c C
2003,2004,2005,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rrsig_46.h C 2003,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rt_21.c C
1999,2000,2001,2003,2004,2005,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/rt_21.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/sig_24.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/sig_24.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/sink_40.c C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/sink_40.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/smimea_53.c C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/smimea_53.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/soa_6.c C
1998,1999,2000,2001,2002,2004,2007,2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/soa_6.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/spf_99.c C
1998,1999,2000,2001,2002,2004,2005,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/spf_99.h C 1998,1999,2000,2001,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/sshfp_44.c C
2003,2004,2006,2007,2009,2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022

./lib/dns/rdata/generic/sshfp_44.h C 2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ta_32768.c C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/ta_32768.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/talink_58.c C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/talink_58.h C 2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/tkey_249.c C
1999,2000,2001,2002,2003,2004,2007,2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/tkey_249.h C 1999,2000,2001,2003,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/tlsa_52.c C 2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/tlsa_52.h C 2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/txt_16.c C
1998,1999,2000,2001,2002,2004,2007,2008,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/txt_16.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/uri_256.c C 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/uri_256.h C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/x25_19.c C
1999,2000,2001,2002,2004,2005,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/x25_19.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/generic/zonemd_63.c C 2019,2020,2021,2022
./lib/dns/rdata/generic/zonemd_63.h C 2019,2020,2021,2022
./lib/dns/rdata/hs_4/a_1.c C 1999,2000,2001,2002,2004,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/hs_4/a_1.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/a6_38.c C
1999,2000,2001,2002,2003,2004,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/a6_38.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/a_1.c C 1998,1999,2000,2001,2002,2004,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/a_1.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/aaaa_28.c C
1999,2000,2001,2002,2004,2005,2007,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/aaaa_28.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/apl_42.c C 2002,2004,2005,2007,2008,2009,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/apl_42.h C 2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/atma_34.c C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/atma_34.h C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/dhcid_49.c C 2006,2007,2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/dhcid_49.h C 2006,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/eid_31.c C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/eid_31.h C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/kx_36.c C
1999,2000,2001,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/kx_36.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nimloc_32.c C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nimloc_32.h C 2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nsap-ptr_23.c C 1999,2000,2001,2004,2005,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nsap-ptr_23.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nsap_22.c C
1999,2000,2001,2002,2004,2005,2007,2009,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/nsap_22.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022

./lib/dns/rdata/in_1/px_26.c C
1999,2000,2001,2003,2004,2005,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/px_26.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/srv_33.c C 1999,2000,2001,2003,2004,2005,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/srv_33.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/wks_11.c C
1999,2000,2001,2002,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rdata/in_1/wks_11.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/rdatastructpre.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdata/rdatastructsuf.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdatalist.c C
1999,2000,2001,2003,2004,2005,2007,2008,2010,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdatalist_p.h C 2000,2001,2004,2005,2007,2008,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rdataset.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/dns/rdatasetiter.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/rdataslab.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,202
0,2021,2022
./lib/dns/request.c C
2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,202
2
./lib/dns/resolver.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,201
9,2020,2021,2022
./lib/dns/result.c C
1998,1999,2000,2001,2002,2003,2004,2005,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,201
9,2020,2021,2022
./lib/dns/rootns.c C
1999,2000,2001,2002,2004,2005,2007,2008,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rpz.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/rriterator.c C 2009,2011,2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/rrl.c C 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/sdb.c C
2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,202
2
./lib/dns/sdlz.c C.PORTION
1999,2000,2001,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/dns/soa.c C 2000,2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./lib/dns/ssu.c C
2000,2001,2003,2004,2005,2006,2007,2008,2010,2011,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/ssu_external.c C 2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/dns/stats.c C 2000,2001,2004,2005,2007,2008,2009,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tcpmsg.c C 1999,2000,2001,2004,2005,2006,2007,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/Kdh.+002+18602.key X 2014,2018,2019,2020,2021,2022
./lib/dns/tests/Krsa.+005+29235.key X 2016,2018,2019,2020,2021,2022

./lib/dns/tests/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/dns/tests/Makefile.in MAKE 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/acl_test.c C 2016,2018,2019,2020,2021,2022
./lib/dns/tests/db_test.c C 2013,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/dbdiff_test.c C 2011,2012,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/dbiterator_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/dbversion_test.c C 2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/dh_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/tests/dispatch_test.c C 2012,2014,2016,2018,2019,2020,2021,2022
./lib/dns/tests/dnstap_test.c C 2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/dnstest.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/dnstest.h C 2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/dst_test.c C 2018,2019,2020,2021,2022
./lib/dns/tests/geoip_test.c C 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/gost_test.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/keytable_test.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/master_test.c C 2011,2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/mkraw.pl PERL 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/name_test.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/nsec3_test.c C 2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/peer_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/dns/tests/private_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/rbt_serialize_test.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/rbt_test.c C 2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/rdata_test.c C 2012,2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/rdataset_test.c C 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/rdatasetstats_test.c C 2012,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/resolver_test.c C 2018,2019,2020,2021,2022
./lib/dns/tests/result_test.c C 2018,2019,2020,2021,2022
./lib/dns/tests/rsa_test.c C 2016,2018,2019,2020,2021,2022
./lib/dns/tests/sigs_test.c C 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/db/data.db ZONE 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dbiterator/zone1.data ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dbiterator/zone2.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/diff/zone1.data ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/diff/zone2.data ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/diff/zone3.data ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/dnstap.saved X 2015,2017,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/dnstap.text X 2015,2017,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/query.auth X 2015,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/query.recursive X 2015,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/response.auth X 2015,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dnstap/response.recursive X 2015,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/Ktest.+001+00002.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/Ktest.+001+54622.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/Ktest.+001+54622.private X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/Ktest.+003+23616.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/Ktest.+003+23616.private X 2018,2019,2020,2021,2022

./lib/dns/tests/testdata/dst/Ktest.+003+49667.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/test1.data X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/test1.dsasig X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/test1.rsasig X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/dst/test2.data X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master1.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master10.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master11.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master12.data.in X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master13.data.in X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master14.data.in X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master15.data X 2012,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master16.data X 2012,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master17.data X 2012,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master18.data X 2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master2.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master3.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master4.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master5.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master6.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master7.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master8.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/master/master9.data X 2011,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/nsec3/1024.db ZONE 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/nsec3/2048.db ZONE 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/nsec3/4096.db ZONE 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/nsec3/min-1024.db ZONE 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/nsec3/min-2048.db ZONE 2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testdata/zt/zone1.db ZONE 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/testkeys/Kexample.+008+20386.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testkeys/Kexample.+008+20386.private X 2018,2019,2020,2021,2022
./lib/dns/tests/testkeys/Kexample.+008+37464.key X 2018,2019,2020,2021,2022
./lib/dns/tests/testkeys/Kexample.+008+37464.private X 2018,2019,2020,2021,2022
./lib/dns/tests/time_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/tests/tsig_test.c C 2017,2018,2019,2020,2021,2022
./lib/dns/tests/update_test.c C 2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tests/zonemgr_test.c C 2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tests/zt_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/dns/time.c C
1998,1999,2000,2001,2002,2003,2004,2005,2007,2009,2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/timer.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/tkey.c C
1999,2000,2001,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/dns/tsec.c C 2009,2010,2016,2017,2018,2019,2020,2021,2022
./lib/dns/tsig.c C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2022

0,2021,2022
./lib/dns/ttl.c C 1999,2000,2001,2004,2005,2007,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/dns/update.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/validator.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/version.c C 1998,1999,2000,2001,2004,2005,2007,2012,2013,2016,2018,2019,2020,2021,2022
./lib/dns/view.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/dns/win32/gen.dsp.in X 2001,2013,2018,2019,2020,2021,2022
./lib/dns/win32/gen.dsw X 2001,2018,2019,2020,2021,2022
./lib/dns/win32/gen.mak.in X 2001,2006,2013,2018,2019,2020,2021,2022
./lib/dns/win32/gen.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./lib/dns/win32/gen.vcxproj.in X 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/gen.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.def.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.dsp.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.dsw X 2001,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.mak.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.vcxproj.filters.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/win32/libdns.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/dns/win32/version.c C 1998,1999,2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./lib/dns/xfrin.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/zone.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/dns/zone_p.h C 2018,2019,2020,2021,2022
./lib/dns/zonekey.c C 2001,2003,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/dns/zt.c C
1999,2000,2001,2002,2004,2005,2006,2007,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/irs/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/irs/Makefile.in MAKE 2009,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/irs/api X 2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/irs/context.c C 2009,2014,2016,2018,2019,2020,2021,2022
./lib/irs/dnsconf.c C 2009,2012,2016,2018,2019,2020,2021,2022
./lib/irs/gai_strerror.c C 2009,2014,2016,2018,2019,2020,2021,2022
./lib/irs/getaddrinfo.c C 2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022

./lib/irs/getnameinfo.c C 2009,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/irs/include/Makefile.in MAKE 2009,2012,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/Makefile.in MAKE 2009,2012,2014,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/context.h C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/dnsconf.h C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/netdb.h.in C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/platform.h.in C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/resconf.h C 2009,2014,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/types.h C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/include/irs/version.h C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/resconf.c C 2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/irs/tests/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/irs/tests/Makefile.in MAKE 2016,2017,2018,2019,2020,2021,2022
./lib/irs/tests/resconf_test.c C 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/domain.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/nameserver-v4.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/nameserver-v6.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-bad-ndots.conf CONF-SH 2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-debug.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-empty.conf CONF-SH 2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-ndots.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-timeout.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options-unknown.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/options.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/port.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/resolv.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/search.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/sortlist-v4.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/timeout.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/tests/testdata/unknown.conf CONF-SH 2016,2018,2019,2020,2021,2022
./lib/irs/version.c C 2009,2016,2018,2019,2020,2021,2022
./lib/irs/win32/DLLMain.c C 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/include/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/include/irs/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/include/irs/netdb.h C 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/include/irs/platform.h C 2014,2016,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.def X 2014,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.dsp.in X 2014,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.dsw X 2001,2014,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.mak.in X 2014,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.vcxproj.filters.in X 2014,2015,2016,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/irs/win32/libirs.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/irs/win32/version.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/isc/Makefile.in MAKE
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,201

8,2019,2020,2021,2022
./lib/isc/aes.c C 2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/alpha/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/alpha/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/alpha/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/alpha/include/isc/atomic.h C 2005,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/api X
1999,2000,2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/app_api.c C 2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/assertions.c C 1997,1998,1999,2000,2001,2004,2005,2007,2008,2009,2015,2016,2018,2019,2020,2021,2022
./lib/isc/backtrace-emptytbl.c C 2009,2016,2018,2019,2020,2021,2022
./lib/isc/backtrace.c C 2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/base32.c C 2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/base64.c C
1998,1999,2000,2001,2003,2004,2005,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/bind9.c C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/buffer.c C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/bufferlist.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/chacha_private.h X 2014,2018,2019,2020,2021,2022
./lib/isc/commandline.c C.PORTION
1999,2000,2001,2004,2005,2007,2008,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/counter.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/crc64.c C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/entropy.c C
2000,2001,2002,2003,2004,2005,2006,2007,2009,2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/error.c C 1998,1999,2000,2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/isc/event.c C 1998,1999,2000,2001,2004,2005,2007,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/fsaccess.c C 2000,2001,2004,2005,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/hash.c C 2003,2004,2005,2006,2007,2009,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/heap.c C
1997,1998,1999,2000,2001,2004,2005,2006,2007,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./lib/isc/hex.c C 2000,2001,2002,2003,2004,2005,2007,2008,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/hmacmd5.c C 2000,2001,2004,2005,2006,2007,2009,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/hmacsha.c C 2005,2006,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/ht.c C 2016,2018,2019,2020,2021,2022
./lib/isc/httpd.c C 2006,2007,2008,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/ia64/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/ia64/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/ia64/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/ia64/include/isc/atomic.h C 2006,2007,2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/include/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/Makefile.in MAKE
1998,1999,2000,2001,2003,2004,2005,2006,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./lib/isc/include/isc/aes.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/app.h C

1999,2000,2001,2004,2005,2006,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/assertions.h C
1997,1998,1999,2000,2001,2004,2005,2006,2007,2008,2009,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/backtrace.h C 2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/base32.h C 2008,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/base64.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/bind9.h C 2009,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/boolean.h C 2018,2019,2020,2021,2022
./lib/isc/include/isc/buffer.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2010,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/bufferlist.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/cmocka.h C 2020,2021,2022
./lib/isc/include/isc/commandline.h C 1999,2000,2001,2004,2005,2006,2007,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/counter.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/crc64.h C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/deprecated.h C 2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/endian.h C 2019,2020,2021,2022
./lib/isc/include/isc/entropy.h C 2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/errno.h C 2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/error.h C
1998,1999,2000,2001,2004,2005,2006,2007,2009,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/event.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/eventclass.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/file.h C
2000,2001,2004,2005,2006,2007,2009,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/formatcheck.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/fsaccess.h C 2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/hash.h C
2003,2004,2005,2006,2007,2009,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/heap.h C
1997,1998,1999,2000,2001,2004,2005,2006,2007,2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/hex.h C 2000,2001,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/hmacmd5.h C 2000,2001,2004,2005,2006,2007,2009,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/hmacsha.h C 2005,2006,2007,2009,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/ht.h C 2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/httpd.h C 2006,2007,2008,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/int.h C 2018,2019,2020,2021,2022
./lib/isc/include/isc/interfaceiter.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/ipv6.h C 1999,2000,2001,2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/iterated_hash.h C 2008,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/json.h C 2013,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/lang.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/lex.h C
1998,1999,2000,2001,2002,2004,2005,2007,2008,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/lfsr.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/lib.h C 1999,2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/likely.h C 2017,2018,2019,2020,2021,2022

./lib/isc/include/isc/list.h C
1997,1998,1999,2000,2001,2002,2004,2006,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/log.h C 1999,2000,2001,2002,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/magic.h C 1999,2000,2001,2004,2005,2006,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/md5.h C
2000,2001,2004,2005,2006,2007,2009,2010,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/mem.h C
1997,1998,1999,2000,2001,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/meminfo.h C 2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/msgcat.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/msgs.h C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/mutexblock.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/netaddr.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2009,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/netscope.h C 2002,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/ondestroy.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/os.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/parseint.h C 2001,2002,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/platform.h.in C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/pool.h C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/portset.h C 2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/print.h C
1999,2000,2001,2003,2004,2005,2006,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/queue.h C 2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/quota.h C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/radix.h C 2007,2008,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/random.h C 1999,2000,2001,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/ratelimiter.h C
1999,2000,2001,2002,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/refcount.h C 2001,2003,2004,2005,2006,2007,2009,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/regex.h C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/region.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/resource.h C 2000,2001,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/result.h C
1998,1999,2000,2001,2003,2004,2005,2006,2007,2008,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/resultclass.h C
1999,2000,2001,2004,2005,2006,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/rwlock.h C
1998,1999,2000,2001,2003,2004,2005,2006,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/safe.h C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/serial.h C 1999,2000,2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/sha1.h C 2000,2001,2004,2005,2006,2007,2009,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/sha2.h C 2005,2006,2007,2009,2014,2016,2017,2018,2019,2020,2021,2022

./lib/isc/include/isc/siphash.h C 2019,2020,2021,2022
./lib/isc/include/isc/sockaddr.h C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2009,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/socket.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2016,2018,2019,2020,2021,202
2
./lib/isc/include/isc/stats.h C 2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/stdatomic.h C 2018,2019,2020,2021,2022
./lib/isc/include/isc/stdio.h C 2000,2001,2004,2005,2006,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/stdlib.h C 2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/string.h C 2000,2001,2003,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/symtab.h C
1996,1997,1998,1999,2000,2001,2004,2005,2006,2007,2009,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/task.h C
1998,1999,2000,2001,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/isc/include/isc/taskpool.h C 1999,2000,2001,2004,2005,2006,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/timer.h C
1998,1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/tm.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/types.h C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/utf8.h C 2020,2021,2022
./lib/isc/include/isc/util.h C
1998,1999,2000,2001,2004,2005,2006,2007,2010,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/isc/version.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/isc/xml.h C 2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/include/pk11/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/include/pk11/README.site TXT.BRIEF 2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/pk11/constants.h C 2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/pk11/internal.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/pk11/pk11.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/pk11/result.h C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/include/pk11/site.h C 2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/pkcs11/Makefile.in MAKE 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/include/pkcs11/eddsa.h C 2017,2018,2019,2020,2021,2022
./lib/isc/include/pkcs11/pkcs11.h X 2014,2016,2018,2019,2020,2021,2022
./lib/isc/inet_aton.c C.PORTION
1996,1997,1998,1999,2000,2001,2004,2005,2007,2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/inet_ntop.c C 1996,1997,1998,1999,2000,2001,2004,2005,2007,2009,2016,2017,2018,2019,2020,2021,2022
./lib/isc/inet_pton.c C
1996,1997,1998,1999,2000,2001,2002,2003,2004,2005,2007,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/iterated_hash.c C 2006,2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/lex.c C
1998,1999,2000,2001,2002,2003,2004,2005,2007,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/lfsr.c C 1999,2000,2001,2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/lib.c C 1999,2000,2001,2004,2005,2007,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/log.c C

1999,2000,2001,2002,2003,2004,2005,2006,2007,2009,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/md5.c C 2000,2001,2004,2005,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/mem.c C
1997,1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/mips/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/mips/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/mips/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/mips/include/isc/atomic.h C 2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/mutexblock.c C 1999,2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/netaddr.c C
1999,2000,2001,2002,2004,2005,2007,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/netscope.c C 2002,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nls/Makefile.in MAKE 1999,2000,2001,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/nls/msgcat.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/noatomic/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/noatomic/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/noatomic/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/noatomic/include/isc/atomic.h C 2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/Makefile.in MAKE 2000,2001,2004,2007,2009,2010,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/condition.c C 2000,2001,2004,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/Makefile.in MAKE 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/isc/Makefile.in MAKE 2000,2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/isc/condition.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/isc/mutex.h C 2000,2001,2004,2007,2015,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/isc/once.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/include/isc/thread.h C 2000,2001,2004,2007,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/nothreads/mutex.c C 2000,2001,2004,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/nothreads/thread.c C 2000,2001,2004,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/ondestroy.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/parseint.c C 2001,2002,2003,2004,2005,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/pk11.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/pk11_result.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/pool.c C 2013,2015,2016,2018,2019,2020,2021,2022
./lib/isc/portset.c C 2008,2016,2017,2018,2019,2020,2021,2022
./lib/isc/powerpc/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/powerpc/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/powerpc/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/powerpc/include/isc/atomic.h C 2005,2007,2009,2011,2012,2016,2017,2018,2019,2020,2021,2022
./lib/isc/print.c C
1999,2000,2001,2003,2004,2005,2006,2007,2008,2010,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/pthreads/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/condition.c C 1998,1999,2000,2001,2004,2005,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/include/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/include/isc/Makefile.in MAKE
1998,1999,2000,2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/include/isc/condition.h C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022

./lib/isc/pthreads/include/isc/mutex.h C 1998,1999,2000,2001,2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/include/isc/once.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/include/isc/thread.h C
1998,1999,2000,2001,2004,2005,2007,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/pthreads/mutex.c C
2000,2001,2002,2004,2005,2007,2008,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/pthreads/thread.c C 2000,2001,2003,2004,2005,2007,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/quota.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/radix.c C 2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/random.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/ratelimiter.c C 1999,2000,2001,2002,2004,2005,2007,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/refcount.c C 2005,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/regex.c C 2013,2014.2015,2015,2016,2018,2019,2020,2021,2022
./lib/isc/region.c C 2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/result.c C
1998,1999,2000,2001,2003,2004,2005,2007,2008,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/rwlock.c C
1998,1999,2000,2001,2003,2004,2005,2007,2009,2011,2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/safe.c C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/serial.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/sha1.c C 2000,2001,2003,2004,2005,2007,2009,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/sha2.c C 2005,2006,2007,2009,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/siphash.c C 2019,2020,2021,2022
./lib/isc/sockaddr.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2010,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/isc/socket_api.c C 2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/sparc64/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/sparc64/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/sparc64/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/sparc64/include/isc/atomic.h C 2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/stats.c C 2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/string.c C
1999,2000,2001,2003,2004,2005,2006,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/strtoul.c C 2003,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/isc/symtab.c C
1996,1997,1998,1999,2000,2001,2004,2005,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/task.c C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,101
8,2018,2019,2020,2021,2022
./lib/isc/task_p.h C 2000,2001,2004,2005,2007,2009,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/taskpool.c C 1999,2000,2001,2004,2005,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/tests/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/isc/tests/Makefile.in MAKE 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/aes_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/tests/atomic_test.c C 2018,2019,2020,2021,2022
./lib/isc/tests/buffer_test.c C 2014,2015,2016,2018,2019,2020,2021,2022

./lib/isc/tests/counter_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/tests/errno_test.c C 2016,2018,2019,2020,2021,2022
./lib/isc/tests/file_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/tests/hash_test.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/heap_test.c C 2017,2018,2019,2020,2021,2022
./lib/isc/tests/ht_test.c C 2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/inet_ntop_test.c C 2017,2018,2019,2020,2021,2022
./lib/isc/tests/isctest.c C 2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/isctest.h C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/tests/lex_test.c C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/tests/mem_test.c C 2015,2016,2018,2019,2020,2021,2022
./lib/isc/tests/netaddr_test.c C 2016,2018,2019,2020,2021,2022
./lib/isc/tests/parse_test.c C 2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/tests/pool_test.c C 2013,2016,2018,2019,2020,2021,2022
./lib/isc/tests/print_test.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/tests/queue_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/tests/radix_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/tests/random_test.c C 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/regex_test.c C 2013,2015,2016,2018,2019,2020,2021,2022
./lib/isc/tests/result_test.c C 2015,2016,2018,2019,2020,2021,2022
./lib/isc/tests/safe_test.c C 2013,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/siphash_test.c C 2019,2020,2021,2022
./lib/isc/tests/sockaddr_test.c C 2012,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/socket_test.c C 2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/tests/symtab_test.c C 2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/tests/task_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/tests/taskpool_test.c C 2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/tests/testdata/file/keep X 2014,2018,2019,2020,2021,2022
./lib/isc/tests/time_test.c C 2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/tests/timer_test.c C 2018,2019,2020,2021,2022
./lib/isc/timer.c C
1998,1999,2000,2001,2002,2004,2005,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,202
1,2022
./lib/isc/timer_p.h C 2000,2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/tm.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/Makefile.in MAKE
1998,1999,2000,2001,2004,2007,2009,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/app.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2009,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/dir.c C 1999,2000,2001,2004,2005,2007,2008,2009,2011,2012,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/entropy.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2012,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/errno.c C 2016,2018,2019,2020,2021,2022
./lib/isc/unix/errno2result.c C 2000,2001,2002,2004,2005,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/isc/unix/errno2result.h C 2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/unix/file.c C
2000,2001,2002,2004,2005,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/fsaccess.c C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022

./lib/isc/unix/ifiter_getifaddrs.c C 2003,2004,2005,2007,2008,2009,2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/ifiter_ioctl.c C
1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/ifiter_sysctl.c C
1999,2000,2001,2002,2003,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/Makefile.in MAKE
1998,1999,2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/Makefile.in MAKE
1998,1999,2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/dir.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/keyboard.h C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/net.h C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/netdb.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/offset.h C 2000,2001,2004,2005,2007,2008,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/stat.h C 2004,2007,2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/stdtime.h C 1999,2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/strerror.h C 2001,2004,2005,2007,2008,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/syslog.h C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/isc/time.h C
1998,1999,2000,2001,2004,2005,2006,2007,2008,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/pkcs11/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/include/pkcs11/cryptoki.h X 2014,2018,2019,2020,2021,2022
./lib/isc/unix/interfaceiter.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2014,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/ipv6.c C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/keyboard.c C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/meminfo.c C 2015,2016,2018,2019,2020,2021,2022
./lib/isc/unix/net.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/unix/os.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/pk11_api.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/resource.c C 2000,2001,2004,2007,2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/unix/socket.c C
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,201
8,2019,2020,2021,2022
./lib/isc/unix/socket_p.h C 2000,2001,2004,2005,2007,2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/unix/stdio.c C 2000,2001,2004,2007,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isc/unix/stdtime.c C 1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/strerror.c C 2001,2004,2005,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isc/unix/syslog.c C 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/unix/time.c C
1998,1999,2000,2001,2003,2004,2005,2006,2007,2008,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/isc/utf8.c C 2020,2021,2022
./lib/isc/version.c C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/Makefile.in MAKE

1999,2000,2001,2004,2007,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/app.c C 1999,2000,2001,2004,2007,2009,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isc/win32/condition.c C 1998,1999,2000,2001,2004,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/dir.c C 1999,2000,2001,2004,2007,2008,2009,2011,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/entropy.c C 2000,2001,2002,2004,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/errno.c C 2016,2018,2019,2020,2021,2022
./lib/isc/win32/errno2result.c C 2000,2001,2002,2004,2005,2007,2008,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/errno2result.h C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/file.c C
2000,2001,2002,2004,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/fsaccess.c C 2000,2001,2002,2004,2007,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/include/Makefile.in MAKE 1999,2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/Makefile.in MAKE
1999,2000,2001,2004,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/atomic.h C 2013,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/bind_registry.h C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/bindevt.h C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/condition.h C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/dir.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/ipv6.h C
1999,2000,2001,2002,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/keyboard.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/mutex.h C 1998,1999,2000,2001,2004,2007,2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/net.h C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2012,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/netdb.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/ntgroups.h C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/ntpaths.h C 2000,2001,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/offset.h C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/once.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/platform.h.in C
2001,2004,2005,2007,2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/stat.h C 2000,2001,2003,2004,2007,2009,2012,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/stdtime.h C 1999,2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/strerror.h C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/syslog.h C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/thread.h C
1998,1999,2000,2001,2004,2005,2007,2009,2013,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/time.h C
1998,1999,2000,2001,2004,2006,2007,2008,2009,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/isc/win32os.h C 2002,2004,2007,2009,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/pkcs11/Makefile.in MAKE 2014,2016,2018,2019,2020,2021,2022
./lib/isc/win32/include/pkcs11/cryptoki.h X 2014,2018,2019,2020,2021,2022
./lib/isc/win32/interfaceiter.c C
1999,2000,2001,2004,2007,2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/ipv6.c C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/keyboard.c C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/libgen.h C 2009,2016,2018,2019,2020,2021,2022

./lib/isc/win32/libisc.def.exclude X 2015,2017,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.def.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.dsp.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.dsw X 2001,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.mak.in X
2001,2002,2003,2004,2005,2006,2007,2008,2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.vcxproj.filters.in X 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/libisc.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/isc/win32/meminfo.c C 2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/net.c C
1999,2000,2001,2002,2003,2004,2005,2007,2008,2009,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/win32/netdb.h C 2000,2001,2004,2006,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/ntgroups.c C 2001,2004,2006,2007,2009,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/ntpaths.c C 2001,2004,2007,2009,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/once.c C 1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/os.c C 2000,2001,2002,2004,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/pk11_api.c C 2014,2016,2018,2019,2020,2021,2022
./lib/isc/win32/resource.c C 2000,2001,2004,2007,2008,2016,2018,2019,2020,2021,2022
./lib/isc/win32/socket.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/stdio.c C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/stdtime.c C 1999,2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isc/win32/strerror.c C 2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/syslog.c C 2001,2002,2003,2004,2007,2014,2016,2018,2019,2020,2021,2022
./lib/isc/win32/syslog.h C 2001,2002,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/thread.c C 1998,1999,2000,2001,2004,2005,2007,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/time.c C
1998,1999,2000,2001,2003,2004,2006,2007,2008,2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/win32/unistd.h C 2000,2001,2004,2007,2008,2009,2016,2018,2019,2020,2021,2022
./lib/isc/win32/version.c C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isc/win32/win32os.c C 2002,2004,2007,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isc/x86_32/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/x86_32/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/x86_32/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/x86_32/include/isc/atomic.h C 2005,2007,2008,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isc/x86_64/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/x86_64/include/Makefile.in MAKE 2007,2012,2016,2018,2019,2020,2021,2022
./lib/isc/x86_64/include/isc/Makefile.in MAKE 2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isc/x86_64/include/isc/atomic.h C 2005,2007,2008,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccc/Kyuafile X 2018,2019,2020,2021,2022
./lib/isccc/Makefile.in MAKE 2001,2003,2004,2007,2009,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022

./lib/isccc/alist.c C.NOM 2001,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/api X 2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccc/base64.c C.NOM 2001,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/isccc/cc.c C.NOM
2001,2002,2003,2004,2005,2006,2007,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/ccmsg.c C.NOM 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/Makefile.in MAKE 2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/alist.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/base64.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/cc.h C.NOM 2001,2004,2005,2006,2007,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/ccmsg.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/events.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/lib.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/result.h C.NOM 2001,2003,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/sexpr.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/symtab.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/symtype.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/types.h C.NOM 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/util.h C.NOM 2001,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/isccc/include/isccc/version.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/lib.c C.NOM 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/result.c C.NOM 2001,2003,2004,2005,2007,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/sexpr.c C.NOM 2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/symtab.c C.NOM 2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/tests/Kyuafile X 2018,2019,2020,2021,2022
./lib/isccc/tests/Makefile.in MAKE 2018,2019,2020,2021,2022
./lib/isccc/tests/result_test.c C 2018,2019,2020,2021,2022
./lib/isccc/version.c C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.def X 2001,2016,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.dsp.in X 2001,2004,2005,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.dsw X 2001,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.mak.in X 2001,2002,2004,2005,2006,2009,2011,2013,2014,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.vcxproj.filters.in X 2013,2015,2016,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccc/win32/libisccc.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/isccc/win32/version.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isccfg/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/isccfg/Makefile.in MAKE
2001,2002,2003,2004,2005,2007,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccfg/aclconf.c C
1999,2000,2001,2002,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/isccfg/api X 2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccfg/dnsconf.c C 2009,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/Makefile.in MAKE

2001,2002,2004,2005,2007,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/aclconf.h C
1999,2000,2001,2004,2005,2006,2007,2010,2011,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/cfg.h C
2000,2001,2002,2004,2005,2006,2007,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/dnsconf.h C 2009,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/grammar.h C
2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/log.h C 2001,2004,2005,2006,2007,2009,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/namedconf.h C
2002,2004,2005,2006,2007,2009,2010,2014,2016,2018,2019,2020,2021,2022
./lib/isccfg/include/isccfg/version.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccfg/log.c C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/isccfg/namedconf.c C
2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,202
2
./lib/isccfg/parser.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,202
0,2021,2022
./lib/isccfg/tests/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/isccfg/tests/Makefile.in MAKE 2016,2018,2019,2020,2021,2022
./lib/isccfg/tests/parser_test.c C 2016,2018,2019,2020,2021,2022
./lib/isccfg/version.c C 1998,1999,2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/isccfg/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.def X 2001,2002,2005,2009,2010,2011,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.dsp.in X 2001,2002,2004,2005,2009,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.dsw X 2001,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.mak.in X 2001,2002,2004,2005,2006,2009,2011,2013,2014,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.vcxproj.filters.in X 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/isccfg/win32/libisccfg.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/isccfg/win32/version.c C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/lwres/Makefile.in MAKE 2000,2001,2004,2005,2007,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/lwres/api X 2000,2001,2006,2008,2009,2010,2011,2012,2013,2014,2015,2017,2018,2019,2020,2021,2022
./lib/lwres/assert_p.h C 2000,2001,2004,2005,2007,2011,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/compat.c C 2003,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/context.c C 2000,2001,2003,2004,2005,2007,2008,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/context_p.h C 2000,2001,2004,2005,2007,2008,2016,2018,2019,2020,2021,2022
./lib/lwres/gai_strerror.c C 2000,2001,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/getaddrinfo.c C.BSDI
1999,2000,2001,2004,2005,2006,2007,2008,2012,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/gethost.c C 2000,2001,2004,2005,2007,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/getipnode.c C
1999,2000,2001,2002,2003,2004,2005,2007,2009,2012,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/getnameinfo.c C.PORTION
1999,2000,2001,2003,2004,2005,2007,2011,2012,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/getrrset.c C 2000,2001,2002,2003,2004,2005,2007,2012,2014,2016,2018,2019,2020,2021,2022

./lib/lwres/herror.c C.PORTION
2000,2001,2003,2004,2005,2007,2011,2012,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/include/Makefile.in MAKE 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/Makefile.in MAKE 2000,2001,2004,2007,2012,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/context.h C 2000,2001,2004,2005,2006,2007,2008,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/int.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/ipv6.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/lang.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/list.h C 1997,1998,1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/lwbuffer.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/lwpacket.h C 1999,2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/lwres.h C 2000,2001,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/netdb.h.in C 2000,2001,2004,2005,2007,2009,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/platform.h.in C 2000,2001,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/result.h C 2000,2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/stdlib.h C 2003,2004,2005,2006,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/string.h C 2014,2016,2018,2019,2020,2021,2022
./lib/lwres/include/lwres/version.h C 2001,2004,2005,2006,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/lwbuffer.c C 2000,2001,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/lwconfig.c C
2000,2001,2002,2003,2004,2005,2006,2007,2008,2011,2012,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/lwinetaton.c C.PORTION
1996,1997,1998,1999,2000,2001,2003,2004,2005,2007,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/lwinetntop.c C 1996,1997,1998,1999,2000,2001,2003,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/lwinetpton.c C
1996,1997,1998,1999,2000,2001,2004,2005,2007,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./lib/lwres/lwpacket.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/lwres_gabn.c C 2000,2001,2004,2005,2007,2013,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/lwres_gnba.c C 2000,2001,2002,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/lwres_grbn.c C 2000,2001,2004,2005,2007,2013,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/lwres_noop.c C 2000,2001,2004,2005,2007,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/lwresutil.c C 2000,2001,2004,2005,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/man/Makefile.in MAKE 2001,2004,2007,2012,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres.3 MAN DOCBOOK
./lib/lwres/man/lwres.docbook SGML 2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres.html HTML DOCBOOK
./lib/lwres/man/lwres_buffer.3 MAN DOCBOOK
./lib/lwres/man/lwres_buffer.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_buffer.html HTML DOCBOOK
./lib/lwres/man/lwres_config.3 MAN DOCBOOK
./lib/lwres/man/lwres_config.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_config.html HTML DOCBOOK
./lib/lwres/man/lwres_context.3 MAN DOCBOOK
./lib/lwres/man/lwres_context.docbook SGML
2000,2001,2003,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_context.html HTML DOCBOOK

./lib/lwres/man/lwres_gabn.3 MAN DOCBOOK
./lib/lwres/man/lwres_gabn.docbook SGML 2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_gabn.html HTML DOCBOOK
./lib/lwres/man/lwres_gai_strerror.3 MAN DOCBOOK
./lib/lwres/man/lwres_gai_strerror.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_gai_strerror.html HTML DOCBOOK
./lib/lwres/man/lwres_getaddrinfo.3 MAN DOCBOOK
./lib/lwres/man/lwres_getaddrinfo.docbook SGML
2000,2001,2003,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_getaddrinfo.html HTML DOCBOOK
./lib/lwres/man/lwres_gethostent.3 MAN DOCBOOK
./lib/lwres/man/lwres_gethostent.docbook SGML 2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_gethostent.html HTML DOCBOOK
./lib/lwres/man/lwres_getipnode.3 MAN DOCBOOK
./lib/lwres/man/lwres_getipnode.docbook SGML
2000,2001,2003,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_getipnode.html HTML DOCBOOK
./lib/lwres/man/lwres_getnameinfo.3 MAN DOCBOOK
./lib/lwres/man/lwres_getnameinfo.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_getnameinfo.html HTML DOCBOOK
./lib/lwres/man/lwres_getrrsetbyname.3 MAN DOCBOOK
./lib/lwres/man/lwres_getrrsetbyname.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_getrrsetbyname.html HTML DOCBOOK
./lib/lwres/man/lwres_gnba.3 MAN DOCBOOK
./lib/lwres/man/lwres_gnba.docbook SGML 2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_gnba.html HTML DOCBOOK
./lib/lwres/man/lwres_hstrerror.3 MAN DOCBOOK
./lib/lwres/man/lwres_hstrerror.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_hstrerror.html HTML DOCBOOK
./lib/lwres/man/lwres_inetntop.3 MAN DOCBOOK
./lib/lwres/man/lwres_inetntop.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_inetntop.html HTML DOCBOOK
./lib/lwres/man/lwres_noop.3 MAN DOCBOOK
./lib/lwres/man/lwres_noop.docbook SGML 2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_noop.html HTML DOCBOOK
./lib/lwres/man/lwres_packet.3 MAN DOCBOOK
./lib/lwres/man/lwres_packet.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_packet.html HTML DOCBOOK
./lib/lwres/man/lwres_resutil.3 MAN DOCBOOK
./lib/lwres/man/lwres_resutil.docbook SGML
2000,2001,2004,2005,2007,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/man/lwres_resutil.html HTML DOCBOOK

./lib/lwres/man/resolver.5 MAN 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/print.c C
1999,2000,2001,2003,2004,2005,2007,2011,2012,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/lwres/print_p.h C 1999,2000,2001,2003,2004,2007,2010,2016,2018,2019,2020,2021,2022
./lib/lwres/tests/Kyuafile X 2017,2018,2019,2020,2021,2022
./lib/lwres/tests/Makefile.in MAKE 2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/tests/config_test.c C 2014,2016,2018,2019,2020,2021,2022
./lib/lwres/tests/testdata/link-local.conf X 2014,2018,2019,2020,2021,2022
./lib/lwres/unix/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/unix/include/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/unix/include/lwres/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/unix/include/lwres/net.h C 2000,2001,2002,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/unreachable_p.h C 2018,2019,2020,2021,2022
./lib/lwres/version.c C 2000,2001,2004,2005,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/DLLMain.c C 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/include/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/include/lwres/Makefile.in MAKE 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/include/lwres/net.h C 2000,2001,2004,2007,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/include/lwres/netdb.h C 2000,2001,2004,2006,2007,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/include/lwres/platform.h C 2000,2001,2004,2007,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.def X 2001,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.dsp.in X 2001,2002,2004,2005,2007,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.dsw X 2001,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.mak.in X
2001,2002,2004,2005,2006,2007,2011,2013,2014,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.vcxproj.filters.in X 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.vcxproj.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/lwres/win32/liblwres.vcxproj.user X 2013,2018,2019,2020,2021,2022
./lib/lwres/win32/lwconfig.c C 2002,2004,2006,2007,2013,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/socket.c C 2007,2015,2016,2018,2019,2020,2021,2022
./lib/lwres/win32/version.c C 1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/samples/Makefile-postinstall.in MAKE 2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./lib/samples/Makefile.in MAKE 2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/nsprobe.c C 2009,2010,2011,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/samples/resolve.c C 2009,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/rootkey.sh SH 2013,2016,2018,2019,2020,2021,2022
./lib/samples/sample-async.c C 2009,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/samples/sample-gai.c C 2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/samples/sample-request.c C 2009,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/samples/sample-update.c C 2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/async.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/async.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/async.mak.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/async.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/async.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/async.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/gai.dsp.in X 2014,2018,2019,2020,2021,2022

./lib/samples/win32/gai.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/gai.mak.in X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/gai.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/gai.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/gai.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.mak.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/nsprobe.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/request.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/request.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/request.mak.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/request.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/request.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/request.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.mak.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/resolve.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/update.dsp.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/update.dsw X 2014,2018,2019,2020,2021,2022
./lib/samples/win32/update.mak.in X 2014,2016,2018,2019,2020,2021,2022
./lib/samples/win32/update.vcxproj.filters.in X 2014,2015,2018,2019,2020,2021,2022
./lib/samples/win32/update.vcxproj.in X 2014,2015,2016,2017,2018,2019,2020,2021,2022
./lib/samples/win32/update.vcxproj.user X 2014,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.c C 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.dsp.in X 2001,2013,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.dsw X 2001,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.mak.in X 2001,2006,2013,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.mc MC 2001,2004,2007,2016,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.vcxproj.filters.in X 2013,2015,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.vcxproj.in X 2013,2014,2015,2016,2018,2019,2020,2021,2022
./lib/win32/bindevt/bindevt.vcxproj.user X 2013,2018,2019,2020,2021,2022
./libtool.m4/ax_restore_flags.m4 X 2019,2020,2021,2022
./libtool.m4/ax_save_flags.m4 X 2019,2020,2021,2022
./libtool.m4/compat.m4 X 2019,2020,2021,2022
./libtool.m4/libtool.m4 X 2012,2018,2019,2020,2021,2022
./libtool.m4/ltoptions.m4 X 2012,2018,2019,2020,2021,2022
./libtool.m4/ltsugar.m4 X 2012,2018,2019,2020,2021,2022
./libtool.m4/ltversion.m4 X 2012,2018,2019,2020,2021,2022
./libtool.m4/lt~obsolete.m4 X 2012,2018,2019,2020,2021,2022
./ltmain.sh X 1999,2000,2001,2003,2004,2006,2009,2012,2018,2019,2020,2021,2022
./make/Makefile.in MAKE 1998,1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./make/includes.in MAKE 1999,2000,2001,2004,2005,2007,2012,2014,2016,2018,2019,2020,2021,2022

./make/mkdep.in X 1999,2000,2001,2006,2011,2014,2018,2019,2020,2021,2022
./make/rules.in MAKE
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./mkinstalldirs X 1996,2018,2019,2020,2021,2022
./unit/README X 2011,2013,2018,2019,2020,2021,2022
./unit/gdb X 2020,2021,2022
./unit/unittest.sh.in X 2011,2012,2015,2018,2019,2020,2021,2022
./util/COPYRIGHT X 1996,1997,1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.BRIEF X 1996,1997,1998,1999,2000,2001,2004,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.BSDI X 2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.NAI X 1996,1997,1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.NOM X 2001,2004,2007,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.PORTION X 1996,1997,1998,1999,2000,2001,2004,2007,2016,2018,2019,2020,2021,2022
./util/COPYRIGHT.TOP X 2018,2019,2020,2021,2022
./util/altbuild.sh SH 2000,2001,2002,2004,2007,2008,2012,2016,2018,2019,2020,2021,2022
./util/api-checker.sh SH 2020,2021,2022
./util/bindkeys.pl PERL 2009,2010,2011,2012,2014,2016,2017,2018,2019,2020,2021,2022
./util/branchsync.sh SH 2013,2016,2018,2019,2020,2021,2022
./util/check-ans-prereq.sh SH 2019,2020,2021,2022
./util/check-categories.sh SH 2015,2016,2017,2018,2019,2020,2021,2022
./util/check-changes PERL 2002,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/check-cocci X 2018,2019,2020,2021,2022
./util/check-includes.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/check-instincludes.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/check-line-length.sh SH 2021,2022
./util/check-make-install.in SH 2020,2021,2022
./util/check-pullups.pl PERL 2001,2002,2003,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/check-sources.pl PERL 2000,2001,2004,2007,2012,2013,2016,2018,2019,2020,2021,2022
./util/check-win32util-configure SH 2019,2020,2021,2022
./util/checklibs.sh SH 2017,2018,2019,2020,2021,2022
./util/commit-arm.sh SH 2012,2016,2018,2019,2020,2021,2022
./util/copyrights X
1998,1999,2000,2001,2002,2003,2004,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./util/git-replay-merge.sh SH 2018,2019,2020,2021,2022
./util/kit.sh SH
2000,2001,2002,2003,2004,2007,2008,2009,2010,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./util/mandoc2docbook.pl PERL 2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/mdnbuildtest.sh SH 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/memleak.pl PERL 1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/merge_copyrights PERL
1998,1999,2000,2001,2003,2004,2005,2006,2007,2009,2010,2011,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./util/mksymtbl.pl PERL 2009,2012,2016,2018,2019,2020,2021,2022
./util/models.c C 2015,2016,2018,2019,2020,2021,2022
./util/nanny.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/new-func PERL 2005,2007,2012,2016,2018,2019,2020,2021,2022

./util/nt-kit SH 1999,2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/pairwise-testing.sh SH 2020,2021,2022
./util/parse_tsan.py PYTHON-BIN 2020,2021,2022
./util/spacewhack.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/tabify-changes SH 2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/update-drafts.pl PERL 2000,2001,2004,2007,2012,2016,2018,2019,2020,2021,2022
./util/update_branches PERL 2005,2007,2012,2016,2018,2019,2020,2021,2022
./util/update_copyrights PERL
1998,1999,2000,2001,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./util/xc SH 2012,2013,2016,2018,2019,2020,2021,2022
./util/xmllint-html.sh SH 2021,2022
./version X
1998,1999,2000,2001,2003,2005,2006,2007,2008,2009,2010,2011,2012,2013,2014,2016,2017,2018,2019,2020,2021,2022
./win32utils/Configure PERL 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./win32utils/GeoIP.diff X 2013,2018,2019,2020,2021,2022
./win32utils/bind9.sln.in X 2013,2014,2015,2016,2017,2018,2019,2020,2021,2022
./win32utils/index.html HTML 2006,2007,2008,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BINDBuild.dsw.in X
2001,2005,2006,2008,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildAll.bat.in BAT
2001,2002,2004,2005,2006,2007,2008,2009,2010,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildPost.bat.in BAT 2005,2006,2013,2014,2016,2018,2019,2020,2021,2022
./win32utils/legacy/BuildSetup.bat.in BAT
2001,2002,2004,2005,2006,2007,2008,2009,2010,2012,2013,2014,2015,2016,2018,2019,2020,2021,2022
./win32utils/legacy/makedefs.pl PERL 2001,2004,2007,2009,2012,2013,2014,2016,2018,2019,2020,2021,2022
./win32utils/legacy/win32-build.txt TXT.BRIEF 2001,2002,2004,2005,2008,2009,2012,2013,2014,2016,2018,2019

```
<!--
- Copyright (C) Internet Systems Consortium, Inc. ("ISC")
-
- This Source Code Form is subject to the terms of the Mozilla Public
- License, v. 2.0. If a copy of the MPL was not distributed with this
- file, you can obtain one at https://mozilla.org/MPL/2.0/.
-
- See the COPYRIGHT file distributed with this work for additional
- information regarding copyright ownership.
-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
```

```
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
     This Source Code Form is subject to the terms of the Mozilla Public
     License, v. 2.0. If a copy of the MPL was not distributed with this
     file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="db:year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="db:holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
-->
Portions Copyright (C) Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.
```

See the COPYRIGHT file distributed with this work for additional
information regarding copyright ownership.

Portions Copyright (C) @NOMYEARS@ Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NOMINUM DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY
SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (C) Internet Systems Consortium, Inc. ("ISC")

This Source Code Form is subject to the terms of the Mozilla Public
License, v. 2.0. If a copy of the MPL was not distributed with this
file, you can obtain one at https://mozilla.org/MPL/2.0/.

See the COPYRIGHT file distributed with this work for additional
information regarding copyright ownership.

This code is derived from software contributed to ISC by
Berkeley Software Design, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND BERKELEY SOFTWARE DESIGN, INC.
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.287 libksba 1.3.3

1.287.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

KSBA is distributed under mixed GPL and LGPL licenses. Please see the file AUTHOR for details. The text of the used licenses can be found in the files:

COPYING.LGPLv3
COPYING.GPLv3
COPYING.GPLv2

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data

and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying
Corresponding Source.

1) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (a) uses at run time
a copy of the Library already present on the user's computer
system, and (b) will operate properly with a modified version
of the Library that is interface-compatible with the Linked
Version.

e) Provide Installation Information, but only if you would otherwise
be required to provide such information under section 6 of the
GNU GPL, and only to the extent that such information is
necessary to install and execute a modified version of the
Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

1.288 structured-merge-diff 4.2.1

1.288.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go

writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.289 wireshark 3.2.18

1.289.1 Available under license :

```
/* extcap.c
*
* Routines for extcap external capture
* Copyright 2013, Mike Ryan <mikeryan@lacklustre.net>
*
* Wireshark - Network traffic analyzer
* By Gerald Combs <gerald@wireshark.org>
* Copyright 1998 Gerald Combs
*
* SPDX-License-Identifier: GPL-2.0-or-later
```

*/

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's

users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted

by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

This text consists of three parts:

Part I: Some remarks regarding the license given in
Part II: The actual license that covers Wireshark.
Part III: Other applicable licenses.

When in doubt: Part II/III is the legally binding part, Part I is just
there to make it easier for people that are not familiar with the GPLv2.

Part I:

Wireshark is distributed under the GNU GPLv2. There are no restrictions
on its use. There are restrictions on its distribution in source or
binary form.

Most parts of Wireshark are covered by a "GPL version 2 or later" license.
Some files are covered by different licenses that are compatible with
the GPLv2.

As a notable exception, some utilities distributed with the Wireshark source are
covered by other licenses that are not themselves directly compatible with the
GPLv2. This is OK, as only the tools themselves are licensed this way, the
output of the tools is not considered a derived work, and so can be safely
licensed for Wireshark's use. An incomplete selection of these tools includes:
- the pidl utility (tools/pidl) is licensed under the GPLv3+.

Parts of Wireshark can be built and distributed as libraries. These
parts are still covered by the GPL, and NOT by the Lesser General Public
License or any other license.

If you integrate all or part of Wireshark into your own application, then
that application must be released under a license compatible with the GPL.

The full text of the GNU GPL and some of the other applicable licenses follows.

Part II:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

Part III:

Parts of this software are licensed as follows

Copyright (c) 1988, 1992, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Markus Friedl. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 2003 Endace Technology Ltd, Hamilton, New Zealand.
All rights reserved.

This software and documentation has been developed by Endace Technology Ltd.
along with the DAG PCI network capture cards. For further information please
visit http://www.endace.com/.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. The name of Endace Technology Ltd may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY ENDACE TECHNOLOGY LTD ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL ENDACE TECHNOLOGY LTD BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1997, 1999 Hellmuth Michaelis. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.290 openssl 1.0.2zh

1.290.1 Available under license :

This software is copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
  Software Foundation; either version 1, or (at your option) any
  later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users
at the mercy of those companies. By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not
price. Specifically, the General Public License is designed to make

sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals

of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2013 by Mark Jason Dominus <mjd@cpan.org>.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

1.291 kexec-tools 2.0.2

1.291.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.292 x-sys 0.9.0

1.292.1 Available under license :

Copyright (c) 2013 unformatt

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.293 lapack 1.15.1

1.293.1 Available under license :

Copyright (c) 2012, Intel Corp.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of Intel Corporation nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1992-2022 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.
Copyright (c) 2000-2022 The University of California Berkeley. All rights reserved.
Copyright (c) 2006-2022 The University of Colorado Denver. All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.294 scram 1.0.2

1.294.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.295 time 1.7

1.295.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.296 tcl 8.4.6

1.296.1 Available under license :

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This software is copyrighted by Kevin B. Kenny, and by other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal

Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Lucent Technologies disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall Lucent be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

==========

This software is copyrighted by Slawomir Cygan, and by other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE

IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation,
and other parties. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the

software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other
parties. The following terms apply to all files associated with the
software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by

this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version written by Lucent Technologies, Inc., and other parties see that copyright below.

The rewritten version is copyrighted with BSD license or Public Domain at your choice.

The original version of this software is copyrighted by Lucent Technologies, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,

INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState Corporation and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights"

in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

1.297 libtasn 2.5

1.297.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General

Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library

specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If

the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of

copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product

(including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,

doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent

that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express

agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the

publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover

Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License

give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright

resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to

60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.

@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.298 otel-sdk 1.4.0

1.298.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
#   Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.
```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
///////////////////////////////////////////////////////////////////////////////
```

Codegen template in t_html_generator.h

```
* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.299 keypoint-pngencoder 0.7.2

1.299.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license

restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by

the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.300 structured-merge-diff 4.2.3

1.300.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

The following files were ported to Go from C files of libyaml, and thus are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go

writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.301 sysfsutils 1.2.0

1.301.1 Available under license :

The GNU General Public License (GPL)
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is

interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the

source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any

particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY

FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

GNU Lesser Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more

lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which

has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an

application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete

corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the

operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not

distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we

sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

The commands and utilities under the "test" directory are licensed under the GNU General Public License (GPL) Version 2, June 1991. The full text of the GPL is located at:

sysfsutils/cmd/GPL

The sysfs library is licensed under the GNU Lesser Public License (LGPL) Version 2.1, February 1999. The full text of the LGPL is located at:

sysfsutils/lib/LGPL

1.302 log-rotate 3.14.0

1.302.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.303 x-text 0.7.0

1.303.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.304 go-uber-org-multierr 1.6.0

1.304.1 Available under license :

Copyright (c) 2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.305 ftpd 1.9.4

1.305.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or

whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of

pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item

VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections

and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material

copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all

sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions

of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this

License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and

license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.''@: line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation

into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall

be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does

not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a

covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.306 otel-exporters-otlp-otlpmetric 0.27.0

1.306.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift

Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
Copying and distribution of this file, with or without
modification, are permitted in any medium without royalty provided
the copyright notice and this notice are preserved.

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
   json_parse.js
   2015-05-02
   Public Domain.
   NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.307 colorama 0.4.4

1.307.1 Available under license :

Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors
 may be used to endorse or promote products derived from this software without

specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.308 yaml 1.2.0

1.308.1 Available under license :

Copyright 2018 Eemeli Aro <eemeli@gmail.com>

Permission to use, copy, modify, and/or distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.309 flexnet-publisher 10.8.0.1

1.309.1 Available under license :

```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
```

```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301477.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
ref: refs/remotes/origin/skywalker_com
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c
6317bf6b870ced4150254b3da3f7958fa95f2ae2
6ab876a0dbcfa2c947e799e27a35dca800739608  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15301477
8896cdb01181e19772ad14a9d0de2b3f28f2682b  branch 'a1_5_id_integration' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8f10896fc0334880b5087cc6088e9c4f8a6a73d3  branch 'a521_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
d487f33eb2102acbc640c9ea6ec7a40882e1f8b6  branch 'ace_simplified_cli_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b093e65c87a2abc5bfe2ee4ad9e229908e0e55f8  branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-
15301477
b07c47ccaea686961b4ee57677c4bebbbd811f2c  branch 'adelaide_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
e954cf302359cd4acefbce3b84b9990158199dfd  branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
f326f813574c3da49ae8a3f89a8446eb4b3d2486  branch 'airstrike_platform_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2195b323eecc3f196ada64c240ef84684b32fea7  branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0050870dbdd949304bcfe0268531912513734997  branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-
15301477
9c65861c4ab7e1efcb416bb9c8f7406959477dd4  branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-
15301477
bb5afdef70040834fc178bf3fcb593c69515f8f1  branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0f602bdead9c2259d52eeffc2593b15450b61792  branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0f1547327e104204615fe43d0348ab8148479e2d  branch 'antares' of https://dscm.esl.cisco.com/git/153/comp-
15301477
7877f233e67d7e24a8cb53a828e333d07570dbc2  branch 'aons_foundation_fea' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6ebd7214969808a700706329cf738f0646b9ee58  branch 'aons_foundation_phase2' of
https://dscm.esl.cisco.com/git/153/comp-15301477
08219554cd97039da69a55d32bd809892637f7fb  branch 'aptos' of https://dscm.esl.cisco.com/git/153/comp-15301477
b7097d6d2a3815697fc137cf7ca60684da30fd6f  branch 'aptos_plus' of https://dscm.esl.cisco.com/git/153/comp-
```

15301477
1bfa22e6dea60ae800d649fdc4b2ff15c7f77bff branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5260a21f872278adc1dbed901a8d6a49ae1486f branch 'ashfield_1121' of https://dscm.esl.cisco.com/git/153/comp-15301477
34433fb6e371ec70daf3d1a481e341ce8e9e97d0 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e4c7a6b949ac6407a189139a6d41245476210ce3 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f4a38d53f8d849e5b85b0f01523f2ad6c4a2aa0 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c46be377d07dd19571eeaef6c3b1e83aca81e57 branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f333b2d14aa47ab8834341ae0dfba672b36265cd branch 'av1_upgrade' of https://dscm.esl.cisco.com/git/153/comp-15301477
dd27fd0974585a29e690a2ba3b5bd57a3f4944d8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301477
319ea1611c7565dedb2677935258612b7aaca0a2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e4b5bff58108a87942972d265dfaf9e33525ebb branch 'avalon_nx_rel_8_1_0_107_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
931c705241e06332558d9afdb68be442e791030c branch 'avalon_nx_rel_8_1_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1245ed313765b02b842e7592109c9cd7cfcac28 branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6bef7cfac35eb904ef271b68c5e5fa8e84a1c7c branch 'avalon_nx_rel_8_1_1b_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
4f516679c885b043936c61c4eff68859e073a79e branch 'avalon_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4783ccc0899913b8e22785e1d1f1b0e57ef0aa00 branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f96018f84915cb2bc69599ea67b9bf57ddd0f797 branch 'baberuth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd6204ed2530355dee80e2258e8daeb3f2b474c6 branch 'bahamas' of https://dscm.esl.cisco.com/git/153/comp-15301477
44908fc63ad2ffbd72de27340b787e22577dabb0 branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2eb57e1c19ea166a9b6ccec70086db61958a95 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
cf9d15d56719f3e6f6a704ef023066bdb8abec01 branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0652ee0b92aac9b3c61402df925a2d98e67a8f99 branch 'balboa_dy' of https://dscm.esl.cisco.com/git/153/comp-15301477
44e9f04f55572c9925ba78e36ba600d4f59b3c9d branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee937fa47c1c92ac40c1d3a490745970cebd3d99 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da4163e95ce3bcc0614abc50b8609b38bafec97 branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301477
bedf8d1ed45b1debfe88c6627e8b39d72533d95a branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477

b48812dfe7c85a00b87b4b0e87d99dea6592e913 branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0241151508dcebfde7d326f2cb859bf1dfb71db branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a3b55b73c1fc7ac3d93a365892ef7d118a7c7e62 branch 'beverlyhills_rel_8_2_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
7e99a907e75868497e15e1b06cf31c5954b0fcb8 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
682ff19533052c65140d29101270b9372bdb5069 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8b424126d907c6ba095399c48ac88245225626d2 branch 'bili_box' of https://dscm.esl.cisco.com/git/153/comp-15301477
2513bcf73a00f514997a9ae834494420c792f6f4 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301477
9486ac87454e736a90e8c2b14cbea3b6b0648dc8 branch 'bl_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
d947fe20f95cb1ab4f9205b96f7cebe0c292846e branch 'blackbird' of https://dscm.esl.cisco.com/git/153/comp-15301477
92ef0497085830ac40914ac1829a9a3848c3d7ef branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301477
7dbdc630ef5412eda3f1beff5d039f6915b56061 branch 'bondi_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1673d738ad7c8762bd07a84ba88375d82696fb66 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d19c1d3d016f6ec9185dddcf6454c028b74bc2d branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
936af1595c05c3c75ae9afe763278fa4afa8dc88 branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b01af2f5f480e66672ec37ad6a7614273f6eec0 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301477
52791a4cf4c8cd78154c86aafef596b5fbd757f4 branch 'bronte_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ce23806ad6d7cf9e0fba73fbdbda8993c23da67 branch 'bronte_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0d826fdb123d99d5441f1f639945edd56c477719 branch 'bronte_fretta_sw' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b6ad039ea2c3c632da94b362e7fbedeb44a21ff branch 'bronte_lacdev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e64cf6b58d38e99fc4dc37515e5d104183782347 branch 'bronteplus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f334748e52041b5604429bd6102d8e2acb7e9868 branch 'bronteplus_rs' of https://dscm.esl.cisco.com/git/153/comp-15301477
7d78dc572033fb20396048dfe87586938f9b0fb0 branch 'bronteplus_sh' of https://dscm.esl.cisco.com/git/153/comp-15301477
30014ead2cd993df578ce9600066ff5a6b226d0f branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4cd9d780d09769d465df3d24352078f5ce38442c branch 'ca_feature' of https://dscm.esl.cisco.com/git/153/comp-15301477
8149d77ad5179c3426089b84bb5f8400664310d1 branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301477
48b9c5f31e56d268430576a782704ec74987c15f branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-

15301477
083cdacde685c9a9af51d28f38bb8127a5236f90 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc42fafb07c54e8789df772dd209e2a6638850ea branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a30fe73262ed457580436125128add5d4843a8d branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e03fa4391b544cdcdedf44c3e89e186a06fd23d branch 'camden_3k' of https://dscm.esl.cisco.com/git/153/comp-15301477
7c4d41b229731b516a83be9eb71f35229df750f5 branch 'camden_475_eft' of https://dscm.esl.cisco.com/git/153/comp-15301477
b594946182ff7c88b152ea6066bf242634b051b2 branch 'camden_nxosv' of https://dscm.esl.cisco.com/git/153/comp-15301477
b2d9093265e263f42ca478d455c345abf9c10714 branch 'camden_nxosv_proto' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e81abd60f2e223153faba2c5e8a71bd8b40b1a7 branch 'capitola_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
eb57dfe995f0b0b5e8721b79c7d20bb3cb530f2f branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f46f59e50d734dfd7a2b8043a2689a062303ff8 branch 'cayman' of https://dscm.esl.cisco.com/git/153/comp-15301477
d341d6a53e7a65eb50a708e77f3dc0d2e24b1da0 branch 'cayman_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
aa8669c3ca046840bab34a1f9bf3a9135b961145 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301477
def92020681f75a04a6235187fb04a3dcd66f976 branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebba57495e9f6f3b5aa424540aa81e8f7ff1679 branch 'clapton' of https://dscm.esl.cisco.com/git/153/comp-15301477
65b5c74215155dce815fb034afe7f2df8c3e00cd branch 'clapton_kernel' of https://dscm.esl.cisco.com/git/153/comp-15301477
3fb6a307d774d578a71cf955eaeeb2df37288243 branch 'collapse_proj_628_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dcd5023ad53ab416bb20316229c859624a7c8cb0 branch 'conv_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
1512d9c01d974e8ccd2a7883228bb10eb6bb0d38 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
492e7bd792b9881d77a7e0f3423f81d34e8cf7f7 branch 'cozumel1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
1a01a34ce6254a8e8d4b0d5b2aadca0968241b6b branch 'cppa_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
e87131b03077dffb4d122583b4d71565388e60d6 branch 'cristal' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29ca5d24378bb817330a87856c5aacc0c21a7a7 branch 'croxley_a' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4a60e403fbb837dc08f5a286ad263603c7d6d66 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
96e95d78c660aa8433cb6efa0816d509e4cfd7b4 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301477

244769f484b6188f90bb55859aea9c5e7bef8e43 branch 'cupertino_rel_8_3_0_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
455c6d386ec98c1f6171e644ff9268baaffb1ce5 branch 'cupertino_rel_8_3_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
802c6b2b6057ed647bf60a3121dba66c93bbd8db branch 'cupertino_rel_8_3_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
888e36ae99ab4e2c879a82093e0c0a02381e3b58 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e273530b0c54f1ff4abda456fc110e18c017325 branch 'd_plus-cpa-dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2fbf2741f6c66d25eee87631f9a41d6b6a512799 branch 'd_plus_pb' of https://dscm.esl.cisco.com/git/153/comp-15301477
91f2f0d91880b752feb22d0d3dc377ea6dfbf2e9 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301477
250b0e199422b281c7b36b2adc4c3145554ba3e5 branch 'daox_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc37f4b399649a13d544235a53caf541275eb88c branch 'dartford' of https://dscm.esl.cisco.com/git/153/comp-15301477
6317bf6b870ced4150254b3da3f7958fa95f2ae2 branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
31900f47b53bc6e3a199614cc4e24acb4752be11 branch 'davis_rel_8_4_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
091a35db5acc19da5eb9ff5082e454f6cc1ef377 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
f64736504086ca3f80cdf9785f62cd58bba6e89a branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca12745ccc11d097c48896cdbcff24a425570a40 branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301477
37c57fb69a20cfad8fa56bb0b47227df88ce4d03 branch 'dce_mcast' of https://dscm.esl.cisco.com/git/153/comp-15301477
0be8146a0780dc9a77609613bcfd6a7ea6fbad64 branch 'debden' of https://dscm.esl.cisco.com/git/153/comp-15301477
08cfb9cb2f32b9b1efea5be38b6532db4f024d0e branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b27bb1772d4ade46ade55f43701d1ad06983b46 branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301477
321a8bc5c100bab224bd4c44e8d3860dee542051 branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301477
83cdbb4459116440a7629636186a0ec13dd20ddf branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
2f454a923bc2afcb6688310f67b46999f33d1572 branch 'dp_plus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a7f36d2e86389ace6c072da6fd81d5d5fd5808b6 branch 'dry_dummy_run_s14' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee11811c000ddaa9c32c57c908ee3239cc74e79c branch 'dry_dummy_run_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dba2bfba506bf23371793d8abd871586156b3583 branch 'dry_dummy_run_s19_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
1847ca163549779a1046faccc8fa7ceaadd472b1 branch 'dry_run101' of https://dscm.esl.cisco.com/git/153/comp-15301477
197e77e09c17a96a23bebbdec42bb0e652b77ebe branch 'dry_run101_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477

ad7a1c1840c57106c1999433f6fac473e95c630c branch 'dry_run101_test3' of https://dscm.esl.cisco.com/git/153/comp-15301477
5c1eb42ef539578e70ad9465882e68d755e2f187 branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301477
39d3b28d37d62984f2139dbd49fce293a03ab2eb branch 'dublin_bel' of https://dscm.esl.cisco.com/git/153/comp-15301477
2493d29ff1c6da0016354916651e3d56eb55b54c branch 'dublin_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d2f0aa0e8b436bb4d7f2b9099e6a0f3e17cb78c branch 'dublin_eft_two' of https://dscm.esl.cisco.com/git/153/comp-15301477
13024b700d4b9de3c67c0f7c566e834d0cf9c458 branch 'dublin_fcoe_npv' of https://dscm.esl.cisco.com/git/153/comp-15301477
d33a8a678e8f8aa3c346a11b9444c10ff2b7dc0c branch 'dublin_moddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a88f40d187d52aeb3352391303a990c91091b27 branch 'dublin_tahmod' of https://dscm.esl.cisco.com/git/153/comp-15301477
812c26935deb291bc1fc49252ca95c899d60184f branch 'dummy_debug_run' of https://dscm.esl.cisco.com/git/153/comp-15301477
ceb5a6aa07584ca7346ce4f9a1de98b4d50d904e branch 'dummy_debug_sample_run2' of https://dscm.esl.cisco.com/git/153/comp-15301477
20d1b7ec46874c7a8679077c6eb134af350a7383 branch 'e_bigsky' of https://dscm.esl.cisco.com/git/153/comp-15301477
373397e3e3a3492185c02c530d365dc04064922d branch 'e_campus' of https://dscm.esl.cisco.com/git/153/comp-15301477
5cf97df7d04f00733ad525dbd7b34e56216cbebb branch 'e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
359aafb59d62d204d169743211c3a241c9bf3439 branch 'e_dev_neokrnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
c79d7cd3ec309d99febaa8e60af2f839a81a59ed branch 'e_homewood' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc3c49a4ec5539b86d021e28107556238fa6ea57 branch 'e_wbox' of https://dscm.esl.cisco.com/git/153/comp-15301477
9cc45d101d9191f83950f3dde641185410170a83 branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301477
cdb4eb978124e9804b2003f63f1afbc515d45a91 branch 'eagle_h_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fd58b451c5921c8ee09d3bd689fcb3d08dbd290 branch 'eagle_h_patchb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0a5daa4b0c9a8f0e1d22c056322e5aa58848dcb branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee7019e331097c65b95e1b88694047fae7e606d6 branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0830228fcab27fc7ddf94b5d51732de6d68f6c6a branch 'eden' of https://dscm.esl.cisco.com/git/153/comp-15301477
c7f45e656cee5cf37aea8eefba84b1b38264428b branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301477
50a63baedc898c0c0470d61771dbef8ad4a9369b branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301477
88c65e74039c589fb417f4bd4dd5eb351614b4b9 branch 'eden_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
2819d2059e4d07a01cd2a267c9ee30bf0c7738e8 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-

15301477
dce63c3055122ec4e9ebfcb796738c8790a7ccaf branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301477
e84ebc53d1129ec7e946069c314bd23e1311ea77 branch 'eplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
83b3420946e69958b2698311395f3890b062f9c8 branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301477
6e1798e341be275d6f26a29d051cfb8df7ebf3ed branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f829061038195609e339b510535a0d1aab766a25 branch 'espada' of https://dscm.esl.cisco.com/git/153/comp-15301477
582e7f59d7607c8202a54cbb21a4e4547bb867c9 branch 'espada_avs9' of https://dscm.esl.cisco.com/git/153/comp-15301477
8c5551f312a635d0b7f0c00f2300f2700feabb86 branch 'espada_dot1x' of https://dscm.esl.cisco.com/git/153/comp-15301477
15c731852c6effcd445c666f3db0da2446073242 branch 'evergreen' of https://dscm.esl.cisco.com/git/153/comp-15301477
7da351f0db7c7be5a116c1e201cf10d68c9f2864 branch 'f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc6d5750afd33c9303bbb61c48497d529e5cca3c branch 'f3_mpls_dev_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b24cafef668d82a070738ca0e91926ea90c2a04 branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301477
b3aad77e7234721bc26d78029db97c93b41fe02b branch 'f4_bsf' of https://dscm.esl.cisco.com/git/153/comp-15301477
96b7ea5ea92cc4620770390322426edaae141dcb branch 'f4_bsf2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9769232bf42a5ac45afdac661931ac8fe7758e0f branch 'f64_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
5eeeb452d0e4ff0329a914be100f4804434a566b branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
5acc9f8c5bfcd8902f87745205be2ea2358e89be branch 'f_bugfix_0812' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ff90340e1ad3b9c116532b98584d255ede54bf0 branch 'fc_npv_g' of https://dscm.esl.cisco.com/git/153/comp-15301477
f163facee3d219e4afbc9cef79d7bc247f650f89 branch 'fchw' of https://dscm.esl.cisco.com/git/153/comp-15301477
e50c01dd591ae14085066ea2320a159d1cbf3d5d branch 'fcoe_cu' of https://dscm.esl.cisco.com/git/153/comp-15301477
0ad1471e110acdf74d92496f94b32773f504f257 branch 'fcoe_f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
592be4d71c85298fa2fd73b02fd6ae2a75aaf0ac branch 'fcoe_f3_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfe8900dd0453c7118b2c62b558d0d576ba406 branch 'fcoe_f3_g220' of https://dscm.esl.cisco.com/git/153/comp-15301477
eacca487ff75a64bf0dc3c29333858a93daff3d2 branch 'fcoe_f3_g259' of https://dscm.esl.cisco.com/git/153/comp-15301477
3a901d4e5ee5f261cc769f6db777d21aaa140aff branch 'fcoe_f3_g308' of https://dscm.esl.cisco.com/git/153/comp-15301477
31f5e604f3baf66441996e42a0a4b258475f9739 branch 'fcoe_f3_gbr' of https://dscm.esl.cisco.com/git/153/comp-

15301477
6a60692606704584cb3e213d61e4d62a1bb993c5 branch 'fcoe_f3_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
58d55681a8fd13c610bae2fef7ea42ca67d78fbc branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
448516b2323dbe5212516a3f6f5ada03678f0a01 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301477
a64eb188ecb3eb4474839fe065effccf924d9832 branch 'fiji_ecats' of https://dscm.esl.cisco.com/git/153/comp-15301477
c05035668f0bf204bd208dc8ef58b927e68134ef branch 'fijiplus_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca4af809986f4d522ce730b6efc43f1221f67382 branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2cd15e284ad27c94430efbcdecd64830ed5a712 branch 'freeport' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b60ffd1ade0c40ac6c6ae11f7c045e1c82dc2c2 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b4293dcfdf2bd6fefee8794cf5544e7097d93ea branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301477
9ebda189f929af09f720a0e13d4f2b84e6365a48 branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301477
1df9b2ac71c21a734bd61b1470326c3314176ee3 branch 'fretta4' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e438f4787a1c4124b24c40bbd2d5be607d6170 branch 'fretta4_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6965b16a3ea5a4470685d8147cc4e03a9088c5c3 branch 'fretta_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
926730a0dd7d73d2507d6a47c976d07c5aaaca03 branch 'fretta_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
85f6688bf135a8e6b87ad999d1e629913a26a493 branch 'fretta_sdk_656' of https://dscm.esl.cisco.com/git/153/comp-15301477
444b9d5d838dca1c0320e2c71a4949422605f595 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
77aecd7a0251f9219210aa5a2db2d0e4683cfab7 branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
14d5740aca21d8b90b038fda7d8dafd5ead68c45 branch 'ft-mr6' of https://dscm.esl.cisco.com/git/153/comp-15301477
379bc0c0f01484ed5cf8a36e12c2ce882bd7aeaf branch 'ft-ts96' of https://dscm.esl.cisco.com/git/153/comp-15301477
a70ed528aab0644718a37322566e812ced4b1d6c branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
460d7af1f6eef185717d63cabd105556079de6cb branch 'g75_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8edac59828f6058e2745fcc009e2b407761d919 branch 'g_bluesky' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6eed61907c7415645a3b090de2fad1bde87863c branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e99c10957c0a9b8f629911e9347df32d2f76af0 branch 'g_heavenly' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b21dbbab48dba86b427c7c3634205507f63e0eb branch 'g_tetley' of https://dscm.esl.cisco.com/git/153/comp-15301477
85c060ca61a8673c2ebcc478d7d27c5af4694656 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477

dfa42c26f708fe4e1d77aa9cfa47e58f71d8a2f3 branch 'gbr_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
b869e978c53e899442ca3de35e6b5ca572327284 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b88a78f40a0045b681077c5bf4bc9bbfbb964483 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
00a48b849cd91c9e363423ae610ffdde10061f75 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301477
1992bf53e31f38a5944fa85914c86657dbad5ed7 branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301477
d72d0ed54a6a4159644b50f88c936a58a49ff37e branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
63776d8d6e4a8433e6cbf077000fbbd04960e5bf branch 'goa_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
486bc0e73fc021f322c6863bfee58478dbfbd69b branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301477
85e25db857d1a3de46cbb6b6a2ce5bd006c8efbc branch 'goldcoast_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b911ffbb5b3f2de27200bd4e42403b2310e60f4 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301477
056576d3069e27aef14f808c2cc67413c78b93d6 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd76607a1d1c34c26bdd97c0577ec721c653514e branch 'gplus_dev_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
a459c93d19fbe842e7bc26cb7fb05a126741e077 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301477
27f598552c7d3645575cd9303b3c71fd477ef9c2 branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301477
ccd4e4f8dfe64241aee3222dd3a273abfc79b6d4 branch 'h_ali51a' of https://dscm.esl.cisco.com/git/153/comp-15301477
89ae28b2a2ec7f2c2d38c39428e9ea7f66ff0a5c branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15301477
c3da9d643002251226ecb9ff51aec487cca6a3e6 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5b1b9766cf1a16723e59406eda743ffaf6188dd branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d25e87a82ee005ea231b4594ff0b43c954913903 branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301477
4fb7b34e809d44f08be8132bf925e35c214b94b2 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
667689585b26cae42c6488b414173a11bf12f334 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15301477
6624578ec620e1074ae3e6aab4727f961eb43411 branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
5ff23492dcf63abe251b6cb40d1611fdc244ea6a branch 'h_sundown2' of https://dscm.esl.cisco.com/git/153/comp-15301477
2952c50121274f7ef94abc7dcb52ad4c4bf483d7 branch 'h_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e206e3e12ebf3d574d546b7f17b279c306be5 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
42eb5ab355b8f0e9ba780cd2c41c37d4ef45c5c3 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-

15301477
02881582bd48054a4a14ba5af179b8401dbb84df branch 'harboard' of https://dscm.esl.cisco.com/git/153/comp-15301477
4a82c94fb259d95dec40870571c821e3e94854d3 branch 'harbord' of https://dscm.esl.cisco.com/git/153/comp-15301477
2afe719277571e3542aa210705b84a88f15a5408 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1b744ca1e6d4e7047378edcd66c96d4342d0e12 branch 'hf_271' of https://dscm.esl.cisco.com/git/153/comp-15301477
6539033ae19c6f1fd1fb7e94119e69ac6479cb7d branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
955365c1167c2e2aa14f3333881f6191d8987068 branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce04ca1c10dc44e3fe7a56c64f8de16b2d606d64 branch 'hplus_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
46d23d0a44ecfd99ea2765829bf77a38f11e9ec9 branch 'hsk_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
8ccb53a1b2c9e60abe21f95fe5f522aa9f7f814e branch 'hudson_centos' of https://dscm.esl.cisco.com/git/153/comp-15301477
685f4003cb78bc4dea35f2c31fc4e0eb41de6cab branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15301477
650087b9ceb7258de218455e937c34fde0cf6cb6 branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301477
ecb77e4154f235c43384da0f3bd534ee4af907ab branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
b61969646a1b5a50c3189b49242254d1973624a8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301477
0fe6311b01d5c8a58af19b39f5c956d0d70a0196 branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
34edd2f47840964fe37d7f06cc818467c3744175 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f3b5ce1047ba6b5f4f350a1f2bb64a602609e4 branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301477
283f58b2f2b725a0dac13cf5203b81c4eff405b7 branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f69b42d2d64f380524e3548145063b6ae45f80 branch 'iluka_ci' of https://dscm.esl.cisco.com/git/153/comp-15301477
c83d24083b98934424707bc883f411663e2c22ec branch 'iluka_titanium' of https://dscm.esl.cisco.com/git/153/comp-15301477
83c0459bd88e2738fee81205d93c6d0bcbb218c7 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2fc8cc3c3181b5e3d64c5b675b44395a401b29b branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301477
25e76710a3a9cb7a2ff0b608eb2bebe21885028c branch 'insieme_xml_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2e1baaa641643d85d452c68ca737cd9a3665b71 branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
6497c9c09614ab7a036f201910c884cb5470dd82 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d980a68e928a588593eea7fa61dea86fed59928 branch 'iplus_dev_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
d9d2e5c64c21baf61f4c4375087ca3c946cad40d branch 'iplus_gnmi' of https://dscm.esl.cisco.com/git/153/comp-

15301477
8f07d0e24b982383ee1360bba47495a7dda3539f branch 'ironcity' of https://dscm.esl.cisco.com/git/153/comp-15301477
61790a1ef93bb2127ec921069fcb7513c124107b branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301477
79d12264e2966704b0c607aac94ab2bd32a014b0 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fba907651797392f78cb65561d039cf3dbbae779 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
db58bfddbda8f724b1f408759abae98008aed270 branch 'janjuc' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d5aaef8504df316ba8d328dd4f98a4953509976 branch 'kempton_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
fb95bffa9c2886f9efa0c9fea007809089c1232c branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
d3d78c2cf21c245c0752efe3a5ddc8b1e020006a branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301477
455ed4aa29373e9d41ce9ce87a40084acb554941 branch 'kkm_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
6efb68899304a4bdcdafe5399fbb69b903c2eb66 branch 'km-hsk' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29f4ba5272c99933beebced07a6e236721bde40 branch 'km-sky2' of https://dscm.esl.cisco.com/git/153/comp-15301477
081793a46ac214e1fe7988f33ce95761c96b1334 branch 'km-sky2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b52d63a98833db4f3e412a7ccf7fc1c564d97ef branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f3124cb8ad5c37156928fcb5e745cf0d7eeb8aed branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301477
2bf830221352afff861443add0107762c812e82d branch 'kokomo_47_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
0111672beb550ac65cf01d451b2b8bd964f2dd0b branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301477
418ba0d80f04c1aab14304368e43444f4d78748b branch 'kumo10_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
959dfeac705b9f831bf98c0432ece52a90465555 branch 'kumo_112' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce826e32277d74185e2cebdeec5f2e0fab8e7e55 branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-15301477
89e27c89df5b13a2e2927059c1cd3654a5cd684e branch 'lac_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a27a401800232d9d173f8679d33ceafd4055d76a branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301477
d8db8ac50ace0aa1f976d66dd94fff45d64c9717 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e93223df645e7bca172ccf88c0daf3c2bfb8d61 branch 'mercury_snmp_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f54c42eb4eec97ff51552b4a599a9c2617121baa branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301477
79f4929978a9308d7164ce0389ff2932b94a2051 branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c81bdf8034d137e4520cba1202e5a3ae6d92bd34 branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-

15301477
eff64a416ce997f4a7447ce5aeb299fe85ed4cc8 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0e72adf18f6f18396fa12033d9d2713c8d1e7589 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301477
45518da1bcab77681fab915974ee19b0ea381bf9 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e345068e261d4cd9a98635b3b73aed854ba3ea branch 'mve1' of https://dscm.esl.cisco.com/git/153/comp-15301477
16421d9cfdb5f711e9d4ff0218721a348e7834b2 branch 'n1kv_l3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cef149d7a300440dca0bb266ec6be6baa7967635 branch 'n3k_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa133651025a3f5e1e1dbc51715c63f2819c6ecc branch 'n3kturing' of https://dscm.esl.cisco.com/git/153/comp-15301477
82d51f60e9edf6cb75b6739be5d6a8cfcefada7c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301477
87969c6c7c9cd51a0ac9a25272d967096897285a branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301477
d008589ef6c1f11997436f4a27498565aa5495b9 branch 'n7k_dme_stuff' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d772b428e496300b2539061c0f7cc929611c14f branch 'n7k_spine' of https://dscm.esl.cisco.com/git/153/comp-15301477
31226d2ee54802be57f8aed69c1e52e3c5490e5a branch 'n9k_redmond_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
42f13b8672d5925cc80131d0c4d8efa9395bf684 branch 'n9kv_eor' of https://dscm.esl.cisco.com/git/153/comp-15301477
0bac5487b98151822592bf0dab9e9e58c19ff652 branch 'nep_cr' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc30a20103e68b3873431b3496573d9b9559bede branch 'nexus1010' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfd9b63bf4b10dcbcc3b579e8728bc38b81af278 branch 'ns' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d4c097446e7629e214e7f37ae33c11fb71f7864 branch 'nxos_4k' of https://dscm.esl.cisco.com/git/153/comp-15301477
96d94f688ebc3e5c109705b733d84ab0d4d11e20 branch 'nxos_cflow' of https://dscm.esl.cisco.com/git/153/comp-15301477
0734152ccdb73ace98eecc7fcf3833f495717b19 branch 'nxos_fb' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fdff4116ed523a921d2162462c09b7a5dfb03f8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301477
00baaf5a77d660e2b6f83783b0b4b76394fb873a branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301477
79b43d42a5a26a242d0841ece62237183c9dbcf4 branch 'nxos_wb' of https://dscm.esl.cisco.com/git/153/comp-15301477
1d96236a4824a9ae35683d85f7d76a08888a86e2 branch 'oilstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
28e0caf31ee4470d4f7e6e068b314eedca7cc691 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301477
fca798ce50ddee8e42058465cbdfb5a9293ade14 branch 'oregon_1_1' of https://dscm.esl.cisco.com/git/153/comp-

15301477
b535febff1dfd693d4cbcfca2c1071210bac521f branch 'ph3_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
539a2d77d9fcd711b09881c1649f5b5b6a1c2896 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea75a742405d744340d1eb984fff4a144262a339 branch 'ph3_dtho1' of https://dscm.esl.cisco.com/git/153/comp-15301477
72e4dda183523dadd982438668d2ac32d800d2a0 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
7ce8e7bff7ec288313b5cae0782c396ffc11148f branch 'pi71-india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8e060186c69405052b854c4af0f4480a92c6f50 branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301477
655576290d3388f82779e5663ef9b2ef3ecaf36c branch 'pokemon' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b2261af5674f94695c6f225adc1b32c10db3128 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301477
8cd2f20aeb11eb0bdfa35664e7b6763204ac963e branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2de67ba6ed9f924a937ac83b26ff7d144fb7a5e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301477
4d6ce365c6100550d03e09179119aedf6004ea7d branch 'rackspace_issu' of https://dscm.esl.cisco.com/git/153/comp-15301477
effbcdb8ca3b813ffaa04b2d6daec0bf11358c3d branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f5d0ae7493394a92e8ebaed631175dc85137a67 branch 'rel_3_0_0_a1_4_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f380c22ae0e741d9c21c73e1ee355e1c4c55e6d5 branch 'rel_3_0_0_a1_5a-development' of https://dscm.esl.cisco.com/git/153/comp-15301477
e371c70ba25811a2483688e6ddf0064dc8111ea0 branch 'rel_3_0_0_a1_6.2-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8bb725bedaa9b06d907536ea97f483358f594e88 branch 'rel_3_0_0_a1_6.3-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
3d33ffeff83a6a3646b36eaf3682e30cf5ef3d95 branch 'rel_3_1_1_1165966469' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2214584f02bc6adcf61fe923066b1af486138b branch 'rel_3_2_1_1188831908' of https://dscm.esl.cisco.com/git/153/comp-15301477
8992f2a342721e0c63b43881f4fce73a38705b51 branch 'rel_3_2_1_1188832883' of https://dscm.esl.cisco.com/git/153/comp-15301477
152019b974e091c0c3556c468c3886180703cd25 branch 'rel_3_2_1_1188878926' of https://dscm.esl.cisco.com/git/153/comp-15301477
aba6979a1d5c6068fe17676e4c81d886c0905060 branch 'rel_3_4_1_1213862709' of https://dscm.esl.cisco.com/git/153/comp-15301477
2aad266b5fa84801bf5f1447e7c24343ded231b1 branch 'rel_4_0_0_520_1170208990' of https://dscm.esl.cisco.com/git/153/comp-15301477
601958bcf5b3d7ec9d76daebaef49ad58b2b9c16 branch 'rel_4_0_0_669_1185503667' of https://dscm.esl.cisco.com/git/153/comp-15301477
baad050e503716b4d21f7f0ca43bc00a7353d964 branch 'rel_4_0_0_669_1185508973' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd4d20094f42db8fc55da2f5adff2cbfa1dae33d branch 'rel_4_0_0_669_1185509620' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca8d40815198aa0f41bb0e73e3ce8938259bbe2d branch 'rel_4_0_0_749_1192416586' of

https://dscm.esl.cisco.com/git/153/comp-15301477
46a9d1999d0e49c0ac50460967422f67cd260a8f branch 'rel_4_0_0_754_1192508418' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3dfb055f55c2bb6be962beb6d59cf614cb396a50 branch 'rel_4_0_0_828_1199764468' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6c5cd64e80972c92d1f9b50005563151fc94f09 branch 'rel_4_0_0_879_1204023719' of
https://dscm.esl.cisco.com/git/153/comp-15301477
de1341c2027a03aa5f2138eabfe3ca002a3a8d32 branch 'rel_4_0_0_885_1204026761' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6f310e40db4ac61c5260dc9f6ccd5744dc46d184 branch 'rel_4_0_0_885_1204028067' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5230a241b7852eb42ed1860dbc0eff35b27dc555 branch 'rel_4_0_1_1205146992' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1c38aff3367e27025d23476af1a9922fd91e642c branch 'rel_4_0_3_1216832024' of
https://dscm.esl.cisco.com/git/153/comp-15301477
9d3a7ab148e511acec11f7e10eda4b74523e951a branch 'rel_4_1_0_90_1209800952' of
https://dscm.esl.cisco.com/git/153/comp-15301477
283350b2926ebd5778b92111f85d19aa122cb257 branch 'rel_4_1_1_1220338475' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5868f2437924f396d6af9acae10f2efc96e890ff branch 'rel_4_1_2_1228304625' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4deac4caab3f0e067586b41f56a30bff08b80fc2 branch 'rel_4_1_3a_1235365905' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3c4d5021706d3ee9d451b56c979bed7b5b592a16 branch 'rel_4_2_0_239_1244796494' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c09a0ac81a2235458e76f08cab1060bded441a8b branch 'rel_4_2_0_239v_1244798615' of
https://dscm.esl.cisco.com/git/153/comp-15301477
91bc2251de995d4553b329e27cefaec9b87c68c8 branch 'rel_4_2_0_246_1244873958' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b93441bed14e7373abe0bd9189f53bc3441c60de branch 'rel_4_2_0_246_1244875310' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61f581d2f29e7620e5d38f554f7b4c705c54734e branch 'rel_4_2_1_1246501284' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1e8b779bc3558abaf8c9a3c85fef407d782362b branch 'rel_5_0_0_107a_1241521493' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6e80956fc025f37faea2439efcfecd2b0d06a63d branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301477
62f317e0e12ed497f46ff0943467f70d3341c594 branch 'rel_5_0_1_1264407142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
20c8d0e73f53b05c8c20d7476ee99eb5acb79bc8 branch 'rel_5_0_1b_1268628903' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66e8ad9c81be9fd8b16caa2bd0ebc276f412412c branch 'rel_5_0_2_1268889241' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b2dc7fabebcd9001afeb61abd9d0d9fbb55639e8 branch 'rel_5_0_2_1268900747' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a5820d07ee2cf3cead30fbe6d372c29ddda47ad8 branch 'rel_5_1_0_78_1273728062' of
https://dscm.esl.cisco.com/git/153/comp-15301477
911ee18c13f1a0fa376a7389047745b37f3fbb2f branch 'rel_5_2_0_250_1301681919' of

https://dscm.esl.cisco.com/git/153/comp-15301477
682877a8be0edad6b2f1bbfde929570bec050f10 branch 'rel_5_2_0_251_1301295965' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f7b14dcc52f63c427ba8b554a1a0b34e945f29e7 branch 'rel_5_2_0_257_1301300390' of
https://dscm.esl.cisco.com/git/153/comp-15301477
347c7ac95da8eb139e9f9b2d9831f7b5f8fa95d2 branch 'rel_5_2_0_270_1303378525' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4c08add6e69d1b8e71a85c3f36cdfc1df6dc2c9f branch 'rel_5_2_0_904_1304321221' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1c0cf7d205cc93639c31c76413689c214df4eb7 branch 'rel_5_2_0_907_1304482212' of
https://dscm.esl.cisco.com/git/153/comp-15301477
951729152a6265f3911a43870652a857346117c4 branch 'rel_5_2_8a_1365686638' of
https://dscm.esl.cisco.com/git/153/comp-15301477
262b82bdf979931deab96127a5e940b41d3edcf6 branch 'rel_6_0_0_11_1313537935' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5c2b616ccc6eddd6cf6452d25c070617e47f9d9d branch 'rel_6_0_0_30_1313796682' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d98f10bc7822512441bff2ed846f98ca3eac0ba2 branch 'rel_6_1_0_220zonda_1330655142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21664a6105748cd9e0e320037292c082f53a52b3 branch 'rel_6_1_0_233_1332934317' of
https://dscm.esl.cisco.com/git/153/comp-15301477
23a40875ee75dd0d1fdb92dc9e241df654304261 branch 'rel_6_1_0_293rouen_1338272421' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8034e23eb9e2030ba58e9eda8a04ceee235ccf86 branch 'rel_6_1_0_4_1314178785' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61838156c498fa72fb5350e8f981c4ccd4355425 branch 'rel_6_2_0_166_1341715081' of
https://dscm.esl.cisco.com/git/153/comp-15301477
faca3a19825b1e094212c35f72f96b11de7c1656 branch 'rel_6_2_0_22_1323474416' of
https://dscm.esl.cisco.com/git/153/comp-15301477
86f5848d0044071d9724e66d88e4e92d7883086b branch 'rel_6_2_0_233_1350283358' of
https://dscm.esl.cisco.com/git/153/comp-15301477
00c44e69b30908a73cacc22f6b277939ed5cf2d4 branch 'rel_6_2_0_284_1355750076' of
https://dscm.esl.cisco.com/git/153/comp-15301477
37e3c349032e723d930f00a9c40562cf2227e1ab branch 'rel_6_2_0_294_1355752126' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1668d137bbe412aa0fedc5bd9546e08cf86303f6 branch 'rel_6_2_0_302_1355755477' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2d624f4fd2df8f5a532758bd6593ae4e96bcc8b1 branch 'rel_6_2_0_42_1323892974' of
https://dscm.esl.cisco.com/git/153/comp-15301477
625ec745f5b13dfef80907b9a1e99c3a4f5d609b branch 'rel_6_2_0_47_1324073744' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66a0d879c71de1848118de9e341d5deb83818adb branch 'rel_6_2_0_5x_1319447985' of
https://dscm.esl.cisco.com/git/153/comp-15301477
079fed2a107c0e58789f36e18f86637a1168c33d branch 'rel_6_2_10_1411029857' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e2d6fbfcffe9d62c7697e2a0f8af68792cbad105 branch 'rel_6_2_13_1432205888' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b75e0e977504401cae027d22bfdfb9c29a6670d1 branch 'rel_6_2_1_1358454650' of

https://dscm.esl.cisco.com/git/153/comp-15301477
d6ffd096b6e045a75d8226fbecb61f202bafebc6 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad6ebdbdd32757553bb398717ecdd93b72702108 branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd97ebd363c48f64c6c36ec73e07712a8bd5a57a branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c792866394749a86a26ee9e4f5bb00173728b517 branch 'rel_6_2_1x_1360614323' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0f1652e4b7833067cd60bac40605d3dda2644a72 branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301477
876eda71d428411b0b9b94b12e6c8eea44570a79 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e5c5394472e8b8dd27799065f2f3ce2f4e19d928 branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8897493500215dd7e4b872936b99bf712439cf64 branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6af42341f1d1291ad6614ce8bc8bd63f14379da5 branch 'rel_6_2_25_1537789720' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cbbe757e8340d3ff727fbe6c21f8a09c60430111 branch 'rel_6_2_25_1537804439' of
https://dscm.esl.cisco.com/git/153/comp-15301477
df22adc52aabb8f0341080d2b299673e05120f30 branch 'rel_6_2_25_1537806235' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6a8549154254bc3d4321852ebf241fe665e903d8 branch 'rel_6_2_25_1537853393' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f9babd65905f91aa2eff13630bf9bfaf6a29dfcc branch 'rel_6_2_25_1537857082' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e07cb5e80aedc545bdb1f3e09186803a2fb590c2 branch 'rel_6_2_25_1537863229' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0341694426c29e05eee41e423142068b2226d76f branch 'rel_6_2_25_1537947258' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1dca72e3c96c8bf2a1ae81ef502273d6fdf3ada9 branch 'rel_6_2_25_1537959757' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7eaa26a82647978ad6e3d1b052a9b9444f3c64d5 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301477
28ed57249eda2d2b2fa19a0e925fd5578b42c837 branch 'rel_6_2_2_1374645089' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3ba9f7cc27ae5dcfb02265cc2e3ddfc687b4c789 branch 'rel_6_2_5_1377756497' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2536effaa449a880e07af486aca768bbb8cc7785 branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301477
73316f4e9d25406945145377a0b68f5a88094698 branch 'rel_6_2_6a_1393392717' of
https://dscm.esl.cisco.com/git/153/comp-15301477
956abd8da1dda44fd9043c15a4c20ca9b67c4c07 branch 'rel_6_2_7_1391725316' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a917a53f795f22a03ca0756b86a64ce91f63dd51 branch 'rel_6_2_8_1395337211' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c97f2b258a55a0a1bfa74c0752a82eefbec170fd branch 'rel_7_3_0_d1_0_125_1444754460' of

https://dscm.esl.cisco.com/git/153/comp-15301477
202e6ef655760308ff758edb56db3b1bcafd27cc branch 'rel_7_3_0_d1_0_127_1444932948' of
https://dscm.esl.cisco.com/git/153/comp-15301477
55c370f2cc3610eb743bf566ce6e4eadd65e8d63 branch 'rel_7_3_0_d1_0_24_1435346435' of
https://dscm.esl.cisco.com/git/153/comp-15301477
07932093f7382b205d7ace06e05aef2c64fde157 branch 'rel_7_3_0_d1_1_1453376495' of
https://dscm.esl.cisco.com/git/153/comp-15301477
53d8243f0ce4cc194eda767c06b0b5b3c1543da5 branch 'rel_7_3_0_d1_1_1453378954' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b51650561a6bb094ddcbcc0ef675bff2aa4858de branch 'rel_7_3_0_d1_1c_1468606237' of
https://dscm.esl.cisco.com/git/153/comp-15301477
661352e7716c78df7b218823506d3f48fdd7f02f branch 'rel_7_3_0_dx_0_54_1452151147' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f552d92b9c329165cfe09f6d1d34d48ef1f4575c branch 'rel_7_3_0_dx_0_54_1452155690' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d701575c5fd3bdbc7f21b3242d3b59ef41f87a77 branch 'rel_7_3_0_dx_0_54_1452156693' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fa536aafbd7288145e2c2590d7248ceccb2b332f branch 'rel_7_3_2_d1_1a_1506012041' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21e8f6997268df5c6882ae0e822238aaba31c4ce branch 'rel_7_3_3_d1_1_1533706967' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5663261614a22055cbb715bb95073d89840106a7 branch 'rel_7_3_3_d1_1_1533714860' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fd1d1309e87165fa417aba408c1fadf4567d3b81 branch 'rel_a2_1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b8cfc8f36965a42667b9d0eaa1ed089c85acd6a0 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8d8702357179898f0d6e94a548315df6cfff1679 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
073d16c4fa776bcc259e62c85ef841930ce25ee3 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f6907715da46688acf5de4232a27f66dec28b95e branch 'rel_a3_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d887b84949d40aa15022ce22238f81fe3b5b8488 branch 'rel_a3_2_0_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e6ec15527a1ad8b4941cb78aceafd7ed22f03 branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c37ab6aaa136e569ee56be557b75c92aeb16013f branch 'rel_a5_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b156bcd2241d70ec81052b5663d8c6b069017f65 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2bb36077e10042dc9dbe340fe9901a6d8933482e branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc978dc9d08c7c0d5571ce68846e6d09b93d5abd branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4ed23568deaaf816fc0dcf198a32bc6c283b885 branch 'sample_run_test_debug' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a150019c95484639ef216a3bb3ee21b66d61d018 branch 'sbc_argos-trevally' of
https://dscm.esl.cisco.com/git/153/comp-15301477

19c8721d9eb761db3d5c5b6d2defb986f8e05cef branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
0849d53fc969fd39e3853cb77e6b9661b33295a5 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da55daab3e93b051197c62a70e58be426d0de41 branch 'scsi_3_0_0_335' of https://dscm.esl.cisco.com/git/153/comp-15301477
ba2bfe62c1c564e851614c5e90ad899c2dcb2b13 branch 'seg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea35cfe64bc318790a1578c7393a585d2269e8cb branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301477
882b3ddf80e6cc20223975d540a5f3ce06d5211f branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d78051e11087fa9df130ed16695d58533f5db9d branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301477
c58eacd7b4be9c0bd271f4e61a7f6e078c052d3d branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301477
910e03e448e14c1c927de86ad2ead0e0f4449aaf branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfb089988d1baf1f6fea0e009aa2473cee205b branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e7ecd7d4c9d49ce6c0ca9f186210ad49be0cc57 branch 'shadow_collapse_6210' of https://dscm.esl.cisco.com/git/153/comp-15301477
758bbe91190f6af9037adc384bae985b4d0c6c8e branch 'shadow_collapse_6213_s33' of https://dscm.esl.cisco.com/git/153/comp-15301477
4bbd7acd3b807a857879f47947f8fea382638451 branch 'shadow_collapse_628' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2a27ab33b615ed7c683909bfe1714710ba822be branch 'shadow_collapse_628a' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc09ae29c6280bd58447a6c8975b24daf46e9744 branch 'shadow_project_627_s40' of https://dscm.esl.cisco.com/git/153/comp-15301477
4979fdf20120358dd8215ffec66208f738b621f3 branch 'shadow_rel_622' of https://dscm.esl.cisco.com/git/153/comp-15301477
56360246c5e54920bd942f3d734e8487dbb0c5c7 branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301477
5102e54c360518e6424eaabaa83de9f4cc83a742 branch 'sky_fretta_ppb' of https://dscm.esl.cisco.com/git/153/comp-15301477
cd6f19071b5c6284b8e5c18fae559a23db2c1b8e branch 'sky_fretta_ppb_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
03f1327eb449ac3067f904a33359c9821f988a05 branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ed9d27c056533ea75c0159e94e71c41232d6c2d branch 'skywalker_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
77ee697ca7602fbf6d6606595ef5f11b850322b7 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f15c2fd12e6e400435d10ecb76d70be3428b18e branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a62b8e3e13b7662737fae6408c7450342c3b743b branch 'skywalker_rel_8_3_0_cv_0_4pe_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
53f276932c3cc60321a3ce96a8c6c5f19089a99f branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0b35d80ac5678321816490e1985fc4c08e07651 branch 'skywalker_rel_8_3_0_cv_0_787_com' of

https://dscm.esl.cisco.com/git/153/comp-15301477
10a5bca0adaad8e190165f0f4226782809271a5d branch 'skywalker_rel_8_4_0_sk_0_1n_com' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e1576d658f29c5357d3d8b5879a41973f8fadc31 branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-
15301477
1e7f589498d137e2e17b4919259e2765704013ae branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-
15301477
7cb89e672ad2f3d78eec01581ab26d6c1bc30212 branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-
15301477
4ed10213582e68a81e74422ac716d0b1c851abac branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-
15301477
2b8ef31e0fd8ae86010c6fe5158a3767f45b282b branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-
15301477
2dc2bb79092248708c75d611893e3925a2407aed branch 'smu_n7k_r710_sajjad_test' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fd2029a4fb9f4485a7c3986ff5bbb950cb586140 branch 'smu_n7k_r710_temp' of
https://dscm.esl.cisco.com/git/153/comp-15301477
839e43b16e95c906f6da38914b9272c00ac7860b branch 'smu_rel_9_2_3' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cd39088d730d51369ac0a70b0194bf2fbbab8a38 branch 'ssp_r1_0_fcs1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ddd7156df813bdb2837dbf587d7effb1ec0b5ab8 branch 'ssp_r1_1_4_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ab4e601d384919d7878d0fa2686be599ea44d086 branch 'ssp_r2_0_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1553d089938c98946348528a6b81da0bfb8ee69f branch 'ssp_r2_1_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a0117c699069f03226cac9ed055db50a8460d2f6 branch 'ssp_r2_2_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
64ff1922ae968b757b98c4d9c076191a166111ec branch 'ssp_r2_2_2_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
578261edb91fe301440663dbffc2230af80ac5c4 branch 'ssp_r2_3_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8a9b5b8474dab5e88581caf9d8f61bbf35bf2c28 branch 'ssp_r2_4_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
be857f161c8777baf48b87424ce69e7b59c71732 branch 'ssp_r2_6_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7528615dc6932f1d5c283b1f4027af5a68819f22 branch 'ssp_r2_7_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ea3ed08167d81238a0c9405d78774bc640af1d79 branch 'st_demo_lu_pair_p1' of
https://dscm.esl.cisco.com/git/153/comp-15301477
726d24daa62d7774714d1aef9317db1066df5b5b branch 'st_freetown_clone' of
https://dscm.esl.cisco.com/git/153/comp-15301477
090a4612529941b24438fd20f189e71ae89c2761 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-
15301477
74916e62c8dfe3a04365d1335e9859b29cb18d35 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-
15301477
8173d60869a9403a7b291182cb9719dbcdadde95 branch 'sync_skywalker_73_160407_com' of

https://dscm.esl.cisco.com/git/153/comp-15301477
2db19a8fa64a28dd2c4e7c8adac1761e5e3d05db branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301477
1104a5deaf73a8da88387ab7392467ef5cd770f9 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0b0356cf1f2ba483ba7889c9530f1a6a6066534 branch 't2p' of https://dscm.esl.cisco.com/git/153/comp-15301477
ae89bb5cc7e756fa4cbb351d2eefc5daf5886e5d branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc0dac350b3bd3605a97dd49974afca3c0f22c3a branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301477
981af11f8f78b07b58ce611901ec56796e0b1f39 branch 'test_branching_time2' of https://dscm.esl.cisco.com/git/153/comp-15301477
862f4ce70faf1e478a7012807be599b59203ded5 branch 'th_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
81d6b67965bb0f734e2368909769e38d01240427 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c44b87ee1e869411cd9f928e4a3a4bd705467969 branch 'trial_proj_1_627_s38' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0a5ba554223b87697ef42a6812a0eb8e1dc835c branch 'trial_proj_627' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc1f7760edd79758a6cc2323dd183445ad0f315f branch 'trial_run_to_check' of https://dscm.esl.cisco.com/git/153/comp-15301477
2667ce5f3339bf242a99ee18a370614b7ebd0db2 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301477
adaafe39dd152b5e19e8e7758a84e4735d9abf5c branch 'turing_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
100bbe87ebd97c27d48197f7219a2009e523b627 branch 'turing_os' of https://dscm.esl.cisco.com/git/153/comp-15301477
aeedbe7c04b4633f8aa6c5fb71dd2cb1704a4068 branch 'turing_th' of https://dscm.esl.cisco.com/git/153/comp-15301477
4dd2b220cbc42a49806f291b9bc324788b0240c4 branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
16022046ce3330fc661e049d6742a6d5c472c961 branch 'ucs_e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
843f805e79bda9f390c34e8ada3608d6b0df39a6 branch 'ucs_fi' of https://dscm.esl.cisco.com/git/153/comp-15301477
3cf60853cba87ba3072f9e32c9296a0652a877b7 branch 'ucs_g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
016e9f5a8283a3968258de5e41344ccb8ef6fb2c branch 'ucs_g_dev_mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa233196dd58e6813d877a4de17153c26a12c63b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f65d0e2d2ba8322d1cbd5af1b3c75ecd66862ec7 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2bf4fdb86de69ce4fa7e83ac2644c86935fa4b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301477
88f373147006214de893045b2e12822ccaa45efb branch 'udb_ucs' of https://dscm.esl.cisco.com/git/153/comp-15301477
65cdad9f98332181db59a774793137f553445e87 branch 'udb_wolf' of https://dscm.esl.cisco.com/git/153/comp-15301477
64366d2d5020526c309cd9bdab60dd47cab6e44b branch 'uluru4' of https://dscm.esl.cisco.com/git/153/comp-

15301477
5d16d3285f43c440fd077ceafd9b656620a6f6ac branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
21f6ee2d781ccef354b0a3fdf68bce3e193b6324 branch 'vdc_scale' of https://dscm.esl.cisco.com/git/153/comp-15301477
d928ed741b4a87dd2aec77baeddaa64e718a0cd1 branch 'vdc_scale2' of https://dscm.esl.cisco.com/git/153/comp-15301477
868aa47e2fb4009b1fa2ca159855de52d4c0cd01 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0f09b243ac49f4d8c261fdf6ed86c2f51b6655f branch 'vinci_cx_next_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
adfdb4cd0a6a548dfa3603c7977c9463d592931b branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
1436c704fd59684f4bb2da660fa95b8f774c29a5 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301477
2a900e88127f420b2093a7c199bfa61ceaa6c447 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301477
7f21b9032ed635b4eaefb0cbbaf0d379f622dfac branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
40a2023aec76310ce1a48acd2eaa91a97100b950 branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
43a2146b0f5dd4f1b7c701919a25e796980f89cd branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301477
06f346d27c355525edff52d0a94ca7aafaf82be9 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301477
a9cfcbb97835115f9560e72726897613214a24cc branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301477
f648ae732b8be367022a6a06a41fe638e8c8c4c9 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301477
c44c2f3ab7fb9b6787c337ddfc67c3e56f23b4ed branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8a730633a2145cbd341b6e3bc5c4371ffc133bd branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301477
4daf8db37f5b5598290ce9c1ba501b3e5bd8b679 branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
0a0e7efad16cc26543e931849454e6f894cc5820 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa261b720e7df3d175fc8eac2da3a969b0f65eb9 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301477
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
DIRC)]]o1H]]o1H:2e osi\s5X@
module.mk]]o1X]]o1X:2f"RJitVEDkUmp?1ysmartpd_agent.c]]o2F]]o2F:2g;Gwz^vO.#smartpd_pfm_info.c]]o3n#@]]o3n#@:2huH[6G18
smartpd_pfm_info.h]]o4]]o4:2i1T(BFf?smartpd_spec_db.c]]o41(]]o41(:0JewSgbsmartpd_spec_db.h];7e]]o5=0Jj|Y'>mW2jsmartpd_spec_defn.rng.xml]"*)]]o5=0J
Yd<T|[,!specfiles/smartpd_spec_dc3_10.xml]"2'j]]o6x0=0JNBB!dAZ)!specfiles/smartpd_spec_dc3_18.xml]"]]o7/m=0J
5b6h<
bb specfiles/smartpd_spec_dc3_4.xml]""ZH]]o7@=0JKg5JPF(eZ

specfiles/smartpd_spec_dc3_9.xml]"]]o8=0Jd0}wpspecfiles/smartpd_spec_eth.xml]]o9E]]o9E:0J
OEH,,"specfiles/smartpd_spec_eth_n5k.xml]H]]o9P=0JE[BMR?.<5]!specfiles/smartpd_spec_m9116s.xml]]o:X]]o:
X:0J[!ih#fC specfiles/smartpd_spec_m9148.xml]-
DP]]o:"=0J,\}=V,x!specfiles/smartpd_spec_m9148T.xml];]]o;jP=0J"r*_&
UmIyrD!specfiles/smartpd_spec_m9148s.xml]]p:]]p::0Jg~A+*.&!specfiles/smartpd_spec_m9222i.xml],@]]pF@=0
"
fKUw[P!specfiles/smartpd_spec_m9250i.xml]&X]]p=0"P^W#e&!specfiles/smartpd_spec_m9396T.xml]B]]pP=0"y
${Iv S(!specfiles/smartpd_spec_m9396s.xml]]p`]]p`:0"bD+|R$r specfiles/smartpd_spec_m9500.xml]<0]]p=0" K0m
L|{ specfiles/smartpd_spec_m9700.xml]<]]pv0=0"
1n'&gF`o*9 specfiles/smartpd_spec_m9706.xml]<^`]]p4=0"
2`b~9s
D3pt specfiles/smartpd_spec_m9710.xml]<0]]pj`=0"
2B6*]28+) specfiles/smartpd_spec_m9718.xml]]phX]]phX:0"p(;pr`]*-
J+specfiles/smartpd_spec_nexus_norcal_128.xml]]p^]]p^:0"n!,mjz7(5K]&W*specfiles/smartpd_spec_nexus_norcal
_24.xml]]p3@]]p3@:0"JtK.Ft{MC+specfiles/smartpd_spec_nexus_norcal_384.xml]]p]]p:0"sG**N1u*specfiles/sm
artpd_spec_nexus_norcal_48.xml]]pe#]]pe#:0"j'ApXM|#*specfiles/smartpd_spec_nexus_norcal_64.xml]]p]]p:0"f
e$t)3*specfiles/smartpd_spec_nexus_norcal_72.xml]]p H]]p
H:31hLMF7'specfiles/smartpd_spec_nexus_or2_48.xml]]p
l]]p
l:31d'd`XG=N
'specfiles/smartpd_spec_nexus_or2_96.xml]]pX]]pX:31hLMF7'specfiles/smartpd_spec_nexus_oregon.xml]]p]]p:31
hLMF7(specfiles/smartpd_spec_nexus_oregon2.xml]220(]]p5=31%3AiTj[@Lf`specfiles/smartpd_spec_xbow.xml]
3]]p8=31El'>p4"specfiles/smartpd_spec_xbow_10.xml]3`]]p
u(=31X).STO./:T"specfiles/smartpd_spec_xbow_18.xml]2;V7P]]p=31XP^ZRnW!specfiles/smartpd_spec_xbow_2.
xml]3#%(]]p$=318..Iwyo!specfiles/smartpd_spec_xbow_6.xmlTREE=41 1
7'R\0`hxOspecfiles34 0
0
0Qu`!?B>e=>RyD
c3da9d643002251226ecb9ff51aec487cca6a3e6
72f82a676e4e8a7e8afdf779f565129030a3b2d3
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
DIRC
]]o$x&]]o$x&:3*yx5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/l
ic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_c
ommon_defs.h]]o((]]o((:3*^*$>f

bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
_@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
caaa75e0b83f705095b8e9759a6c2468a1e07e98
72f82a676e4e8a7e8afdf779f565129030a3b2d3 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
a99b88badbd4272519eee57ccc729e054c977969 branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f branch 'beverlyhills_rel_8_2_1_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2c44772f070b427bbe767384281cdc2b17c45dd2 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-
15304913
f2dad64daa260f5464c4192f0d687234345cf571 branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-
15304913
1a3e4b284cd4bbbf1236f01feb943b593385afbc branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-
15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-
15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-
15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-
15304913

e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-
15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-
15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-
15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-
15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-
15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-
15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-
15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of
https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of
https://dscm.esl.cisco.com/git/153/comp-15304913
d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of
https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch 'rel_7_3_0_d1_1c_1481436596' of
https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-
15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-
15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-
15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913

0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld
<nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*:
storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld
<nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*:
storing ref
DIRC~]]g+T]]g+T:6uAkx&g~.gitattributes]]g,I]]g,I:6JDHF7=7eV
.lfsconfig]]g-[ ]]g-[:6g=D:aRh
cli/lic_cli.c]]g.P(]]g.P(:6c-N;~S

cli/lic_cli.h]]g.]]g.:67I{0BMcli/lic_cli_isan.c]]g/]]g/:0}n"-glzHC
cli/lic_cmi.h]]g0u]]g0u:0S3aXG,*Zkcli/licmgr.cmd]]g0W]]g0W:0JqX*zj=\p{5cli/licmgr.xml]]g1]]g1:0`>N_Ocli/li
cmgr.xml.h]]g2]]g2:0".T7rlj=Rcli/licmgr_cmd.h]]g2P]]g2P:0I})Bz3='_*Tk'{cli/licmgr_isan.xml]]g3BX]]g3BX:0X
EX8cli/licmgr_isan.xml.h]]g3]]g3:09V_{N|0
cli/module.mk]]g4X]]g4X:0
>hdUKZx"cli/traditionalcli.cmd]]g5]]g5:3{j'^Y=examples/lic_example.c]]g6Lw]]g6Lw:3
SwIY5zexamples/lic_example_isan.c]]g7p]]g7p:3qa!v3>a~(Lexamples/module.mk]]g8u]]g8u:3xX!CUlicmgr/eth_p
lugin.licspec]]]g8=3%'O^$licmgr/feat.txt]]g9]]g9:3Dx3hc=Y~90licmgr/lic_bmp.c]]g:,]]g:,:3'u./licmgr/lic_bmp.h]]g:
0]]g:0:33ELvV=Obc%licmgr/lic_debug.h]]g;l]]g;l :3g.`b&#licmgr/lic_event.h]]hy8]]hy8:3Q~ LpO
licmgr/lic_feat_map.c]]hh]]hh:3jS"x<XW,licmgr/lic_feat_map.h]]h70]]h70:31JNQhP9licmgr/lic_flexlm.c]]h4@]]h
4@:5TV87|g{n0 licmgr/lic_flexlm.h]]h]]h:5TV9(ww10NPyp$f{;Olicmgr/lic_main.c]]hP]]hP:3<7
=7]F[.>licmgr/lic_mts.c]]hYH]]hYH:3<89Dh"d<ilicmgr/lic_mts.h]]h
]]h
:3<9p:W.ZNIW!licmgr/lic_plugin.c]]hO]]hO:3<:+
(2c=qalicmgr/lic_plugin.h]]hoH]]hoH:3<;d!skzVlicmgr/lic_pss.c]]hC0]]hC0:3<<=3Klicmgr/lic_pss.h]]h]]h:3<=
6[,W/#licmgr/lic_smart_feature.c]]hc]]hc:3<> @R)67>?S!Hlicmgr/lic_smart_mts.c]]h [KP]]h
[KP:3<?vFrlicmgr/lic_smart_mts.h]]h
0]]h
0:3<@<.cPRE;U<Dlicmgr/lic_spec.h]]h
]]h
:3<An;bK[r<=ixlicmgr/lic_sprom.c]]h7(]]h7(:3<BNJ+eB[4}#O..Ulicmgr/lic_sprom.h]]h
i]]h
i:3<Ck*(o\licmgr/lic_syslog.c]]h/`]]h/`:52wn6Va&rNlicmgr/lic_sysmgr.c]]hhH]]hhH:52{AAhR
k8 ,licmgr/lic_sysmgr.h]]h&]]h&:0h#{TW8licmgr/lic_test.c]]hT]]hT:0]
/7gj_=licmgr/lic_test_isan.c]]hve]]hve:0bmnGBlicmgr/lic_utils.c]]h]]h:0
%xPu<Zs_licmgr/lic_utils.h]]h`]]h`:0
CK@]\R%r3licmgr/liccheck.c]]h}i]]h}i:0!N!!swLlicmgr/liccheck_isan.c]]hR]]hR:0"+A;tOn\rAMlicmgr/licmgr.con
f]]h(]]h(:0#o9>^<ufzG|licmgr/licmgr_breakpoints.brk]]h
]]h
:0$jbusT9Qlicmgr/module.mk]]h0]]h0:3"cnSNFrZ
mib/lic_mib.c]]hp]]hp:3##j|G*t bt2|H
mib/lic_mib.h]]h(]]h(:3$YJCq,jp;mib/lic_mib_inspur.c]]hW]]hW:3%|0{
mib/module.mk]]h]]h:4n%v@s(`Y.usmart_shim/admin_api.c]]hX]]hX:4n&G@}p@IWhLsmart_shim/admin_api.h]
]hG]]hG :4n'7WQ.W#DRZ{t smart_shim/agenttest_api.c]]h8]]h8:4n($EHCE\=`b:smart_shim/agenttest_api.h]]h
]x]]h]x:4n).HqSDkksmart_shim/entitlement_api.c]]h!$]]h!$:4n*2/c<j[!smart_shim/entitlement_api.h]]h"]]h":4n+b
%rP{^Znc*smart_shim/getinfo_api.c]]h#P]]h#P:4n,%0l]bnsmart_shim/getinfo_api.h]]h$3(]]h$3(:4n- kl,II

5Uy5Nsmart_shim/module.mk]]h%`]]h%`:4n.88s$*smart_shim/shim_utils.c]]h&]]h&:4n/u"VL({C'BczC4smart_shim/shim_utils.h]]h']]h':4n1
)%UM<b-<EvNosmartcli/module.mk]]h(;T]]h(;T:4DP$mDsO"=Y5=smartcli/smart_cmi.h]]h) ']]h)
':4DQ0b|\x{smartcli/smart_exec_cli.c]]h)i@]]h)i@:4DRjHF
2h6smartcli/smart_feature_cli.c]]h*A]]h*A:4DS7
v1$:4w+L#smartcli/smart_show_cli.c]]h+]]h+:2gA6nubpsmartcli/smart_test_cli.c]]h,H]]h,H:2xh%26
N/Rj0smartcli/smart_util.c]]h-kI]]h-kI:2`i0Lz
smartcli/smart_util.h]]h.0]]h.0:2.0("\ijHS7smartcli/smart_xml_map.c]]h/E2@]]h/E2@:2;f^(DlT7`tsmartcli/smart_xml_map.h]]h2NK]]h2NK:2
eX9FwUZMeCUsmartcli/smartcli.cmd]]h33]]h33:2&$6smartcli/smartcli.h]]h5#]]h5#:2zK6427
INsmartcli/smartcli_cmd.h]]h6@]]h6@:0?&5#BRBspecfiles/README.txt]]h8bS]]h8bS:0?GT_:'=#eB4|;specfiles/eth_plugin.licspec]]h9]]h9:0?Y^0L*B+W
U=j specfiles/eth_plugin_n5k.licspec],]]h:x =0?w6w
U/% specfiles/eth_plugin_n7k.licspec]]iy]]iy:0?
&9f+!"3specfiles/lic_feat_pkg_map.txt];/Y]]ix=0??kb&vh78&specfiles/lic_feat_pkg_map_for_mds.txt],]]ih0=0?]Uitkj
wv%specfiles/lic_feat_pkg_map_inspur.txt]]i\@]]i\@:0? 0ovulP
%"specfiles/lic_feat_pkg_map_n5k.txt]$]]i#8=0?!_TFdiz"specfiles/lic_feat_pkg_map_n7k.txt]]i&]]i&:0?"C$`[.MA
specfiles/mds_alishan.licspec]
X]]iP=0?#vWXW'nb%specfiles/mds_alishan_gateway.licspec]d]]i
a=0?$]z{/"|%specfiles/mds_alishan_service.licspec]3]]i(=0?%{P95>w#)specfiles/mds_alishan_service_gdb.licspec]
]i]]i :2=2ab2D? specfiles/mds_casablanca.licspec]]i]]i:2uiS,y^`QAcO*specfiles/mds_chester.licspec]]i
]]i
:2;(n(UL
specfiles/mds_cocogrande.licspec]]ip]]ip:28(y'f$specfiles/mds_cocogrande_gdb.licspec]]i.]]i.:2KN4*jspecfiles/mds_cybloc.licspec]]i]]i:2~
2FDul8(specfiles/mds_excal.licspec]]]ig=2i\8sNb
1t|specfiles/mds_huashan.licspec]]i<]]i<:2D#22Eyspecfiles/mds_inagua.licspec]18]]i^`=2
p_*B=7sRespecfiles/mds_ishan.licspec]]i]]i:2MQt#specfiles/mds_ishan_service.licspec]+]]iP=2's#,Tte+specfiles/mds_minishan.licspec]]iwH]]iwH:2 i\8sNb 1t|&specfiles/mds_minishan_service.licspec]]i>h]]i>h:2
J\:J3UBbaspecfiles/mds_niihau.licspec]]i]]i:2|-YWsqD'specfiles/mds_paradise.licspec]8\]]io=5H
[w\b(0X:specfiles/mds_tianshan.licspec]]i6
`]]i6
`:5I9C
|y/lS{PMhyspecfiles/mds_uros.licspec]]iH]]iH:5J>z{f+
specfiles/mds_vegas.licspec]]ib]]ib:5KS-
'0zfxspecfiles/mds_vegas_gdb.licspec];1V]]i=5Lkw=tkI2specfiles/mds_xbow_10.licspec];&]]ip=5McJ*(h
Y0specfiles/mds_xbow_18.licspec];(]]iCX=5N69qLl/specfiles/mds_xbow_6.licspec]
e8]]ib =5O
(gMm
t?\:specfiles/mds_yushan.licspec]H]]iJ=5P
2Nqv'Fa m!specfiles/mds_yushan_mini.licspec];3]]ix=5Qzeq>{>specfiles/nexus_18.licspec]P]]i >.P=5R!kx
,=}specfiles/nexus_9.licspec]]i |@]]i
|@:5Sq7+oEBWspecfiles/nexus_oregon.licspec]]i!'P]]i!'P:5T!(MuF9oWspecfiles/nexus_oregon2.licspec]]i"2]]i"2:5
Uj:mCR}+ ;,specfiles/nexus_oregon2_lic_feat_pkg_map.txt].]]i#g3=22b|(A7$'gspecfiles/nexus_xbow.licspec],
N]]i#=22EjPFnGtDm)tspecfiles/nexus_xbow_18.licspec],`]]i%@H=22AA#e%X&}sMSf#specfiles/nexus_xbow_inspur.licspec]%U]]i&h=22!kx ,=}specfiles/titanium.licspec]]i'
]]i'

:22G)G,Fc\=1specfiles/virt_plugin.licspecTREE126 7
rGr8
iv26cli12 0
LsJxmib4 0
2S6eVW/Rlicmgr35 0
j
GN;hsexamples3 0
2zcR
|Wsmartcli13 0
RXS2_8AcHspecfiles46 0
CCj@wI1slsmart_shim11 0
_\m=C~&@0f`Y`5o[[DW2
ref: refs/remotes/origin/h_cn12k
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld <nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
18b34bd8ae4af33255a6f417361e11786b620994
18b34bd8ae4af33255a6f417361e11786b620994 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235 branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301478
308364ff4b363199edaa4c72c54be421e6eafab9 branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301478
0d9988b3de90d054e1666f39f9e474563369c7c7 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-

15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch 'avalon_nx_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-
15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-
15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-
15301478
02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-
15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-
15301478
69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-
15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-
15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of
https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of
https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-
15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
81afd4e3c64fe90013115c0bc393e26a6aeb19c6 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-

15301478
947493009e8b5bc81c4196a0de081e1560a7abfe branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
b44b68849c01d3c522a065ce7559510609068115 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb3e10d6fd32e9be210d75893c68e00e1b2f8a92 branch 'daox_vem_ss-project' of https://dscm.esl.cisco.com/git/153/comp-15301478
37c7bc3e9015888ae49d995ab027c2d2d96ea8c0 branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301478
372426417e0574776faba0a48bd084b7dde3ce9c branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d05d98bcf4e20379ec9012578a26b1a642cc86b branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301478
2c341ff12fd1d96eb8046af4783ccafaa6919a4a branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301478
6759232f6dc5b608dab6f45ee64e3c003e7c942e branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301478
dd11747c110645522f329da909751dd75b5a7252 branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
542df882658f55c50fe5c5c3ebec2cdbfc1dc0ab branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301478
03badb12a0b66b1421147d9b4a8121e6a7b7bb3b branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301478
693b8b755085214667f3fa7ef1879c99f7034b99 branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
3a98b8c78bff8bf035238d9ceca7b72413cbfbbb branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4a1074031c1dd029a747ee84fee81fda704a3548 branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301478
b02be2a6ea95efaf17e2e7efb17d08371a000472 branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301478
e87da2deb0008f582ab8d3cceb74d48cc6213a88 branch 'eden_feat' of https://dscm.esl.cisco.com/git/153/comp-15301478
62b18d674216af92cb8ee958fe094a9e2121a7a9 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301478

cb9d1e296c178aa2ce9a0227cdbec9b194ea6283 branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301478
576a1d4500233107515f5e524832451c056c33bf branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301478
f936b8772ce3c0969d1530fc0a912c0e06b1cb96 branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fa109d86c4d75e1c2d01318402cf2b257e1535d branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301478
cca1814aba67221e0a2a423c6d49717f6999ec64 branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
f725771fc2469584a5b3a3780e7673d112aabdd8 branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
ea6288281cdf21c428b592521cafcee2150b7628 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301478
e8beebbb8f177e4ab4a15b90b260302ebbb97caa branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d784f97ff5701c9fab71069a51ee90a9600e9a12 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9088f3e60e64a872d019a2d4b3fbbf6d1b81ca branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301478
39eb5b40f093bed1eef7cbdca0b1f88cc4248add branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bbb4c5769f5525d9ac49549968715e6d287df81 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
2b49105ff402ffb3ca2355ea3fe4a800ae44e11b branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301478
1dedcfa86cd9a1f4d4601d9b0a754bfcda18d342 branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
1bbcd7694d98406fb20cdec3e10c6a48119ff908 branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
f323d0d3c2f6bf3cc908c2d15274033aea55cf14 branch 'garibaldi_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
af87e7869259ea7cc89d933b98d646dc6a8a6566 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301478
a2f61f718b1c6a70da15e490d51c7cc047164bb8 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
39f6a6b0231ee05d699903e1d6886849f967a70f branch 'gbr_bundle_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
79063adcab4db50596b782ae5b508492c7a52228 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9d1b0a03db151b8b3a1b8eb026e6362c042995 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fd0e000351d1c7ec818a79a9ee8abec254da5ea branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301478
96d2457c996fd955e9a4c7c0e7ef52da142cd672 branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301478
c1ab9aefc6b1347982a0b6ff2925c54d33a85392 branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301478
0dad6c5fe8bdaa73caae3402883ff324d2378508 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301478
ad7a0e02db66b29c9dae415301f096eaf6ecff60 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
11fe16388c801c29bdb744ae63bef535e3a18753 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301478

7e22a7dba2ee8ca8ffa2b3571596e2d8d18bb6cb branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301478
d097c8e9cb853f785b88701bb552dfbbc9894135 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301478
c7d0229dcc541520afc7b4d1c6e7ab010095f77d branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
e1bd69b934c4073d8cefb6e7996ead22e511d71f branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301478
d4f59c0474caaa0e41fd7ad6f929eb743dd5f324 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6705e834ba11db6846c855c443b55ac2e5830df branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6e7312ad4223318e9549e8200b58cbbb9c69e03 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301478
ef661f472337a84c6f96e3ee4e7d608ee02bf91b branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
36b7d19577707d8e73cd9c87fa49e21f2f54be4a branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301478
f507d20dbc7a4927d91862c6c6ef222b324ce456 branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
d11df479f60faa7782bae049c1d8f6d0c5b97bf8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301478
c3a0d8739d0aee04c9c26283d2a5d5bfbab112fc branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3dd46f7e5233681d53d946704f3b8484ba79edb branch 'ias' of https://dscm.esl.cisco.com/git/153/comp-15301478
140eb4191a66314e9841045d35d51516e1fa9413 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8312481aa1fdf22a586c7445cd40ef0eb622f6a branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301478
4fefc143cb49a0ffeadae3801a9496a7c1b5eeee branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301478
415b381b092ad1ecb639827edd6574779f38e8c6 branch 'ioa' of https://dscm.esl.cisco.com/git/153/comp-15301478
69b89a6b04f7bf692aaa07258ede18e84a91701b branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301478
d337838222cbb6b6380522946690749e8f339e17 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
1fdcabb6ae1e50c233361876735356c91496da37 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301478
059f8da47808923f2683f14086a54c76640d1534 branch 'iscm_ss_atherton' of https://dscm.esl.cisco.com/git/153/comp-15301478
fc51afb403f07b3c70daaf1ac5bf80c3c1774b42 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
3dfd9ac75e0d6e2e1e03907cd1010c2846ab6e33 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
ba2fd9569703df93afb794d1e02f29050a9ac138 branch 'itasca_vo_181b' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6ef8e01e35d97da1e8ca34264a05cb2dbd4d7 branch 'itasca_vo_191' of https://dscm.esl.cisco.com/git/153/comp-15301478
b901961fb218f1e4f787994711fea2365dc01dd8 branch 'itasca_vo_21033' of https://dscm.esl.cisco.com/git/153/comp-15301478

fbcf64c850e1f61582489993ce99012d4c246437 branch 'itasca_vo_2106' of https://dscm.esl.cisco.com/git/153/comp-15301478
23032b1bdcb3039cab2c9bebc452584104d00850 branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
276c2c17817d79a12a21f98ab8efc7e6ace890f7 branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301478
eef6ca0c2e377e90a281ca79909357e61e7162d2 branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0183e78dcf974af418008c22ee73c524f8065fa branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301478
db2a7d37016efef4a0d076cc33de929f5bd81f12 branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301478
af8b7325142cd9d4f6194cbdb6d8478d34a136da branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-15301478
b545c1bb678c670a1e0542335e5f937bc62d9607 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301478
b63bd4541f35d414c9c8522643cc89a6b04ea973 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301478
6cf77b3e21752b254295c80abf27f1d4ccfbdabb branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301478
fd76e8f6248812daa20ea5ccbfe0944034aedacb branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
8be7d6032a008a2eaf4ea90146bb31f71a0821ef branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-15301478
2e9f71651efea96ce7ee64a94cc027681e4c9383 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
c4f96f211387be7f74487ef50aace6d9bb2f2286 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6d6fa4ddaa707b89d308923496d7742524fa691 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301478
982b1b6f225f4ccb7e1827a24630f27f500b738c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301478
663d9fb2685a9fc05729f83f9b1bd22c7b7ed788 branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3e1206a99d0876716096a242405306e237684f6 branch 'n9k_redmond_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
989ed9ca2ca04fb1c103ca40ca5ef8ea8be36cb8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301478
0c0aa09eafeeba2d8002c8b49af22e16ee5c1f03 branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301478
46d91c04fe17073fc7dded151478b6fb1288b993 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301478
af942f9d5bbd9f218dbb9f21b5f328fddeab29e3 branch 'pf_dev1' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fd848d04fcb1f5e33d4444fc677f8eea6beb686 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301478
f2bc608817a1b04e2ce81901c12d34069d54d817 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301478
209779d347aaa695a32863d27f969242a5b9d23f branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301478
c0d1ed5843a711a9b43143bd16990542f5c9c113 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301478
aeec478944bec360f74ce37afae785d380f77fb9 branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301478

9431c359fbc453db8726c3f1081af2eed181654e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301478
f809ccbf2af5aef25ffb8de4f562c0bfc6791688 branch 'rel_3_0_0_a1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
87d93bc1be10f610ce2eb468cda112f2ea54292f branch 'rel_3_3_2_1224937999' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05c5023d78da3ea7f714b23cd65122180fdba92a branch 'rel_3_4_1_1213608616' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c5f3d774503d3016a38c82dfd55c9c59d928c6b1 branch 'rel_4_2_0_181_1238668610' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ac514a85ac99106c66769ccd4e4e86ee314fced7 branch 'rel_4_2_0_232_1245089908' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4b4b4dec07d40bbf32c9879ab90af1cf3e791950 branch 'rel_5_0_0_107a_1240538733' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5f5579b0d72a3f9473728ceaaac6c1466e39bd1c branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ff1a854d0ff7e5c0931f314b12082860feb640e1 branch 'rel_5_2_0_270_1303376229' of
https://dscm.esl.cisco.com/git/153/comp-15301478
01afa718a42114dd05b0f0a446686c3e89b4f0e6 branch 'rel_6_2_0_136_1340789244' of
https://dscm.esl.cisco.com/git/153/comp-15301478
689377c1cf4f911431016c5fe6e226845b650492 branch 'rel_6_2_0_166_1340955287' of
https://dscm.esl.cisco.com/git/153/comp-15301478
646a4b83eea9f721abaa5cd580d116969f64b46d branch 'rel_6_2_0_257_1352462481' of
https://dscm.esl.cisco.com/git/153/comp-15301478
20acb97f034c3a8334c38b22606396e76a63a339 branch 'rel_6_2_1_1358881414' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fc08ef49bd79a75f25ed383199bec797979c1f0 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301478
751414a01ab1b7a88e07b326f208b9f0c7f6975f branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7c615c6307d1368a3fe35fd0c5bc543e810302cc branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
951b02670b44338cb9dc08907f9dab8f82d97eaf branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301478
8e06fe9b97684f2bdcde119b23a03dc34d491584 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f99b05b7b6f6c8a4be4a48ac41a8a571a8aa24dc branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301478
22f08f6fb3a9342449b5d500089beaf540cf9d1b branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05fe7b9455364a33abf847c3ec05d731867f1045 branch 'rel_6_2_25_1539182315' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6050a58b40da4df4befdcf88556c6861cd67fe35 branch 'rel_6_2_25_1539191823' of
https://dscm.esl.cisco.com/git/153/comp-15301478
2a048c6f1c03349355e52c52935c2aeaa53efe11 branch 'rel_6_2_25_1539238092' of
https://dscm.esl.cisco.com/git/153/comp-15301478
37372dd95365436d3d3f3b101354d4a92ca3910f branch 'rel_6_2_25_1539239655' of
https://dscm.esl.cisco.com/git/153/comp-15301478
71c8ea4d50a392fb3dabab1da6f0ea4ab07d908f branch 'rel_6_2_25_1539248473' of

https://dscm.esl.cisco.com/git/153/comp-15301478
df97caa3defec8513e1a2204344e6390877deb89 branch 'rel_6_2_25_1539249764' of
https://dscm.esl.cisco.com/git/153/comp-15301478
079bdbabd79f7fa548ed9ee1dc1d3b04d21d3ff2 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9523106cb6551f85591b17c54311433ff8087dfc branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5d3123e6c405ae90a2341ab990127f31dbbba3ea branch 'rel_7_3_0_d1_1c_1470763162' of
https://dscm.esl.cisco.com/git/153/comp-15301478
3fd68c8fd1dadc4ffd1acd68989e5a25e1217fcf branch 'rel_7_3_2_d1_1a_1506152203' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ce8c8e553b059b7b99eb3bb4097613c2c5c768df branch 'rel_7_3_2_d1_1a_1506154528' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4813f1d402bb0b717762abd7c7bf4eca73766ed8 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fb9c13257ffdfab5962c1ba62a724a5fb7e6ae5 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
637a0b9c22dce42c9f17a88d104dbb5772e89ad1 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6082bed932f2aed4226b321e0d0ef659acd39fc6 branch 'rel_a3_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72fddd58f69efdf8cf9cfcf168963bfe28a089bf branch 'rel_a3_2_0_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
37b7ca7e8f6a3324b7084ebc1a0d1812bd93efad branch 'rel_a41_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3ea3bc2282a05d52e707453d38821cb91a1533c branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72470eab26284961e1c89db71301559e12bef166 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
66356d491a36335a136a8f0815f4067ddec9d4bc branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301478
b53c16eead58d6956c4b0764defa4423aec50033 branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
753b4aa31444c4bcaf19de0ca2a9f4715df44e00 branch 'sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
e155771334f2f31cafdb7008a3b2966b0f1d0e4d branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
098a0a196c019d4ee4a4bc15c348fca81235b069 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301478
48446a4b5fe9108d3d29d43acbe572535c5f97c0 branch 'scsi_3_0_0_335' of
https://dscm.esl.cisco.com/git/153/comp-15301478
105aa02289eea3020bae4a9aa87ed60fe3e2fa1f branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301478
21b124375bab313594e33834cd72d557abd80db8 branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301478
3202a93cf5ed097f2e727003fdecb30998977aa3 branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301478
07ad4755c9cc043b50c7f46bb69ed0190a170582 branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301478
f30c7f51d5516bd9edccd197209cbe0a879ae4ad branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478

91d074c2a66b413ca62a9afbe04802ef0bc12947 branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301478
b84db97b172c99605dec6dc11752c5b129861e1b branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301478
7a0106b95924f463eecd51e8fbc0f97f01be48df branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fa196950d2e766be74d183453588a4fcc92601a branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f06e1ed0483da8b4374451d688f81a77b4de5d9e branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301478
353bdbdf012daf882a63fb13c14639aa58b85d41 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301478
55c1b9cd1e7cfb5fd1bdddafe80c78047d5db7be branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301478
5653a55eaa0b143ab0478f5a26049dcc829c1830 branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
aaac4ed52c966ea355f983b1097a7461de97a192 branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301478
8fc0e776de65ec8a55a4468d62183d1ea5f8e2b8 branch 'smu_n7k_r710_sajjad_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
71dada888ce90cd69c3970561940ce98b9977941 branch 'smu_n7k_r710_temp' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8f993be6024be49e485ec745d37db9c97c18259 branch 'sp_skywalker_73_161130_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3ae6f149c770ad44aedcc35432f514947e4e887 branch 'st_demo_lu_pair_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd7423520b4ae3f92fa04577f2342744feb3294e branch 'st_freetown_clone' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bc93c134779efbe23e065084b6d8d1dade45f65 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301478
50f390f9ed8b9286c7b311111d3532ff7021a506 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301478
65e581399de4e9d700c36e5c28948457a2fd599c branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
52a5af46815ea0d9d842ba020e104f7cccce88dc branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301478
1efa7a9070b4abf9f30bbb526c9d9ef301ed42d2 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
891a5faaf8543fa6cc07cc80cdde010722906e83 branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301478
315803f020b43a75703e1bcd28ef412f53c0aeed branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301478
0556f775d55169ee22de821b23d64b4f39e4c413 branch 'test_branching_time2' of https://dscm.esl.cisco.com/git/153/comp-15301478
8713f07d6198f5072dd23927e4760828def510ee branch 'throttle_sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
38dbf00b4621334c955d3289fd92fd51d5f0f305 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478

0e9da8a85ef3efa5f3aa180dc2fc24ba5d8b4f77 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301478
865d29dbafb9353d3be76c1bd63b70cf08606b7f branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301478
525dd7727316385b75a7a224cd1431e4dd4e4451 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
904185ec6f5103b66d17d6b8da11a692191b96b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301478
849ec2d80fdae023651c4f52d2fbe13dcf760a04 branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4490d20595812a0f4916ac9d7e53482428865ae3 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
82815a4d2ad9eddf3c51a22298ea2059018cc6c1 branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
80f161749264fc319e7f68bfa4884414b88670c1 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301478
76cf7da6ea2506d4a341ef921e7b7217779fd4f3 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301478
21ba2465d0cbedf990f933a3c03b97197d6149ce branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d2e118677aae02b25ce1c0460708b36e17d2ead branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
0eea74a6c3bb3141bd056b6c291cadce2085df7f branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301478
a6317fa6bea14fb21bae125f5bea5daa328cac16 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301478
042a2f1ab8db9e1db17ccdb72e8c00c5274b3d12 branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301478
6d8037027b72e1f1ea13c9b60ee0365276bf6ab5 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d7eb3558c14a0ad99eb671c72244533b0a96a65 branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ac1838dd71f9a0ca114d5a54261dbac4265e558 branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301478
d7d0184d733403ce16715e0a01278781fcf2acab branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
dc13f3ad869914012eced3645efed76807b27be9 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6b8d82b5685771f81fdfd56bf8a0e4be59565 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf
0000000000000000000000000000000000000000 18b34bd8ae4af33255a6f417361e11786b620994 nxbld
<nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*:
storing ref
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
caaa75e0b83f705095b8e9759a6c2468a1e07e98 333f8b22c5dad178e0e0fc0db61cc88b252a5a4c nxbld
<nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld
<nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git

1.310 sim-agent-types 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.310.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.311 linux_kernel_zlib 4.1.21

1.311.1 Available under license :

FlashPoint Driver Developer's Kit
Version 1.0

Copyright 1995-1996 by Mylex Corporation
All Rights Reserved

This program is free software; you may redistribute and/or modify it under the terms of either:

a) the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version,

or

b) the "BSD-style License" included below.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public License or the BSD-style License below for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

The BSD-style License is as follows:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain this LICENSE.FlashPoint file, without modification, this list of conditions, and the following disclaimer. The following copyright notice must appear immediately at the beginning of all source files:

   Copyright 1995-1996 by Mylex Corporation. All Rights Reserved

   This file is available under both the GNU General Public License and a BSD-style copyright; see LICENSE.FlashPoint for details.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of Mylex Corporation may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY MYLEX CORP. ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Copyright (c) 2009-2013 QLogic Corporation
QLogic Linux qlcnic NIC Driver

You may modify and redistribute the device driver code under the GNU General Public License (a copy of which is attached hereto as Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
Copyright (c) 2003-2013 QLogic Corporation
QLogic Linux iSCSI Driver

This program includes a device driver for Linux 3.x.
You may modify and redistribute the device driver code under the GNU General Public License (a copy of which is attached hereto as Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we

want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
* Copyright (c) 1996 University of Cambridge Computer Laboratory
*
*   This program is free software; you can redistribute it and/or modify
*   it under the terms of the GNU General Public License as published by
*   the Free Software Foundation; either version 2 of the License, or
*   (at your option) any later version.
*
```

```
*   This program is distributed in the hope that it will be useful,
*   but WITHOUT ANY WARRANTY; without even the implied warranty of
*   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*   GNU General Public License for more details.
*
*   You should have received a copy of the GNU General Public License
*   along with this program; if not, write to the Free Software
*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

Code in this directory written at the IDA Supercomputing Research Center
carries the following copyright and license.

```
  Copyright 1993 United States Government as represented by the
  Director, National Security Agency.  This software may be used
  and distributed according to the terms of the GNU General Public License,
  incorporated herein by reference.

  In addition to the disclaimers in the GPL, SRC expressly disclaims any
  and all warranties, expressed or implied, concerning the enclosed software.
  This software was developed at SRC for use in internal research, and the
  intent in sharing this software is to promote the productive interchange
  of ideas throughout the research community.   All software is furnished
  on an "as-is" basis.  No further updates to this software should be
  expected.  Although updates may occur, no commitment exists.
 Copyright (c) 2003-2006, Marvell International Ltd.
All Rights Reserved

This program is free software; you can redistribute it and/or modify it
under the terms of version 2 of the GNU General Public License as
published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc., 59
Temple Place - Suite 330, Boston, MA  02111-1307, USA.

"This software program is licensed subject to the GNU General Public License
(GPL). Version 2, June 1991, available at
<http:
```

GNU General Public License

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

   Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   * a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

   * b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

* c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

* a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

* b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily

used for software interchange; or,

* c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

   If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

   It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

   This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

   Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your option)
any later version.

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc., 59
Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when
it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes
with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free
software, and you are welcome to redistribute it under certain conditions;
type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may be
called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.
Copyright (c) 2003-2006 QLogic Corporation
QLogic Linux Networking HBA Driver

This program includes a device driver for Linux 2.6 that may be distributed with QLogic hardware specific firmware binary file. You may modify and redistribute the device driver code under the GNU General Public License as published by the Free Software Foundation (version 2 or a later version).

You may redistribute the hardware specific firmware binary file under the following terms:

1. Redistribution of source code (only if applicable), must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of QLogic Corporation may not be used to endorse or promote products derived from this software without specific prior written permission

REGARDLESS OF WHAT LICENSING MECHANISM IS USED OR APPLICABLE, THIS PROGRAM IS PROVIDED BY QLOGIC CORPORATION "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

USER ACKNOWLEDGES AND AGREES THAT USE OF THIS PROGRAM WILL NOT CREATE OR GIVE GROUNDS FOR A LICENSE BY IMPLICATION, ESTOPPEL, OR OTHERWISE IN ANY INTELLECTUAL PROPERTY RIGHTS (PATENT, COPYRIGHT, TRADE SECRET, MASK WORK, OR OTHER PROPRIETARY RIGHT) EMBODIED IN ANY OTHER QLOGIC HARDWARE OR SOFTWARE EITHER SOLELY OR IN COMBINATION WITH THIS PROGRAM.

NOTE! This copyright does *not* cover user programs that use kernel services by normal system calls - this is merely considered normal use of the kernel, and does *not* fall under the heading of "derived work". Also note that the GPL below is copyrighted by the Free Software

Foundation, but the instance of code that it refers to (the Linux kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel is concerned is _this_ particular version of the license (ie v2, not v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
 for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
 for his work on the budget drivers, the demux code,
 the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
 for his work on calculating and checking the crc's for the
 TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
 for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
 for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
 for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
 for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
 for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org>
 for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
 for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
 for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
 for the or51211 and or51132 frontend drivers, and
 for merging the nxt2002 and nxt2004 modules into a
 single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)
Copyright (c) 2003-2014 QLogic Corporation
QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.

You may modify and redistribute the device driver code under the GNU General Public License (a copy of which is attached hereto as Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among
countries not thus excluded. In such case, this License incorporates
the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions
of the General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program
specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
Copyright (c) 2003-2011 QLogic Corporation
QLogic Linux qlge NIC Driver

You may modify and redistribute the device driver code under the GNU General Public License (a copy of which is attached hereto as Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.312 otel-metric 0.27.0

1.312.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift

Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>

```
#
#   Copying and distribution of this file, with or without
#   modification, are permitted in any medium without royalty provided
#   the copyright notice and this notice are preserved.
```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
```

//
// 3. The name of the author may be used to endorse or promote products
//   derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.313 miekg-dns 0.0.0-20171030065549-a5852667e3c3

1.313.1 Available under license :

Copyright 2009 The Go Authors. All rights reserved. Use of this source code
is governed by a BSD-style license that can be found in the LICENSE file.
Extensions of the original work are copyright (c) 2011 Miek Gieben

Copyright 2011 Miek Gieben. All rights reserved. Use of this source code is

governed by a BSD-style license that can be found in the LICENSE file.

Copyright 2014 CloudFlare. All rights reserved. Use of this source code is
governed by a BSD-style license that can be found in the LICENSE file.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

As this is fork of the official Go code the same license applies.
Extensions of the original work are copyright (c) 2011 Miek Gieben
Alex A. Skinner
Andrew Tunnell-Jones
Ask Bjrn Hansen
Dave Cheney
Dusty Wilson
Marek Majkowski
Peter van Dijk
Omri Bahumi
Alex Sergeyev
James Hartig

1.314 gopkg.in-yaml 3.0.1

1.314.1 Available under license :

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.315 iptables 1.6.2

1.315.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as

distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.316 shared-mime-info 1.1

1.316.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to

using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below,

refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
MSCFF,DYF6Zm COPYINGLG2#YFYF GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free

software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this

License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any

associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes

make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The RelaxNG schemas in this directory are available under
under [the W3C Test Suite License](http://www.w3.org/Consortium/Legal/2008/04-testsuite-license.html).

See https://github.com/w3c/its-2.0-testsuite#licensing-information

1.317 webencodings 0.5.1

1.317.1 Available under license :

No license file was found, but licenses were detected in source scan.

:license: BSD, see LICENSE for details.

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/x_user_defined.py
No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, find_packages
import io
from os import path
import re


VERSION = re.search("VERSION = '([^']+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8'
).read()


setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
```

```
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)
```

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/setup.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings
```
    ===================

    This is a Python implementation of the `WHATWG Encoding standard
    <http://encoding.spec.whatwg.org/>`_.

    * Latest documentation: http://packages.python.org/webencodings/
    * Source code and issue tracker:
      https://github.com/gsnedders/python-webencodings
    * PyPI releases: http://pypi.python.org/pypi/webencodings
    * License: BSD
    * Python 2.6+ and 3.3+

    In order to be compatible with legacy web content
    when interpreting something like ``Content-Type: text/html; charset=latin1``,
    tools need to use a particular set of aliases for encoding labels
    as well as some overriding rules.
    For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
    aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
```

```
        over any other encoding declaration.
        The Encoding standard defines all such details so that implementations do
        not have to reverse-engineer each other.

        This module has encoding labels and BOM detection,
        but the actual implementation for encoders and decoders is Python's.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-
0.5.1/webencodings.egg-info/PKG-INFO
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/PKG-
INFO
No license file was found, but licenses were detected in source scan.

"""

  webencodings.mklabels
  ~~~~~~~~~~~~~~~~~~~~~~

  Regenarate the webencodings.labels module.

  :copyright: Copyright 2012 by Simon Sapin
  :license: BSD, see LICENSE for details.

"""

import json
try:
  from urllib import urlopen
except ImportError:
  from urllib.request import urlopen
```

```
def assert_lower(string):
    assert string == string.lower()
    return string


def generate(url):
    parts = ['''\
"""

    webencodings.labels
    ~~~~~~~~~~~~~~~~~~~

    Map encoding labels to their name.

    :copyright: Copyright 2012 by Simon Sapin
    :license: BSD, see LICENSE for details.

"""

# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
''']
    labels = [
        (repr(assert_lower(label)).lstrip('u'),
         repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        '    %s:%s %s,\n' % (label, ' ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}')
    return ''.join(parts)


if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))
```

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

python-webencodings
==========

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
 https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Python's.

Found in path(s):
* /opt/cola/permits/1401468445_1661617535.3616152/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/README.rst

1.318 free-type 2.5.3

1.318.1 Available under license :

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
  appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be

misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
License
****

Copyright (C) 2001-2002 by Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*** Portions of the driver (that is, bdflib.c and bdf.h):

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2002, 2011 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Credits
****

This driver is based on excellent Mark Leisher's bdf library. If you find something good in this driver you should probably thank him, not me.

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in any of your projects or products.

- The FreeType License, found in the file `FTL.TXT', which is similar to the original BSD license *with* an advertising clause that forces you to explicitly cite the FreeType project in your product's documentation. All details are in the license file. This license is suited to products which don't use the GNU General Public License.

  Note that this license is compatible to the GNU General Public License version 3, but not version 2.

- The GNU General Public License version 2, found in `GPLv2.TXT' (any later version can be used also), for programs which already use the GPL. Note that the FTL is incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file src/bdf/README and src/pcf/README).

The gzip module uses the zlib license (see src/gzip/zlib.h) which too is compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development builds) is in the public domain.

--- end of LICENSE.TXT ---

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

o We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

o You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a

credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
"""
  Portions of this software are copyright " <year> The FreeType
  Project (www.freetype.org).  All rights reserved.
"""
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS

BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it.

Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

--- end of FTL.TXT ---
License
****

Copyright (C) 2000 by Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Credits
****

Keith Packard wrote the pcf driver found in XFree86. His work is at the same time the specification and the sample implementation of the PCF format. Undoubtedly, this driver is inspired from his work.

1.319 curl 7.88.1

1.319.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (C) Daniel Stenberg, <daniel@haxx.se>, and many contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.
Copyright (c) <year> <owner>.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
BSD-4-Clause (University of California-Specific)

Copyright [various years] The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the University of California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2023, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization of the copyright holder.
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.320 open-ldap 2.4.46

1.320.1 Available under license :

The OpenLDAP Public License
Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation
("Software"), with or without modification, are permitted provided
that the following conditions are met:

1. Redistributions in source form must retain copyright statements
   and notices,

2. Redistributions in binary form must reproduce applicable copyright
   statements and notices, this list of conditions, and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time.
Each revision is distinguished by a version number. You may use
this Software under terms of this license revision or under the
terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS
CONTRIBUTORS ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT
SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S)
OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in
advertising or otherwise to promote the sale, use or other dealing
in this Software without specific, written prior permission. Title
to copyright in this Software shall at all times remain with copyright
holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City,
California, USA. All Rights Reserved. Permission to copy and
distribute verbatim copies of this document is granted.
Copyright 1998-2018 The OpenLDAP Foundation
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted only as authorized by the OpenLDAP
Public License.

A copy of this license is available in the file LICENSE in the
top-level directory of the distribution or, alternatively, at
<http://www.OpenLDAP.org/license.html>.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Individual files and/or contributed packages may be copyright by
other parties and/or subject to additional restrictions.

This work is derived from the University of Michigan LDAP v3.3
distribution. Information concerning this software is available
at <http://www.umich.edu/~dirsvcs/ldap/ldap.html>.

This work also contains materials derived from public sources.

Additional information about OpenLDAP can be obtained at
<http://www.openldap.org/>.

Portions Copyright 1998-2012 Kurt D. Zeilenga.
Portions Copyright 1998-2006 Net Boolean Incorporated.
Portions Copyright 2001-2006 IBM Corporation.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted only as authorized by the OpenLDAP
Public License.

Portions Copyright 1999-2008 Howard Y.H. Chu.
Portions Copyright 1999-2008 Symas Corporation.
Portions Copyright 1998-2003 Hallvard B. Furuseth.
Portions Copyright 2007-2011 Gavin Henry.
Portions Copyright 2007-2011 Suretec Systems Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that this notice is preserved.
The names of the copyright holders may not be used to endorse or
promote products derived from this software without their specific
prior written permission. This software is provided ``as is''
without express or implied warranty.

Portions Copyright (c) 1992-1996 Regents of the University of Michigan.
All rights reserved.

Redistribution and use in source and binary forms are permitted
provided that this notice is preserved and that due credit is given
to the University of Michigan at Ann Arbor. The name of the
University may not be used to endorse or promote products derived
from this software without specific prior written permission. This
software is provided ``as is'' without express or implied warranty.

1.321 distlib 0.3.3

1.321.1 Available under license :

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes

2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License

Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

Distutils2 Contributors

==========

The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet

- Jeremy Kloth
- Thomas Kluyver
- Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe
- Alain Leufroy
- Janusz Lewandowski
- Martin von Lwis
- Hugo Lopes Tavares
- Guillermo Lpez-Anglada
- Justin Love
- Simon Mathieu
- Carl Meyer
- Alexis Mtaireau
- Julien Miotte
- Zubin Mithra
- Derek McTavish Mounce
- Paul Moore
- Michael Mulich
- Louis Munro
- Gal Pasgrimaud
- George Peristerakis
- Mathieu Perreault
- Guillaume Pratte
- Sean Reifschneider
- Antoine Reversat
- Arc Riley
- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Copyright (C) 2013 by Test User.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Vinay Sajip
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.

VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING

ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
BSD-licensed.

1.322 klauspost-compress 1.13.6

1.322.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be

added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Alex Legg <alexlegg@google.com>
Damian Gryski <dgryski@gmail.com>
Eric Buth <eric@topos.com>
Jan Mercl <0xjnml@gmail.com>
Jonathan Swinney <jswinney@amazon.com>
Kai Backman <kaib@golang.org>
Klaus Post <klauspost@gmail.com>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: gzhttp/*

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.323 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

1.323.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.324 coreutils 8.30

1.324.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to

any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work

for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to

produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a

written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial

commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option

remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible

for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may

not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,

THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.325 lzo 2.10

1.325.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.326 ed 1.9

1.326.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer

can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users

can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in

source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant

patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily

for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future

versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.327 sysklogd 1.5.0

1.327.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.328 autogen 5.10

1.328.1 Available under license :

<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Lesser General Public License,
<PFX>version 3 or later <http://gnu.org/licenses/lgpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU Lesser General Public License as published
<PFX>by the Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU Lesser General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Lesser General Public License
<PFX>along with this program. If not, see <http://www.gnu.org/licenses/>.";

the GNU Lesser General Public License, version 3 or later
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU General Public License,
<PFX>version 2 <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of version 2 of the GNU General Public License,
<PFX>as published by the Free Software Foundation.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU General Public License,
<PFX>version 2, along with this program.

<PFX>If not, see <http://www.gnu.org/licenses/>.

the GNU General Public License, version 2
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU General Public License,
<PFX>version 3 or later <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU General Public License as published by the
<PFX>Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU General Public License along
<PFX>with this program. If not, see <http://www.gnu.org/licenses/>.

the GNU General Public License, version 3 or later
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany

the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new

free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works

for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section

7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could

give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have

permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Affero GPL, version 3
<PFX>or later <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU General Public License as published by the
<PFX>Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU Affero General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Affero General Public License
<PFX>along with this program. If not, see <http://www.gnu.org/licenses/>.

GNU Affero GPL, version 3 or later
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Lesser General Public License,
<PFX>version 2 or later <http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

<PFX>The <program> library is free software; you can redistribute it and/or
<PFX>modify it under the terms of the GNU Library General Public License as
<PFX>published by the Free Software Foundation; either version 2 of the
<PFX>License, or (at your option) any later version.
<PFX>
<PFX>This library is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
<PFX>Library General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Library General Public
<PFX>License along with this library; if not, see
<PFX><http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

the GNU Lesser General Public License, version 2.0 or later
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free

program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy,

represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has

no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated

location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History"

in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate'' if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.
Replacing Invariant Sections with translations requires special
permission from their copyright holders, but you may include
translations of some or all Invariant Sections in addition to the
original versions of these Invariant Sections. You may include a

translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different

permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.329 kubernetes-api 0.26.2

1.329.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.330 jcommon 0.7.2

1.330.1 Available under license :

.
nameLjava/lang/String;email<init>'(Ljava/lang/String;Ljava/lang/String;)VCodegetName()Ljava/lang/String;getEmail "com/jrefinery/ui/about/Contributorjava/lang/Object()V!
**+*,
*
*
.

GPLLjava/lang/String;
ConstantValueLGPL<init>()VCode
com/jrefinery/ui/about/Licencesjava/lang/ObjectDGNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 675 Mass Ave, Cambridge, MA 02139, USA. Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version

number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the

implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
eSGNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library,

so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.
1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you

also meet all of these conditions:

* a) The modified work must itself be a software library.
* b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
* c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
* d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent

access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

* a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
* b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
* c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
* d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access

to copy the above specified materials from the same place.
* e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

* a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
* b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
!
*

1.331 gojsonschema 1.2.0

1.331.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.332 libusb-compat 0.1.0

1.332.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge

for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General

Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
"any later version", you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF
SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
libusb is covered by the LGPL:

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the
Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA.

Alternatively, the files usb.h.in and/or usb.h may be licensed under the
BSD license:

Copyright (c) 2000-2003 Johannes Erdfelt <johannes@erdfelt.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.333 xml-apis 1.4.01

1.333.1 Available under license :

xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 225954 2002-01-31 23:26:48Z curcuru $

This license came from: http://www.megginson.com/SAX/copying.html

However please note future versions of SAX may be covered
under http://saxproject.org/?selected=pd

This page is now out of date -- see the new SAX site at
http://www.saxproject.org/ for more up-to-date
releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for
XML), and release all of the SAX 2.0 source code, compiled code, and
documentation contained in this distribution into the Public Domain.
SAX comes with NO WARRANTY or guarantee of fitness for any
purpose.

David Megginson, david@megginson.com
2000-05-05
xml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 734314 2009-01-14 03:33:27Z mrglavas $

This license came from: http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.zip (COPYRIGHT.html)

W3C SOFTWARE NOTICE AND LICENSE
Copyright 2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and
License. The software license requires "Notice of any changes or modifications
to the W3C files, including the date changes were made." Consequently, modified
versions of the DOM bindings must document that they do not conform to the W3C
standard; in the case of the IDL definitions, the pragma prefix can no longer
be 'w3c.org'; in the case of the Java language binding, the package names can no
longer be in the 'org.w3c' package.

Note: The original version of the W3C Software Copyright Notice and License could
be found at http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee) agree
that you have read, understood, and will comply with the following terms and
conditions.

Permission to copy, modify, and distribute this software and its documentation,

with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.
2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.
3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.
xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 226215 2005-06-03 22:49:13Z mrglavas $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-20021231

W3C DOCUMENT LICENSE
http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231

Public documents on the W3C site are provided by the copyright holders under the following license. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

1. A link or URL to the original W3C document.
2. The pre-existing copyright notice of the original author, or if it doesn't exist, a notice (hypertext is preferred, but a textual representation is permitted) of the form: "Copyright [$date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/2002/copyright-documents-20021231"
3. If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, moves information on style sheets, DTDs, and schemas to the Copyright FAQ, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, such as the translating or annotating specifications. Other questions about this notice can be directed

to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
 =========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache xml-commons xml-apis      ==
==  distribution.                                                      ==
=========================================================================
```

Apache XML Commons XML APIs
Copyright 1999-2009 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org

1.334 open-telemetry-opentelemetry-collector-contrib 1.4.0

1.334.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.335 curl 7.77.0

1.335.1 Available under license :

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1996 - 2021, Daniel Stenberg, <daniel@haxx.se>, and many
contributors, see the THANKS file.

All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright
notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not
be used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization of the copyright holder.

1.336 cpio 2.11

1.336.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to

share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to

avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status

of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by

this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the

additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a

party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.337 tftp-hpa 0.28

1.337.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1983, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions

```
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,

```
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
```

```
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
```

- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody

is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

.\" -*- nroff -*- -- *
.\"
.\" Copyright (c) 1990, 1993, 1994
.\"   The Regents of the University of California. All rights reserved.
.\"
.\" Copyright 2001 H. Peter Anvin - All Rights Reserved
.\"
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"   notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\"   may be used to endorse or promote products derived from this software
.\"   without specific prior written permission.
.\"
.\" THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
.\" ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
.\" IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

.\" ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
.\" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
.\" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
.\" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"-- */

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/* -- *
*
*   Copyright 2001 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* -- */

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h
No license file was found, but licenses were detected in source scan.

.\" -*- nroff -*- --- *
.\"
.\" Copyright (c) 1990, 1993, 1994
.\"   The Regents of the University of California. All rights reserved.
.\"
.\" Copyright 2001-2009 H. Peter Anvin - All Rights Reserved
.\"
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"   notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\"   may be used to endorse or promote products derived from this software
.\"   without specific prior written permission.
.\"

.\" THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
.\" ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
.\" IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
.\" ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
.\" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
.\" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
.\" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"-- */

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine. This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations. The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed. The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

```
%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.
```

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>

- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).

- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp.spec.in
No license file was found, but licenses were detected in source scan.

```
/* ---------------------------------------------------------------------- *
*
*   Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/remap.h
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1983 Regents of the University of California.
* Copyright (c) 1999-2009 H. Peter Anvin
* Copyright (c) 2011 Intel Corporation; author: H. Peter Anvin
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
```

```
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c
No license file was found, but licenses were detected in source scan.

```
/* -*- c -*- ------------------------------------------------------------ *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

```
/* ---------------------------------------------------------------------- *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
No license file was found, but licenses were detected in source scan.

```
##   Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
```

This program is free software available under the same license

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1993
* The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
* /opt/cola/permits/1084961554_1610175962.28/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/extern.h

1.338 gopkg.in-ini 1.67.0

1.338.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit

on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form

of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 Unknwon

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.339 gopkg.in-yaml 2.4.0

1.339.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go
writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.340 fsnotify 1.6.0

1.340.1 Available under license :

Copyright 2012 The Go Authors. All rights reserved.
Copyright fsnotify Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.341 grep 2.21

1.341.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.342 linux-kernel 5.10.149

1.342.1 Available under license :

FlashPoint Driver Developer's Kit
Version 1.0

Copyright 1995-1996 by Mylex Corporation
All Rights Reserved

This program is free software; you may redistribute and/or modify it under
the terms of either:

a) the GNU General Public License as published by the Free Software
Foundation; either version 2, or (at your option) any later version,

or

b) the "BSD-style License" included below.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public
License or the BSD-style License below for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
675 Mass Ave, Cambridge, MA 02139, USA.

The BSD-style License is as follows:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain this LICENSE.FlashPoint
file, without modification, this list of conditions, and the following
disclaimer. The following copyright notice must appear immediately at
the beginning of all source files:

Copyright 1995-1996 by Mylex Corporation. All Rights Reserved

This file is available under both the GNU General Public License
and a BSD-style copyright; see LICENSE.FlashPoint for details.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. The name of Mylex Corporation may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY MYLEX CORP. ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's

source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR

REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Valid-License-Identifier: BSD-3-Clause
SPDX-URL: https://spdx.org/licenses/BSD-3-Clause.html
Usage-Guide:
To use the BSD 3-clause "New" or "Revised" License put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
SPDX-License-Identifier: BSD-3-Clause
License-Text:

Copyright (c) <year> <owner> . All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
To use the ISC License put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
SPDX-License-Identifier: ISC
License-Text:

ISC License

Copyright (c) <year> <copyright holders>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Valid-License-Identifier: X11
SPDX-URL: https://spdx.org/licenses/X11.html
Usage-Guide:
To use the X11 put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
SPDX-License-Identifier: X11
License-Text:

X11 License

Copyright (C) 1996 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a

copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other
dealings in this Software without prior written authorization from the X
Consortium.

X Window System is a trademark of X Consortium, Inc.
The Linux Kernel is provided under:

SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note

Being under the terms of the GNU General Public License version 2 only,
according with:

LICENSES/preferred/GPL-2.0

With an explicit syscall exception, as stated at:

LICENSES/exceptions/Linux-syscall-note

In addition, other licenses may also apply. Please see:

Documentation/process/license-rules.rst

for more details.

All contributions to the Linux Kernel are subject to this COPYING file.
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

```
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
* Copyright (c) 1996 University of Cambridge Computer Laboratory
*
*   This program is free software; you can redistribute it and/or modify
*   it under the terms of the GNU General Public License as published by
*   the Free Software Foundation; either version 2 of the License, or
*   (at your option) any later version.
*
*   This program is distributed in the hope that it will be useful,
*   but WITHOUT ANY WARRANTY; without even the implied warranty of
*   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*   GNU General Public License for more details.
*
*   You should have received a copy of the GNU General Public License
```

```
*   along with this program; if not, write to the Free Software
*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

Code in this directory written at the IDA Supercomputing Research Center carries the following copyright and license.

```
  Copyright 1993 United States Government as represented by the
  Director, National Security Agency.  This software may be used
  and distributed according to the terms of the GNU General Public License,
  incorporated herein by reference.

  In addition to the disclaimers in the GPL, SRC expressly disclaims any
  and all warranties, expressed or implied, concerning the enclosed software.
  This software was developed at SRC for use in internal research, and the
  intent in sharing this software is to promote the productive interchange
  of ideas throughout the research community.   All software is furnished
  on an "as-is" basis.  No further updates to this software should be
  expected.  Although updates may occur, no commitment exists.
 Copyright (c) 2003-2006, Marvell International Ltd.
 All Rights Reserved

 This program is free software; you can redistribute it and/or modify it
 under the terms of version 2 of the GNU General Public License as
 published by the Free Software Foundation.

 This program is distributed in the hope that it will be useful, but WITHOUT
 ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
 FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License for
 more details.

 You should have received a copy of the GNU General Public License along with
 this program; if not, write to the Free Software Foundation, Inc., 59
 Temple Place - Suite 330, Boston, MA  02111-1307, USA.
```

The files in this directory and elsewhere which refer to this LICENCE file are part of JFFS2, the Journalling Flash File System v2.

```
 Copyright  2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
```

ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
Valid-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use the MIT License put the following SPDX tag/value pair into a
comment according to the placement guidelines in the licensing rules
documentation:
SPDX-License-Identifier: MIT
License-Text:

MIT License

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

Valid-License-Identifier: BSD-2-Clause
SPDX-URL: https://spdx.org/licenses/BSD-2-Clause.html
Usage-Guide:
To use the BSD 2-clause "Simplified" License put the following SPDX
tag/value pair into a comment according to the placement guidelines in
the licensing rules documentation:
SPDX-License-Identifier: BSD-2-Clause
License-Text:

Copyright (c) <year> <owner> . All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+, GPL-2.0-only,
GPL-2.0-or-later
Usage-Guide:
This exception is used together with one of the above SPDX-Licenses
to mark user space API (uapi) header files so they can be included
into non GPL compliant user space application code.
To use this exception add it with the keyword WITH to one of the
identifiers in the SPDX-Licenses tag:
SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
License-Text:

NOTE! This copyright does *not* cover user programs that use kernel
services by normal system calls - this is merely considered normal use
of the kernel, and does *not* fall under the heading of "derived work".

Also note that the GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (the Linux
kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel
is concerned is _this_ particular version of the license (ie v2, not
v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds
Valid-License-Identifier: BSD-3-Clause-Clear
SPDX-URL: https://spdx.org/licenses/BSD-3-Clause-Clear.html
Usage-Guide:
To use the BSD 3-clause "Clear" License put the following SPDX
tag/value pair into a comment according to the placement guidelines in
the licensing rules documentation:
SPDX-License-Identifier: BSD-3-Clause-Clear
License-Text:

The Clear BSD License

Copyright (c) [xxxx]-[xxxx] [Owner Organization]
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted (subject to the limitations in the disclaimer
below) provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* Neither the name of [Owner Organization] nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

NO EXPRESS OR IMPLIED LICENSES TO ANY PARTY'S PATENT RIGHTS ARE GRANTED BY
THIS LICENSE. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT
NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR

OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Valid-License-Identifier: Zlib
SPDX-URL: https://spdx.org/licenses/Zlib.html
Usage-Guide:
To use the Zlib License put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
SPDX-License-Identifier: Zlib
License-Text:

zlib License

Copyright (c) <year> <copyright holders>

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:
1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.
Valid-License-Identifier: Linux-OpenIB
SPDX-URL: https://spdx.org/licenses/Linux-OpenIB.html
Usage-Guide:
To use the Linux Kernel Variant of OpenIB.org license put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation:
SPDX-License-Identifier: Linux-OpenIB
License-Text:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is the full-colour version of the currently unofficial Linux logo
("currently unofficial" just means that there has been no paperwork and
that I have not really announced it yet). It was created by Larry Ewing,
and is freely usable as long as you acknowledge Larry as the original
artist.

Note that there are black-and-white versions of this available that
scale down to smaller sizes and are better for letterheads or whatever
you want to use it for: for the full range of logos take a look at
Larry's web-page:

https://www.isc.tamu.edu/~lewing/linux/

1.343 expat 2.2.6

1.343.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Expat
Upstream-Contact: Sebastian Pipping <sebastian@pipping.org>
Source: https://github.com/libexpat/libexpat
Copyright: Copyright (C) Expat maintainers

Files: *
Copyright:
Copyright (C) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (C) 2001-2017 Expat maintainers
License: MIT

Files: debian/*
Copyright:
Copyright (C) 1998-2000 Adam Di Carlo <aph@debian.org>
Copyright (C) 2000-2007 Ardo van Rangelrooij <ardo@debian.org>
Copyright (C) 2008-2009 Daniel Leidert (dale) <daniel.leidert@wgdd.de>
Copyright (C) 2013- Laszlo Boszormenyi (GCS) <gcs@debian.org>
License: MIT

License: MIT
Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the

rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:
.
The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS
IN THE SOFTWARE.
Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2017 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.344 iputils s20121221

1.344.1 Available under license :

Copyright (C) 2002 USAGI/WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.345 go-shellwords 1.0.12

1.345.1 Available under license :

The MIT License (MIT)

Copyright (c) 2017 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.346 yamux 0.0.0-20211028200310-0bc27b27de87

1.346.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a

separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the

license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any

character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to

create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.347 c-ares 1.17.0

1.347.1 Available under license :

Copyright (C) 2004 by Daniel Stenberg et al

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

1.348 libtasn 4.19.0

1.348.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that

contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount

of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain
ASCII without markup, Texinfo input format, La@TeX{} input
format, SGML or XML using a publicly available
DTD, and standard-conforming simple HTML,
PostScript or PDF designed for human modification. Examples
of transparent image formats include PNG, XCF and
JPG@. Opaque formats include proprietary formats that can be
read and edited only by proprietary word processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.)  To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use

technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add

to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various

parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this

License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual

title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this

License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3

or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the

ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses

terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR

CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains

that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention

is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work,

and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the

Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a

network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered

work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the

option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
LICENSING
=========

The libtasn1 library is released under the GNU Lesser General Public
License (LGPL) version 2.1 or later; see [COPYING.LESSER](doc/COPYING.LESSER)
for the license terms.

The GNU LGPL applies to the main libtasn1 library, while the
included applications library are under the GNU GPL version 3.
The libtasn1 library is located in the lib directory, while the applications
in src/.

The documentation in doc/ is under the GNU FDL license 1.3.

For any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.

1.349 netkit-ftp 0.17

1.349.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.

*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1985 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ruserpass.c
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/domacro.c
No license file was found, but licenses were detected in source scan.

.\" All rights reserved.
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"   notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.
.\" 3. All advertising materials mentioning features or use of this software
.\" 4. Neither the name of the University nor the names of its contributors
.\"   without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/netrc.5
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp.1
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1980 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.c
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/main.c
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmds.c
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/cmdtab.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* from: @(#)pathnames.h 5.2 (Berkeley) 6/1/90
* $Id: pathnames.h,v 1.1 1996/07/13 23:46:07 dholland Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h
No license file was found, but licenses were detected in source scan.

```
/*
```

* Copyright (c) 1985, 1989 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* from: @(#)ftp_var.h 5.9 (Berkeley) 6/1/90
* $Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
*/

Found in path(s):
* /opt/cola/permits/1424598639_1663921273.110989/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/ftp_var.h

1.350 mpdecimal 2.4.2

1.350.1 Available under license :

/*
* Copyright (c) 2008-2016 Stefan Krah. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:

*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

DOCUMENTATION LICENSE
==========

Copyright 2010-2016 Stefan Krah. All rights reserved.

Redistribution and use in source (RST) and 'compiled' forms (HTML, PDF,
PostScript and so forth) with or without modification, are permitted
provided that the following conditions are met:

1. Redistributions of source code (RST) must retain the above
   copyright notice, this list of conditions and the following
   disclaimer as the first lines of this file unmodified.

2. Modified documents must carry a notice that modification has
   occurred. This notice must also be present in any compiled form.

3. Redistributions in compiled form (converted to HTML, PDF,
   PostScript and other formats) must reproduce the above copyright
   notice, this list of conditions and the following disclaimer
   in the documentation and/or other materials provided with the
   distribution.

THIS DOCUMENTATION IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS DOCUMENTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

DISTRIBUTOR NOTES
==========

The license is the standard FreeBSD Documentation License with an added clause that requires a user notice for modifications. The following modification notices are sufficient:

RST files

The modification notice may be added below the license:

```
Copyright 2010-2016 Stefan Krah. All rights reserved.
...
...
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This file was modified in 2016 by DISTRIBUTOR.
```

HTML files

The modification notice may be added to the copyright footer:

```
Copyright 2010-2016 Stefan Krah, modified 2016 by DISTRIBUTOR.
```

1.351 sqlite 3.39.3

1.351.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

```
May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
```

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

* May you do good and not evil.
* May you find forgiveness for yourself and forgive others.
* May you share freely, never taking more than you give.

1.352 x-net 0.0.0-20220425223048-2871e0cb64e4

1.352.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.353 google-go-cmp 0.5.9

1.353.1 Available under license :

Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.354 mitchellh-mapstructure 1.5.0

1.354.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.355 xuri-efp 0.0.0-20210322160811-ab561f5b45e3

1.355.1 Available under license :

BSD 3-Clause License

Copyright (c) 2017 - 2022 Ri Xu All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of efp nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.356 joblib 0.13.2

1.356.1 Available under license :

BSD 3-Clause License

Copyright (c) 2008-2016, The joblib developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.357 x-oauth2 0.0.0-20210819190943-2bc19b11175f

1.357.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 * Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.358 findutils 4.5.14

1.358.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official

standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose

of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified

it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,

procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work,

for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means,

then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to

assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles

are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit

legibly, you should put the first ones listed (as many as fit
reasonably) on the actual cover, and continue the rest onto adjacent
pages.

If you publish or distribute Opaque copies of the Document numbering
more than 100, you must either include a machine-readable Transparent
copy along with each Opaque copy, or state in or with each Opaque copy
a computer-network location from which the general network-using
public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the

Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers

or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and

list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the

electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the

licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this

License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,

to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.359 xinetd 2.3.15

1.359.1 Available under license :

This software is

(c) Copyright 1992, 1993 by Panagiotis Tsirigotis

The author (Panagiotis Tsirigotis) grants permission to use, copy,
and distribute this software and its documentation for any purpose
and without fee, provided that a) the above copyright notice extant in
files in this distribution is not removed from files included in any
redistribution, and b) this file is also included in any redistribution.

Modifications to this software may be distributed, either by distributing
the modified software or by distributing patches to the original software,
under the following additional terms:

1. The version number will be modified as follows:
   a. The first 3 components of the version number
      (i.e. <number>.<number>.<number>) will remain unchanged.
   b. A new component will be appended to the version number to indicate
      the modification level. The form of this component is up to the
      author of the modifications.

2. The author of the modifications will include his/her name by appending it
   along with the new version number to this file and will be responsible for
   any wrong behavior of the modified software.

The author makes no representations about the suitability of this
software for any purpose. It is provided "as is" without any express
or implied warranty.
This software is

(c) Copyright 1992 by Panagiotis Tsirigotis

The author (Panagiotis Tsirigotis) grants permission to use, copy,
and distribute this software and its documentation for any purpose
and without fee, provided that the above copyright notice extant in
files in this distribution is not removed from files included in any
redistribution and that this copyright notice is also included in any
redistribution.

Modifications to this software may be distributed, either by distributing
the modified software or by distributing patches to the original software,
under the following additional terms:

1. The version number will be modified as follows:
   a. The first 3 components of the version number
      (i.e <number>.<number>.<number>) will remain unchanged.
   b. A new component will be appended to the version number to indicate
      the modification level. The form of this component is up to the
      author of the modifications.

2. The author of the modifications will include his/her name by appending it
  along with the new version number to this file and will be responsible for
  any wrong behavior of the modified software.

The author makes no representations about the suitability of this
software for any purpose. It is provided "as is" without any express
or implied warranty.

Modifications:
Version: 2.1.8.7-current
Copyright 1998-2001 by Rob Braun
/*
* Copyright (c) 1988, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
ORIGINAL LICENSE:
This software is

(c) Copyright 1992 by Panagiotis Tsirigotis

The author (Panagiotis Tsirigotis) grants permission to use, copy,
and distribute this software and its documentation for any purpose
and without fee, provided that the above copyright notice extant in
files in this distribution is not removed from files included in any
redistribution and that this copyright notice is also included in any
redistribution.

Modifications to this software may be distributed, either by distributing
the modified software or by distributing patches to the original software,
under the following additional terms:

1. The version number will be modified as follows:
   a. The first 3 components of the version number
      (i.e <number>.<number>.<number>) will remain unchanged.
   b. A new component will be appended to the version number to indicate
      the modification level. The form of this component is up to the
      author of the modifications.

2. The author of the modifications will include his/her name by appending it
  along with the new version number to this file and will be responsible for
  any wrong behavior of the modified software.

The author makes no representations about the suitability of this
software for any purpose. It is provided "as is" without any express
or implied warranty.

Modifications:
Version: 2.1.8.7-current
Copyright 1998-2001 by Rob Braun

Sensor Addition
Version: 2.1.8.9pre14a
Copyright 2001 by Steve Grubb

This is an exerpt from an email I recieved from the original author, allowing

xinetd as maintained by me, to use the higher version numbers:

I appreciate your maintaining the version string guidelines as specified
in the copyright. But I did not mean them to last as long as they did.

So, if you want, you may use any 2.N.* (N >= 3) version string for future
xinetd versions that you release. Note that I am excluding the 2.2.* line;
using that would only create confusion. Naming the next release 2.3.0
would put to rest the confusion about 2.2.1 and 2.1.8.*.

```
/*
* ++Copyright++ 1983, 1990, 1993
* -
* Copyright (c) 1983, 1990, 1993
*    The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*      This product includes software developed by the University of
*      California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
* -
* Portions Copyright (c) 1993 by Digital Equipment Corporation.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies, and that
```

* the name of Digital Equipment Corporation not be used in advertising or
* publicity pertaining to distribution of the document or software without
* specific, written prior permission.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
* CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
* DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
* PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
* ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
* SOFTWARE.
* -
* --Copyright--
*/

1.360 iconv 2.22

1.360.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of

packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of

your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third

paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if

the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the

covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single

combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short

notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status

of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.361 libcap 2.25

1.361.1 Available under license :

Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this module release
may be distributed:

Redistribution and use in source and binary forms of this module, with
or without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain any existing copyright
notice, and this entire permission notice in its entirety,
including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
copyright notices, this list of conditions, and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. The name of any author may not be used to endorse or promote

products derived from this software without their specific prior
written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU Library General Public License, in which case the provisions of
the GNU LGPL are required INSTEAD OF the above restrictions. (This
clause is necessary due to a potential conflict between the GNU LGPL
and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Unless otherwise *explicitly* stated, the following text describes the
licensed conditions under which the contents of this libcap release
may be used and distributed:

Redistribution and use in source and binary forms of libcap, with
or without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain any existing copyright
notice, and this entire permission notice in its entirety,
including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
copyright notices, this list of conditions, and the following
disclaimer in the documentation and/or other materials provided
with the distribution.

3. The name of any author may not be used to endorse or promote
products derived from this software without their specific prior
written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU General Public License (v2.0 - see below), in which case the
provisions of the GNU GPL are required INSTEAD OF the above
restrictions. (This clause is necessary due to a potential conflict
between the GNU GPL and the restrictions contained in a BSD-style

copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Full text of gpl-2.0.txt:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.362 tcl 8.6.8

1.362.1 Available under license :

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This software is copyrighted by Kevin B. Kenny, and by other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY

FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by Kevin B. Kenny, and by other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR

MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Lucent Technologies disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall Lucent be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

==========

This software is copyrighted by Slawomir Cygan, and by other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement,

license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation,
and other parties. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY

DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted
by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version
written by Lucent Technologies, Inc., and other parties see that copyright
below.

The rewritten version is copyrighted with BSD license or Public Domain at
your choice.

The original version of this software is copyrighted by Lucent Technologies,
Inc., and other parties. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided

that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState
Corporation and other parties. The following terms apply to all files
associated with the software unless explicitly disclaimed in
individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

1.363 m4 1.4.17

1.363.1 Available under license :

The files in this directory provide example uses of GNU M4.
The following copyright notice applies to each of these
description files.

Copyright (C) 2006, 2010-2012 Free Software Foundation, Inc.
This file is free software; the Free Software Foundation
gives unlimited permission to copy and/or distribute it,
with or without modifications, as long as this notice is preserved.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the

work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation

into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall

be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does

not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a

covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.364 perl 5.22.0

1.364.1 Available under license :

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this

Package. If such scripts or library files are aggregated with this
Package via the so-called "undump" or "unexec" methods of producing a
binary executable image, then distribution of such an image shall
neither be construed as a distribution of this Package nor shall it
fall under the restrictions of Paragraphs 3 and 4, provided that you do
not represent such an executable image as a Standard Version of this
Package.

7. C subroutines (or comparably compiled subroutines in other
languages) supplied by you and linked into this Package in order to
emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or
promote products derived from this software without specific prior
written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.365 proto-otlp 0.12.0

1.365.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.366 pciutils 3.6.2

1.366.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.367 armon-go-metrics 0.3.11

1.367.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.368 procps 3.3.10

1.368.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.369 goterm 0.0.0-20200907032337-555d40f16ae2

1.369.1 Available under license :

Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.370 otel-sdk-metric 0.27.0

1.370.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
Copying and distribution of this file, with or without
modification, are permitted in any medium without royalty provided
the copyright notice and this notice are preserved.

For the lib/nodejs/lib/thrift/json_parse.js:

/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
////////////////////////////////////////////////////////////////////////////////
```

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.371 ncurses 6.3

1.371.1 Available under license :

Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2020,2021 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
Licence: X11

Files: aclocal.m4 package
Copyright: 1996-2020,2021 by Thomas E. Dickey
Licence: X11

Files: doc/html/NCURSES-Programming-HOWTO.html
Copyright: 2001 by Pradeep Padala
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

Files: progs/tset.c ncurses/tinfo/read_termcap.c
Copyright: 1980,1991,1992,1993 The Regents of the University of California.

License: BSD

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

-- vile: txtmode file-encoding=utf-8
Copyright 2018-2020,2021 Thomas E. Dickey
Copyright 1998-2017,2018 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

-- vile:txtmode fc=72
-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2020,2021 by Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
Licence: X11

Files: aclocal.m4 package
Copyright: 2010-2020,2021 by Thomas E. Dickey
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

Files: install-sh

Copyright: 1994 X Consortium
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2020,2021 Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
Licence: X11

Files: aclocal.m4 package
Copyright: 2003-2019,2020 by Thomas E. Dickey
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN

AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Files: *
Copyright: 2017-2020,2021 Thomas E. Dickey
Copyright: 1998-2016,2017 Free Software Foundation, Inc.
Licence: X11

Files: aclocal.m4 package
Copyright: 2003-2020,2021 by Thomas E. Dickey
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, distribute with modifications, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright
holders shall not be used in advertising or otherwise to promote the
sale, use or other dealings in this Software without prior written
authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: X11

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

-- vile: txtmode file-encoding=utf-8

1.372 tar 1.28

1.372.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article

11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has

been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered

work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided

above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.373 hostapd 2.4

1.373.1 Available under license :

wpa_supplicant and hostapd

Copyright (c) 2002-2012, Jouni Malinen <j@w1.fi> and contributors
All Rights Reserved.

See the README file for the current license terms.

This software was previously distributed under BSD/GPL v2 dual license terms that allowed either of those license alternatives to be selected. As of February 11, 2012, the project has chosen to use only the BSD license option for future distribution. As such, the GPL v2 license option is no longer used. It should be noted that the BSD license option (the one with advertisement clause removed) is compatible with GPL and as such, does not prevent use of this software in projects that use GPL.

Some of the files may still include pointers to GPL version 2 license terms. However, such copyright and license notifications are maintained only for attribution purposes and any distribution of this software after February 11, 2012 is no longer under the GPL v2 option.

1.374 bash 4.3.43

1.374.1 Available under license :

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the

publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material

this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present

the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five),

unless they release you from this requirement.

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains nothing but endorsements of your Modified Version by various

parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual

copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements",

"Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not

as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

> Copyright (c) YEAR YOUR NAME.
> Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may

be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have

certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that

Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this

License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This

alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or

specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that

country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work,

but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF

DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft", which means that derivative
works of the document must themselves be free in the same sense. It

complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed,

as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using

public has access to download using public-standard network protocols
a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or

to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original

author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History"
in the various original documents, forming one section Entitled
``History"; likewise combine any sections Entitled ``Acknowledgements",
and any sections Entitled ``Dedications". You must delete all
sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may

distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Unless otherwise stated, all files in this directory are Copyright (C)
1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,
2004,2005,2006,2007,2008,2009,2010,2011

Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying
and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.375 groupcache 0.0.0-20210331224755-41bb18bfe9da

1.375.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities
that control, are controlled by, or are under common control with that entity.
For the purposes of this definition, "control" means (i) the power, direct or
indirect, to cause the direction or management of such entity, whether by
contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising
permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including
but not limited to software source code, documentation source, and configuration
files.

"Object" form shall mean any form resulting from mechanical transformation or
translation of a Source form, including but not limited to compiled object code,
generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made
available under the License, as indicated by a copyright notice that is included
in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.376 d-bus 1.12.10

1.376.1 Available under license :

D-Bus is licensed to you under your choice of the Academic Free
License version 2.1, or the GNU General Public License version 2
(or, at your option any later version).

Both licenses are included here. Some of the standalone binaries are
under the GPL only; in particular, but not limited to,
tools/dbus-cleanup-sockets.c and test/decode-gcov.c. Each source code
file is marked with the proper copyright information - if you find a
file that isn't marked please bring it to our attention.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a
world-wide, royalty-free, non-exclusive, perpetual, sublicenseable
license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor

warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action, including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software

or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this license without modification. This license may not be modified without the express written permission of its copyright owner.

--
END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential differences between the Academic Free License (AFL) version 1.0 and other open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache licenses in many respects but it is intended to solve a few problems with those licenses.

* The AFL is written so as to make it clear what software is being licensed (by the inclusion of a statement following the copyright notice in the software). This way, the license functions better than a template license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT, UoI/NCSA and Apache licenses rely on an implied patent license and contain no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the licensor's trademarks. The Apache license contains such a provision, but the BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the copyright or that it is distributing the software under a license. None of the other licenses contain that warranty. All other warranties are disclaimed, as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute without modification). This ensures that the owner of the copyright to the license will control changes. The Apache license contains a copyright notice, but the BSD, MIT and UoI/NCSA licenses do not.
--
START OF GNU GENERAL PUBLIC LICENSE
--

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright

notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.377 flexlm 10.1.3

1.377.1 Available under license :

```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301477.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
ref: refs/remotes/origin/skywalker_com
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c
6317bf6b870ced4150254b3da3f7958fa95f2ae2
```

6ab876a0dbcfa2c947e799e27a35dca800739608 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301477
8896cdb01181e19772ad14a9d0de2b3f28f2682b branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f10896fc0334880b5087cc6088e9c4f8a6a73d3 branch 'a521_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d487f33eb2102acbc640c9ea6ec7a40882e1f8b6 branch 'ace_simplified_cli_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
b093e65c87a2abc5bfe2ee4ad9e229908e0e55f8 branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301477
b07c47ccaea686961b4ee57677c4bebbbd811f2c branch 'adelaide_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e954cf302359cd4acefbce3b84b9990158199dfd branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f326f813574c3da49ae8a3f89a8446eb4b3d2486 branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2195b323eecc3f196ada64c240ef84684b32fea7 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301477
0050870dbdd949304bcfe0268531912513734997 branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301477
9c65861c4ab7e1efcb416bb9c8f7406959477dd4 branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301477
bb5afdef70040834fc178bf3fcb593c69515f8f1 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f602bdead9c2259d52eeffc2593b15450b61792 branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f1547327e104204615fe43d0348ab8148479e2d branch 'antares' of https://dscm.esl.cisco.com/git/153/comp-15301477
7877f233e67d7e24a8cb53a828e333d07570dbc2 branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebd7214969808a700706329cf738f0646b9ee58 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
08219554cd97039da69a55d32bd809892637f7fb branch 'aptos' of https://dscm.esl.cisco.com/git/153/comp-15301477
b7097d6d2a3815697fc137cf7ca60684da30fd6f branch 'aptos_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
1bfa22e6dea60ae800d649fdc4b2ff15c7f77bff branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5260a21f872278adc1dbed901a8d6a49ae1486f branch 'ashfield_1121' of https://dscm.esl.cisco.com/git/153/comp-15301477
34433fb6e371ec70daf3d1a481e341ce8e9e97d0 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e4c7a6b949ac6407a189139a6d41245476210ce3 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f4a38d53f8d849e5b85b0f01523f2ad6c4a2aa0 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c46be377d07dd19571eeaef6c3b1e83aca81e57 branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f333b2d14aa47ab8834341ae0dfba672b36265cd branch 'av1_upgrade' of https://dscm.esl.cisco.com/git/153/comp-15301477
dd27fd0974585a29e690a2ba3b5bd57a3f4944d8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301477

319ea1611c7565dedb2677935258612b7aaca0a2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e4b5bff58108a87942972d265dfaf9e33525ebb branch 'avalon_nx_rel_8_1_0_107_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
931c705241e06332558d9afdb68be442e791030c branch 'avalon_nx_rel_8_1_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1245ed313765b02b842e7592109c9cd7cfcac28 branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6bef7cfac35eb904ef271b68c5e5fa8e84a1c7c branch 'avalon_nx_rel_8_1_1b_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
4f516679c885b043936c61c4eff68859e073a79e branch 'avalon_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4783ccc0899913b8e22785e1d1f1b0e57ef0aa00 branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f96018f84915cb2bc69599ea67b9bf57ddd0f797 branch 'baberuth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd6204ed2530355dee80e2258e8daeb3f2b474c6 branch 'bahamas' of https://dscm.esl.cisco.com/git/153/comp-15301477
44908fc63ad2ffbd72de27340b787e22577dabb0 branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2eb57e1c19ea166a9b6ccec70086db61958a95 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
cf9d15d56719f3e6f6a704ef023066bdb8abec01 branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0652ee0b92aac9b3c61402df925a2d98e67a8f99 branch 'balboa_dy' of https://dscm.esl.cisco.com/git/153/comp-15301477
44e9f04f55572c9925ba78e36ba600d4f59b3c9d branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee937fa47c1c92ac40c1d3a490745970cebd3d99 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da4163e95ce3bcc0614abc50b8609b38bafec97 branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301477
bedf8d1ed45b1debfe88c6627e8b39d72533d95a branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b48812dfe7c85a00b87b4b0e87d99dea6592e913 branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0241151508dcebfde7d326f2cb859bf1dfb71db branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a3b55b73c1fc7ac3d93a365892ef7d118a7c7e62 branch 'beverlyhills_rel_8_2_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
7e99a907e75868497e15e1b06cf31c5954b0fcb8 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
682ff19533052c65140d29101270b9372bdb5069 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8b424126d907c6ba095399c48ac88245225626d2 branch 'bili_box' of https://dscm.esl.cisco.com/git/153/comp-15301477
2513bcf73a00f514997a9ae834494420c792f6f4 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301477
9486ac87454e736a90e8c2b14cbea3b6b0648dc8 branch 'bl_maint' of https://dscm.esl.cisco.com/git/153/comp-

15301477
d947fe20f95cb1ab4f9205b96f7cebe0c292846e branch 'blackbird' of https://dscm.esl.cisco.com/git/153/comp-15301477
92ef0497085830ac40914ac1829a9a3848c3d7ef branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301477
7dbdc630ef5412eda3f1beff5d039f6915b56061 branch 'bondi_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1673d738ad7c8762bd07a84ba88375d82696fb66 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d19c1d3d016f6ec9185dddcf6454c028b74bc2d branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
936af1595c05c3c75ae9afe763278fa4afa8dc88 branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b01af2f5f480e66672ec37ad6a7614273f6eec0 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301477
52791a4cf4c8cd78154c86aafef596b5fbd757f4 branch 'bronte_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ce23806ad6d7cf9e0fba73fbdbda8993c23da67 branch 'bronte_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0d826fdb123d99d5441f1f639945edd56c477719 branch 'bronte_fretta_sw' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b6ad039ea2c3c632da94b362e7fbedeb44a21ff branch 'bronte_lacdev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e64cf6b58d38e99fc4dc37515e5d104183782347 branch 'bronteplus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f334748e52041b5604429bd6102d8e2acb7e9868 branch 'bronteplus_rs' of https://dscm.esl.cisco.com/git/153/comp-15301477
7d78dc572033fb20396048dfe87586938f9b0fb0 branch 'bronteplus_sh' of https://dscm.esl.cisco.com/git/153/comp-15301477
30014ead2cd993df578ce9600066ff5a6b226d0f branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4cd9d780d09769d465df3d24352078f5ce38442c branch 'ca_feature' of https://dscm.esl.cisco.com/git/153/comp-15301477
8149d77ad5179c3426089b84bb5f8400664310d1 branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301477
48b9c5f31e56d268430576a782704ec74987c15f branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301477
083cdacde685c9a9af51d28f38bb8127a5236f90 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc42fafb07c54e8789df772dd209e2a6638850ea branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a30fe73262ed457580436125128add5d4843a8d branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e03fa4391b544cdcdedf44c3e89e186a06fd23d branch 'camden_3k' of https://dscm.esl.cisco.com/git/153/comp-15301477
7c4d41b229731b516a83be9eb71f35229df750f5 branch 'camden_475_eft' of https://dscm.esl.cisco.com/git/153/comp-15301477
b594946182ff7c88b152ea6066bf242634b051b2 branch 'camden_nxosv' of https://dscm.esl.cisco.com/git/153/comp-15301477
b2d9093265e263f42ca478d455c345abf9c10714 branch 'camden_nxosv_proto' of

https://dscm.esl.cisco.com/git/153/comp-15301477
1e81abd60f2e223153faba2c5e8a71bd8b40b1a7 branch 'capitola_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
eb57dfe995f0b0b5e8721b79c7d20bb3cb530f2f branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f46f59e50d734dfd7a2b8043a2689a062303ff8 branch 'cayman' of https://dscm.esl.cisco.com/git/153/comp-15301477
d341d6a53e7a65eb50a708e77f3dc0d2e24b1da0 branch 'cayman_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
aa8669c3ca046840bab34a1f9bf3a9135b961145 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301477
def92020681f75a04a6235187fb04a3dcd66f976 branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebba57495e9f6f3b5aa424540aa81e8f7ff1679 branch 'clapton' of https://dscm.esl.cisco.com/git/153/comp-15301477
65b5c74215155dce815fb034afe7f2df8c3e00cd branch 'clapton_kernel' of https://dscm.esl.cisco.com/git/153/comp-15301477
3fb6a307d774d578a71cf955eaeeb2df37288243 branch 'collapse_proj_628_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dcd5023ad53ab416bb20316229c859624a7c8cb0 branch 'conv_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
1512d9c01d974e8ccd2a7883228bb10eb6bb0d38 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
492e7bd792b9881d77a7e0f3423f81d34e8cf7f7 branch 'cozumel1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
1a01a34ce6254a8e8d4b0d5b2aadca0968241b6b branch 'cppa_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
e87131b03077dffb4d122583b4d71565388e60d6 branch 'cristal' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29ca5d24378bb817330a87856c5aacc0c21a7a7 branch 'croxley_a' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4a60e403fbb837dc08f5a286ad263603c7d6d66 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
96e95d78c660aa8433cb6efa0816d509e4cfd7b4 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
244769f484b6188f90bb55859aea9c5e7bef8e43 branch 'cupertino_rel_8_3_0_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
455c6d386ec98c1f6171e644ff9268baaffb1ce5 branch 'cupertino_rel_8_3_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
802c6b2b6057ed647bf60a3121dba66c93bbd8db branch 'cupertino_rel_8_3_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
888e36ae99ab4e2c879a82093e0c0a02381e3b58 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e273530b0c54f1ff4abda456fc110e18c017325 branch 'd_plus-cpa-dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2fbf2741f6c66d25eee87631f9a41d6b6a512799 branch 'd_plus_pb' of https://dscm.esl.cisco.com/git/153/comp-15301477
91f2f0d91880b752feb22d0d3dc377ea6dfbf2e9 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301477
250b0e199422b281c7b36b2adc4c3145554ba3e5 branch 'daox_1' of https://dscm.esl.cisco.com/git/153/comp-

15301477
cc37f4b399649a13d544235a53caf541275eb88c branch 'dartford' of https://dscm.esl.cisco.com/git/153/comp-15301477
6317bf6b870ced4150254b3da3f7958fa95f2ae2 branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
31900f47b53bc6e3a199614cc4e24acb4752be11 branch 'davis_rel_8_4_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
091a35db5acc19da5eb9ff5082e454f6cc1ef377 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
f64736504086ca3f80cdf9785f62cd58bba6e89a branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca12745ccc11d097c48896cdbcff24a425570a40 branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301477
37c57fb69a20cfad8fa56bb0b47227df88ce4d03 branch 'dce_mcast' of https://dscm.esl.cisco.com/git/153/comp-15301477
0be8146a0780dc9a77609613bcfd6a7ea6fbad64 branch 'debden' of https://dscm.esl.cisco.com/git/153/comp-15301477
08cfb9cb2f32b9b1efea5be38b6532db4f024d0e branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b27bb1772d4ade46ade55f43701d1ad06983b46 branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301477
321a8bc5c100bab224bd4c44e8d3860dee542051 branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301477
83cdbb4459116440a7629636186a0ec13dd20ddf branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
2f454a923bc2afcb6688310f67b46999f33d1572 branch 'dp_plus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a7f36d2e86389ace6c072da6fd81d5d5fd5808b6 branch 'dry_dummy_run_s14' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee11811c000ddaa9c32c57c908ee3239cc74e79c branch 'dry_dummy_run_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dba2bfba506bf23371793d8abd871586156b3583 branch 'dry_dummy_run_s19_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
1847ca163549779a1046faccc8fa7ceaadd472b1 branch 'dry_run101' of https://dscm.esl.cisco.com/git/153/comp-15301477
197e77e09c17a96a23bebbdec42bb0e652b77ebe branch 'dry_run101_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad7a1c1840c57106c1999433f6fac473e95c630c branch 'dry_run101_test3' of https://dscm.esl.cisco.com/git/153/comp-15301477
5c1eb42ef539578e70ad9465882e68d755e2f187 branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301477
39d3b28d37d62984f2139dbd49fce293a03ab2eb branch 'dublin_bel' of https://dscm.esl.cisco.com/git/153/comp-15301477
2493d29ff1c6da0016354916651e3d56eb55b54c branch 'dublin_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d2f0aa0e8b436bb4d7f2b9099e6a0f3e17cb78c branch 'dublin_eft_two' of https://dscm.esl.cisco.com/git/153/comp-15301477
13024b700d4b9de3c67c0f7c566e834d0cf9c458 branch 'dublin_fcoe_npv' of https://dscm.esl.cisco.com/git/153/comp-15301477
d33a8a678e8f8aa3c346a11b9444c10ff2b7dc0c branch 'dublin_moddev' of https://dscm.esl.cisco.com/git/153/comp-15301477

6a88f40d187d52aeb3352391303a990c91091b27 branch 'dublin_tahmod' of https://dscm.esl.cisco.com/git/153/comp-15301477
812c26935deb291bc1fc49252ca95c899d60184f branch 'dummy_debug_run' of https://dscm.esl.cisco.com/git/153/comp-15301477
ceb5a6aa07584ca7346ce4f9a1de98b4d50d904e branch 'dummy_debug_sample_run2' of https://dscm.esl.cisco.com/git/153/comp-15301477
20d1b7ec46874c7a8679077c6eb134af350a7383 branch 'e_bigsky' of https://dscm.esl.cisco.com/git/153/comp-15301477
373397e3e3a3492185c02c530d365dc04064922d branch 'e_campus' of https://dscm.esl.cisco.com/git/153/comp-15301477
5cf97df7d04f00733ad525dbd7b34e56216cbebb branch 'e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
359aafb59d62d204d169743211c3a241c9bf3439 branch 'e_dev_neokrnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
c79d7cd3ec309d99febaa8e60af2f839a81a59ed branch 'e_homewood' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc3c49a4ec5539b86d021e28107556238fa6ea57 branch 'e_wbox' of https://dscm.esl.cisco.com/git/153/comp-15301477
9cc45d101d9191f83950f3dde641185410170a83 branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301477
cdb4eb978124e9804b2003f63f1afbc515d45a91 branch 'eagle_h_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fd58b451c5921c8ee09d3bd689fcb3d08dbd290 branch 'eagle_h_patchb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0a5daa4b0c9a8f0e1d22c056322e5aa58848dcb branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee7019e331097c65b95e1b88694047fae7e606d6 branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0830228fcab27fc7ddf94b5d51732de6d68f6c6a branch 'eden' of https://dscm.esl.cisco.com/git/153/comp-15301477
c7f45e656cee5cf37aea8eefba84b1b38264428b branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301477
50a63baedc898c0c0470d61771dbef8ad4a9369b branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301477
88c65e74039c589fb417f4bd4dd5eb351614b4b9 branch 'eden_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
2819d2059e4d07a01cd2a267c9ee30bf0c7738e8 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301477
dce63c3055122ec4e9ebfcb796738c8790a7ccaf branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301477
e84ebc53d1129ec7e946069c314bd23e1311ea77 branch 'eplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
83b3420946e69958b2698311395f3890b062f9c8 branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301477
6e1798e341be275d6f26a29d051cfb8df7ebf3ed branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f829061038195609e339b510535a0d1aab766a25 branch 'espada' of https://dscm.esl.cisco.com/git/153/comp-15301477
582e7f59d7607c8202a54cbb21a4e4547bb867c9 branch 'espada_avs9' of https://dscm.esl.cisco.com/git/153/comp-15301477
8c5551f312a635d0b7f0c00f2300f2700feabb86 branch 'espada_dot1x' of https://dscm.esl.cisco.com/git/153/comp-

15301477
15c731852c6effcd445c666f3db0da2446073242 branch 'evergreen' of https://dscm.esl.cisco.com/git/153/comp-15301477
7da351f0db7c7be5a116c1e201cf10d68c9f2864 branch 'f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc6d5750afd33c9303bbb61c48497d529e5cca3c branch 'f3_mpls_dev_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b24cafef668d82a070738ca0e91926ea90c2a04 branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301477
b3aad77e7234721bc26d78029db97c93b41fe02b branch 'f4_bsf' of https://dscm.esl.cisco.com/git/153/comp-15301477
96b7ea5ea92cc4620770390322426edaae141dcb branch 'f4_bsf2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9769232bf42a5ac45afdac661931ac8fe7758e0f branch 'f64_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
5eeeb452d0e4ff0329a914be100f4804434a566b branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
5acc9f8c5bfcd8902f87745205be2ea2358e89be branch 'f_bugfix_0812' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ff90340e1ad3b9c116532b98584d255ede54bf0 branch 'fc_npv_g' of https://dscm.esl.cisco.com/git/153/comp-15301477
f163facee3d219e4afbc9cef79d7bc247f650f89 branch 'fchw' of https://dscm.esl.cisco.com/git/153/comp-15301477
e50c01dd591ae14085066ea2320a159d1cbf3d5d branch 'fcoe_cu' of https://dscm.esl.cisco.com/git/153/comp-15301477
0ad1471e110acdf74d92496f94b32773f504f257 branch 'fcoe_f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
592be4d71c85298fa2fd73b02fd6ae2a75aaf0ac branch 'fcoe_f3_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfe8900dd0453c7118b2c62b558d0d576ba406 branch 'fcoe_f3_g220' of https://dscm.esl.cisco.com/git/153/comp-15301477
eacca487ff75a64bf0dc3c29333858a93daff3d2 branch 'fcoe_f3_g259' of https://dscm.esl.cisco.com/git/153/comp-15301477
3a901d4e5ee5f261cc769f6db777d21aaa140aff branch 'fcoe_f3_g308' of https://dscm.esl.cisco.com/git/153/comp-15301477
31f5e604f3baf66441996e42a0a4b258475f9739 branch 'fcoe_f3_gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a60692606704584cb3e213d61e4d62a1bb993c5 branch 'fcoe_f3_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
58d55681a8fd13c610bae2fef7ea42ca67d78fbc branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
448516b2323dbe5212516a3f6f5ada03678f0a01 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301477
a64eb188ecb3eb4474839fe065effccf924d9832 branch 'fiji_ecats' of https://dscm.esl.cisco.com/git/153/comp-15301477
c05035668f0bf204bd208dc8ef58b927e68134ef branch 'fijiplus_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca4af809986f4d522ce730b6efc43f1221f67382 branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2cd15e284ad27c94430efbcdecd64830ed5a712 branch 'freeport' of https://dscm.esl.cisco.com/git/153/comp-15301477

0b60ffd1ade0c40ac6c6ae11f7c045e1c82dc2c2 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b4293dcfdf2bd6fefee8794cf5544e7097d93ea branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301477
9ebda189f929af09f720a0e13d4f2b84e6365a48 branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301477
1df9b2ac71c21a734bd61b1470326c3314176ee3 branch 'fretta4' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e438f4787a1c4124b24c40bbd2d5be607d6170 branch 'fretta4_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6965b16a3ea5a4470685d8147cc4e03a9088c5c3 branch 'fretta_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
926730a0dd7d73d2507d6a47c976d07c5aaaca03 branch 'fretta_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
85f6688bf135a8e6b87ad999d1e629913a26a493 branch 'fretta_sdk_656' of https://dscm.esl.cisco.com/git/153/comp-15301477
444b9d5d838dca1c0320e2c71a4949422605f595 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
77aecd7a0251f9219210aa5a2db2d0e4683cfab7 branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
14d5740aca21d8b90b038fda7d8dafd5ead68c45 branch 'ft-mr6' of https://dscm.esl.cisco.com/git/153/comp-15301477
379bc0c0f01484ed5cf8a36e12c2ce882bd7aeaf branch 'ft-ts96' of https://dscm.esl.cisco.com/git/153/comp-15301477
a70ed528aab0644718a37322566e812ced4b1d6c branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
460d7af1f6eef185717d63cabd105556079de6cb branch 'g75_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8edac59828f6058e2745fcc009e2b407761d919 branch 'g_bluesky' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6eed61907c7415645a3b090de2fad1bde87863c branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e99c10957c0a9b8f629911e9347df32d2f76af0 branch 'g_heavenly' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b21dbbab48dba86b427c7c3634205507f63e0eb branch 'g_tetley' of https://dscm.esl.cisco.com/git/153/comp-15301477
85c060ca61a8673c2ebcc478d7d27c5af4694656 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfa42c26f708fe4e1d77aa9cfa47e58f71d8a2f3 branch 'gbr_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
b869e978c53e899442ca3de35e6b5ca572327284 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b88a78f40a0045b681077c5bf4bc9bbfbb964483 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
00a48b849cd91c9e363423ae610ffdde10061f75 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301477
1992bf53e31f38a5944fa85914c86657dbad5ed7 branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301477
d72d0ed54a6a4159644b50f88c936a58a49ff37e branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
63776d8d6e4a8433e6cbf077000fbbd04960e5bf branch 'goa_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
486bc0e73fc021f322c6863bfee58478dbfbd69b branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301477

85e25db857d1a3de46cbb6b6a2ce5bd006c8efbc branch 'goldcoast_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b911ffbb5b3f2de27200bd4e42403b2310e60f4 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301477
056576d3069e27aef14f808c2cc67413c78b93d6 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd76607a1d1c34c26bdd97c0577ec721c653514e branch 'gplus_dev_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
a459c93d19fbe842e7bc26cb7fb05a126741e077 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301477
27f598552c7d3645575cd9303b3c71fd477ef9c2 branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301477
ccd4e4f8dfe64241aee3222dd3a273abfc79b6d4 branch 'h_ali51a' of https://dscm.esl.cisco.com/git/153/comp-15301477
89ae28b2a2ec7f2c2d38c39428e9ea7f66ff0a5c branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15301477
c3da9d643002251226ecb9ff51aec487cca6a3e6 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5b1b9766cf1a16723e59406eda743ffaf6188dd branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d25e87a82ee005ea231b4594ff0b43c954913903 branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301477
4fb7b34e809d44f08be8132bf925e35c214b94b2 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
667689585b26cae42c6488b414173a11bf12f334 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15301477
6624578ec620e1074ae3e6aab4727f961eb43411 branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
5ff23492dcf63abe251b6cb40d1611fdc244ea6a branch 'h_sundown2' of https://dscm.esl.cisco.com/git/153/comp-15301477
2952c50121274f7ef94abc7dcb52ad4c4bf483d7 branch 'h_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e206e3e12ebf3d574d546b7f17b279c306be5 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
42eb5ab355b8f0e9ba780cd2c41c37d4ef45c5c3 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301477
02881582bd48054a4a14ba5af179b8401dbb84df branch 'harboard' of https://dscm.esl.cisco.com/git/153/comp-15301477
4a82c94fb259d95dec40870571c821e3e94854d3 branch 'harbord' of https://dscm.esl.cisco.com/git/153/comp-15301477
2afe719277571e3542aa210705b84a88f15a5408 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1b744ca1e6d4e7047378edcd66c96d4342d0e12 branch 'hf_271' of https://dscm.esl.cisco.com/git/153/comp-15301477
6539033ae19c6f1fd1fb7e94119e69ac6479cb7d branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
955365c1167c2e2aa14f3333881f6191d8987068 branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce04ca1c10dc44e3fe7a56c64f8de16b2d606d64 branch 'hplus_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477

46d23d0a44ecfd99ea2765829bf77a38f11e9ec9 branch 'hsk_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
8ccb53a1b2c9e60abe21f95fe5f522aa9f7f814e branch 'hudson_centos' of https://dscm.esl.cisco.com/git/153/comp-15301477
685f4003cb78bc4dea35f2c31fc4e0eb41de6cab branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15301477
650087b9ceb7258de218455e937c34fde0cf6cb6 branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301477
ecb77e4154f235c43384da0f3bd534ee4af907ab branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
b61969646a1b5a50c3189b49242254d1973624a8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301477
0fe6311b01d5c8a58af19b39f5c956d0d70a0196 branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
34edd2f47840964fe37d7f06cc818467c3744175 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f3b5ce1047ba6b5f4f350a1f2bb64a602609e4 branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301477
283f58b2f2b725a0dac13cf5203b81c4eff405b7 branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f69b42d2d64f380524e3548145063b6ae45f80 branch 'iluka_ci' of https://dscm.esl.cisco.com/git/153/comp-15301477
c83d24083b98934424707bc883f411663e2c22ec branch 'iluka_titanium' of https://dscm.esl.cisco.com/git/153/comp-15301477
83c0459bd88e2738fee81205d93c6d0bcbb218c7 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2fc8cc3c3181b5e3d64c5b675b44395a401b29b branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301477
25e76710a3a9cb7a2ff0b608eb2bebe21885028c branch 'insieme_xml_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2e1baaa641643d85d452c68ca737cd9a3665b71 branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
6497c9c09614ab7a036f201910c884cb5470dd82 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d980a68e928a588593eea7fa61dea86fed59928 branch 'iplus_dev_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
d9d2e5c64c21baf61f4c4375087ca3c946cad40d branch 'iplus_gnmi' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f07d0e24b982383ee1360bba47495a7dda3539f branch 'ironcity' of https://dscm.esl.cisco.com/git/153/comp-15301477
61790a1ef93bb2127ec921069fcb7513c124107b branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301477
79d12264e2966704b0c607aac94ab2bd32a014b0 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fba907651797392f78cb65561d039cf3dbbae779 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
db58bfddbda8f724b1f408759abae98008aed270 branch 'janjuc' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d5aaef8504df316ba8d328dd4f98a4953509976 branch 'kempton_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
fb95bffa9c2886f9efa0c9fea007809089c1232c branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477

d3d78c2cf21c245c0752efe3a5ddc8b1e020006a branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301477
455ed4aa29373e9d41ce9ce87a40084acb554941 branch 'kkm_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
6efb68899304a4bdcdafe5399fbb69b903c2eb66 branch 'km-hsk' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29f4ba5272c99933beebced07a6e236721bde40 branch 'km-sky2' of https://dscm.esl.cisco.com/git/153/comp-15301477
081793a46ac214e1fe7988f33ce95761c96b1334 branch 'km-sky2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b52d63a98833db4f3e412a7ccf7fc1c564d97ef branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f3124cb8ad5c37156928fcb5e745cf0d7eeb8aed branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301477
2bf830221352afff861443add0107762c812e82d branch 'kokomo_47_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
0111672beb550ac65cf01d451b2b8bd964f2dd0b branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301477
418ba0d80f04c1aab14304368e43444f4d78748b branch 'kumo10_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
959dfeac705b9f831bf98c0432ece52a90465555 branch 'kumo_112' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce826e32277d74185e2cebdeec5f2e0fab8e7e55 branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-15301477
89e27c89df5b13a2e2927059c1cd3654a5cd684e branch 'lac_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a27a401800232d9d173f8679d33ceafd4055d76a branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301477
d8db8ac50ace0aa1f976d66dd94fff45d64c9717 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e93223df645e7bca172ccf88c0daf3c2bfb8d61 branch 'mercury_snmp_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f54c42eb4eec97ff51552b4a599a9c2617121baa branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301477
79f4929978a9308d7164ce0389ff2932b94a2051 branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c81bdf8034d137e4520cba1202e5a3ae6d92bd34 branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-15301477
eff64a416ce997f4a7447ce5aeb299fe85ed4cc8 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0e72adf18f6f18396fa12033d9d2713c8d1e7589 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301477
45518da1bcab77681fab915974ee19b0ea381bf9 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e345068e261d4cd9a98635b3b73aed854ba3ea branch 'mve1' of https://dscm.esl.cisco.com/git/153/comp-15301477
16421d9cfdb5f711e9d4ff0218721a348e7834b2 branch 'n1kv_l3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cef149d7a300440dca0bb266ec6be6baa7967635 branch 'n3k_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa133651025a3f5e1e1dbc51715c63f2819c6ecc branch 'n3kturing' of https://dscm.esl.cisco.com/git/153/comp-15301477

82d51f60e9edf6cb75b6739be5d6a8cfcefada7c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301477
87969c6c7c9cd51a0ac9a25272d967096897285a branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301477
d008589ef6c1f11997436f4a27498565aa5495b9 branch 'n7k_dme_stuff' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d772b428e496300b2539061c0f7cc929611c14f branch 'n7k_spine' of https://dscm.esl.cisco.com/git/153/comp-15301477
31226d2ee54802be57f8aed69c1e52e3c5490e5a branch 'n9k_redmond_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
42f13b8672d5925cc80131d0c4d8efa9395bf684 branch 'n9kv_eor' of https://dscm.esl.cisco.com/git/153/comp-15301477
0bac5487b98151822592bf0dab9e9e58c19ff652 branch 'nep_cr' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc30a20103e68b3873431b3496573d9b9559bede branch 'nexus1010' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfd9b63bf4b10dcbcc3b579e8728bc38b81af278 branch 'ns' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d4c097446e7629e214e7f37ae33c11fb71f7864 branch 'nxos_4k' of https://dscm.esl.cisco.com/git/153/comp-15301477
96d94f688ebc3e5c109705b733d84ab0d4d11e20 branch 'nxos_cflow' of https://dscm.esl.cisco.com/git/153/comp-15301477
0734152ccdb73ace98eecc7fcf3833f495717b19 branch 'nxos_fb' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fdff4116ed523a921d2162462c09b7a5dfb03f8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301477
00baaf5a77d660e2b6f83783b0b4b76394fb873a branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301477
79b43d42a5a26a242d0841ece62237183c9dbcf4 branch 'nxos_wb' of https://dscm.esl.cisco.com/git/153/comp-15301477
1d96236a4824a9ae35683d85f7d76a08888a86e2 branch 'oilstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
28e0caf31ee4470d4f7e6e068b314eedca7cc691 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301477
fca798ce50ddee8e42058465cbdfb5a9293ade14 branch 'oregon_1_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
b535febff1dfd693d4cbcfca2c1071210bac521f branch 'ph3_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
539a2d77d9fcd711b09881c1649f5b5b6a1c2896 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea75a742405d744340d1eb984fff4a144262a339 branch 'ph3_dtho1' of https://dscm.esl.cisco.com/git/153/comp-15301477
72e4dda183523dadd982438668d2ac32d800d2a0 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
7ce8e7bff7ec288313b5cae0782c396ffc11148f branch 'pi71-india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8e060186c69405052b854c4af0f4480a92c6f50 branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301477
655576290d3388f82779e5663ef9b2ef3ecaf36c branch 'pokemon' of https://dscm.esl.cisco.com/git/153/comp-15301477

3b2261af5674f94695c6f225adc1b32c10db3128 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301477
8cd2f20aeb11eb0bdfa35664e7b6763204ac963e branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2de67ba6ed9f924a937ac83b26ff7d144fb7a5e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301477
4d6ce365c6100550d03e09179119aedf6004ea7d branch 'rackspace_issu' of https://dscm.esl.cisco.com/git/153/comp-15301477
effbcdb8ca3b813ffaa04b2d6daec0bf11358c3d branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f5d0ae7493394a92e8ebaed631175dc85137a67 branch 'rel_3_0_0_a1_4_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f380c22ae0e741d9c21c73e1ee355e1c4c55e6d5 branch 'rel_3_0_0_a1_5a-development' of https://dscm.esl.cisco.com/git/153/comp-15301477
e371c70ba25811a2483688e6ddf0064dc8111ea0 branch 'rel_3_0_0_a1_6.2-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8bb725bedaa9b06d907536ea97f483358f594e88 branch 'rel_3_0_0_a1_6.3-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
3d33ffeff83a6a3646b36eaf3682e30cf5ef3d95 branch 'rel_3_1_1_1165966469' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2214584f02bc6adcf61fe923066b1af486138b branch 'rel_3_2_1_1188831908' of https://dscm.esl.cisco.com/git/153/comp-15301477
8992f2a342721e0c63b43881f4fce73a38705b51 branch 'rel_3_2_1_1188832883' of https://dscm.esl.cisco.com/git/153/comp-15301477
152019b974e091c0c3556c468c3886180703cd25 branch 'rel_3_2_1_1188878926' of https://dscm.esl.cisco.com/git/153/comp-15301477
aba6979a1d5c6068fe17676e4c81d886c0905060 branch 'rel_3_4_1_1213862709' of https://dscm.esl.cisco.com/git/153/comp-15301477
2aad266b5fa84801bf5f1447e7c24343ded231b1 branch 'rel_4_0_0_520_1170208990' of https://dscm.esl.cisco.com/git/153/comp-15301477
601958bcf5b3d7ec9d76daebaef49ad58b2b9c16 branch 'rel_4_0_0_669_1185503667' of https://dscm.esl.cisco.com/git/153/comp-15301477
baad050e503716b4d21f7f0ca43bc00a7353d964 branch 'rel_4_0_0_669_1185508973' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd4d20094f42db8fc55da2f5adff2cbfa1dae33d branch 'rel_4_0_0_669_1185509620' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca8d40815198aa0f41bb0e73e3ce8938259bbe2d branch 'rel_4_0_0_749_1192416586' of https://dscm.esl.cisco.com/git/153/comp-15301477
46a9d1999d0e49c0ac50460967422f67cd260a8f branch 'rel_4_0_0_754_1192508418' of https://dscm.esl.cisco.com/git/153/comp-15301477
3dfb055f55c2bb6be962beb6d59cf614cb396a50 branch 'rel_4_0_0_828_1199764468' of https://dscm.esl.cisco.com/git/153/comp-15301477
d6c5cd64e80972c92d1f9b50005563151fc94f09 branch 'rel_4_0_0_879_1204023719' of https://dscm.esl.cisco.com/git/153/comp-15301477
de1341c2027a03aa5f2138eabfe3ca002a3a8d32 branch 'rel_4_0_0_885_1204026761' of https://dscm.esl.cisco.com/git/153/comp-15301477
6f310e40db4ac61c5260dc9f6ccd5744dc46d184 branch 'rel_4_0_0_885_1204028067' of https://dscm.esl.cisco.com/git/153/comp-15301477
5230a241b7852eb42ed1860dbc0eff35b27dc555 branch 'rel_4_0_1_1205146992' of https://dscm.esl.cisco.com/git/153/comp-15301477
1c38aff3367e27025d23476af1a9922fd91e642c branch 'rel_4_0_3_1216832024' of

https://dscm.esl.cisco.com/git/153/comp-15301477
9d3a7ab148e511acec11f7e10eda4b74523e951a branch 'rel_4_1_0_90_1209800952' of
https://dscm.esl.cisco.com/git/153/comp-15301477
283350b2926ebd5778b92111f85d19aa122cb257 branch 'rel_4_1_1_1220338475' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5868f2437924f396d6af9acae10f2efc96e890ff branch 'rel_4_1_2_1228304625' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4deac4caab3f0e067586b41f56a30bff08b80fc2 branch 'rel_4_1_3a_1235365905' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3c4d5021706d3ee9d451b56c979bed7b5b592a16 branch 'rel_4_2_0_239_1244796494' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c09a0ac81a2235458e76f08cab1060bded441a8b branch 'rel_4_2_0_239v_1244798615' of
https://dscm.esl.cisco.com/git/153/comp-15301477
91bc2251de995d4553b329e27cefaec9b87c68c8 branch 'rel_4_2_0_246_1244873958' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b93441bed14e7373abe0bd9189f53bc3441c60de branch 'rel_4_2_0_246_1244875310' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61f581d2f29e7620e5d38f554f7b4c705c54734e branch 'rel_4_2_1_1246501284' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1e8b779bc3558abaf8c9a3c85fef407d782362b branch 'rel_5_0_0_107a_1241521493' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6e80956fc025f37faea2439efcfecd2b0d06a63d branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301477
62f317e0e12ed497f46ff0943467f70d3341c594 branch 'rel_5_0_1_1264407142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
20c8d0e73f53b05c8c20d7476ee99eb5acb79bc8 branch 'rel_5_0_1b_1268628903' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66e8ad9c81be9fd8b16caa2bd0ebc276f412412c branch 'rel_5_0_2_1268889241' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b2dc7fabebcd9001afeb61abd9d0d9fbb55639e8 branch 'rel_5_0_2_1268900747' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a5820d07ee2cf3cead30fbe6d372c29ddda47ad8 branch 'rel_5_1_0_78_1273728062' of
https://dscm.esl.cisco.com/git/153/comp-15301477
911ee18c13f1a0fa376a7389047745b37f3fbb2f branch 'rel_5_2_0_250_1301681919' of
https://dscm.esl.cisco.com/git/153/comp-15301477
682877a8be0edad6b2f1bbfde929570bec050f10 branch 'rel_5_2_0_251_1301295965' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f7b14dcc52f63c427ba8b554a1a0b34e945f29e7 branch 'rel_5_2_0_257_1301300390' of
https://dscm.esl.cisco.com/git/153/comp-15301477
347c7ac95da8eb139e9f9b2d9831f7b5f8fa95d2 branch 'rel_5_2_0_270_1303378525' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4c08add6e69d1b8e71a85c3f36cdfc1df6dc2c9f branch 'rel_5_2_0_904_1304321221' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1c0cf7d205cc93639c31c76413689c214df4eb7 branch 'rel_5_2_0_907_1304482212' of
https://dscm.esl.cisco.com/git/153/comp-15301477
951729152a6265f3911a43870652a857346117c4 branch 'rel_5_2_8a_1365686638' of
https://dscm.esl.cisco.com/git/153/comp-15301477
262b82bdf979931deab96127a5e940b41d3edcf6 branch 'rel_6_0_0_11_1313537935' of

https://dscm.esl.cisco.com/git/153/comp-15301477
5c2b616ccc6eddd6cf6452d25c070617e47f9d9d branch 'rel_6_0_0_30_1313796682' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d98f10bc7822512441bff2ed846f98ca3eac0ba2 branch 'rel_6_1_0_220zonda_1330655142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21664a6105748cd9e0e320037292c082f53a52b3 branch 'rel_6_1_0_233_1332934317' of
https://dscm.esl.cisco.com/git/153/comp-15301477
23a40875ee75dd0d1fdb92dc9e241df654304261 branch 'rel_6_1_0_293rouen_1338272421' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8034e23eb9e2030ba58e9eda8a04ceee235ccf86 branch 'rel_6_1_0_4_1314178785' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61838156c498fa72fb5350e8f981c4ccd4355425 branch 'rel_6_2_0_166_1341715081' of
https://dscm.esl.cisco.com/git/153/comp-15301477
faca3a19825b1e094212c35f72f96b11de7c1656 branch 'rel_6_2_0_22_1323474416' of
https://dscm.esl.cisco.com/git/153/comp-15301477
86f5848d0044071d9724e66d88e4e92d7883086b branch 'rel_6_2_0_233_1350283358' of
https://dscm.esl.cisco.com/git/153/comp-15301477
00c44e69b30908a73cacc22f6b277939ed5cf2d4 branch 'rel_6_2_0_284_1355750076' of
https://dscm.esl.cisco.com/git/153/comp-15301477
37e3c349032e723d930f00a9c40562cf2227e1ab branch 'rel_6_2_0_294_1355752126' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1668d137bbe412aa0fedc5bd9546e08cf86303f6 branch 'rel_6_2_0_302_1355755477' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2d624f4fd2df8f5a532758bd6593ae4e96bcc8b1 branch 'rel_6_2_0_42_1323892974' of
https://dscm.esl.cisco.com/git/153/comp-15301477
625ec745f5b13dfef80907b9a1e99c3a4f5d609b branch 'rel_6_2_0_47_1324073744' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66a0d879c71de1848118de9e341d5deb83818adb branch 'rel_6_2_0_5x_1319447985' of
https://dscm.esl.cisco.com/git/153/comp-15301477
079fed2a107c0e58789f36e18f86637a1168c33d branch 'rel_6_2_10_1411029857' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e2d6fbfcffe9d62c7697e2a0f8af68792cbad105 branch 'rel_6_2_13_1432205888' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b75e0e977504401cae027d22bfdfb9c29a6670d1 branch 'rel_6_2_1_1358454650' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6ffd096b6e045a75d8226fbecb61f202bafebc6 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad6ebdbdd32757553bb398717ecdd93b72702108 branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd97ebd363c48f64c6c36ec73e07712a8bd5a57a branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c792866394749a86a26ee9e4f5bb00173728b517 branch 'rel_6_2_1x_1360614323' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0f1652e4b7833067cd60bac40605d3dda2644a72 branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301477
876eda71d428411b0b9b94b12e6c8eea44570a79 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e5c5394472e8b8dd27799065f2f3ce2f4e19d928 branch 'rel_6_2_22_1549471583' of

https://dscm.esl.cisco.com/git/153/comp-15301477
8897493500215dd7e4b872936b99bf712439cf64 branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6af42341f1d1291ad6614ce8bc8bd63f14379da5 branch 'rel_6_2_25_1537789720' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cbbe757e8340d3ff727fbe6c21f8a09c60430111 branch 'rel_6_2_25_1537804439' of
https://dscm.esl.cisco.com/git/153/comp-15301477
df22adc52aabb8f0341080d2b299673e05120f30 branch 'rel_6_2_25_1537806235' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6a8549154254bc3d4321852ebf241fe665e903d8 branch 'rel_6_2_25_1537853393' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f9babd65905f91aa2eff13630bf9bfaf6a29dfcc branch 'rel_6_2_25_1537857082' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e07cb5e80aedc545bdb1f3e09186803a2fb590c2 branch 'rel_6_2_25_1537863229' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0341694426c29e05eee41e423142068b2226d76f branch 'rel_6_2_25_1537947258' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1dca72e3c96c8bf2a1ae81ef502273d6fdf3ada9 branch 'rel_6_2_25_1537959757' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7eaa26a82647978ad6e3d1b052a9b9444f3c64d5 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301477
28ed57249eda2d2b2fa19a0e925fd5578b42c837 branch 'rel_6_2_2_1374645089' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3ba9f7cc27ae5dcfb02265cc2e3ddfc687b4c789 branch 'rel_6_2_5_1377756497' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2536effaa449a880e07af486aca768bbb8cc7785 branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301477
73316f4e9d25406945145377a0b68f5a88094698 branch 'rel_6_2_6a_1393392717' of
https://dscm.esl.cisco.com/git/153/comp-15301477
956abd8da1dda44fd9043c15a4c20ca9b67c4c07 branch 'rel_6_2_7_1391725316' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a917a53f795f22a03ca0756b86a64ce91f63dd51 branch 'rel_6_2_8_1395337211' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c97f2b258a55a0a1bfa74c0752a82eefbec170fd branch 'rel_7_3_0_d1_0_125_1444754460' of
https://dscm.esl.cisco.com/git/153/comp-15301477
202e6ef655760308ff758edb56db3b1bcafd27cc branch 'rel_7_3_0_d1_0_127_1444932948' of
https://dscm.esl.cisco.com/git/153/comp-15301477
55c370f2cc3610eb743bf566ce6e4eadd65e8d63 branch 'rel_7_3_0_d1_0_24_1435346435' of
https://dscm.esl.cisco.com/git/153/comp-15301477
07932093f7382b205d7ace06e05aef2c64fde157 branch 'rel_7_3_0_d1_1_1453376495' of
https://dscm.esl.cisco.com/git/153/comp-15301477
53d8243f0ce4cc194eda767c06b0b5b3c1543da5 branch 'rel_7_3_0_d1_1_1453378954' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b51650561a6bb094ddcbcc0ef675bff2aa4858de branch 'rel_7_3_0_d1_1c_1468606237' of
https://dscm.esl.cisco.com/git/153/comp-15301477
661352e7716c78df7b218823506d3f48fdd7f02f branch 'rel_7_3_0_dx_0_54_1452151147' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f552d92b9c329165cfe09f6d1d34d48ef1f4575c branch 'rel_7_3_0_dx_0_54_1452155690' of

https://dscm.esl.cisco.com/git/153/comp-15301477
d701575c5fd3bdbc7f21b3242d3b59ef41f87a77 branch 'rel_7_3_0_dx_0_54_1452156693' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fa536aafbd7288145e2c2590d7248ceccb2b332f branch 'rel_7_3_2_d1_1a_1506012041' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21e8f6997268df5c6882ae0e822238aaba31c4ce branch 'rel_7_3_3_d1_1_1533706967' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5663261614a22055cbb715bb95073d89840106a7 branch 'rel_7_3_3_d1_1_1533714860' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fd1d1309e87165fa417aba408c1fadf4567d3b81 branch 'rel_a2_1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b8cfc8f36965a42667b9d0eaa1ed089c85acd6a0 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8d8702357179898f0d6e94a548315df6cfff1679 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
073d16c4fa776bcc259e62c85ef841930ce25ee3 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f6907715da46688acf5de4232a27f66dec28b95e branch 'rel_a3_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d887b84949d40aa15022ce22238f81fe3b5b8488 branch 'rel_a3_2_0_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e6ec15527a1ad8b4941cb78aceafd7ed22f03 branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c37ab6aaa136e569ee56be557b75c92aeb16013f branch 'rel_a5_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b156bcd2241d70ec81052b5663d8c6b069017f65 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2bb36077e10042dc9dbe340fe9901a6d8933482e branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc978dc9d08c7c0d5571ce68846e6d09b93d5abd branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4ed23568deaaf816fc0dcf198a32bc6c283b885 branch 'sample_run_test_debug' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a150019c95484639ef216a3bb3ee21b66d61d018 branch 'sbc_argos-trevally' of
https://dscm.esl.cisco.com/git/153/comp-15301477
19c8721d9eb761db3d5c5b6d2defb986f8e05cef branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
0849d53fc969fd39e3853cb77e6b9661b33295a5 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da55daab3e93b051197c62a70e58be426d0de41 branch 'scsi_3_0_0_335' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ba2bfe62c1c564e851614c5e90ad899c2dcb2b13 branch 'seg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea35cfe64bc318790a1578c7393a585d2269e8cb branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301477
882b3ddf80e6cc20223975d540a5f3ce06d5211f branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d78051e11087fa9df130ed16695d58533f5db9d branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301477
c58eacd7b4be9c0bd271f4e61a7f6e078c052d3d branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301477

910e03e448e14c1c927de86ad2ead0e0f4449aaf branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfb089988d1baf1f6fea0e009aa2473cee205b branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e7ecd7d4c9d49ce6c0ca9f186210ad49be0cc57 branch 'shadow_collapse_6210' of https://dscm.esl.cisco.com/git/153/comp-15301477
758bbe91190f6af9037adc384bae985b4d0c6c8e branch 'shadow_collapse_6213_s33' of https://dscm.esl.cisco.com/git/153/comp-15301477
4bbd7acd3b807a857879f47947f8fea382638451 branch 'shadow_collapse_628' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2a27ab33b615ed7c683909bfe1714710ba822be branch 'shadow_collapse_628a' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc09ae29c6280bd58447a6c8975b24daf46e9744 branch 'shadow_project_627_s40' of https://dscm.esl.cisco.com/git/153/comp-15301477
4979fdf20120358dd8215ffec66208f738b621f3 branch 'shadow_rel_622' of https://dscm.esl.cisco.com/git/153/comp-15301477
56360246c5e54920bd942f3d734e8487dbb0c5c7 branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301477
5102e54c360518e6424eaabaa83de9f4cc83a742 branch 'sky_fretta_ppb' of https://dscm.esl.cisco.com/git/153/comp-15301477
cd6f19071b5c6284b8e5c18fae559a23db2c1b8e branch 'sky_fretta_ppb_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
03f1327eb449ac3067f904a33359c9821f988a05 branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ed9d27c056533ea75c0159e94e71c41232d6c2d branch 'skywalker_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
77ee697ca7602fbf6d6606595ef5f11b850322b7 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f15c2fd12e6e400435d10ecb76d70be3428b18e branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a62b8e3e13b7662737fae6408c7450342c3b743b branch 'skywalker_rel_8_3_0_cv_0_4pe_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
53f276932c3cc60321a3ce96a8c6c5f19089a99f branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0b35d80ac5678321816490e1985fc4c08e07651 branch 'skywalker_rel_8_3_0_cv_0_787_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
10a5bca0adaad8e190165f0f4226782809271a5d branch 'skywalker_rel_8_4_0_sk_0_1n_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e1576d658f29c5357d3d8b5879a41973f8fadc31 branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e7f589498d137e2e17b4919259e2765704013ae branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301477
7cb89e672ad2f3d78eec01581ab26d6c1bc30212 branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ed10213582e68a81e74422ac716d0b1c851abac branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b8ef31e0fd8ae86010c6fe5158a3767f45b282b branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301477
2dc2bb79092248708c75d611893e3925a2407aed branch 'smu_n7k_r710_sajjad_test' of

https://dscm.esl.cisco.com/git/153/comp-15301477
fd2029a4fb9f4485a7c3986ff5bbb950cb586140 branch 'smu_n7k_r710_temp' of
https://dscm.esl.cisco.com/git/153/comp-15301477
839e43b16e95c906f6da38914b9272c00ac7860b branch 'smu_rel_9_2_3' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cd39088d730d51369ac0a70b0194bf2fbbab8a38 branch 'ssp_r1_0_fcs1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ddd7156df813bdb2837dbf587d7effb1ec0b5ab8 branch 'ssp_r1_1_4_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ab4e601d384919d7878d0fa2686be599ea44d086 branch 'ssp_r2_0_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1553d089938c98946348528a6b81da0bfb8ee69f branch 'ssp_r2_1_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a0117c699069f03226cac9ed055db50a8460d2f6 branch 'ssp_r2_2_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
64ff1922ae968b757b98c4d9c076191a166111ec branch 'ssp_r2_2_2_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
578261edb91fe301440663dbffc2230af80ac5c4 branch 'ssp_r2_3_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8a9b5b8474dab5e88581caf9d8f61bbf35bf2c28 branch 'ssp_r2_4_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
be857f161c8777baf48b87424ce69e7b59c71732 branch 'ssp_r2_6_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7528615dc6932f1d5c283b1f4027af5a68819f22 branch 'ssp_r2_7_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ea3ed08167d81238a0c9405d78774bc640af1d79 branch 'st_demo_lu_pair_p1' of
https://dscm.esl.cisco.com/git/153/comp-15301477
726d24daa62d7774714d1aef9317db1066df5b5b branch 'st_freetown_clone' of
https://dscm.esl.cisco.com/git/153/comp-15301477
090a4612529941b24438fd20f189e71ae89c2761 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301477
74916e62c8dfe3a04365d1335e9859b29cb18d35 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301477
8173d60869a9403a7b291182cb9719dbcdadde95 branch 'sync_skywalker_73_160407_com' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2db19a8fa64a28dd2c4e7c8adac1761e5e3d05db branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301477
1104a5deaf73a8da88387ab7392467ef5cd770f9 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0b0356cf1f2ba483ba7889c9530f1a6a6066534 branch 't2p' of https://dscm.esl.cisco.com/git/153/comp-15301477
ae89bb5cc7e756fa4cbb351d2eefc5daf5886e5d branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc0dac350b3bd3605a97dd49974afca3c0f22c3a branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301477
981af11f8f78b07b58ce611901ec56796e0b1f39 branch 'test_branching_time2' of
https://dscm.esl.cisco.com/git/153/comp-15301477
862f4ce70faf1e478a7012807be599b59203ded5 branch 'th_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
81d6b67965bb0f734e2368909769e38d01240427 branch 'tomahawk_dev' of

https://dscm.esl.cisco.com/git/153/comp-15301477
c44b87ee1e869411cd9f928e4a3a4bd705467969 branch 'trial_proj_1_627_s38' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b0a5ba554223b87697ef42a6812a0eb8e1dc835c branch 'trial_proj_627' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc1f7760edd79758a6cc2323dd183445ad0f315f branch 'trial_run_to_check' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2667ce5f3339bf242a99ee18a370614b7ebd0db2 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301477
adaafe39dd152b5e19e8e7758a84e4735d9abf5c branch 'turing_andromeda' of
https://dscm.esl.cisco.com/git/153/comp-15301477
100bbe87ebd97c27d48197f7219a2009e523b627 branch 'turing_os' of https://dscm.esl.cisco.com/git/153/comp-15301477
aeedbe7c04b4633f8aa6c5fb71dd2cb1704a4068 branch 'turing_th' of https://dscm.esl.cisco.com/git/153/comp-15301477
4dd2b220cbc42a49806f291b9bc324788b0240c4 branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
16022046ce3330fc661e049d6742a6d5c472c961 branch 'ucs_e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
843f805e79bda9f390c34e8ada3608d6b0df39a6 branch 'ucs_fi' of https://dscm.esl.cisco.com/git/153/comp-15301477
3cf60853cba87ba3072f9e32c9296a0652a877b7 branch 'ucs_g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
016e9f5a8283a3968258de5e41344ccb8ef6fb2c branch 'ucs_g_dev_mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa233196dd58e6813d877a4de17153c26a12c63b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f65d0e2d2ba8322d1cbd5af1b3c75ecd66862ec7 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2bf4fdb86de69ce4fa7e83ac2644c86935fa4b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301477
88f373147006214de893045b2e12822ccaa45efb branch 'udb_ucs' of https://dscm.esl.cisco.com/git/153/comp-15301477
65cdad9f98332181db59a774793137f553445e87 branch 'udb_wolf' of https://dscm.esl.cisco.com/git/153/comp-15301477
64366d2d5020526c309cd9bdab60dd47cab6e44b branch 'uluru4' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d16d3285f43c440fd077ceafd9b656620a6f6ac branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
21f6ee2d781ccef354b0a3fdf68bce3e193b6324 branch 'vdc_scale' of https://dscm.esl.cisco.com/git/153/comp-15301477
d928ed741b4a87dd2aec77baeddaa64e718a0cd1 branch 'vdc_scale2' of https://dscm.esl.cisco.com/git/153/comp-15301477
868aa47e2fb4009b1fa2ca159855de52d4c0cd01 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0f09b243ac49f4d8c261fdf6ed86c2f51b6655f branch 'vinci_cx_next_proj' of
https://dscm.esl.cisco.com/git/153/comp-15301477
adfdb4cd0a6a548dfa3603c7977c9463d592931b branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
1436c704fd59684f4bb2da660fa95b8f774c29a5 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301477

2a900e88127f420b2093a7c199bfa61ceaa6c447 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301477
7f21b9032ed635b4eaefb0cbbaf0d379f622dfac branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
40a2023aec76310ce1a48acd2eaa91a97100b950 branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
43a2146b0f5dd4f1b7c701919a25e796980f89cd branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301477
06f346d27c355525edff52d0a94ca7aafaf82be9 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301477
a9cfcbb97835115f9560e72726897613214a24cc branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301477
f648ae732b8be367022a6a06a41fe638e8c8c4c9 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301477
c44c2f3ab7fb9b6787c337ddfc67c3e56f23b4ed branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8a730633a2145cbd341b6e3bc5c4371ffc133bd branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301477
4daf8db37f5b5598290ce9c1ba501b3e5bd8b679 branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
0a0e7efad16cc26543e931849454e6f894cc5820 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa261b720e7df3d175fc8eac2da3a969b0f65eb9 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301477
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
DIRC)]]o1H]]o1H:2e osi\s5X@
module.mk]]o1X]]o1X:2f"RJitVEDkUmp?1ysmartpd_agent.c]]o2F]]o2F:2g;Gwz^vO.#smartpd_pfm_info.c]]o3n#@]]o3n#@:2huH[6G18
smartpd_pfm_info.h]]o4]]o4:2i1T(BFf?smartpd_spec_db.c]]o41(]]o41(:0JewSgbsmartpd_spec_db.h];7e]]o5=0Jj|Y'>mW2jsmartpd_spec_defn.rng.xml]"*)]]o5=0J
Yd<T|[,!specfiles/smartpd_spec_dc3_10.xml]"2'j]]o6x0=0JNBB!dAZ)!specfiles/smartpd_spec_dc3_18.xml]"]]o7/m=0J
5b6h<
bb specfiles/smartpd_spec_dc3_4.xml]""ZH]]o7@=0JKg5JPF(eZ
specfiles/smartpd_spec_dc3_9.xml]"]]o8=0Jd0}wpspecfiles/smartpd_spec_eth.xml]]o9E]]o9E:0J
OEH,,"specfiles/smartpd_spec_eth_n5k.xml]H]]o9P=0JE[BMR?.<5]!specfiles/smartpd_spec_m9116s.xml]]o:X]]o:X:0J[!ih#fC specfiles/smartpd_spec_m9148.xml]-
DP]]o:"=0J,\}=V,x!specfiles/smartpd_spec_m9148T.xml];]]o;jP=0J"r*_&
UmIyrD!specfiles/smartpd_spec_m9148s.xml]]p:]]p::0Jg~A+*.&!specfiles/smartpd_spec_m9222i.xml],@]]pF@=0"
fKUw[P!specfiles/smartpd_spec_m9250i.xml]&X]]p=0"P^W#e&!specfiles/smartpd_spec_m9396T.xml]B]]pP=0"y
${Iv S(!specfiles/smartpd_spec_m9396s.xml]]p`]]p`:0"bD+|R$r specfiles/smartpd_spec_m9500.xml]<0]]p=0" K0m
L|{ specfiles/smartpd_spec_m9700.xml]<]]pv0=0"
1n'&gF`o*9 specfiles/smartpd_spec_m9706.xml]<^`]]p4=0"
2`b~9s
D3pt specfiles/smartpd_spec_m9710.xml]<0]]pj`=0"
2B6*]28+) specfiles/smartpd_spec_m9718.xml]]phX]]phX:0"p(;pr`]*-
J+specfiles/smartpd_spec_nexus_norcal_128.xml]]p^]]p^:0"n!,mjz7(5K]&W*specfiles/smartpd_spec_nexus_norcal

_24.xml]]p3@]]p3@:0"JtK.Ft{MC+specfiles/smartpd_spec_nexus_norcal_384.xml]]p]]p:0"sG**N1u*specfiles/smartpd_spec_nexus_norcal_48.xml]]pe#]]pe#:0"j'ApXM|#*specfiles/smartpd_spec_nexus_norcal_64.xml]]p]]p:0"fe$t)3*specfiles/smartpd_spec_nexus_norcal_72.xml]]p H]]p
H:31hLMF7'specfiles/smartpd_spec_nexus_or2_48.xml]]p
l]]p
l:31d'd`XG=N
'specfiles/smartpd_spec_nexus_or2_96.xml]]pX]]pX:31hLMF7'specfiles/smartpd_spec_nexus_oregon.xml]]p]]p:31hLMF7(specfiles/smartpd_spec_nexus_oregon2.xml]220(]]p5=31%3AiTj[@Lf`specfiles/smartpd_spec_xbow.xml]3]]p8=31El'>p4"specfiles/smartpd_spec_xbow_10.xml]3`]]p
u(=31X).STO./:T"specfiles/smartpd_spec_xbow_18.xml]2;V7P]]p=31XP^ZRnW!specfiles/smartpd_spec_xbow_2.xml]3#%(]]p$=318..Iwyo!specfiles/smartpd_spec_xbow_6.xmlTREE=41 1
7'R\0`hxOspecfiles34 0
0
0Qu`!?B>e=>RyD
c3da9d643002251226ecb9ff51aec487cca6a3e6
72f82a676e4e8a7e8afdf779f565129030a3b2d3
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
DIRC
]]o$x&]]o$x&:3*yx5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/lic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_common_defs.h]]o((]]o((:3*^*$>f
bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
  _@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
caaa75e0b83f705095b8e9759a6c2468a1e07e98

72f82a676e4e8a7e8afdf779f565129030a3b2d3 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
a99b88badbd4272519eee57ccc729e054c977969 branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f branch 'beverlyhills_rel_8_2_1_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15304913
2c44772f070b427bbe767384281cdc2b17c45dd2 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15304913
f2dad64daa260f5464c4192f0d687234345cf571 branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a3e4b284cd4bbbf1236f01feb943b593385afbc branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15304913
e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-

15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of https://dscm.esl.cisco.com/git/153/comp-15304913
d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch 'rel_7_3_0_d1_1c_1481436596' of https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913
0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld <nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
DIRC~]]g+T]]g+T:6uAkx&g~.gitattributes]]g,I]]g,I:6JDHF7=7eV
.lfsconfig]]g-[ ]]g-[:6g=D:aRh
cli/lic_cli.c]]g.P(]]g.P(:6c-N;~S

cli/lic_cli.h]]g.]]g.:67I{0BMcli/lic_cli_isan.c]]g/]]g/:0}n"-glzHC

cli/lic_cmi.h]]g0u]]g0u:0S3aXG,*Zkcli/licmgr.cmd]]g0W]]g0W:0JqX*zj=\p{5cli/licmgr.xml]]g1]]g1:0`>N_Ocli/licmgr.xml.h]]g2]]g2:0".T7rlj=Rcli/licmgr_cmd.h]]g2P]]g2P:0I})Bz3='_*Tk'{cli/licmgr_isan.xml]]g3BX]]g3BX:0XEX8cli/licmgr_isan.xml.h]]g3]]g3:09V_{N|0
cli/module.mk]]g4X]]g4X:0
>hdUKZx"cli/traditionalcli.cmd]]g5]]g5:3{j'^Y=examples/lic_example.c]]g6Lw]]g6Lw:3
SwIY5zexamples/lic_example_isan.c]]g7p]]g7p:3qa!v3>a~(Lexamples/module.mk]]g8u]]g8u:3xX!CUlicmgr/eth_plugin.licspec]]]g8=3%'O^$licmgr/feat.txt]]g9]]g9:3Dx3hc=Y~90licmgr/lic_bmp.c]]g:,]]g:,:3'u./licmgr/lic_bmp.h]]g:0]]g:0:33ELvV=Obc%licmgr/lic_debug.h]]g;l]]g;l :3g.`b&#licmgr/lic_event.h]]hy8]]hy8:3Q~ LpO
licmgr/lic_feat_map.c]]hh]]hh:3jS"x<XW,licmgr/lic_feat_map.h]]h70]]h70:31JNQhP9licmgr/lic_flexlm.c]]h4@]]h4@:5TV87|g{n0 licmgr/lic_flexlm.h]]h]]h:5TV9(ww10NPyp$f{;Olicmgr/lic_main.c]]hP]]hP:3<7
=7]F[.>licmgr/lic_mts.c]]hYH]]hYH:3<89Dh"d<ilicmgr/lic_mts.h]]h
]]h
:3<9p:W.ZNIW!licmgr/lic_plugin.c]]hO]]hO:3<:+
(2c=qalicmgr/lic_plugin.h]]hoH]]hoH:3<;d!skzVlicmgr/lic_pss.c]]hC0]]hC0:3<<=3Klicmgr/lic_pss.h]]h]]h:3<=
6[,W/#licmgr/lic_smart_feature.c]]hc]]hc:3<> @R)67>?S!Hlicmgr/lic_smart_mts.c]]h [KP]]h
[KP:3<?vFrlicmgr/lic_smart_mts.h]]h
0]]h
0:3<@<.cPRE;U<Dlicmgr/lic_spec.h]]h
]]h
:3<An;bK[r<=ixlicmgr/lic_sprom.c]]h7(]]h7(:3<BNJ+eB[4}#O..Ulicmgr/lic_sprom.h]]h
i]]h
i:3<Ck*(o\licmgr/lic_syslog.c]]h/`]]h/`:52wn6Va&rNlicmgr/lic_sysmgr.c]]hhH]]hhH:52{AAhR
k8 ,licmgr/lic_sysmgr.h]]h&]]h&:0h#{TW8licmgr/lic_test.c]]hT]]hT:0]
/7gj_=licmgr/lic_test_isan.c]]hve]]hve:0bmnGBlicmgr/lic_utils.c]]h]]h:0
%xPu<Zs_licmgr/lic_utils.h]]h`]]h`:0
CK@]\R%r3licmgr/liccheck.c]]h}i]]h}i:0!N!!swLlicmgr/liccheck_isan.c]]hR]]hR:0"+A;tOn\rAMlicmgr/licmgr.conf]]h(]]h(:0#o9>^<ufzG|licmgr/licmgr_breakpoints.brk]]h
]]h
:0$jbusT9Qlicmgr/module.mk]]h0]]h0:3"cnSNFrZ
mib/lic_mib.c]]hp]]hp:3##j|G*t bt2|H
mib/lic_mib.h]]h(]]h(:3$YJCq,jp;mib/lic_mib_inspur.c]]hW]]hW:3%|0{
mib/module.mk]]h]]h:4n%v@s(`Y.usmart_shim/admin_api.c]]hX]]hX:4n&G@}p@IWhLsmart_shim/admin_api.h]]hG ]]hG :4n'7WQ.W#DRZ{t smart_shim/agenttest_api.c]]h8]]h8:4n($EHCE\=`b:smart_shim/agenttest_api.h]]h]x]]h]x:4n).HqSDkksmart_shim/entitlement_api.c]]h!$]]h!$:4n*2/c<j[!smart_shim/entitlement_api.h]]h"]]h":4n+b
%rP{^Znc*smart_shim/getinfo_api.c]]h#P]]h#P:4n,%0l]bnsmart_shim/getinfo_api.h]]h$3(]]h$3(:4n- kl,II
5Uy5Nsmart_shim/module.mk]]h%`]]h%`:4n.88s$*smart_shim/shim_utils.c]]h&]]h&:4n/u"VL({C'BczC4smart_shim/shim_utils.h]]h']]h':4n1
)%UM<b-<EvNosmartcli/module.mk]]h(;T]]h(;T:4DP$mDsO"=Y5=smartcli/smart_cmi.h]]h) ']]h)
':4DQ0b|\x{smartcli/smart_exec_cli.c]]h)i@]]h)i@:4DRjHF
2h6smartcli/smart_feature_cli.c]]h*A]]h*A:4DS7
v1$:4w+L#smartcli/smart_show_cli.c]]h+]]h+:2gA6nubpsmartcli/smart_test_cli.c]]h,H]]h,H:2xh%26
N/Rj0smartcli/smart_util.c]]h-kI]]h-kI:2`i0Lz
smartcli/smart_util.h]]h.0]]h.0:2.0("\ijHS7smartcli/smart_xml_map.c]]h/E2@]]h/E2@:2;f^(DlT7`tsmartcli/smart_xml_map.h]]h2NK]]h2NK:2
eX9FwUZMeCUsmartcli/smartcli.cmd]]h33]]h33:2&$6smartcli/smartcli.h]]h5#]]h5#:2zK6427
INsmartcli/smartcli_cmd.h]]h6@]]h6@:0?&5#BRBspecfiles/README.txt]]h8bS]]h8bS:0?GT_:'=#eB4|;specfiles/eth_plugin.licspec]]h9]]h9:0?Y^0L*B+W
U=j specfiles/eth_plugin_n5k.licspec],]]h:x =0?w6w

U/% specfiles/eth_plugin_n7k.licspec]]iy]]iy:0?
&9f+!"3specfiles/lic_feat_pkg_map.txt];/Y]]ix=0??kb&vh78&specfiles/lic_feat_pkg_map_for_mds.txt],]]ih0=0?]Ui
tkj
wv%specfiles/lic_feat_pkg_map_inspur.txt]]i\@]]i\@:0? 0ovulP
%"specfiles/lic_feat_pkg_map_n5k.txt]$]]i#8=0?!_TFdiz"specfiles/lic_feat_pkg_map_n7k.txt]]i&]]i&:0?"C$`[.MA
specfiles/mds_alishan.licspec]
X]]iP=0?#vWXW'nb%specfiles/mds_alishan_gateway.licspec]d]]i
a=0?$]z{/"|%specfiles/mds_alishan_service.licspec]3]]i(=0?%{P95>w#)specfiles/mds_alishan_service_gdb.licspec]
]i]]i :2=2ab2D? specfiles/mds_casablanca.licspec]]i]]i:2uiS,y^`QAcO*specfiles/mds_chester.licspec]]i
]]i
:2;(n(UL
specfiles/mds_cocogrande.licspec]]ip]]ip:28(y'f$specfiles/mds_cocogrande_gdb.licspec]]i.]]i.:2KN4*jspecfiles/mds
_cybloc.licspec]]i]]i:2~
2FDul8(specfiles/mds_excal.licspec]]]ig=2i\8sNb
1t|specfiles/mds_huashan.licspec]]i<]]i<:2D#22Eyspecfiles/mds_inagua.licspec]18]]i^`=2
p_*B=7sRespecfiles/mds_ishan.licspec]]i]]i:2MQt#specfiles/mds_ishan_service.licspec]+]]iP=2's#,Tte+specfiles/m
ds_minishan.licspec]]iwH]]iwH:2 i\8sNb 1t|&specfiles/mds_minishan_service.licspec]]i>h]]i>h:2
J\:J3UBbaspecfiles/mds_niihau.licspec]]i]]i:2|-YWsqD'specfiles/mds_paradise.licspec]8\]]io=5H
[w\b(0X:specfiles/mds_tianshan.licspec]]i6
`]]i6
`:5I9C
|y/lS{PMhyspecfiles/mds_uros.licspec]]iH]]iH:5J>z{f+
specfiles/mds_vegas.licspec]]ib]]ib:5KS-
'0zfxspecfiles/mds_vegas_gdb.licspec];1V]]i=5Lkw=tkI2specfiles/mds_xbow_10.licspec];&]]ip=5McJ*(h
Y0specfiles/mds_xbow_18.licspec];(]]iCX=5N69qLl/specfiles/mds_xbow_6.licspec]
e8]]ib =5O
(gMm
t?\:specfiles/mds_yushan.licspec]H]]iJ=5P
2Nqv'Fa m!specfiles/mds_yushan_mini.licspec];3]]ix=5Qzeq>{>specfiles/nexus_18.licspec]P]]i >.P=5R!kx
,=}specfiles/nexus_9.licspec]]i |@]]i
|@:5Sq7+oEBWspecfiles/nexus_oregon.licspec]]i!'P]]i!'P:5T!(MuF9oWspecfiles/nexus_oregon2.licspec]]i"2]]i"2:5
Uj:mCR}+ ;,specfiles/nexus_oregon2_lic_feat_pkg_map.txt].]]i#g3=22b|(A7$'gspecfiles/nexus_xbow.licspec],
N]]i#=22EjPFnGtDm)tspecfiles/nexus_xbow_18.licspec],`]]i%@H=22AA#e%X&}sMSf#specfiles/nexus_xbow_in
spur.licspec]%U]]i&h=22!kx ,=}specfiles/titanium.licspec]]i'
]]i'
:22G)G,Fc\=1specfiles/virt_plugin.licspecTREE126 7
rGr8
iv26cli12 0
LsJxmib4 0
2S6eVW/Rlicmgr35 0
j
GN;hsexamples3 0
2zcR
|Wsmartcli13 0
RXS2_8AcHspecfiles46 0
CCj@wI1slsmart_shim11 0
_\m=C~&@0f`Y`5o[[DW2

ref: refs/remotes/origin/h_cn12k
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld <nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
18b34bd8ae4af33255a6f417361e11786b620994
18b34bd8ae4af33255a6f417361e11786b620994 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235 branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301478
308364ff4b363199edaa4c72c54be421e6eafab9 branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301478
0d9988b3de90d054e1666f39f9e474563369c7c7 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-

15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301478
81afd4e3c64fe90013115c0bc393e26a6aeb19c6 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301478
947493009e8b5bc81c4196a0de081e1560a7abfe branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-

15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
b44b68849c01d3c522a065ce7559510609068115 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb3e10d6fd32e9be210d75893c68e00e1b2f8a92 branch 'daox_vem_ss-project' of https://dscm.esl.cisco.com/git/153/comp-15301478
37c7bc3e9015888ae49d995ab027c2d2d96ea8c0 branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301478
372426417e0574776faba0a48bd084b7dde3ce9c branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d05d98bcf4e20379ec9012578a26b1a642cc86b branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301478
2c341ff12fd1d96eb8046af4783ccafaa6919a4a branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301478
6759232f6dc5b608dab6f45ee64e3c003e7c942e branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301478
dd11747c110645522f329da909751dd75b5a7252 branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
542df882658f55c50fe5c5c3ebec2cdbfc1dc0ab branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301478
03badb12a0b66b1421147d9b4a8121e6a7b7bb3b branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301478
693b8b755085214667f3fa7ef1879c99f7034b99 branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
3a98b8c78bff8bf035238d9ceca7b72413cbfbbb branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4a1074031c1dd029a747ee84fee81fda704a3548 branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301478
b02be2a6ea95efaf17e2e7efb17d08371a000472 branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301478
e87da2deb0008f582ab8d3cceb74d48cc6213a88 branch 'eden_feat' of https://dscm.esl.cisco.com/git/153/comp-15301478
62b18d674216af92cb8ee958fe094a9e2121a7a9 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb9d1e296c178aa2ce9a0227cdbec9b194ea6283 branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301478
576a1d4500233107515f5e524832451c056c33bf branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301478
f936b8772ce3c0969d1530fc0a912c0e06b1cb96 branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fa109d86c4d75e1c2d01318402cf2b257e1535d branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301478
cca1814aba67221e0a2a423c6d49717f6999ec64 branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
f725771fc2469584a5b3a3780e7673d112aabdd8 branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478

ea6288281cdf21c428b592521cafcee2150b7628 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301478
e8beebbb8f177e4ab4a15b90b260302ebbb97caa branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d784f97ff5701c9fab71069a51ee90a9600e9a12 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9088f3e60e64a872d019a2d4b3fbbf6d1b81ca branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301478
39eb5b40f093bed1eef7cbdca0b1f88cc4248add branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bbb4c5769f5525d9ac49549968715e6d287df81 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
2b49105ff402ffb3ca2355ea3fe4a800ae44e11b branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301478
1dedcfa86cd9a1f4d4601d9b0a754bfcda18d342 branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
1bbcd7694d98406fb20cdec3e10c6a48119ff908 branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
f323d0d3c2f6bf3cc908c2d15274033aea55cf14 branch 'garibaldi_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
af87e7869259ea7cc89d933b98d646dc6a8a6566 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301478
a2f61f718b1c6a70da15e490d51c7cc047164bb8 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
39f6a6b0231ee05d699903e1d6886849f967a70f branch 'gbr_bundle_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
79063adcab4db50596b782ae5b508492c7a52228 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9d1b0a03db151b8b3a1b8eb026e6362c042995 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fd0e000351d1c7ec818a79a9ee8abec254da5ea branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301478
96d2457c996fd955e9a4c7c0e7ef52da142cd672 branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301478
c1ab9aefc6b1347982a0b6ff2925c54d33a85392 branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301478
0dad6c5fe8bdaa73caae3402883ff324d2378508 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301478
ad7a0e02db66b29c9dae415301f096eaf6ecff60 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
11fe16388c801c29bdb744ae63bef535e3a18753 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301478
7e22a7dba2ee8ca8ffa2b3571596e2d8d18bb6cb branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301478
d097c8e9cb853f785b88701bb552dfbbc9894135 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301478
c7d0229dcc541520afc7b4d1c6e7ab010095f77d branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
e1bd69b934c4073d8cefb6e7996ead22e511d71f branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301478
d4f59c0474caaa0e41fd7ad6f929eb743dd5f324 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6705e834ba11db6846c855c443b55ac2e5830df branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6e7312ad4223318e9549e8200b58cbbb9c69e03 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-

15301478
ef661f472337a84c6f96e3ee4e7d608ee02bf91b branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
36b7d19577707d8e73cd9c87fa49e21f2f54be4a branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301478
f507d20dbc7a4927d91862c6c6ef222b324ce456 branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
d11df479f60faa7782bae049c1d8f6d0c5b97bf8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301478
c3a0d8739d0aee04c9c26283d2a5d5bfbab112fc branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3dd46f7e5233681d53d946704f3b8484ba79edb branch 'ias' of https://dscm.esl.cisco.com/git/153/comp-15301478
140eb4191a66314e9841045d35d51516e1fa9413 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8312481aa1fdf22a586c7445cd40ef0eb622f6a branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301478
4fefc143cb49a0ffeadae3801a9496a7c1b5eeee branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301478
415b381b092ad1ecb639827edd6574779f38e8c6 branch 'ioa' of https://dscm.esl.cisco.com/git/153/comp-15301478
69b89a6b04f7bf692aaa07258ede18e84a91701b branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301478
d337838222cbb6b6380522946690749e8f339e17 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
1fdcabb6ae1e50c233361876735356c91496da37 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301478
059f8da47808923f2683f14086a54c76640d1534 branch 'iscm_ss_atherton' of https://dscm.esl.cisco.com/git/153/comp-15301478
fc51afb403f07b3c70daaf1ac5bf80c3c1774b42 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
3dfd9ac75e0d6e2e1e03907cd1010c2846ab6e33 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
ba2fd9569703df93afb794d1e02f29050a9ac138 branch 'itasca_vo_181b' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6ef8e01e35d97da1e8ca34264a05cb2dbd4d7 branch 'itasca_vo_191' of https://dscm.esl.cisco.com/git/153/comp-15301478
b901961fb218f1e4f787994711fea2365dc01dd8 branch 'itasca_vo_21033' of https://dscm.esl.cisco.com/git/153/comp-15301478
fbcf64c850e1f61582489993ce99012d4c246437 branch 'itasca_vo_2106' of https://dscm.esl.cisco.com/git/153/comp-15301478
23032b1bdcb3039cab2c9bebc452584104d00850 branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
276c2c17817d79a12a21f98ab8efc7e6ace890f7 branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301478
eef6ca0c2e377e90a281ca79909357e61e7162d2 branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0183e78dcf974af418008c22ee73c524f8065fa branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301478
db2a7d37016efef4a0d076cc33de929f5bd81f12 branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301478
af8b7325142cd9d4f6194cbdb6d8478d34a136da branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-

15301478
b545c1bb678c670a1e0542335e5f937bc62d9607 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301478
b63bd4541f35d414c9c8522643cc89a6b04ea973 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301478
6cf77b3e21752b254295c80abf27f1d4ccfbdabb branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301478
fd76e8f6248812daa20ea5ccbfe0944034aedacb branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
8be7d6032a008a2eaf4ea90146bb31f71a0821ef branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-15301478
2e9f71651efea96ce7ee64a94cc027681e4c9383 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
c4f96f211387be7f74487ef50aace6d9bb2f2286 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6d6fa4ddaa707b89d308923496d7742524fa691 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301478
982b1b6f225f4ccb7e1827a24630f27f500b738c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301478
663d9fb2685a9fc05729f83f9b1bd22c7b7ed788 branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3e1206a99d0876716096a242405306e237684f6 branch 'n9k_redmond_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
989ed9ca2ca04fb1c103ca40ca5ef8ea8be36cb8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301478
0c0aa09eafeeba2d8002c8b49af22e16ee5c1f03 branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301478
46d91c04fe17073fc7dded151478b6fb1288b993 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301478
af942f9d5bbd9f218dbb9f21b5f328fddeab29e3 branch 'pf_dev1' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fd848d04fcb1f5e33d4444fc677f8eea6beb686 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301478
f2bc608817a1b04e2ce81901c12d34069d54d817 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301478
209779d347aaa695a32863d27f969242a5b9d23f branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301478
c0d1ed5843a711a9b43143bd16990542f5c9c113 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301478
aeec478944bec360f74ce37afae785d380f77fb9 branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301478
9431c359fbc453db8726c3f1081af2eed181654e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301478
f809ccbf2af5aef25ffb8de4f562c0bfc6791688 branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
87d93bc1be10f610ce2eb468cda112f2ea54292f branch 'rel_3_3_2_1224937999' of https://dscm.esl.cisco.com/git/153/comp-15301478
05c5023d78da3ea7f714b23cd65122180fdba92a branch 'rel_3_4_1_1213608616' of https://dscm.esl.cisco.com/git/153/comp-15301478
c5f3d774503d3016a38c82dfd55c9c59d928c6b1 branch 'rel_4_2_0_181_1238668610' of https://dscm.esl.cisco.com/git/153/comp-15301478
ac514a85ac99106c66769ccd4e4e86ee314fced7 branch 'rel_4_2_0_232_1245089908' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b4b4dec07d40bbf32c9879ab90af1cf3e791950 branch 'rel_5_0_0_107a_1240538733' of

https://dscm.esl.cisco.com/git/153/comp-15301478
5f5579b0d72a3f9473728ceaaac6c1466e39bd1c branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ff1a854d0ff7e5c0931f314b12082860feb640e1 branch 'rel_5_2_0_270_1303376229' of
https://dscm.esl.cisco.com/git/153/comp-15301478
01afa718a42114dd05b0f0a446686c3e89b4f0e6 branch 'rel_6_2_0_136_1340789244' of
https://dscm.esl.cisco.com/git/153/comp-15301478
689377c1cf4f911431016c5fe6e226845b650492 branch 'rel_6_2_0_166_1340955287' of
https://dscm.esl.cisco.com/git/153/comp-15301478
646a4b83eea9f721abaa5cd580d116969f64b46d branch 'rel_6_2_0_257_1352462481' of
https://dscm.esl.cisco.com/git/153/comp-15301478
20acb97f034c3a8334c38b22606396e76a63a339 branch 'rel_6_2_1_1358881414' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fc08ef49bd79a75f25ed383199bec797979c1f0 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301478
751414a01ab1b7a88e07b326f208b9f0c7f6975f branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7c615c6307d1368a3fe35fd0c5bc543e810302cc branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
951b02670b44338cb9dc08907f9dab8f82d97eaf branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301478
8e06fe9b97684f2bdcde119b23a03dc34d491584 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f99b05b7b6f6c8a4be4a48ac41a8a571a8aa24dc branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301478
22f08f6fb3a9342449b5d500089beaf540cf9d1b branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05fe7b9455364a33abf847c3ec05d731867f1045 branch 'rel_6_2_25_1539182315' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6050a58b40da4df4befdcf88556c6861cd67fe35 branch 'rel_6_2_25_1539191823' of
https://dscm.esl.cisco.com/git/153/comp-15301478
2a048c6f1c03349355e52c52935c2aeaa53efe11 branch 'rel_6_2_25_1539238092' of
https://dscm.esl.cisco.com/git/153/comp-15301478
37372dd95365436d3d3f3b101354d4a92ca3910f branch 'rel_6_2_25_1539239655' of
https://dscm.esl.cisco.com/git/153/comp-15301478
71c8ea4d50a392fb3dabab1da6f0ea4ab07d908f branch 'rel_6_2_25_1539248473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
df97caa3defec8513e1a2204344e6390877deb89 branch 'rel_6_2_25_1539249764' of
https://dscm.esl.cisco.com/git/153/comp-15301478
079bdbabd79f7fa548ed9ee1dc1d3b04d21d3ff2 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9523106cb6551f85591b17c54311433ff8087dfc branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5d3123e6c405ae90a2341ab990127f31dbbba3ea branch 'rel_7_3_0_d1_1c_1470763162' of
https://dscm.esl.cisco.com/git/153/comp-15301478
3fd68c8fd1dadc4ffd1acd68989e5a25e1217fcf branch 'rel_7_3_2_d1_1a_1506152203' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ce8c8e553b059b7b99eb3bb4097613c2c5c768df branch 'rel_7_3_2_d1_1a_1506154528' of

https://dscm.esl.cisco.com/git/153/comp-15301478
4813f1d402bb0b717762abd7c7bf4eca73766ed8 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fb9c13257ffdfab5962c1ba62a724a5fb7e6ae5 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
637a0b9c22dce42c9f17a88d104dbb5772e89ad1 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6082bed932f2aed4226b321e0d0ef659acd39fc6 branch 'rel_a3_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72fddd58f69efdf8cf9cfcf168963bfe28a089bf branch 'rel_a3_2_0_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
37b7ca7e8f6a3324b7084ebc1a0d1812bd93efad branch 'rel_a41_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3ea3bc2282a05d52e707453d38821cb91a1533c branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72470eab26284961e1c89db71301559e12bef166 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
66356d491a36335a136a8f0815f4067ddec9d4bc branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301478
b53c16eead58d6956c4b0764defa4423aec50033 branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
753b4aa31444c4bcaf19de0ca2a9f4715df44e00 branch 'sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
e155771334f2f31cafdb7008a3b2966b0f1d0e4d branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
098a0a196c019d4ee4a4bc15c348fca81235b069 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301478
48446a4b5fe9108d3d29d43acbe572535c5f97c0 branch 'scsi_3_0_0_335' of
https://dscm.esl.cisco.com/git/153/comp-15301478
105aa02289eea3020bae4a9aa87ed60fe3e2fa1f branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301478
21b124375bab313594e33834cd72d557abd80db8 branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301478
3202a93cf5ed097f2e727003fdecb30998977aa3 branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301478
07ad4755c9cc043b50c7f46bb69ed0190a170582 branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301478
f30c7f51d5516bd9edccd197209cbe0a879ae4ad branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
91d074c2a66b413ca62a9afbe04802ef0bc12947 branch 'shadow_2_rel_625' of
https://dscm.esl.cisco.com/git/153/comp-15301478
b84db97b172c99605dec6dc11752c5b129861e1b branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301478
7a0106b95924f463eecd51e8fbc0f97f01be48df branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fa196950d2e766be74d183453588a4fcc92601a branch 'skywalker_rel_8_2_0_sk_0_148_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f06e1ed0483da8b4374451d688f81a77b4de5d9e branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301478
353bdbdf012daf882a63fb13c14639aa58b85d41 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-

15301478
55c1b9cd1e7cfb5fd1bdddafe80c78047d5db7be branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301478
5653a55eaa0b143ab0478f5a26049dcc829c1830 branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
aaac4ed52c966ea355f983b1097a7461de97a192 branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301478
8fc0e776de65ec8a55a4468d62183d1ea5f8e2b8 branch 'smu_n7k_r710_sajjad_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
71dada888ce90cd69c3970561940ce98b9977941 branch 'smu_n7k_r710_temp' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8f993be6024be49e485ec745d37db9c97c18259 branch 'sp_skywalker_73_161130_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3ae6f149c770ad44aedcc35432f514947e4e887 branch 'st_demo_lu_pair_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd7423520b4ae3f92fa04577f2342744feb3294e branch 'st_freetown_clone' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bc93c134779efbe23e065084b6d8d1dade45f65 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301478
50f390f9ed8b9286c7b311111d3532ff7021a506 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301478
65e581399de4e9d700c36e5c28948457a2fd599c branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
52a5af46815ea0d9d842ba020e104f7cccce88dc branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301478
1efa7a9070b4abf9f30bbb526c9d9ef301ed42d2 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
891a5faaf8543fa6cc07cc80cdde010722906e83 branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301478
315803f020b43a75703e1bcd28ef412f53c0aeed branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301478
0556f775d55169ee22de821b23d64b4f39e4c413 branch 'test_branching_time2' of https://dscm.esl.cisco.com/git/153/comp-15301478
8713f07d6198f5072dd23927e4760828def510ee branch 'throttle_sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
38dbf00b4621334c955d3289fd92fd51d5f0f305 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e9da8a85ef3efa5f3aa180dc2fc24ba5d8b4f77 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301478
865d29dbafb9353d3be76c1bd63b70cf08606b7f branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301478
525dd7727316385b75a7a224cd1431e4dd4e4451 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
904185ec6f5103b66d17d6b8da11a692191b96b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301478
849ec2d80fdae023651c4f52d2fbe13dcf760a04 branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4490d20595812a0f4916ac9d7e53482428865ae3 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
82815a4d2ad9eddf3c51a22298ea2059018cc6c1 branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478

80f161749264fc319e7f68bfa4884414b88670c1 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301478
76cf7da6ea2506d4a341ef921e7b7217779fd4f3 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301478
21ba2465d0cbedf990f933a3c03b97197d6149ce branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d2e118677aae02b25ce1c0460708b36e17d2ead branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
0eea74a6c3bb3141bd056b6c291cadce2085df7f branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301478
a6317fa6bea14fb21bae125f5bea5daa328cac16 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301478
042a2f1ab8db9e1db17ccdb72e8c00c5274b3d12 branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301478
6d8037027b72e1f1ea13c9b60ee0365276bf6ab5 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d7eb3558c14a0ad99eb671c72244533b0a96a65 branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ac1838dd71f9a0ca114d5a54261dbac4265e558 branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301478
d7d0184d733403ce16715e0a01278781fcf2acab branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
dc13f3ad869914012eced3645efed76807b27be9 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6b8d82b5685771f81fdfd56bf8a0e4be59565 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf
0000000000000000000000000000000000000000 18b34bd8ae4af33255a6f417361e11786b620994 nxbld <nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
caaa75e0b83f705095b8e9759a6c2468a1e07e98 333f8b22c5dad178e0e0fc0db61cc88b252a5a4c nxbld <nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git

1.378 msgpack 1.0.0

1.378.1 Available under license :

MIT License

Copyright (c) 2018 Masayuki Shamoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.379 golang-genproto 0.0.0-20220505152158-f39f71e6c8f3

1.379.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.380 xxhash 2.1.2

1.380.1 Available under license :

Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.381 gopsutil 3.23.5

1.381.1 Available under license :

gopsutil is distributed under BSD license reproduced below.

Copyright (c) 2014, WAKAYAMA Shirou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the gopsutil authors nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---

internal/common/binary.go in the gopsutil is copied and modified from golang/encoding/binary.go.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.382 go-openapi-jsonpointer 0.19.5

1.382.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.383 acpica 20180629

1.383.1 Available under license :

This package was debianized by Mattia Dongili <malattia@debian.org> on
Fri, 14 Oct 2005 19:16:28 +0200.

It was downloaded from http://www.acpica.org/downloads/

Copyright Holder: "Moore, Robert" <robert.moore@intel.com>

License: Dual GPLv2/ACPICA Licence

For the GPLv2:

Copyright (C) 2000 - 2006, R. Byron Moore
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions, and the following disclaimer,
   without modification.
2. Redistributions in binary form must reproduce at minimum a disclaimer
   substantially similar to the "NO WARRANTY" disclaimer below
   ("Disclaimer") and any redistribution must be conditioned upon
   including a substantially similar Disclaimer requirement for further
   binary redistribution.
3. Neither the names of the above-listed copyright holders nor the names
   of any contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

Alternatively, this software may be distributed under the terms of the
GNU General Public License ("GPL") version 2 as published by the Free
Software Foundation.

NO WARRANTY
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDERS OR CONTRIBUTORS BE LIABLE FOR SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

On Debian systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

1.384 go-isatty 0.0.14

1.384.1 Available under license :

Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.385 sarama 1.27.2

1.385.1 Available under license :

Copyright (c) 2013 Shopify

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION

OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.386 lcms 1.16

1.386.1 Available under license :

THIS LICENSE APPLIES ONLY TO iccjpeg.c file

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name

in advertising or publicity relating to this software or products derived from
it. This software may be referred to only as "the Independent JPEG Group's
software".

We specifically permit and encourage the use of this software as the basis of
commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support has
been removed altogether, and the GIF writer has been simplified to produce
"uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

We are required to state that
  "The Graphics Interchange Format(c) is the Copyright property of
  CompuServe Incorporated. GIF(sm) is a Service Mark property of
  CompuServe Incorporated."

Little CMS
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the

public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those

subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of

technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users

beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided

you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for

any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same

material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version,

but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the

parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published

by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.387 libevdev 1.12.1

1.387.1 Available under license :

SPDX-License-Identifier: MIT

Copyright 2013 Red Hat, Inc.
Copyright 2013 David Herrmann <dh.herrmann@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following license is from a Linux kernel header file and there is no GPL
code this package links to.

Copyright (c) 1999-2002 Vojtech Pavlik

This program is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 as published by
the Free Software Foundation.
These licenses apply to the doxygen documentation HTML style only. They do
not apply or affect libinput itself.

Apache: https://github.com/Velron/doxygen-bootstrapped/
MIT: https://bootswatch.com/paper/bootstrap.css

Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The MIT License (MIT)

Copyright (c) 2011-2015 Twitter, Inc

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.388 x-sys 0.0.0-20220307203707-22a9840ba4d7

1.388.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer

in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.389 python-requests 2.23.0

1.389.1 Available under license :

Copyright 2019 Kenneth Reitz

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.390 ryanuber-go-glob 1.0.0

1.390.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Ryan Uber

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.391 json-iterator-go 1.1.11

1.391.1 Available under license :

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.392 psmisc 22.21

1.392.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third

parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.393 flexnet-publisher 10.1.3

1.393.1 Available under license :

```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301477.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
ref: refs/remotes/origin/skywalker_com
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c
6317bf6b870ced4150254b3da3f7958fa95f2ae2
6ab876a0dbcfa2c947e799e27a35dca800739608  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15301477
8896cdb01181e19772ad14a9d0de2b3f28f2682b  branch 'a1_5_id_integration' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8f10896fc0334880b5087cc6088e9c4f8a6a73d3  branch 'a521_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
d487f33eb2102acbc640c9ea6ec7a40882e1f8b6  branch 'ace_simplified_cli_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b093e65c87a2abc5bfe2ee4ad9e229908e0e55f8  branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-
15301477
b07c47ccaea686961b4ee57677c4bebbbd811f2c  branch 'adelaide_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
e954cf302359cd4acefbce3b84b9990158199dfd  branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
f326f813574c3da49ae8a3f89a8446eb4b3d2486  branch 'airstrike_platform_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2195b323eecc3f196ada64c240ef84684b32fea7  branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-
15301477
```

0050870dbdd949304bcfe0268531912513734997 branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301477
9c65861c4ab7e1efcb416bb9c8f7406959477dd4 branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301477
bb5afdef70040834fc178bf3fcb593c69515f8f1 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f602bdead9c2259d52eeffc2593b15450b61792 branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f1547327e104204615fe43d0348ab8148479e2d branch 'antares' of https://dscm.esl.cisco.com/git/153/comp-15301477
7877f233e67d7e24a8cb53a828e333d07570dbc2 branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebd7214969808a700706329cf738f0646b9ee58 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
08219554cd97039da69a55d32bd809892637f7fb branch 'aptos' of https://dscm.esl.cisco.com/git/153/comp-15301477
b7097d6d2a3815697fc137cf7ca60684da30fd6f branch 'aptos_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
1bfa22e6dea60ae800d649fdc4b2ff15c7f77bff branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5260a21f872278adc1dbed901a8d6a49ae1486f branch 'ashfield_1121' of https://dscm.esl.cisco.com/git/153/comp-15301477
34433fb6e371ec70daf3d1a481e341ce8e9e97d0 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e4c7a6b949ac6407a189139a6d41245476210ce3 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f4a38d53f8d849e5b85b0f01523f2ad6c4a2aa0 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c46be377d07dd19571eeaef6c3b1e83aca81e57 branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f333b2d14aa47ab8834341ae0dfba672b36265cd branch 'av1_upgrade' of https://dscm.esl.cisco.com/git/153/comp-15301477
dd27fd0974585a29e690a2ba3b5bd57a3f4944d8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301477
319ea1611c7565dedb2677935258612b7aaca0a2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e4b5bff58108a87942972d265dfaf9e33525ebb branch 'avalon_nx_rel_8_1_0_107_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
931c705241e06332558d9afdb68be442e791030c branch 'avalon_nx_rel_8_1_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1245ed313765b02b842e7592109c9cd7cfcac28 branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6bef7cfac35eb904ef271b68c5e5fa8e84a1c7c branch 'avalon_nx_rel_8_1_1b_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
4f516679c885b043936c61c4eff68859e073a79e branch 'avalon_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4783ccc0899913b8e22785e1d1f1b0e57ef0aa00 branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f96018f84915cb2bc69599ea67b9bf57ddd0f797 branch 'baberuth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd6204ed2530355dee80e2258e8daeb3f2b474c6 branch 'bahamas' of https://dscm.esl.cisco.com/git/153/comp-15301477

44908fc63ad2ffbd72de27340b787e22577dabb0 branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2eb57e1c19ea166a9b6ccec70086db61958a95 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
cf9d15d56719f3e6f6a704ef023066bdb8abec01 branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0652ee0b92aac9b3c61402df925a2d98e67a8f99 branch 'balboa_dy' of https://dscm.esl.cisco.com/git/153/comp-15301477
44e9f04f55572c9925ba78e36ba600d4f59b3c9d branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee937fa47c1c92ac40c1d3a490745970cebd3d99 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da4163e95ce3bcc0614abc50b8609b38bafec97 branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301477
bedf8d1ed45b1debfe88c6627e8b39d72533d95a branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b48812dfe7c85a00b87b4b0e87d99dea6592e913 branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0241151508dcebfde7d326f2cb859bf1dfb71db branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a3b55b73c1fc7ac3d93a365892ef7d118a7c7e62 branch 'beverlyhills_rel_8_2_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
7e99a907e75868497e15e1b06cf31c5954b0fcb8 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
682ff19533052c65140d29101270b9372bdb5069 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8b424126d907c6ba095399c48ac88245225626d2 branch 'bili_box' of https://dscm.esl.cisco.com/git/153/comp-15301477
2513bcf73a00f514997a9ae834494420c792f6f4 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301477
9486ac87454e736a90e8c2b14cbea3b6b0648dc8 branch 'bl_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
d947fe20f95cb1ab4f9205b96f7cebe0c292846e branch 'blackbird' of https://dscm.esl.cisco.com/git/153/comp-15301477
92ef0497085830ac40914ac1829a9a3848c3d7ef branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301477
7dbdc630ef5412eda3f1beff5d039f6915b56061 branch 'bondi_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1673d738ad7c8762bd07a84ba88375d82696fb66 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d19c1d3d016f6ec9185dddcf6454c028b74bc2d branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
936af1595c05c3c75ae9afe763278fa4afa8dc88 branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b01af2f5f480e66672ec37ad6a7614273f6eec0 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301477
52791a4cf4c8cd78154c86aafef596b5fbd757f4 branch 'bronte_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ce23806ad6d7cf9e0fba73fbdbda8993c23da67 branch 'bronte_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0d826fdb123d99d5441f1f639945edd56c477719 branch 'bronte_fretta_sw' of

https://dscm.esl.cisco.com/git/153/comp-15301477
2b6ad039ea2c3c632da94b362e7fbedeb44a21ff branch 'bronte_lacdev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e64cf6b58d38e99fc4dc37515e5d104183782347 branch 'bronteplus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f334748e52041b5604429bd6102d8e2acb7e9868 branch 'bronteplus_rs' of https://dscm.esl.cisco.com/git/153/comp-15301477
7d78dc572033fb20396048dfe87586938f9b0fb0 branch 'bronteplus_sh' of https://dscm.esl.cisco.com/git/153/comp-15301477
30014ead2cd993df578ce9600066ff5a6b226d0f branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4cd9d780d09769d465df3d24352078f5ce38442c branch 'ca_feature' of https://dscm.esl.cisco.com/git/153/comp-15301477
8149d77ad5179c3426089b84bb5f8400664310d1 branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301477
48b9c5f31e56d268430576a782704ec74987c15f branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301477
083cdacde685c9a9af51d28f38bb8127a5236f90 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc42fafb07c54e8789df772dd209e2a6638850ea branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a30fe73262ed457580436125128add5d4843a8d branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e03fa4391b544cdcdedf44c3e89e186a06fd23d branch 'camden_3k' of https://dscm.esl.cisco.com/git/153/comp-15301477
7c4d41b229731b516a83be9eb71f35229df750f5 branch 'camden_475_eft' of https://dscm.esl.cisco.com/git/153/comp-15301477
b594946182ff7c88b152ea6066bf242634b051b2 branch 'camden_nxosv' of https://dscm.esl.cisco.com/git/153/comp-15301477
b2d9093265e263f42ca478d455c345abf9c10714 branch 'camden_nxosv_proto' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e81abd60f2e223153faba2c5e8a71bd8b40b1a7 branch 'capitola_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
eb57dfe995f0b0b5e8721b79c7d20bb3cb530f2f branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f46f59e50d734dfd7a2b8043a2689a062303ff8 branch 'cayman' of https://dscm.esl.cisco.com/git/153/comp-15301477
d341d6a53e7a65eb50a708e77f3dc0d2e24b1da0 branch 'cayman_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
aa8669c3ca046840bab34a1f9bf3a9135b961145 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301477
def92020681f75a04a6235187fb04a3dcd66f976 branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebba57495e9f6f3b5aa424540aa81e8f7ff1679 branch 'clapton' of https://dscm.esl.cisco.com/git/153/comp-15301477
65b5c74215155dce815fb034afe7f2df8c3e00cd branch 'clapton_kernel' of https://dscm.esl.cisco.com/git/153/comp-15301477
3fb6a307d774d578a71cf955eaeeb2df37288243 branch 'collapse_proj_628_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477

dcd5023ad53ab416bb20316229c859624a7c8cb0 branch 'conv_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
1512d9c01d974e8ccd2a7883228bb10eb6bb0d38 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
492e7bd792b9881d77a7e0f3423f81d34e8cf7f7 branch 'cozumel1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
1a01a34ce6254a8e8d4b0d5b2aadca0968241b6b branch 'cppa_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
e87131b03077dffb4d122583b4d71565388e60d6 branch 'cristal' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29ca5d24378bb817330a87856c5aacc0c21a7a7 branch 'croxley_a' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4a60e403fbb837dc08f5a286ad263603c7d6d66 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
96e95d78c660aa8433cb6efa0816d509e4cfd7b4 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
244769f484b6188f90bb55859aea9c5e7bef8e43 branch 'cupertino_rel_8_3_0_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
455c6d386ec98c1f6171e644ff9268baaffb1ce5 branch 'cupertino_rel_8_3_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
802c6b2b6057ed647bf60a3121dba66c93bbd8db branch 'cupertino_rel_8_3_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
888e36ae99ab4e2c879a82093e0c0a02381e3b58 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e273530b0c54f1ff4abda456fc110e18c017325 branch 'd_plus-cpa-dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2fbf2741f6c66d25eee87631f9a41d6b6a512799 branch 'd_plus_pb' of https://dscm.esl.cisco.com/git/153/comp-15301477
91f2f0d91880b752feb22d0d3dc377ea6dfbf2e9 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301477
250b0e199422b281c7b36b2adc4c3145554ba3e5 branch 'daox_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc37f4b399649a13d544235a53caf541275eb88c branch 'dartford' of https://dscm.esl.cisco.com/git/153/comp-15301477
6317bf6b870ced4150254b3da3f7958fa95f2ae2 branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
31900f47b53bc6e3a199614cc4e24acb4752be11 branch 'davis_rel_8_4_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
091a35db5acc19da5eb9ff5082e454f6cc1ef377 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
f64736504086ca3f80cdf9785f62cd58bba6e89a branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca12745ccc11d097c48896cdbcff24a425570a40 branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301477
37c57fb69a20cfad8fa56bb0b47227df88ce4d03 branch 'dce_mcast' of https://dscm.esl.cisco.com/git/153/comp-15301477
0be8146a0780dc9a77609613bcfd6a7ea6fbad64 branch 'debden' of https://dscm.esl.cisco.com/git/153/comp-15301477
08cfb9cb2f32b9b1efea5be38b6532db4f024d0e branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b27bb1772d4ade46ade55f43701d1ad06983b46 branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301477

321a8bc5c100bab224bd4c44e8d3860dee542051 branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301477
83cdbb4459116440a7629636186a0ec13dd20ddf branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
2f454a923bc2afcb6688310f67b46999f33d1572 branch 'dp_plus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a7f36d2e86389ace6c072da6fd81d5d5fd5808b6 branch 'dry_dummy_run_s14' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee11811c000ddaa9c32c57c908ee3239cc74e79c branch 'dry_dummy_run_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dba2bfba506bf23371793d8abd871586156b3583 branch 'dry_dummy_run_s19_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
1847ca163549779a1046faccc8fa7ceaadd472b1 branch 'dry_run101' of https://dscm.esl.cisco.com/git/153/comp-15301477
197e77e09c17a96a23bebbdec42bb0e652b77ebe branch 'dry_run101_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad7a1c1840c57106c1999433f6fac473e95c630c branch 'dry_run101_test3' of https://dscm.esl.cisco.com/git/153/comp-15301477
5c1eb42ef539578e70ad9465882e68d755e2f187 branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301477
39d3b28d37d62984f2139dbd49fce293a03ab2eb branch 'dublin_bel' of https://dscm.esl.cisco.com/git/153/comp-15301477
2493d29ff1c6da0016354916651e3d56eb55b54c branch 'dublin_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d2f0aa0e8b436bb4d7f2b9099e6a0f3e17cb78c branch 'dublin_eft_two' of https://dscm.esl.cisco.com/git/153/comp-15301477
13024b700d4b9de3c67c0f7c566e834d0cf9c458 branch 'dublin_fcoe_npv' of https://dscm.esl.cisco.com/git/153/comp-15301477
d33a8a678e8f8aa3c346a11b9444c10ff2b7dc0c branch 'dublin_moddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a88f40d187d52aeb3352391303a990c91091b27 branch 'dublin_tahmod' of https://dscm.esl.cisco.com/git/153/comp-15301477
812c26935deb291bc1fc49252ca95c899d60184f branch 'dummy_debug_run' of https://dscm.esl.cisco.com/git/153/comp-15301477
ceb5a6aa07584ca7346ce4f9a1de98b4d50d904e branch 'dummy_debug_sample_run2' of https://dscm.esl.cisco.com/git/153/comp-15301477
20d1b7ec46874c7a8679077c6eb134af350a7383 branch 'e_bigsky' of https://dscm.esl.cisco.com/git/153/comp-15301477
373397e3e3a3492185c02c530d365dc04064922d branch 'e_campus' of https://dscm.esl.cisco.com/git/153/comp-15301477
5cf97df7d04f00733ad525dbd7b34e56216cbebb branch 'e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
359aafb59d62d204d169743211c3a241c9bf3439 branch 'e_dev_neokrnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
c79d7cd3ec309d99febaa8e60af2f839a81a59ed branch 'e_homewood' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc3c49a4ec5539b86d021e28107556238fa6ea57 branch 'e_wbox' of https://dscm.esl.cisco.com/git/153/comp-15301477
9cc45d101d9191f83950f3dde641185410170a83 branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301477

cdb4eb978124e9804b2003f63f1afbc515d45a91 branch 'eagle_h_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fd58b451c5921c8ee09d3bd689fcb3d08dbd290 branch 'eagle_h_patchb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0a5daa4b0c9a8f0e1d22c056322e5aa58848dcb branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee7019e331097c65b95e1b88694047fae7e606d6 branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0830228fcab27fc7ddf94b5d51732de6d68f6c6a branch 'eden' of https://dscm.esl.cisco.com/git/153/comp-15301477
c7f45e656cee5cf37aea8eefba84b1b38264428b branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301477
50a63baedc898c0c0470d61771dbef8ad4a9369b branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301477
88c65e74039c589fb417f4bd4dd5eb351614b4b9 branch 'eden_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
2819d2059e4d07a01cd2a267c9ee30bf0c7738e8 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301477
dce63c3055122ec4e9ebfcb796738c8790a7ccaf branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301477
e84ebc53d1129ec7e946069c314bd23e1311ea77 branch 'eplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
83b3420946e69958b2698311395f3890b062f9c8 branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301477
6e1798e341be275d6f26a29d051cfb8df7ebf3ed branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f829061038195609e339b510535a0d1aab766a25 branch 'espada' of https://dscm.esl.cisco.com/git/153/comp-15301477
582e7f59d7607c8202a54cbb21a4e4547bb867c9 branch 'espada_avs9' of https://dscm.esl.cisco.com/git/153/comp-15301477
8c5551f312a635d0b7f0c00f2300f2700feabb86 branch 'espada_dot1x' of https://dscm.esl.cisco.com/git/153/comp-15301477
15c731852c6effcd445c666f3db0da2446073242 branch 'evergreen' of https://dscm.esl.cisco.com/git/153/comp-15301477
7da351f0db7c7be5a116c1e201cf10d68c9f2864 branch 'f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc6d5750afd33c9303bbb61c48497d529e5cca3c branch 'f3_mpls_dev_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b24cafef668d82a070738ca0e91926ea90c2a04 branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301477
b3aad77e7234721bc26d78029db97c93b41fe02b branch 'f4_bsf' of https://dscm.esl.cisco.com/git/153/comp-15301477
96b7ea5ea92cc4620770390322426edaae141dcb branch 'f4_bsf2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9769232bf42a5ac45afdac661931ac8fe7758e0f branch 'f64_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
5eeeb452d0e4ff0329a914be100f4804434a566b branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
5acc9f8c5bfcd8902f87745205be2ea2358e89be branch 'f_bugfix_0812' of https://dscm.esl.cisco.com/git/153/comp-15301477

4ff90340e1ad3b9c116532b98584d255ede54bf0 branch 'fc_npv_g' of https://dscm.esl.cisco.com/git/153/comp-15301477
f163facee3d219e4afbc9cef79d7bc247f650f89 branch 'fchw' of https://dscm.esl.cisco.com/git/153/comp-15301477
e50c01dd591ae14085066ea2320a159d1cbf3d5d branch 'fcoe_cu' of https://dscm.esl.cisco.com/git/153/comp-15301477
0ad1471e110acdf74d92496f94b32773f504f257 branch 'fcoe_f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
592be4d71c85298fa2fd73b02fd6ae2a75aaf0ac branch 'fcoe_f3_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfe8900dd0453c7118b2c62b558d0d576ba406 branch 'fcoe_f3_g220' of https://dscm.esl.cisco.com/git/153/comp-15301477
eacca487ff75a64bf0dc3c29333858a93daff3d2 branch 'fcoe_f3_g259' of https://dscm.esl.cisco.com/git/153/comp-15301477
3a901d4e5ee5f261cc769f6db777d21aaa140aff branch 'fcoe_f3_g308' of https://dscm.esl.cisco.com/git/153/comp-15301477
31f5e604f3baf66441996e42a0a4b258475f9739 branch 'fcoe_f3_gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a60692606704584cb3e213d61e4d62a1bb993c5 branch 'fcoe_f3_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
58d55681a8fd13c610bae2fef7ea42ca67d78fbc branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
448516b2323dbe5212516a3f6f5ada03678f0a01 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301477
a64eb188ecb3eb4474839fe065effccf924d9832 branch 'fiji_ecats' of https://dscm.esl.cisco.com/git/153/comp-15301477
c05035668f0bf204bd208dc8ef58b927e68134ef branch 'fijiplus_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca4af809986f4d522ce730b6efc43f1221f67382 branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2cd15e284ad27c94430efbcdecd64830ed5a712 branch 'freeport' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b60ffd1ade0c40ac6c6ae11f7c045e1c82dc2c2 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b4293dcfdf2bd6fefee8794cf5544e7097d93ea branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301477
9ebda189f929af09f720a0e13d4f2b84e6365a48 branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301477
1df9b2ac71c21a734bd61b1470326c3314176ee3 branch 'fretta4' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e438f4787a1c4124b24c40bbd2d5be607d6170 branch 'fretta4_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6965b16a3ea5a4470685d8147cc4e03a9088c5c3 branch 'fretta_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
926730a0dd7d73d2507d6a47c976d07c5aaaca03 branch 'fretta_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
85f6688bf135a8e6b87ad999d1e629913a26a493 branch 'fretta_sdk_656' of https://dscm.esl.cisco.com/git/153/comp-15301477
444b9d5d838dca1c0320e2c71a4949422605f595 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
77aecd7a0251f9219210aa5a2db2d0e4683cfab7 branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477

14d5740aca21d8b90b038fda7d8dafd5ead68c45 branch 'ft-mr6' of https://dscm.esl.cisco.com/git/153/comp-15301477
379bc0c0f01484ed5cf8a36e12c2ce882bd7aeaf branch 'ft-ts96' of https://dscm.esl.cisco.com/git/153/comp-15301477
a70ed528aab0644718a37322566e812ced4b1d6c branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
460d7af1f6eef185717d63cabd105556079de6cb branch 'g75_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8edac59828f6058e2745fcc009e2b407761d919 branch 'g_bluesky' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6eed61907c7415645a3b090de2fad1bde87863c branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e99c10957c0a9b8f629911e9347df32d2f76af0 branch 'g_heavenly' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b21dbbab48dba86b427c7c3634205507f63e0eb branch 'g_tetley' of https://dscm.esl.cisco.com/git/153/comp-15301477
85c060ca61a8673c2ebcc478d7d27c5af4694656 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfa42c26f708fe4e1d77aa9cfa47e58f71d8a2f3 branch 'gbr_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
b869e978c53e899442ca3de35e6b5ca572327284 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b88a78f40a0045b681077c5bf4bc9bbfbb964483 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
00a48b849cd91c9e363423ae610ffdde10061f75 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301477
1992bf53e31f38a5944fa85914c86657dbad5ed7 branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301477
d72d0ed54a6a4159644b50f88c936a58a49ff37e branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
63776d8d6e4a8433e6cbf077000fbbd04960e5bf branch 'goa_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
486bc0e73fc021f322c6863bfee58478dbfbd69b branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301477
85e25db857d1a3de46cbb6b6a2ce5bd006c8efbc branch 'goldcoast_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b911ffbb5b3f2de27200bd4e42403b2310e60f4 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301477
056576d3069e27aef14f808c2cc67413c78b93d6 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd76607a1d1c34c26bdd97c0577ec721c653514e branch 'gplus_dev_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
a459c93d19fbe842e7bc26cb7fb05a126741e077 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301477
27f598552c7d3645575cd9303b3c71fd477ef9c2 branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301477
ccd4e4f8dfe64241aee3222dd3a273abfc79b6d4 branch 'h_ali51a' of https://dscm.esl.cisco.com/git/153/comp-15301477
89ae28b2a2ec7f2c2d38c39428e9ea7f66ff0a5c branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15301477
c3da9d643002251226ecb9ff51aec487cca6a3e6 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301477

e5b1b9766cf1a16723e59406eda743ffaf6188dd branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d25e87a82ee005ea231b4594ff0b43c954913903 branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301477
4fb7b34e809d44f08be8132bf925e35c214b94b2 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
667689585b26cae42c6488b414173a11bf12f334 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15301477
6624578ec620e1074ae3e6aab4727f961eb43411 branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
5ff23492dcf63abe251b6cb40d1611fdc244ea6a branch 'h_sundown2' of https://dscm.esl.cisco.com/git/153/comp-15301477
2952c50121274f7ef94abc7dcb52ad4c4bf483d7 branch 'h_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e206e3e12ebf3d574d546b7f17b279c306be5 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
42eb5ab355b8f0e9ba780cd2c41c37d4ef45c5c3 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301477
02881582bd48054a4a14ba5af179b8401dbb84df branch 'harboard' of https://dscm.esl.cisco.com/git/153/comp-15301477
4a82c94fb259d95dec40870571c821e3e94854d3 branch 'harbord' of https://dscm.esl.cisco.com/git/153/comp-15301477
2afe719277571e3542aa210705b84a88f15a5408 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1b744ca1e6d4e7047378edcd66c96d4342d0e12 branch 'hf_271' of https://dscm.esl.cisco.com/git/153/comp-15301477
6539033ae19c6f1fd1fb7e94119e69ac6479cb7d branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
955365c1167c2e2aa14f3333881f6191d8987068 branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce04ca1c10dc44e3fe7a56c64f8de16b2d606d64 branch 'hplus_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
46d23d0a44ecfd99ea2765829bf77a38f11e9ec9 branch 'hsk_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
8ccb53a1b2c9e60abe21f95fe5f522aa9f7f814e branch 'hudson_centos' of https://dscm.esl.cisco.com/git/153/comp-15301477
685f4003cb78bc4dea35f2c31fc4e0eb41de6cab branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15301477
650087b9ceb7258de218455e937c34fde0cf6cb6 branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301477
ecb77e4154f235c43384da0f3bd534ee4af907ab branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
b61969646a1b5a50c3189b49242254d1973624a8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301477
0fe6311b01d5c8a58af19b39f5c956d0d70a0196 branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
34edd2f47840964fe37d7f06cc818467c3744175 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f3b5ce1047ba6b5f4f350a1f2bb64a602609e4 branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301477
283f58b2f2b725a0dac13cf5203b81c4eff405b7 branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f69b42d2d64f380524e3548145063b6ae45f80 branch 'iluka_ci' of https://dscm.esl.cisco.com/git/153/comp-

15301477
c83d24083b98934424707bc883f411663e2c22ec branch 'iluka_titanium' of https://dscm.esl.cisco.com/git/153/comp-15301477
83c0459bd88e2738fee81205d93c6d0bcbb218c7 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2fc8cc3c3181b5e3d64c5b675b44395a401b29b branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301477
25e76710a3a9cb7a2ff0b608eb2bebe21885028c branch 'insieme_xml_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2e1baaa641643d85d452c68ca737cd9a3665b71 branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
6497c9c09614ab7a036f201910c884cb5470dd82 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d980a68e928a588593eea7fa61dea86fed59928 branch 'iplus_dev_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
d9d2e5c64c21baf61f4c4375087ca3c946cad40d branch 'iplus_gnmi' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f07d0e24b982383ee1360bba47495a7dda3539f branch 'ironcity' of https://dscm.esl.cisco.com/git/153/comp-15301477
61790a1ef93bb2127ec921069fcb7513c124107b branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301477
79d12264e2966704b0c607aac94ab2bd32a014b0 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fba907651797392f78cb65561d039cf3dbbae779 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
db58bfddbda8f724b1f408759abae98008aed270 branch 'janjuc' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d5aaef8504df316ba8d328dd4f98a4953509976 branch 'kempton_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
fb95bffa9c2886f9efa0c9fea007809089c1232c branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
d3d78c2cf21c245c0752efe3a5ddc8b1e020006a branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301477
455ed4aa29373e9d41ce9ce87a40084acb554941 branch 'kkm_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
6efb68899304a4bdcdafe5399fbb69b903c2eb66 branch 'km-hsk' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29f4ba5272c99933beebced07a6e236721bde40 branch 'km-sky2' of https://dscm.esl.cisco.com/git/153/comp-15301477
081793a46ac214e1fe7988f33ce95761c96b1334 branch 'km-sky2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b52d63a98833db4f3e412a7ccf7fc1c564d97ef branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f3124cb8ad5c37156928fcb5e745cf0d7eeb8aed branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301477
2bf830221352afff861443add0107762c812e82d branch 'kokomo_47_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
0111672beb550ac65cf01d451b2b8bd964f2dd0b branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301477

418ba0d80f04c1aab14304368e43444f4d78748b branch 'kumo10_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
959dfeac705b9f831bf98c0432ece52a90465555 branch 'kumo_112' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce826e32277d74185e2cebdeec5f2e0fab8e7e55 branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-15301477
89e27c89df5b13a2e2927059c1cd3654a5cd684e branch 'lac_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a27a401800232d9d173f8679d33ceafd4055d76a branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301477
d8db8ac50ace0aa1f976d66dd94fff45d64c9717 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e93223df645e7bca172ccf88c0daf3c2bfb8d61 branch 'mercury_snmp_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f54c42eb4eec97ff51552b4a599a9c2617121baa branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301477
79f4929978a9308d7164ce0389ff2932b94a2051 branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c81bdf8034d137e4520cba1202e5a3ae6d92bd34 branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-15301477
eff64a416ce997f4a7447ce5aeb299fe85ed4cc8 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0e72adf18f6f18396fa12033d9d2713c8d1e7589 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301477
45518da1bcab77681fab915974ee19b0ea381bf9 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e345068e261d4cd9a98635b3b73aed854ba3ea branch 'mve1' of https://dscm.esl.cisco.com/git/153/comp-15301477
16421d9cfdb5f711e9d4ff0218721a348e7834b2 branch 'n1kv_l3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cef149d7a300440dca0bb266ec6be6baa7967635 branch 'n3k_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa133651025a3f5e1e1dbc51715c63f2819c6ecc branch 'n3kturing' of https://dscm.esl.cisco.com/git/153/comp-15301477
82d51f60e9edf6cb75b6739be5d6a8cfcefada7c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301477
87969c6c7c9cd51a0ac9a25272d967096897285a branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301477
d008589ef6c1f11997436f4a27498565aa5495b9 branch 'n7k_dme_stuff' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d772b428e496300b2539061c0f7cc929611c14f branch 'n7k_spine' of https://dscm.esl.cisco.com/git/153/comp-15301477
31226d2ee54802be57f8aed69c1e52e3c5490e5a branch 'n9k_redmond_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
42f13b8672d5925cc80131d0c4d8efa9395bf684 branch 'n9kv_eor' of https://dscm.esl.cisco.com/git/153/comp-15301477
0bac5487b98151822592bf0dab9e9e58c19ff652 branch 'nep_cr' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc30a20103e68b3873431b3496573d9b9559bede branch 'nexus1010' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfd9b63bf4b10dcbcc3b579e8728bc38b81af278 branch 'ns' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d4c097446e7629e214e7f37ae33c11fb71f7864 branch 'nxos_4k' of https://dscm.esl.cisco.com/git/153/comp-

15301477
96d94f688ebc3e5c109705b733d84ab0d4d11e20 branch 'nxos_cflow' of https://dscm.esl.cisco.com/git/153/comp-15301477
0734152ccdb73ace98eecc7fcf3833f495717b19 branch 'nxos_fb' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fdff4116ed523a921d2162462c09b7a5dfb03f8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301477
00baaf5a77d660e2b6f83783b0b4b76394fb873a branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301477
79b43d42a5a26a242d0841ece62237183c9dbcf4 branch 'nxos_wb' of https://dscm.esl.cisco.com/git/153/comp-15301477
1d96236a4824a9ae35683d85f7d76a08888a86e2 branch 'oilstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
28e0caf31ee4470d4f7e6e068b314eedca7cc691 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301477
fca798ce50ddee8e42058465cbdfb5a9293ade14 branch 'oregon_1_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
b535febff1dfd693d4cbcfca2c1071210bac521f branch 'ph3_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
539a2d77d9fcd711b09881c1649f5b5b6a1c2896 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea75a742405d744340d1eb984fff4a144262a339 branch 'ph3_dtho1' of https://dscm.esl.cisco.com/git/153/comp-15301477
72e4dda183523dadd982438668d2ac32d800d2a0 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
7ce8e7bff7ec288313b5cae0782c396ffc11148f branch 'pi71-india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8e060186c69405052b854c4af0f4480a92c6f50 branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301477
655576290d3388f82779e5663ef9b2ef3ecaf36c branch 'pokemon' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b2261af5674f94695c6f225adc1b32c10db3128 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301477
8cd2f20aeb11eb0bdfa35664e7b6763204ac963e branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2de67ba6ed9f924a937ac83b26ff7d144fb7a5e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301477
4d6ce365c6100550d03e09179119aedf6004ea7d branch 'rackspace_issu' of https://dscm.esl.cisco.com/git/153/comp-15301477
effbcdb8ca3b813ffaa04b2d6daec0bf11358c3d branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f5d0ae7493394a92e8ebaed631175dc85137a67 branch 'rel_3_0_0_a1_4_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f380c22ae0e741d9c21c73e1ee355e1c4c55e6d5 branch 'rel_3_0_0_a1_5a-development' of https://dscm.esl.cisco.com/git/153/comp-15301477
e371c70ba25811a2483688e6ddf0064dc8111ea0 branch 'rel_3_0_0_a1_6.2-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8bb725bedaa9b06d907536ea97f483358f594e88 branch 'rel_3_0_0_a1_6.3-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
3d33ffeff83a6a3646b36eaf3682e30cf5ef3d95 branch 'rel_3_1_1_1165966469' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2214584f02bc6adcf61fe923066b1af486138b branch 'rel_3_2_1_1188831908' of

https://dscm.esl.cisco.com/git/153/comp-15301477
8992f2a342721e0c63b43881f4fce73a38705b51 branch 'rel_3_2_1_1188832883' of
https://dscm.esl.cisco.com/git/153/comp-15301477
152019b974e091c0c3556c468c3886180703cd25 branch 'rel_3_2_1_1188878926' of
https://dscm.esl.cisco.com/git/153/comp-15301477
aba6979a1d5c6068fe17676e4c81d886c0905060 branch 'rel_3_4_1_1213862709' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2aad266b5fa84801bf5f1447e7c24343ded231b1 branch 'rel_4_0_0_520_1170208990' of
https://dscm.esl.cisco.com/git/153/comp-15301477
601958bcf5b3d7ec9d76daebaef49ad58b2b9c16 branch 'rel_4_0_0_669_1185503667' of
https://dscm.esl.cisco.com/git/153/comp-15301477
baad050e503716b4d21f7f0ca43bc00a7353d964 branch 'rel_4_0_0_669_1185508973' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd4d20094f42db8fc55da2f5adff2cbfa1dae33d branch 'rel_4_0_0_669_1185509620' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ca8d40815198aa0f41bb0e73e3ce8938259bbe2d branch 'rel_4_0_0_749_1192416586' of
https://dscm.esl.cisco.com/git/153/comp-15301477
46a9d1999d0e49c0ac50460967422f67cd260a8f branch 'rel_4_0_0_754_1192508418' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3dfb055f55c2bb6be962beb6d59cf614cb396a50 branch 'rel_4_0_0_828_1199764468' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6c5cd64e80972c92d1f9b50005563151fc94f09 branch 'rel_4_0_0_879_1204023719' of
https://dscm.esl.cisco.com/git/153/comp-15301477
de1341c2027a03aa5f2138eabfe3ca002a3a8d32 branch 'rel_4_0_0_885_1204026761' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6f310e40db4ac61c5260dc9f6ccd5744dc46d184 branch 'rel_4_0_0_885_1204028067' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5230a241b7852eb42ed1860dbc0eff35b27dc555 branch 'rel_4_0_1_1205146992' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1c38aff3367e27025d23476af1a9922fd91e642c branch 'rel_4_0_3_1216832024' of
https://dscm.esl.cisco.com/git/153/comp-15301477
9d3a7ab148e511acec11f7e10eda4b74523e951a branch 'rel_4_1_0_90_1209800952' of
https://dscm.esl.cisco.com/git/153/comp-15301477
283350b2926ebd5778b92111f85d19aa122cb257 branch 'rel_4_1_1_1220338475' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5868f2437924f396d6af9acae10f2efc96e890ff branch 'rel_4_1_2_1228304625' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4deac4caab3f0e067586b41f56a30bff08b80fc2 branch 'rel_4_1_3a_1235365905' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3c4d5021706d3ee9d451b56c979bed7b5b592a16 branch 'rel_4_2_0_239_1244796494' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c09a0ac81a2235458e76f08cab1060bded441a8b branch 'rel_4_2_0_239v_1244798615' of
https://dscm.esl.cisco.com/git/153/comp-15301477
91bc2251de995d4553b329e27cefaec9b87c68c8 branch 'rel_4_2_0_246_1244873958' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b93441bed14e7373abe0bd9189f53bc3441c60de branch 'rel_4_2_0_246_1244875310' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61f581d2f29e7620e5d38f554f7b4c705c54734e branch 'rel_4_2_1_1246501284' of

https://dscm.esl.cisco.com/git/153/comp-15301477
d1e8b779bc3558abaf8c9a3c85fef407d782362b branch 'rel_5_0_0_107a_1241521493' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6e80956fc025f37faea2439efcfecd2b0d06a63d branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301477
62f317e0e12ed497f46ff0943467f70d3341c594 branch 'rel_5_0_1_1264407142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
20c8d0e73f53b05c8c20d7476ee99eb5acb79bc8 branch 'rel_5_0_1b_1268628903' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66e8ad9c81be9fd8b16caa2bd0ebc276f412412c branch 'rel_5_0_2_1268889241' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b2dc7fabebcd9001afeb61abd9d0d9fbb55639e8 branch 'rel_5_0_2_1268900747' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a5820d07ee2cf3cead30fbe6d372c29ddda47ad8 branch 'rel_5_1_0_78_1273728062' of
https://dscm.esl.cisco.com/git/153/comp-15301477
911ee18c13f1a0fa376a7389047745b37f3fbb2f branch 'rel_5_2_0_250_1301681919' of
https://dscm.esl.cisco.com/git/153/comp-15301477
682877a8be0edad6b2f1bbfde929570bec050f10 branch 'rel_5_2_0_251_1301295965' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f7b14dcc52f63c427ba8b554a1a0b34e945f29e7 branch 'rel_5_2_0_257_1301300390' of
https://dscm.esl.cisco.com/git/153/comp-15301477
347c7ac95da8eb139e9f9b2d9831f7b5f8fa95d2 branch 'rel_5_2_0_270_1303378525' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4c08add6e69d1b8e71a85c3f36cdfc1df6dc2c9f branch 'rel_5_2_0_904_1304321221' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1c0cf7d205cc93639c31c76413689c214df4eb7 branch 'rel_5_2_0_907_1304482212' of
https://dscm.esl.cisco.com/git/153/comp-15301477
951729152a6265f3911a43870652a857346117c4 branch 'rel_5_2_8a_1365686638' of
https://dscm.esl.cisco.com/git/153/comp-15301477
262b82bdf979931deab96127a5e940b41d3edcf6 branch 'rel_6_0_0_11_1313537935' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5c2b616ccc6eddd6cf6452d25c070617e47f9d9d branch 'rel_6_0_0_30_1313796682' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d98f10bc7822512441bff2ed846f98ca3eac0ba2 branch 'rel_6_1_0_220zonda_1330655142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21664a6105748cd9e0e320037292c082f53a52b3 branch 'rel_6_1_0_233_1332934317' of
https://dscm.esl.cisco.com/git/153/comp-15301477
23a40875ee75dd0d1fdb92dc9e241df654304261 branch 'rel_6_1_0_293rouen_1338272421' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8034e23eb9e2030ba58e9eda8a04ceee235ccf86 branch 'rel_6_1_0_4_1314178785' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61838156c498fa72fb5350e8f981c4ccd4355425 branch 'rel_6_2_0_166_1341715081' of
https://dscm.esl.cisco.com/git/153/comp-15301477
faca3a19825b1e094212c35f72f96b11de7c1656 branch 'rel_6_2_0_22_1323474416' of
https://dscm.esl.cisco.com/git/153/comp-15301477
86f5848d0044071d9724e66d88e4e92d7883086b branch 'rel_6_2_0_233_1350283358' of
https://dscm.esl.cisco.com/git/153/comp-15301477
00c44e69b30908a73cacc22f6b277939ed5cf2d4 branch 'rel_6_2_0_284_1355750076' of

https://dscm.esl.cisco.com/git/153/comp-15301477
37e3c349032e723d930f00a9c40562cf2227e1ab branch 'rel_6_2_0_294_1355752126' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1668d137bbe412aa0fedc5bd9546e08cf86303f6 branch 'rel_6_2_0_302_1355755477' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2d624f4fd2df8f5a532758bd6593ae4e96bcc8b1 branch 'rel_6_2_0_42_1323892974' of
https://dscm.esl.cisco.com/git/153/comp-15301477
625ec745f5b13dfef80907b9a1e99c3a4f5d609b branch 'rel_6_2_0_47_1324073744' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66a0d879c71de1848118de9e341d5deb83818adb branch 'rel_6_2_0_5x_1319447985' of
https://dscm.esl.cisco.com/git/153/comp-15301477
079fed2a107c0e58789f36e18f86637a1168c33d branch 'rel_6_2_10_1411029857' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e2d6fbfcffe9d62c7697e2a0f8af68792cbad105 branch 'rel_6_2_13_1432205888' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b75e0e977504401cae027d22bfdfb9c29a6670d1 branch 'rel_6_2_1_1358454650' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6ffd096b6e045a75d8226fbecb61f202bafebc6 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad6ebdbdd32757553bb398717ecdd93b72702108 branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd97ebd363c48f64c6c36ec73e07712a8bd5a57a branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c792866394749a86a26ee9e4f5bb00173728b517 branch 'rel_6_2_1x_1360614323' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0f1652e4b7833067cd60bac40605d3dda2644a72 branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301477
876eda71d428411b0b9b94b12e6c8eea44570a79 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e5c5394472e8b8dd27799065f2f3ce2f4e19d928 branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8897493500215dd7e4b872936b99bf712439cf64 branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6af42341f1d1291ad6614ce8bc8bd63f14379da5 branch 'rel_6_2_25_1537789720' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cbbe757e8340d3ff727fbe6c21f8a09c60430111 branch 'rel_6_2_25_1537804439' of
https://dscm.esl.cisco.com/git/153/comp-15301477
df22adc52aabb8f0341080d2b299673e05120f30 branch 'rel_6_2_25_1537806235' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6a8549154254bc3d4321852ebf241fe665e903d8 branch 'rel_6_2_25_1537853393' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f9babd65905f91aa2eff13630bf9bfaf6a29dfcc branch 'rel_6_2_25_1537857082' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e07cb5e80aedc545bdb1f3e09186803a2fb590c2 branch 'rel_6_2_25_1537863229' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0341694426c29e05eee41e423142068b2226d76f branch 'rel_6_2_25_1537947258' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1dca72e3c96c8bf2a1ae81ef502273d6fdf3ada9 branch 'rel_6_2_25_1537959757' of

https://dscm.esl.cisco.com/git/153/comp-15301477
7eaa26a82647978ad6e3d1b052a9b9444f3c64d5 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301477
28ed57249eda2d2b2fa19a0e925fd5578b42c837 branch 'rel_6_2_2_1374645089' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3ba9f7cc27ae5dcfb02265cc2e3ddfc687b4c789 branch 'rel_6_2_5_1377756497' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2536effaa449a880e07af486aca768bbb8cc7785 branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301477
73316f4e9d25406945145377a0b68f5a88094698 branch 'rel_6_2_6a_1393392717' of
https://dscm.esl.cisco.com/git/153/comp-15301477
956abd8da1dda44fd9043c15a4c20ca9b67c4c07 branch 'rel_6_2_7_1391725316' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a917a53f795f22a03ca0756b86a64ce91f63dd51 branch 'rel_6_2_8_1395337211' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c97f2b258a55a0a1bfa74c0752a82eefbec170fd branch 'rel_7_3_0_d1_0_125_1444754460' of
https://dscm.esl.cisco.com/git/153/comp-15301477
202e6ef655760308ff758edb56db3b1bcafd27cc branch 'rel_7_3_0_d1_0_127_1444932948' of
https://dscm.esl.cisco.com/git/153/comp-15301477
55c370f2cc3610eb743bf566ce6e4eadd65e8d63 branch 'rel_7_3_0_d1_0_24_1435346435' of
https://dscm.esl.cisco.com/git/153/comp-15301477
07932093f7382b205d7ace06e05aef2c64fde157 branch 'rel_7_3_0_d1_1_1453376495' of
https://dscm.esl.cisco.com/git/153/comp-15301477
53d8243f0ce4cc194eda767c06b0b5b3c1543da5 branch 'rel_7_3_0_d1_1_1453378954' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b51650561a6bb094ddcbcc0ef675bff2aa4858de branch 'rel_7_3_0_d1_1c_1468606237' of
https://dscm.esl.cisco.com/git/153/comp-15301477
661352e7716c78df7b218823506d3f48fdd7f02f branch 'rel_7_3_0_dx_0_54_1452151147' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f552d92b9c329165cfe09f6d1d34d48ef1f4575c branch 'rel_7_3_0_dx_0_54_1452155690' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d701575c5fd3bdbc7f21b3242d3b59ef41f87a77 branch 'rel_7_3_0_dx_0_54_1452156693' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fa536aafbd7288145e2c2590d7248ceccb2b332f branch 'rel_7_3_2_d1_1a_1506012041' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21e8f6997268df5c6882ae0e822238aaba31c4ce branch 'rel_7_3_3_d1_1_1533706967' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5663261614a22055cbb715bb95073d89840106a7 branch 'rel_7_3_3_d1_1_1533714860' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fd1d1309e87165fa417aba408c1fadf4567d3b81 branch 'rel_a2_1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b8cfc8f36965a42667b9d0eaa1ed089c85acd6a0 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8d8702357179898f0d6e94a548315df6cfff1679 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
073d16c4fa776bcc259e62c85ef841930ce25ee3 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f6907715da46688acf5de4232a27f66dec28b95e branch 'rel_a3_1_0_throttle' of

https://dscm.esl.cisco.com/git/153/comp-15301477
d887b84949d40aa15022ce22238f81fe3b5b8488 branch 'rel_a3_2_0_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e6ec15527a1ad8b4941cb78aceafd7ed22f03 branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c37ab6aaa136e569ee56be557b75c92aeb16013f branch 'rel_a5_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b156bcd2241d70ec81052b5663d8c6b069017f65 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2bb36077e10042dc9dbe340fe9901a6d8933482e branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc978dc9d08c7c0d5571ce68846e6d09b93d5abd branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4ed23568deaaf816fc0dcf198a32bc6c283b885 branch 'sample_run_test_debug' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a150019c95484639ef216a3bb3ee21b66d61d018 branch 'sbc_argos-trevally' of
https://dscm.esl.cisco.com/git/153/comp-15301477
19c8721d9eb761db3d5c5b6d2defb986f8e05cef branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
0849d53fc969fd39e3853cb77e6b9661b33295a5 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da55daab3e93b051197c62a70e58be426d0de41 branch 'scsi_3_0_0_335' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ba2bfe62c1c564e851614c5e90ad899c2dcb2b13 branch 'seg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea35cfe64bc318790a1578c7393a585d2269e8cb branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301477
882b3ddf80e6cc20223975d540a5f3ce06d5211f branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d78051e11087fa9df130ed16695d58533f5db9d branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301477
c58eacd7b4be9c0bd271f4e61a7f6e078c052d3d branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301477
910e03e448e14c1c927de86ad2ead0e0f4449aaf branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfb089988d1baf1f6fea0e009aa2473cee205b branch 'shadow_2_rel_625' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8e7ecd7d4c9d49ce6c0ca9f186210ad49be0cc57 branch 'shadow_collapse_6210' of
https://dscm.esl.cisco.com/git/153/comp-15301477
758bbe91190f6af9037adc384bae985b4d0c6c8e branch 'shadow_collapse_6213_s33' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4bbd7acd3b807a857879f47947f8fea382638451 branch 'shadow_collapse_628' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c2a27ab33b615ed7c683909bfe1714710ba822be branch 'shadow_collapse_628a' of
https://dscm.esl.cisco.com/git/153/comp-15301477
dc09ae29c6280bd58447a6c8975b24daf46e9744 branch 'shadow_project_627_s40' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4979fdf20120358dd8215ffec66208f738b621f3 branch 'shadow_rel_622' of https://dscm.esl.cisco.com/git/153/comp-15301477
56360246c5e54920bd942f3d734e8487dbb0c5c7 branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301477
5102e54c360518e6424eaabaa83de9f4cc83a742 branch 'sky_fretta_ppb' of https://dscm.esl.cisco.com/git/153/comp-

15301477
cd6f19071b5c6284b8e5c18fae559a23db2c1b8e branch 'sky_fretta_ppb_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
03f1327eb449ac3067f904a33359c9821f988a05 branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ed9d27c056533ea75c0159e94e71c41232d6c2d branch 'skywalker_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
77ee697ca7602fbf6d6606595ef5f11b850322b7 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f15c2fd12e6e400435d10ecb76d70be3428b18e branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a62b8e3e13b7662737fae6408c7450342c3b743b branch 'skywalker_rel_8_3_0_cv_0_4pe_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
53f276932c3cc60321a3ce96a8c6c5f19089a99f branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0b35d80ac5678321816490e1985fc4c08e07651 branch 'skywalker_rel_8_3_0_cv_0_787_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
10a5bca0adaad8e190165f0f4226782809271a5d branch 'skywalker_rel_8_4_0_sk_0_1n_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e1576d658f29c5357d3d8b5879a41973f8fadc31 branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e7f589498d137e2e17b4919259e2765704013ae branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301477
7cb89e672ad2f3d78eec01581ab26d6c1bc30212 branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ed10213582e68a81e74422ac716d0b1c851abac branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b8ef31e0fd8ae86010c6fe5158a3767f45b282b branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301477
2dc2bb79092248708c75d611893e3925a2407aed branch 'smu_n7k_r710_sajjad_test' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd2029a4fb9f4485a7c3986ff5bbb950cb586140 branch 'smu_n7k_r710_temp' of https://dscm.esl.cisco.com/git/153/comp-15301477
839e43b16e95c906f6da38914b9272c00ac7860b branch 'smu_rel_9_2_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cd39088d730d51369ac0a70b0194bf2fbbab8a38 branch 'ssp_r1_0_fcs1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
ddd7156df813bdb2837dbf587d7effb1ec0b5ab8 branch 'ssp_r1_1_4_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
ab4e601d384919d7878d0fa2686be599ea44d086 branch 'ssp_r2_0_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1553d089938c98946348528a6b81da0bfb8ee69f branch 'ssp_r2_1_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
a0117c699069f03226cac9ed055db50a8460d2f6 branch 'ssp_r2_2_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
64ff1922ae968b757b98c4d9c076191a166111ec branch 'ssp_r2_2_2_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
578261edb91fe301440663dbffc2230af80ac5c4 branch 'ssp_r2_3_1_fcs_throttle' of

https://dscm.esl.cisco.com/git/153/comp-15301477
8a9b5b8474dab5e88581caf9d8f61bbf35bf2c28 branch 'ssp_r2_4_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
be857f161c8777baf48b87424ce69e7b59c71732 branch 'ssp_r2_6_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7528615dc6932f1d5c283b1f4027af5a68819f22 branch 'ssp_r2_7_1_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ea3ed08167d81238a0c9405d78774bc640af1d79 branch 'st_demo_lu_pair_p1' of
https://dscm.esl.cisco.com/git/153/comp-15301477
726d24daa62d7774714d1aef9317db1066df5b5b branch 'st_freetown_clone' of
https://dscm.esl.cisco.com/git/153/comp-15301477
090a4612529941b24438fd20f189e71ae89c2761 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301477
74916e62c8dfe3a04365d1335e9859b29cb18d35 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301477
8173d60869a9403a7b291182cb9719dbcdadde95 branch 'sync_skywalker_73_160407_com' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2db19a8fa64a28dd2c4e7c8adac1761e5e3d05db branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301477
1104a5deaf73a8da88387ab7392467ef5cd770f9 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0b0356cf1f2ba483ba7889c9530f1a6a6066534 branch 't2p' of https://dscm.esl.cisco.com/git/153/comp-15301477
ae89bb5cc7e756fa4cbb351d2eefc5daf5886e5d branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc0dac350b3bd3605a97dd49974afca3c0f22c3a branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301477
981af11f8f78b07b58ce611901ec56796e0b1f39 branch 'test_branching_time2' of
https://dscm.esl.cisco.com/git/153/comp-15301477
862f4ce70faf1e478a7012807be599b59203ded5 branch 'th_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
81d6b67965bb0f734e2368909769e38d01240427 branch 'tomahawk_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c44b87ee1e869411cd9f928e4a3a4bd705467969 branch 'trial_proj_1_627_s38' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b0a5ba554223b87697ef42a6812a0eb8e1dc835c branch 'trial_proj_627' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc1f7760edd79758a6cc2323dd183445ad0f315f branch 'trial_run_to_check' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2667ce5f3339bf242a99ee18a370614b7ebd0db2 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301477
adaafe39dd152b5e19e8e7758a84e4735d9abf5c branch 'turing_andromeda' of
https://dscm.esl.cisco.com/git/153/comp-15301477
100bbe87ebd97c27d48197f7219a2009e523b627 branch 'turing_os' of https://dscm.esl.cisco.com/git/153/comp-15301477
aeedbe7c04b4633f8aa6c5fb71dd2cb1704a4068 branch 'turing_th' of https://dscm.esl.cisco.com/git/153/comp-15301477
4dd2b220cbc42a49806f291b9bc324788b0240c4 branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
16022046ce3330fc661e049d6742a6d5c472c961 branch 'ucs_e_dev' of https://dscm.esl.cisco.com/git/153/comp-

15301477
843f805e79bda9f390c34e8ada3608d6b0df39a6 branch 'ucs_fi' of https://dscm.esl.cisco.com/git/153/comp-15301477
3cf60853cba87ba3072f9e32c9296a0652a877b7 branch 'ucs_g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
016e9f5a8283a3968258de5e41344ccb8ef6fb2c branch 'ucs_g_dev_mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa233196dd58e6813d877a4de17153c26a12c63b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f65d0e2d2ba8322d1cbd5af1b3c75ecd66862ec7 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2bf4fdb86de69ce4fa7e83ac2644c86935fa4b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301477
88f373147006214de893045b2e12822ccaa45efb branch 'udb_ucs' of https://dscm.esl.cisco.com/git/153/comp-15301477
65cdad9f98332181db59a774793137f553445e87 branch 'udb_wolf' of https://dscm.esl.cisco.com/git/153/comp-15301477
64366d2d5020526c309cd9bdab60dd47cab6e44b branch 'uluru4' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d16d3285f43c440fd077ceafd9b656620a6f6ac branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
21f6ee2d781ccef354b0a3fdf68bce3e193b6324 branch 'vdc_scale' of https://dscm.esl.cisco.com/git/153/comp-15301477
d928ed741b4a87dd2aec77baeddaa64e718a0cd1 branch 'vdc_scale2' of https://dscm.esl.cisco.com/git/153/comp-15301477
868aa47e2fb4009b1fa2ca159855de52d4c0cd01 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0f09b243ac49f4d8c261fdf6ed86c2f51b6655f branch 'vinci_cx_next_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
adfdb4cd0a6a548dfa3603c7977c9463d592931b branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
1436c704fd59684f4bb2da660fa95b8f774c29a5 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301477
2a900e88127f420b2093a7c199bfa61ceaa6c447 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301477
7f21b9032ed635b4eaefb0cbbaf0d379f622dfac branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
40a2023aec76310ce1a48acd2eaa91a97100b950 branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
43a2146b0f5dd4f1b7c701919a25e796980f89cd branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301477
06f346d27c355525edff52d0a94ca7aafaf82be9 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301477
a9cfcbb97835115f9560e72726897613214a24cc branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301477
f648ae732b8be367022a6a06a41fe638e8c8c4c9 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301477
c44c2f3ab7fb9b6787c337ddfc67c3e56f23b4ed branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8a730633a2145cbd341b6e3bc5c4371ffc133bd branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301477
4daf8db37f5b5598290ce9c1ba501b3e5bd8b679 branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-

15301477
0a0e7efad16cc26543e931849454e6f894cc5820 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa261b720e7df3d175fc8eac2da3a969b0f65eb9 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301477
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
DIRC)]]o1H]]o1H:2e osi\s5X@
module.mk]]o1X]]o1X:2f"RJitVEDkUmp?1ysmartpd_agent.c]]o2F]]o2F:2g;Gwz^vO.#smartpd_pfm_info.c]]o3n#@]]o3n#@:2huH[6G18
smartpd_pfm_info.h]]o4]]o4:2i1T(BFf?smartpd_spec_db.c]]o41(]]o41(:0JewSgbsmartpd_spec_db.h];7e]]o5=0Jj|Y'>mW2jsmartpd_spec_defn.rng.xml]"*)]]o5=0J
Yd<T|[,!specfiles/smartpd_spec_dc3_10.xml]"2'j]]o6x0=0JNBB!dAZ)!specfiles/smartpd_spec_dc3_18.xml]"]]o7/m=0J
5b6h<
bb specfiles/smartpd_spec_dc3_4.xml]""ZH]]o7@=0JKg5JPF(eZ
specfiles/smartpd_spec_dc3_9.xml]"]]o8=0Jd0}wpspecfiles/smartpd_spec_eth.xml]]o9E]]o9E:0J
OEH,,"specfiles/smartpd_spec_eth_n5k.xml]H]]o9P=0JE[BMR?.<5]!specfiles/smartpd_spec_m9116s.xml]]o:X]]o:X:0J[!ih#fC specfiles/smartpd_spec_m9148.xml]-
DP]]o:"=0J,\}=V,x!specfiles/smartpd_spec_m9148T.xml];]]o;jP=0J"r*_&
UmIyrD!specfiles/smartpd_spec_m9148s.xml]]p:]]p::0Jg~A+*.&!specfiles/smartpd_spec_m9222i.xml],@]]pF@=0"
fKUw[P!specfiles/smartpd_spec_m9250i.xml]&X]]p=0"P^W#e&!specfiles/smartpd_spec_m9396T.xml]B]]pP=0"y${Iv S(!specfiles/smartpd_spec_m9396s.xml]]p`]]p`:0"bD+|R$r specfiles/smartpd_spec_m9500.xml]<0]]p=0" K0mL|{ specfiles/smartpd_spec_m9700.xml]<]]pv0=0"
1n'&gF`o*9 specfiles/smartpd_spec_m9706.xml]<^`]]p4=0"
2`b~9s
D3pt specfiles/smartpd_spec_m9710.xml]<0]]pj`=0"
2B6*]28+) specfiles/smartpd_spec_m9718.xml]]phX]]phX:0"p(;pr`]*-
J+specfiles/smartpd_spec_nexus_norcal_128.xml]]p^]]p^:0"n!,mjz7(5K]&W*specfiles/smartpd_spec_nexus_norcal_24.xml]]p3@]]p3@:0"JtK.Ft{MC+specfiles/smartpd_spec_nexus_norcal_384.xml]]p]]p:0"sG**N1u*specfiles/smartpd_spec_nexus_norcal_48.xml]]pe#]]pe#:0"j'ApXM|#*specfiles/smartpd_spec_nexus_norcal_64.xml]]p]]p:0"fe$t)3*specfiles/smartpd_spec_nexus_norcal_72.xml]]p H]]p
H:31hLMF7'specfiles/smartpd_spec_nexus_or2_48.xml]]p
l]]p
l:31d'd`XG=N
'specfiles/smartpd_spec_nexus_or2_96.xml]]pX]]pX:31hLMF7'specfiles/smartpd_spec_nexus_oregon.xml]]p]]p:31hLMF7(specfiles/smartpd_spec_nexus_oregon2.xml]220(]]p5=31%3AiTj[@Lf`specfiles/smartpd_spec_xbow.xml]3]]p8=31El'>p4"specfiles/smartpd_spec_xbow_10.xml]3`]]p
u(=31X).STO./:T"specfiles/smartpd_spec_xbow_18.xml]2;V7P]]p=31XP^ZRnW!specfiles/smartpd_spec_xbow_2.xml]3#%(]]p$=318..Iwyo!specfiles/smartpd_spec_xbow_6.xmlTREE=41 1
7'R\0`hxOspecfiles34 0
0
0Qu`!?B>e=>RyD
c3da9d643002251226ecb9ff51aec487cca6a3e6
72f82a676e4e8a7e8afdf779f565129030a3b2d3
[core]
 repositoryformatversion = 0

```
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
DIRC
]]o$x&]]o$x&:3*$yx$5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/l
ic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_c
ommon_defs.h]]o((]]o((:3*^*$>f
bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x ]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
  _@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
caaa75e0b83f705095b8e9759a6c2468a1e07e98
72f82a676e4e8a7e8afdf779f565129030a3b2d3  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284  branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b  branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
a99b88badbd4272519eee57ccc729e054c977969  branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f  branch 'beverlyhills_rel_8_2_1_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6  branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2c44772f070b427bbe767384281cdc2b17c45dd2  branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-
15304913
f2dad64daa260f5464c4192f0d687234345cf571  branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-
15304913
1a3e4b284cd4bbbf1236f01feb943b593385afbc  branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c  branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-
```

15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15304913
e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of
https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of
https://dscm.esl.cisco.com/git/153/comp-15304913
d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of
https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch 'rel_7_3_0_d1_1c_1481436596' of
https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15304913

2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913
0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld <nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
DIRC~]]g+T]]g+T:6uAkx&g~.gitattributes]]g,I]]g,I:6JDHF7=7eV
.lfsconfig]]g-[ ]]g-[:6g=D:aRh
cli/lic_cli.c]]g.P(]]g.P(:6c-N;~S

cli/lic_cli.h]]g.]]g.:67I{0BMcli/lic_cli_isan.c]]g/]]g/:0}n"-glzHC
cli/lic_cmi.h]]g0u]]g0u:0S3aXG,*Zkcli/licmgr.cmd]]g0W]]g0W:0JqX*zj=\p{5cli/licmgr.xml]]g1]]g1:0`>N_Ocli/licmgr.xml.h]]g2]]g2:0".T7rlj=Rcli/licmgr_cmd.h]]g2P]]g2P:0I})Bz3='_*Tk'{cli/licmgr_isan.xml]]g3BX]]g3BX:0XEX8cli/licmgr_isan.xml.h]]g3]]g3:09V_{N|0
cli/module.mk]]g4X]]g4X:0
>hdUKZx"cli/traditionalcli.cmd]]g5]]g5:3{j'^Y=examples/lic_example.c]]g6Lw]]g6Lw:3
SwIY5zexamples/lic_example_isan.c]]g7p]]g7p:3qa!v3>a~(Lexamples/module.mk]]g8u]]g8u:3xX!CUlicmgr/eth_plugin.licspec]]g8=3%'O^$licmgr/feat.txt]]g9]]g9:3Dx3hc=Y~90licmgr/lic_bmp.c]]g:,]]g:,:3'u./licmgr/lic_bmp.h]]g:0]]g:0:33ELvV=Obc%licmgr/lic_debug.h]]g;l]]g;l :3g.`b&#licmgr/lic_event.h]]hy8]]hy8:3Q~ LpO
licmgr/lic_feat_map.c]]hh]]hh:3jS"x<XW,licmgr/lic_feat_map.h]]h70]]h70:31JNQhP9licmgr/lic_flexlm.c]]h4@]]h4@:5TV87|g{n0 licmgr/lic_flexlm.h]]h]]h:5TV9(ww10NPyp$f{;Olicmgr/lic_main.c]]hP]]hP:3<7
=7]F[.>licmgr/lic_mts.c]]hYH]]hYH:3<89Dh"d<ilicmgr/lic_mts.h]]h
]]h
:3<9p:W.ZNIW!licmgr/lic_plugin.c]]hO]]hO:3<:+
(2c=qalicmgr/lic_plugin.h]]hoH]]hoH:3<;d!skzVlicmgr/lic_pss.c]]hC0]]hC0:3<<=3Klicmgr/lic_pss.h]]h]]h:3<=
6[,W/#licmgr/lic_smart_feature.c]]hc]]hc:3<> @R)67>?S!Hlicmgr/lic_smart_mts.c]]h [KP]]h
[KP:3<?vFrlicmgr/lic_smart_mts.h]]h
0]]h
0:3<@<.cPRE;U<Dlicmgr/lic_spec.h]]h
]]h

:3<An;bK[r<=ixlicmgr/lic_sprom.c]]h7(]]h7(:3<BNJ+eB[4}#O..Ulicmgr/lic_sprom.h]]h
i]]h
i:3<Ck*(o\licmgr/lic_syslog.c]]h/`]]h/`:52wn6Va&rNlicmgr/lic_sysmgr.c]]hhH]]hhH:52{AAhR
k8 ,licmgr/lic_sysmgr.h]]h&]]h&:0h#{TW8licmgr/lic_test.c]]hT]]hT:0]
/7gj_=licmgr/lic_test_isan.c]]hve]]hve:0bmnGBlicmgr/lic_utils.c]]h]]h:0
%xPu<Zs_licmgr/lic_utils.h]]h`]]h`:0
CK@]\R%r3licmgr/liccheck.c]]h}i]]h}i:0!N!!swLlicmgr/liccheck_isan.c]]hR]]hR:0"+A;tOn\rAMlicmgr/licmgr.conf]]h(]]h(:0#o9>^<ufzG|licmgr/licmgr_breakpoints.brk]]h
]]h
:0$jbusT9Qlicmgr/module.mk]]h0]]h0:3"cnSNFrZ
mib/lic_mib.c]]hp]]hp:3##j|G*t bt2|H
mib/lic_mib.h]]h(]]h(:3$YJCq,jp;mib/lic_mib_inspur.c]]hW]]hW:3%|0{
mib/module.mk]]h]]h:4n%v@s(`Y.usmart_shim/admin_api.c]]hX]]hX:4n&G@}p@IWhLsmart_shim/admin_api.h]
]hG]]hG :4n'7WQ.W#DRZ{t smart_shim/agenttest_api.c]]h8]]h8:4n($EHCE\=`b:smart_shim/agenttest_api.h]]h
]x]]h]x:4n).HqSDkksmart_shim/entitlement_api.c]]h!$]]h!$:4n*2/c<j[!smart_shim/entitlement_api.h]]h"]]h":4n+b
%rP{^Znc*smart_shim/getinfo_api.c]]h#P]]h#P:4n,%0l]bnsmart_shim/getinfo_api.h]]h$3(]]h$3(:4n- kl,II
5Uy5Nsmart_shim/module.mk]]h%`]]h%`:4n.88s$*smart_shim/shim_utils.c]]h&]]h&:4n/u"VL({C'BczC4smart_shim/shim_utils.h]]h']]h':4n1
)%UM<b-<EvNosmartcli/module.mk]]h(;T]]h(;T:4DP$mDsO"=Y5=smartcli/smart_cmi.h]]h) ']]h)
':4DQ0b|\x{smartcli/smart_exec_cli.c]]h)i@]]h)i@:4DRjHF
2h6smartcli/smart_feature_cli.c]]h*A]]h*A:4DS7
v1$:4w+L#smartcli/smart_show_cli.c]]h+]]h+:2gA6nubpsmartcli/smart_test_cli.c]]h,H]]h,H:2xh%26
N/Rj0smartcli/smart_util.c]]h-kI]]h-kI:2`i0Lz
smartcli/smart_util.h]]h.0]]h.0:2.0("\ijHS7smartcli/smart_xml_map.c]]h/E2@]]h/E2@:2;f^(DlT7`tsmartcli/smart_xml_map.h]]h2NK]]h2NK:2
eX9FwUZMeCUsmartcli/smartcli.cmd]]h33]]h33:2&$6smartcli/smartcli.h]]h5#]]h5#:2zK6427
INsmartcli/smartcli_cmd.h]]h6@]]h6@:0?&5#BRBspecfiles/README.txt]]h8bS]]h8bS:0?GT_:'=#eB4|;specfiles/eth_plugin.licspec]]h9]]h9:0?Y^0L*B+W
U=j specfiles/eth_plugin_n5k.licspec],]]h:x =0?w6w
U/% specfiles/eth_plugin_n7k.licspec]]iy]]iy:0?
&9f+!"3specfiles/lic_feat_pkg_map.txt];/Y]]ix=0??kb&vh78&specfiles/lic_feat_pkg_map_for_mds.txt],]]ih0=0?]Uitkj
wv%specfiles/lic_feat_pkg_map_inspur.txt]]i\@]]i\@:0? 0ovulP
%"specfiles/lic_feat_pkg_map_n5k.txt]$]]i#8=0?!_TFdiz"specfiles/lic_feat_pkg_map_n7k.txt]]i&]]i&:0?"C$`[.MA
specfiles/mds_alishan.licspec]
X]]iP=0?#vWXW'nb%specfiles/mds_alishan_gateway.licspec]d]]i
a=0?$]z{/"|%specfiles/mds_alishan_service.licspec]3]]i(=0?%{P95>w#)specfiles/mds_alishan_service_gdb.licspec]
]i]]i :2=2ab2D? specfiles/mds_casablanca.licspec]]i]]i:2uiS,y^`QAcO*specfiles/mds_chester.licspec]]i
]]i
:2;(n(UL
specfiles/mds_cocogrande.licspec]]ip]]ip:28(y'f$specfiles/mds_cocogrande_gdb.licspec]]i.]]i.:2KN4*jspecfiles/mds_cybloc.licspec]]i]]i:2~
2FDul8(specfiles/mds_excal.licspec]]]ig=2i\8sNb
1t|specfiles/mds_huashan.licspec]]i<]]i<:2D#22Eyspecfiles/mds_inagua.licspec]18]]i^`=2
p_*B=7sRespecfiles/mds_ishan.licspec]]i]]i:2MQt#specfiles/mds_ishan_service.licspec]+]]iP=2's#,Tte+specfiles/mds_minishan.licspec]]iwH]]iwH:2 i\8sNb 1t|&specfiles/mds_minishan_service.licspec]]i>h]]i>h:2
J\:J3UBbaspecfiles/mds_niihau.licspec]]i]]i:2|-YWsqD'specfiles/mds_paradise.licspec]8\]]io=5H
[w\b(0X:specfiles/mds_tianshan.licspec]]i6

`]]i6
`:5I9C
|y/lS{PMhyspecfiles/mds_uros.licspec]]iH]]iH:5J>z{f+
specfiles/mds_vegas.licspec]]ib]]ib:5KS-
'0zfxspecfiles/mds_vegas_gdb.licspec];1V]]i=5Lkw=tkI2specfiles/mds_xbow_10.licspec];&]]ip=5McJ*(h
Y0specfiles/mds_xbow_18.licspec];(]]iCX=5N69qLl/specfiles/mds_xbow_6.licspec]
e8]]ib =5O
(gMm
t?\:specfiles/mds_yushan.licspec]H]]iJ=5P
2Nqv'Fa m!specfiles/mds_yushan_mini.licspec];3]]ix=5Qzeq>{>specfiles/nexus_18.licspec]P]]i >.P=5R!kx
,=}specfiles/nexus_9.licspec]]i |@]]i
|@:5Sq7+oEBWspecfiles/nexus_oregon.licspec]]i!'P]]i!'P:5T!(MuF9oWspecfiles/nexus_oregon2.licspec]]i"2]]i"2:5
Uj:mCR}+ ;,specfiles/nexus_oregon2_lic_feat_pkg_map.txt].]]i#g3=22b|(A7$'gspecfiles/nexus_xbow.licspec],
N]]i#=22EjPFnGtDm)tspecfiles/nexus_xbow_18.licspec],`]]i%@H=22AA#e%X&}sMSf#specfiles/nexus_xbow_in
spur.licspec]%U]]i&h=22!kx ,=}specfiles/titanium.licspec]]i'
]]i'
:22G)G,Fc\=1specfiles/virt_plugin.licspecTREE126 7
rGr8
iv26cli12 0
LsJxmib4 0
2S6eVW/Rlicmgr35 0
j
GN;hsexamples3 0
2zcR
|Wsmartcli13 0
RXS2_8AcHspecfiles46 0
CCj@wI1slsmart_shim11 0
_\m=C~&@0f`Y`5o[[DW2
ref: refs/remotes/origin/h_cn12k
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld
<nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld
<nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
18b34bd8ae4af33255a6f417361e11786b620994
18b34bd8ae4af33255a6f417361e11786b620994 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15301478
a9e968e0393d063a27fb613ebd8013c3cfd23235 branch 'a1_5_id_integration' of
https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-
15301478
308364ff4b363199edaa4c72c54be421e6eafab9 branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd branch 'airstrike_platform_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-
15301478

cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301478
0d9988b3de90d054e1666f39f9e474563369c7c7 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301478

c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of
https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of
https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-
15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15301478
81afd4e3c64fe90013115c0bc393e26a6aeb19c6 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-
15301478
947493009e8b5bc81c4196a0de081e1560a7abfe branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-
15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-
15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-
15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-
15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of
https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-
15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-
15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-
15301478
b44b68849c01d3c522a065ce7559510609068115 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-
15301478
bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb3e10d6fd32e9be210d75893c68e00e1b2f8a92 branch 'daox_vem_ss-project' of
https://dscm.esl.cisco.com/git/153/comp-15301478
37c7bc3e9015888ae49d995ab027c2d2d96ea8c0 branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301478
372426417e0574776faba0a48bd084b7dde3ce9c branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d05d98bcf4e20379ec9012578a26b1a642cc86b branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-
15301478
2c341ff12fd1d96eb8046af4783ccafaa6919a4a branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301478
6759232f6dc5b608dab6f45ee64e3c003e7c942e branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-
15301478
dd11747c110645522f329da909751dd75b5a7252 branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-

15301478
542df882658f55c50fe5c5c3ebec2cdbfc1dc0ab branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301478
03badb12a0b66b1421147d9b4a8121e6a7b7bb3b branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301478
693b8b755085214667f3fa7ef1879c99f7034b99 branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
3a98b8c78bff8bf035238d9ceca7b72413cbfbbb branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4a1074031c1dd029a747ee84fee81fda704a3548 branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301478
b02be2a6ea95efaf17e2e7efb17d08371a000472 branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301478
e87da2deb0008f582ab8d3cceb74d48cc6213a88 branch 'eden_feat' of https://dscm.esl.cisco.com/git/153/comp-15301478
62b18d674216af92cb8ee958fe094a9e2121a7a9 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb9d1e296c178aa2ce9a0227cdbec9b194ea6283 branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301478
576a1d4500233107515f5e524832451c056c33bf branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301478
f936b8772ce3c0969d1530fc0a912c0e06b1cb96 branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fa109d86c4d75e1c2d01318402cf2b257e1535d branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301478
cca1814aba67221e0a2a423c6d49717f6999ec64 branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
f725771fc2469584a5b3a3780e7673d112aabdd8 branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
ea6288281cdf21c428b592521cafcee2150b7628 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301478
e8beebbb8f177e4ab4a15b90b260302ebbb97caa branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d784f97ff5701c9fab71069a51ee90a9600e9a12 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9088f3e60e64a872d019a2d4b3fbbf6d1b81ca branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301478
39eb5b40f093bed1eef7cbdca0b1f88cc4248add branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bbb4c5769f5525d9ac49549968715e6d287df81 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
2b49105ff402ffb3ca2355ea3fe4a800ae44e11b branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301478
1dedcfa86cd9a1f4d4601d9b0a754bfcda18d342 branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
1bbcd7694d98406fb20cdec3e10c6a48119ff908 branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
f323d0d3c2f6bf3cc908c2d15274033aea55cf14 branch 'garibaldi_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
af87e7869259ea7cc89d933b98d646dc6a8a6566 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301478
a2f61f718b1c6a70da15e490d51c7cc047164bb8 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
39f6a6b0231ee05d699903e1d6886849f967a70f branch 'gbr_bundle_test' of

https://dscm.esl.cisco.com/git/153/comp-15301478
79063adcab4db50596b782ae5b508492c7a52228 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9d1b0a03db151b8b3a1b8eb026e6362c042995 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fd0e000351d1c7ec818a79a9ee8abec254da5ea branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301478
96d2457c996fd955e9a4c7c0e7ef52da142cd672 branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301478
c1ab9aefc6b1347982a0b6ff2925c54d33a85392 branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301478
0dad6c5fe8bdaa73caae3402883ff324d2378508 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301478
ad7a0e02db66b29c9dae415301f096eaf6ecff60 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
11fe16388c801c29bdb744ae63bef535e3a18753 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301478
7e22a7dba2ee8ca8ffa2b3571596e2d8d18bb6cb branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301478
d097c8e9cb853f785b88701bb552dfbbc9894135 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301478
c7d0229dcc541520afc7b4d1c6e7ab010095f77d branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
e1bd69b934c4073d8cefb6e7996ead22e511d71f branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301478
d4f59c0474caaa0e41fd7ad6f929eb743dd5f324 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6705e834ba11db6846c855c443b55ac2e5830df branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6e7312ad4223318e9549e8200b58cbbb9c69e03 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301478
ef661f472337a84c6f96e3ee4e7d608ee02bf91b branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
36b7d19577707d8e73cd9c87fa49e21f2f54be4a branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301478
f507d20dbc7a4927d91862c6c6ef222b324ce456 branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
d11df479f60faa7782bae049c1d8f6d0c5b97bf8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301478
c3a0d8739d0aee04c9c26283d2a5d5bfbab112fc branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3dd46f7e5233681d53d946704f3b8484ba79edb branch 'ias' of https://dscm.esl.cisco.com/git/153/comp-15301478
140eb4191a66314e9841045d35d51516e1fa9413 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8312481aa1fdf22a586c7445cd40ef0eb622f6a branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301478
4fefc143cb49a0ffeadae3801a9496a7c1b5eeee branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301478
415b381b092ad1ecb639827edd6574779f38e8c6 branch 'ioa' of https://dscm.esl.cisco.com/git/153/comp-15301478
69b89a6b04f7bf692aaa07258ede18e84a91701b branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301478

d337838222cbb6b6380522946690749e8f339e17 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
1fdcabb6ae1e50c233361876735356c91496da37 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301478
059f8da47808923f2683f14086a54c76640d1534 branch 'iscm_ss_atherton' of https://dscm.esl.cisco.com/git/153/comp-15301478
fc51afb403f07b3c70daaf1ac5bf80c3c1774b42 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
3dfd9ac75e0d6e2e1e03907cd1010c2846ab6e33 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
ba2fd9569703df93afb794d1e02f29050a9ac138 branch 'itasca_vo_181b' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6ef8e01e35d97da1e8ca34264a05cb2dbd4d7 branch 'itasca_vo_191' of https://dscm.esl.cisco.com/git/153/comp-15301478
b901961fb218f1e4f787994711fea2365dc01dd8 branch 'itasca_vo_21033' of https://dscm.esl.cisco.com/git/153/comp-15301478
fbcf64c850e1f61582489993ce99012d4c246437 branch 'itasca_vo_2106' of https://dscm.esl.cisco.com/git/153/comp-15301478
23032b1bdcb3039cab2c9bebc452584104d00850 branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301478
276c2c17817d79a12a21f98ab8efc7e6ace890f7 branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301478
eef6ca0c2e377e90a281ca79909357e61e7162d2 branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0183e78dcf974af418008c22ee73c524f8065fa branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-15301478
db2a7d37016efef4a0d076cc33de929f5bd81f12 branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301478
af8b7325142cd9d4f6194cbdb6d8478d34a136da branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-15301478
b545c1bb678c670a1e0542335e5f937bc62d9607 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301478
b63bd4541f35d414c9c8522643cc89a6b04ea973 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301478
6cf77b3e21752b254295c80abf27f1d4ccfbdabb branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301478
fd76e8f6248812daa20ea5ccbfe0944034aedacb branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
8be7d6032a008a2eaf4ea90146bb31f71a0821ef branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-15301478
2e9f71651efea96ce7ee64a94cc027681e4c9383 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
c4f96f211387be7f74487ef50aace6d9bb2f2286 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6d6fa4ddaa707b89d308923496d7742524fa691 branch 'msgformat_n6k2' of https://dscm.esl.cisco.com/git/153/comp-15301478
982b1b6f225f4ccb7e1827a24630f27f500b738c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301478
663d9fb2685a9fc05729f83f9b1bd22c7b7ed788 branch 'n7k_aa_new_ffex' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3e1206a99d0876716096a242405306e237684f6 branch 'n9k_redmond_dev' of

https://dscm.esl.cisco.com/git/153/comp-15301478
989ed9ca2ca04fb1c103ca40ca5ef8ea8be36cb8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301478
0c0aa09eafeeba2d8002c8b49af22e16ee5c1f03 branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301478
46d91c04fe17073fc7dded151478b6fb1288b993 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301478
af942f9d5bbd9f218dbb9f21b5f328fddeab29e3 branch 'pf_dev1' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fd848d04fcb1f5e33d4444fc677f8eea6beb686 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301478
f2bc608817a1b04e2ce81901c12d34069d54d817 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301478
209779d347aaa695a32863d27f969242a5b9d23f branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301478
c0d1ed5843a711a9b43143bd16990542f5c9c113 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301478
aeec478944bec360f74ce37afae785d380f77fb9 branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301478
9431c359fbc453db8726c3f1081af2eed181654e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301478
f809ccbf2af5aef25ffb8de4f562c0bfc6791688 branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
87d93bc1be10f610ce2eb468cda112f2ea54292f branch 'rel_3_3_2_1224937999' of https://dscm.esl.cisco.com/git/153/comp-15301478
05c5023d78da3ea7f714b23cd65122180fdba92a branch 'rel_3_4_1_1213608616' of https://dscm.esl.cisco.com/git/153/comp-15301478
c5f3d774503d3016a38c82dfd55c9c59d928c6b1 branch 'rel_4_2_0_181_1238668610' of https://dscm.esl.cisco.com/git/153/comp-15301478
ac514a85ac99106c66769ccd4e4e86ee314fced7 branch 'rel_4_2_0_232_1245089908' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b4b4dec07d40bbf32c9879ab90af1cf3e791950 branch 'rel_5_0_0_107a_1240538733' of https://dscm.esl.cisco.com/git/153/comp-15301478
5f5579b0d72a3f9473728ceaaac6c1466e39bd1c branch 'rel_5_0_0_224_1254804350' of https://dscm.esl.cisco.com/git/153/comp-15301478
ff1a854d0ff7e5c0931f314b12082860feb640e1 branch 'rel_5_2_0_270_1303376229' of https://dscm.esl.cisco.com/git/153/comp-15301478
01afa718a42114dd05b0f0a446686c3e89b4f0e6 branch 'rel_6_2_0_136_1340789244' of https://dscm.esl.cisco.com/git/153/comp-15301478
689377c1cf4f911431016c5fe6e226845b650492 branch 'rel_6_2_0_166_1340955287' of https://dscm.esl.cisco.com/git/153/comp-15301478
646a4b83eea9f721abaa5cd580d116969f64b46d branch 'rel_6_2_0_257_1352462481' of https://dscm.esl.cisco.com/git/153/comp-15301478
20acb97f034c3a8334c38b22606396e76a63a339 branch 'rel_6_2_1_1358881414' of https://dscm.esl.cisco.com/git/153/comp-15301478
5fc08ef49bd79a75f25ed383199bec797979c1f0 branch 'rel_6_2_1_33_1361809351' of https://dscm.esl.cisco.com/git/153/comp-15301478
751414a01ab1b7a88e07b326f208b9f0c7f6975f branch 'rel_6_2_1_33_1361810972' of https://dscm.esl.cisco.com/git/153/comp-15301478
7c615c6307d1368a3fe35fd0c5bc543e810302cc branch 'rel_6_2_1_33_1361813473' of https://dscm.esl.cisco.com/git/153/comp-15301478
951b02670b44338cb9dc08907f9dab8f82d97eaf branch 'rel_6_2_20_1508342187' of

https://dscm.esl.cisco.com/git/153/comp-15301478
8e06fe9b97684f2bdcde119b23a03dc34d491584 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f99b05b7b6f6c8a4be4a48ac41a8a571a8aa24dc branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301478
22f08f6fb3a9342449b5d500089beaf540cf9d1b branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05fe7b9455364a33abf847c3ec05d731867f1045 branch 'rel_6_2_25_1539182315' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6050a58b40da4df4befdcf88556c6861cd67fe35 branch 'rel_6_2_25_1539191823' of
https://dscm.esl.cisco.com/git/153/comp-15301478
2a048c6f1c03349355e52c52935c2aeaa53efe11 branch 'rel_6_2_25_1539238092' of
https://dscm.esl.cisco.com/git/153/comp-15301478
37372dd95365436d3d3f3b101354d4a92ca3910f branch 'rel_6_2_25_1539239655' of
https://dscm.esl.cisco.com/git/153/comp-15301478
71c8ea4d50a392fb3dabab1da6f0ea4ab07d908f branch 'rel_6_2_25_1539248473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
df97caa3defec8513e1a2204344e6390877deb89 branch 'rel_6_2_25_1539249764' of
https://dscm.esl.cisco.com/git/153/comp-15301478
079bdbabd79f7fa548ed9ee1dc1d3b04d21d3ff2 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9523106cb6551f85591b17c54311433ff8087dfc branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5d3123e6c405ae90a2341ab990127f31dbbba3ea branch 'rel_7_3_0_d1_1c_1470763162' of
https://dscm.esl.cisco.com/git/153/comp-15301478
3fd68c8fd1dadc4ffd1acd68989e5a25e1217fcf branch 'rel_7_3_2_d1_1a_1506152203' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ce8c8e553b059b7b99eb3bb4097613c2c5c768df branch 'rel_7_3_2_d1_1a_1506154528' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4813f1d402bb0b717762abd7c7bf4eca73766ed8 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fb9c13257ffdfab5962c1ba62a724a5fb7e6ae5 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
637a0b9c22dce42c9f17a88d104dbb5772e89ad1 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6082bed932f2aed4226b321e0d0ef659acd39fc6 branch 'rel_a3_1_0_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72fddd58f69efdf8cf9cfcf168963bfe28a089bf branch 'rel_a3_2_0_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
37b7ca7e8f6a3324b7084ebc1a0d1812bd93efad branch 'rel_a41_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3ea3bc2282a05d52e707453d38821cb91a1533c branch 'rel_a42_sustaining' of
https://dscm.esl.cisco.com/git/153/comp-15301478
72470eab26284961e1c89db71301559e12bef166 branch 'rel_a5_2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
66356d491a36335a136a8f0815f4067ddec9d4bc branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301478
b53c16eead58d6956c4b0764defa4423aec50033 branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478

753b4aa31444c4bcaf19de0ca2a9f4715df44e00 branch 'sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
e155771334f2f31cafdb7008a3b2966b0f1d0e4d branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
098a0a196c019d4ee4a4bc15c348fca81235b069 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301478
48446a4b5fe9108d3d29d43acbe572535c5f97c0 branch 'scsi_3_0_0_335' of https://dscm.esl.cisco.com/git/153/comp-15301478
105aa02289eea3020bae4a9aa87ed60fe3e2fa1f branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301478
21b124375bab313594e33834cd72d557abd80db8 branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301478
3202a93cf5ed097f2e727003fdecb30998977aa3 branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301478
07ad4755c9cc043b50c7f46bb69ed0190a170582 branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301478
f30c7f51d5516bd9edccd197209cbe0a879ae4ad branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
91d074c2a66b413ca62a9afbe04802ef0bc12947 branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301478
b84db97b172c99605dec6dc11752c5b129861e1b branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301478
7a0106b95924f463eecd51e8fbc0f97f01be48df branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fa196950d2e766be74d183453588a4fcc92601a branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f06e1ed0483da8b4374451d688f81a77b4de5d9e branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301478
353bdbdf012daf882a63fb13c14639aa58b85d41 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301478
55c1b9cd1e7cfb5fd1bdddafe80c78047d5db7be branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301478
5653a55eaa0b143ab0478f5a26049dcc829c1830 branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
aaac4ed52c966ea355f983b1097a7461de97a192 branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301478
8fc0e776de65ec8a55a4468d62183d1ea5f8e2b8 branch 'smu_n7k_r710_sajjad_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
71dada888ce90cd69c3970561940ce98b9977941 branch 'smu_n7k_r710_temp' of https://dscm.esl.cisco.com/git/153/comp-15301478
f8f993be6024be49e485ec745d37db9c97c18259 branch 'sp_skywalker_73_161130_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3ae6f149c770ad44aedcc35432f514947e4e887 branch 'st_demo_lu_pair_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd7423520b4ae3f92fa04577f2342744feb3294e branch 'st_freetown_clone' of https://dscm.esl.cisco.com/git/153/comp-15301478
2bc93c134779efbe23e065084b6d8d1dade45f65 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301478
50f390f9ed8b9286c7b311111d3532ff7021a506 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-

15301478
65e581399de4e9d700c36e5c28948457a2fd599c branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
52a5af46815ea0d9d842ba020e104f7cccce88dc branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301478
1efa7a9070b4abf9f30bbb526c9d9ef301ed42d2 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
891a5faaf8543fa6cc07cc80cdde010722906e83 branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301478
315803f020b43a75703e1bcd28ef412f53c0aeed branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301478
0556f775d55169ee22de821b23d64b4f39e4c413 branch 'test_branching_time2' of https://dscm.esl.cisco.com/git/153/comp-15301478
8713f07d6198f5072dd23927e4760828def510ee branch 'throttle_sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
38dbf00b4621334c955d3289fd92fd51d5f0f305 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e9da8a85ef3efa5f3aa180dc2fc24ba5d8b4f77 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301478
865d29dbafb9353d3be76c1bd63b70cf08606b7f branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301478
525dd7727316385b75a7a224cd1431e4dd4e4451 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
904185ec6f5103b66d17d6b8da11a692191b96b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301478
849ec2d80fdae023651c4f52d2fbe13dcf760a04 branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4490d20595812a0f4916ac9d7e53482428865ae3 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
82815a4d2ad9eddf3c51a22298ea2059018cc6c1 branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
80f161749264fc319e7f68bfa4884414b88670c1 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301478
76cf7da6ea2506d4a341ef921e7b7217779fd4f3 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301478
21ba2465d0cbedf990f933a3c03b97197d6149ce branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d2e118677aae02b25ce1c0460708b36e17d2ead branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
0eea74a6c3bb3141bd056b6c291cadce2085df7f branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301478
a6317fa6bea14fb21bae125f5bea5daa328cac16 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301478
042a2f1ab8db9e1db17ccdb72e8c00c5274b3d12 branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301478
6d8037027b72e1f1ea13c9b60ee0365276bf6ab5 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d7eb3558c14a0ad99eb671c72244533b0a96a65 branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ac1838dd71f9a0ca114d5a54261dbac4265e558 branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301478
d7d0184d733403ce16715e0a01278781fcf2acab branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478

dc13f3ad869914012eced3645efed76807b27be9 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6b8d82b5685771f81fdfd56bf8a0e4be59565 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf
0000000000000000000000000000000000000000 18b34bd8ae4af33255a6f417361e11786b620994 nxbld <nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
caaa75e0b83f705095b8e9759a6c2468a1e07e98 333f8b22c5dad178e0e0fc0db61cc88b252a5a4c nxbld <nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git

1.394 leodido-go-urn 1.2.1

1.394.1 Available under license :

MIT License

Copyright (c) 2018 Leonardo Di Donato

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.395 crestonbunch-godata 1.0.6

1.395.1 Available under license :

The MIT License

Copyright (c) 2016 Creston Bunch

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.396 giflib 4.2

1.396.1 Available under license :

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.397 ifupdown 0.8.41

1.397.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ifupdown
Source: https://salsa.debian.org/debian/ifupdown/

Files: *
Copyright: 1999-2009 Anthony Towns
2010-2015 Andrew Shadura
2015 Guus Sliepen
2020-2022 Josu Ortega, Santiago Ruano Rincn
License: GPL-2+
This program is free software; you can redistribute it
and/or modify it under the terms of the GNU General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later
version.
.
This program is distributed in the hope that it will be
useful, but WITHOUT ANY WARRANTY; without even the implied
warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE. See the GNU General Public License for more
details.
.
You should have received a copy of the GNU General Public
License along with this package; if not, write to the Free
Software Foundation, Inc., 51 Franklin St, Fifth Floor,
Boston, MA 02110-1301 USA
.
On Debian systems, the full text of the GNU General Public
License version 2 can be found in the file
`/usr/share/common-licenses/GPL-2'.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.398 glib 2.44.1

1.398.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may

distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library

specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307 USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This work may be reproduced and distributed in whole or in part, in any medium, physical or electronic, so as long as this copyright notice remains intact and unchanged on all copies. Commercial redistribution is permitted and encouraged, but you may not redistribute, in whole or in part, under terms more restrictive than those under which you received it. If you redistribute a modified or translated version of this work, you must also make the source code to the modified or translated version available in electronic form without charge. However, mere aggregation as part of a larger work shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain,
and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End
/**********
* Perl-Compatible Regular Expressions *
**********/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

Copyright (c) 1997-2012 University of Cambridge

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* Neither the name of the University of Cambridge nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
-----------------------------------------------------------------------------
*/

#ifndef _PCRE_H
#define _PCRE_H

/* The current PCRE version information. */

#define PCRE_MAJOR         8
#define PCRE_MINOR         31
#define PCRE_PRERELEASE
#define PCRE_DATE          2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
#  ifndef PCRE_EXP_DECL
#    define PCRE_EXP_DECL  extern __declspec(dllimport)
#  endif
#  ifdef __cplusplus
#    ifndef PCRECPP_EXP_DECL
#      define PCRECPP_EXP_DECL  extern __declspec(dllimport)
#    endif
#    ifndef PCRECPP_EXP_DEFN
#      define PCRECPP_EXP_DEFN  __declspec(dllimport)
#    endif
#  endif
#endif

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
#  ifdef __cplusplus
#    define PCRE_EXP_DECL  extern "C"
```

```
#  else
#    define PCRE_EXP_DECL  extern
#  endif
#endif

#ifdef __cplusplus
#  ifndef PCRECPP_EXP_DECL
#    define PCRECPP_EXP_DECL  extern
#  endif
#  ifndef PCRECPP_EXP_DEFN
#    define PCRECPP_EXP_DEFN
#  endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS           0x00000001  /* Compile */
#define PCRE_MULTILINE          0x00000002  /* Compile */
#define PCRE_DOTALL             0x00000004  /* Compile */
#define PCRE_EXTENDED           0x00000008  /* Compile */
#define PCRE_ANCHORED           0x00000010  /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY     0x00000020  /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA              0x00000040  /* Compile */
#define PCRE_NOTBOL             0x00000080  /* Exec, DFA exec */
#define PCRE_NOTEOL             0x00000100  /* Exec, DFA exec */
#define PCRE_UNGREEDY           0x00000200  /* Compile */
#define PCRE_NOTEMPTY           0x00000400  /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8               0x00000800  /* Compile (same as PCRE_UTF16) */
```

```
#define PCRE_UTF16            0x00000800  /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE    0x00001000  /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK      0x00002000  /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK     0x00002000  /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT       0x00004000  /* Compile */
#define PCRE_PARTIAL_SOFT       0x00008000  /* Exec, DFA exec */
#define PCRE_PARTIAL            0x00008000  /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST       0x00010000  /* DFA exec */
#define PCRE_DFA_RESTART        0x00020000  /* DFA exec */
#define PCRE_FIRSTLINE          0x00040000  /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES           0x00080000  /* Compile */
#define PCRE_NEWLINE_CR         0x00100000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF         0x00200000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF       0x00300000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY        0x00400000  /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF    0x00500000  /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF        0x00800000  /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE        0x01000000  /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT  0x02000000  /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE  0x04000000  /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE  0x04000000  /* Synonym */
#define PCRE_PARTIAL_HARD       0x08000000  /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART   0x10000000  /* Exec, DFA exec */
#define PCRE_UCP                0x20000000  /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH         (-1)
#define PCRE_ERROR_NULL            (-2)
#define PCRE_ERROR_BADOPTION       (-3)
#define PCRE_ERROR_BADMAGIC        (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE   (-5)
#define PCRE_ERROR_UNKNOWN_NODE     (-5)  /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY        (-6)
#define PCRE_ERROR_NOSUBSTRING      (-7)
#define PCRE_ERROR_MATCHLIMIT       (-8)
#define PCRE_ERROR_CALLOUT         (-9)  /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8        (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16       (-10)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET  (-11)  /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11)  /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL        (-12)
#define PCRE_ERROR_BADPARTIAL      (-13)
#define PCRE_ERROR_INTERNAL        (-14)
#define PCRE_ERROR_BADCOUNT        (-15)
#define PCRE_ERROR_DFA_UITEM       (-16)
#define PCRE_ERROR_DFA_UCOND       (-17)
```

```
#define PCRE_ERROR_DFA_UMLIMIT     (-18)
#define PCRE_ERROR_DFA_WSSIZE      (-19)
#define PCRE_ERROR_DFA_RECURSE     (-20)
#define PCRE_ERROR_RECURSIONLIMIT  (-21)
#define PCRE_ERROR_NULLWSLIMIT     (-22)  /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE      (-23)
#define PCRE_ERROR_BADOFFSET       (-24)
#define PCRE_ERROR_SHORTUTF8       (-25)
#define PCRE_ERROR_SHORTUTF16      (-25)  /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP     (-26)
#define PCRE_ERROR_JIT_STACKLIMIT  (-27)
#define PCRE_ERROR_BADMODE         (-28)
#define PCRE_ERROR_BADENDIANNESS   (-29)
#define PCRE_ERROR_DFA_BADRESTART  (-30)

/* Specific error codes for UTF-8 validity checks */

#define PCRE_UTF8_ERR0          0
#define PCRE_UTF8_ERR1          1
#define PCRE_UTF8_ERR2          2
#define PCRE_UTF8_ERR3          3
#define PCRE_UTF8_ERR4          4
#define PCRE_UTF8_ERR5          5
#define PCRE_UTF8_ERR6          6
#define PCRE_UTF8_ERR7          7
#define PCRE_UTF8_ERR8          8
#define PCRE_UTF8_ERR9          9
#define PCRE_UTF8_ERR10         10
#define PCRE_UTF8_ERR11         11
#define PCRE_UTF8_ERR12         12
#define PCRE_UTF8_ERR13         13
#define PCRE_UTF8_ERR14         14
#define PCRE_UTF8_ERR15         15
#define PCRE_UTF8_ERR16         16
#define PCRE_UTF8_ERR17         17
#define PCRE_UTF8_ERR18         18
#define PCRE_UTF8_ERR19         19
#define PCRE_UTF8_ERR20         20
#define PCRE_UTF8_ERR21         21

/* Specific error codes for UTF-16 validity checks */

#define PCRE_UTF16_ERR0         0
#define PCRE_UTF16_ERR1         1
#define PCRE_UTF16_ERR2         2
#define PCRE_UTF16_ERR3         3
#define PCRE_UTF16_ERR4         4
```

```
/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS           0
#define PCRE_INFO_SIZE              1
#define PCRE_INFO_CAPTURECOUNT      2
#define PCRE_INFO_BACKREFMAX        3
#define PCRE_INFO_FIRSTBYTE         4
#define PCRE_INFO_FIRSTCHAR         4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE        5
#define PCRE_INFO_LASTLITERAL       6
#define PCRE_INFO_NAMEENTRYSIZE     7
#define PCRE_INFO_NAMECOUNT         8
#define PCRE_INFO_NAMETABLE         9
#define PCRE_INFO_STUDYSIZE         10
#define PCRE_INFO_DEFAULT_TABLES    11
#define PCRE_INFO_OKPARTIAL         12
#define PCRE_INFO_JCHANGED          13
#define PCRE_INFO_HASCRORLF         14
#define PCRE_INFO_MINLENGTH         15
#define PCRE_INFO_JIT               16
#define PCRE_INFO_JITSIZE           17
#define PCRE_INFO_MAXLOOKBEHIND     18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8                    0
#define PCRE_CONFIG_NEWLINE                 1
#define PCRE_CONFIG_LINK_SIZE               2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD  3
#define PCRE_CONFIG_MATCH_LIMIT             4
#define PCRE_CONFIG_STACKRECURSE            5
#define PCRE_CONFIG_UNICODE_PROPERTIES      6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION   7
#define PCRE_CONFIG_BSR                     8
#define PCRE_CONFIG_JIT                     9
#define PCRE_CONFIG_UTF16                   10
#define PCRE_CONFIG_JITTARGET               11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_STUDY_JIT_COMPILE              0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE   0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE   0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */
```

```
#define PCRE_EXTRA_STUDY_DATA           0x0001
#define PCRE_EXTRA_MATCH_LIMIT          0x0002
#define PCRE_EXTRA_CALLOUT_DATA         0x0004
#define PCRE_EXTRA_TABLES               0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION  0x0010
#define PCRE_EXTRA_MARK                 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT       0x0040

/* Types */

struct real_pcre;               /* declaration; the definition is private  */
typedef struct real_pcre pcre;

struct real_pcre16;             /* declaration; the definition is private  */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack;     /* declaration; the definition is private  */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack;   /* declaration; the definition is private  */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

typedef struct pcre_extra {
 unsigned long int flags;       /* Bits for which fields are set */
```

```
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 unsigned char **mark;           /* For passing back a mark pointer */
 void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_extra {
 unsigned long int flags;        /* Bits for which fields are set */
 void *study_data;              /* Opaque data from pcre_study() */
 unsigned long int match_limit;  /* Maximum number of calls to match() */
 void *callout_data;            /* Data passed back in callouts */
 const unsigned char *tables;    /* Pointer to character tables */
 unsigned long int match_limit_recursion; /* Max recursive calls to match() */
 PCRE_UCHAR16 **mark;            /* For passing back a mark pointer */
 void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre16_extra;

/* The structure for passing out data via the pcre_callout_function. We use a
structure so that new fields can be added on the end in future versions,
without changing the API of the function, thereby allowing old clients to work
without modification. */

typedef struct pcre_callout_block {
 int         version;           /* Identifies version of block */
 /* ------------------------ Version 0 ------------------------------- */
 int         callout_number;    /* Number compiled into pattern */
 int        *offset_vector;     /* The offset vector */
 PCRE_SPTR    subject;           /* The subject being matched */
 int         subject_length;    /* The length of the subject */
 int         start_match;       /* Offset to start of this match attempt */
 int         current_position;  /* Where we currently are in the subject */
 int         capture_top;       /* Max current capture */
 int         capture_last;      /* Most recently closed capture */
 void        *callout_data;      /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
 int         pattern_position;  /* Offset to next item in the pattern */
 int         next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 -------------------------- */
 const unsigned char *mark;      /* Pointer to current mark or NULL    */
 /* ----------------------------------------------------------------- */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */
```

```
typedef struct pcre16_callout_block {
 int          version;           /* Identifies version of block */
 /* ------------------------- Version 0 ------------------------------- */
 int          callout_number;    /* Number compiled into pattern */
 int         *offset_vector;     /* The offset vector */
 PCRE_SPTR16  subject;           /* The subject being matched */
 int          subject_length;    /* The length of the subject */
 int          start_match;       /* Offset to start of this match attempt */
 int          current_position;  /* Where we currently are in the subject */
 int          capture_top;       /* Max current capture */
 int          capture_last;      /* Most recently closed capture */
 void         *callout_data;     /* Data passed in with the call */
 /* ------------------- Added for Version 1 -------------------------- */
 int          pattern_position;  /* Offset to next item in the pattern */
 int          next_item_length;  /* Length of next item in the pattern */
 /* ------------------- Added for Version 2 -------------------------- */
 const PCRE_UCHAR16 *mark;       /* Pointer to current mark or NULL    */
 /* ------------------------------------------------------------------ */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifndef VPCOMPAT
PCRE_EXP_DECL void *(*pcre_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_free)(void *);
PCRE_EXP_DECL void *(*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void *(*pcre16_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_free)(void *);
PCRE_EXP_DECL void *(*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void  (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int   (*pcre16_callout)(pcre16_callout_block *);
#else   /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void  pcre_free(void *);
PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre_stack_free(void *);
PCRE_EXP_DECL int   pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void  pcre16_free(void *);
```

```
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void  pcre16_stack_free(void *);
PCRE_EXP_DECL int   pcre16_callout(pcre16_callout_block *);
#endif  /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
              const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
              int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXP_DECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
              int *, int, const char *, char *, int);
PCRE_EXP_DECL int  pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
              int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_copy_substring(const char *, int *, int, int,
              char *, int);
PCRE_EXP_DECL int  pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
              PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int  pcre_dfa_exec(const pcre *, const pcre_extra *,
              const char *, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
              PCRE_SPTR16, int, int, int, int *, int , int *, int);
PCRE_EXP_DECL int  pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
               int, int, int, int *, int);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *,
               PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_fullinfo(const pcre *, const pcre_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
              void *);
PCRE_EXP_DECL int  pcre_get_named_substring(const pcre *, const char *,
              int *, int, const char *, const char **);
```

```
PCRE_EXP_DECL int  pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
            int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int  pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int  pcre_get_stringtable_entries(const pcre *, const char *,
            char **, char **);
PCRE_EXP_DECL int  pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
            PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int  pcre_get_substring(const char *, int *, int, int,
            const char **);
PCRE_EXP_DECL int  pcre16_get_substring(PCRE_SPTR16, int *, int, int,
            PCRE_SPTR16 *);
PCRE_EXP_DECL int  pcre_get_substring_list(const char *, int *, int,
            const char ***);
PCRE_EXP_DECL int  pcre16_get_substring_list(PCRE_SPTR16, int *, int,
            PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *, int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int  pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
            const unsigned char *);
PCRE_EXP_DECL int  pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
            const unsigned char *);
PCRE_EXP_DECL int  pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
            PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
            pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
            pcre16_jit_callback, void *);

#ifdef __cplusplus
}  /* extern "C" */
```

```
#endif

#endif /* End of pcre.h */
/* GMODULE - GLIB wrapper code for dynamic module loading
* Copyright (C) 1998 Tim Janik
*
* This library is free software; you can redistribute it and/or
* modify it under the terms of the GNU Lesser General Public
* License as published by the Free Software Foundation; either
* version 2 of the License, or (at your option) any later version.
*
* This library is distributed in the hope that it will be useful,
* but WITHOUT ANY WARRANTY; without even the implied warranty of
* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
* Lesser General Public License for more details.
*
* You should have received a copy of the GNU Lesser General Public
* License along with this library; if not, see <http://www.gnu.org/licenses/>.
*/

/*
* Modified by the GLib Team and others 1997-2000.  See the AUTHORS
* file for a list of people on the GLib Team.  See the ChangeLog
* files for a list of changes.  These files are distributed with
* GLib at ftp://ftp.gtk.org/pub/gtk/.
*/

#ifndef __GMODULE_H__
#define __GMODULE_H__

#include <glib.h>

G_BEGIN_DECLS

/* exporting and importing functions, this is special cased
* to feature Windows dll stubs.
*/
#define G_MODULE_IMPORT  extern
#ifdef G_PLATFORM_WIN32
#  define G_MODULE_EXPORT  __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
#  define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
 G_MODULE_BIND_LAZY = 1 << 0,
 G_MODULE_BIND_LOCAL = 1 << 1,
```

```
 G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule    GModule;
typedef const gchar* (*GModuleCheckInit) (GModule *module);
typedef void      (*GModuleUnload)  (GModule *module);

/* return TRUE if dynamic module loading is supported */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_supported    (void) G_GNUC_CONST;

/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule*            g_module_open         (const gchar  *file_name,
          GModuleFlags  flags);

/* close a previously opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean            g_module_close        (GModule      *module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void                g_module_make_resident (GModule      *module);

/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar *        g_module_error        (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean            g_module_symbol       (GModule      *module,
          const gchar  *symbol_name,
          gpointer     *symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *        g_module_name         (GModule      *module);

/* Build the actual file name containing a module. 'directory' is the
* directory where the module file is supposed to be, or NULL or empty
* in which case it should either be in the current directory or, on
* some operating systems, in some standard place, for instance on the
* PATH. Hence, to be absoultely sure to get the correct module,
* always pass in a directory. The file name consists of the directory,
* if supplied, and 'module_name' suitably decorated according to
* the operating system's conventions (for instance lib*.so or *.dll).
*
* No checks are made that the file exists, or is of correct type.
```

```
*/
GLIB_AVAILABLE_IN_ALL
gchar*              g_module_build_path    (const gchar  *directory,
         const gchar  *module_name);


#ifndef __GTK_DOC_IGNORE__
#ifdef G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule *    g_module_open_utf8 (const gchar  *file_name,
                        GModuleFlags  flags);
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule      *module);
#endif
#endif

G_END_DECLS

#endif /* __GMODULE_H__ */
```

1.399 zlib 1.2.12

1.399.1 Available under license :

```
* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.12, March 11th, 2022

  Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.
```

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.400 jcommon 1.0.16

1.400.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.401 kubernetes-client 0.21.4

1.401.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.402 shared-mime-info 1.1

1.402.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along

with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
MSCFF,DYF6Zm COPYINGLG2#YFYF GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
The RelaxNG schemas in this directory are available under
under [the W3C Test Suite License](http://www.w3.org/Consortium/Legal/2008/04-testsuite-license.html).

See https://github.com/w3c/its-2.0-testsuite#licensing-information

1.403 hashicorp-go-secure-stdlib-parseutil 0.1.4

1.403.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant,

then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from

such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.404 go.uber.org/atomi 1.9.0

1.404.1 Available under license :

Copyright (c) 2016 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.405 x-net 0.0.0-20220225172249-27dd8689420f

1.405.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.406 libksba 1.3.5

1.406.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

KSBA is distributed under mixed GPL and LGPL licenses. Please see the file AUTHOR for details. The text of the used licenses can be found in the files:

COPYING.LGPLv3
COPYING.GPLv3
COPYING.GPLv2

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among

countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data

and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.407 commons-io 2.11.0

1.407.1 Available under license :

Apache Commons IO
Copyright 2002-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.408 numpy 1.22.3

1.408.1 Available under license :

This binary distribution of NumPy also bundles the following software:

Name: OpenBLAS
Files: .libs/libopenb*.so
Description: bundled as a dynamically linked library
Availability: https://github.com/xianyi/OpenBLAS/
License: 3-clause BSD
Copyright (c) 2011-2014, The OpenBLAS Project
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. Neither the name of the OpenBLAS project nor the names of
   its contributors may be used to endorse or promote products
   derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: LAPACK
Files: .libs/libopenb*.so
Description: bundled in OpenBLAS
Availability: https://github.com/xianyi/OpenBLAS/
License 3-clause BSD

Copyright (c) 1992-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver. All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Name: GCC runtime library
Files: .libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/viewcvs/gcc/
License: GPLv3 + runtime exception
Copyright (C) 2002-2017 Free Software Foundation, Inc.

Libgfortran is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3, or (at your option)
any later version.

Libgfortran is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

Under Section 7 of GPL version 3, you are granted additional
permissions described in the GCC Runtime Library Exception, version
3.1, as published by the Free Software Foundation.

You should have received a copy of the GNU General Public License and
a copy of the GCC Runtime Library Exception along with this program;
see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
<http://www.gnu.org/licenses/>.

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or

with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new

free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works

for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section

7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the

Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object

code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of

that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or

modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could

give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent

license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have

permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING

WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
* Copyright (c) 2006, University of Georgia and Pierre G.F. Gerard-Marchant
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions are met:
*
* * Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* * Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* * Neither the name of the University of Georgia nor the
* names of its contributors may be used to endorse or promote products
* derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY
* EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
* DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY
* DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
* (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
* ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
* SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

PHILOX

Copyright 2010-2012, D. E. Shaw Research.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions, and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions, and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

* Neither the name of D. E. Shaw Research nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
License

Copyright (c) 2008 Ian Bicking and Contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 1992-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.
Copyright (c) 2000-2013 The University of California Berkeley. All rights reserved.
Copyright (c) 2006-2013 The University of Colorado Denver. All rights reserved.

$COPYRIGHT$

Additional copyrights may follow

$HEADER$

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license in the documentation and/or other materials provided with the distribution.

- Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

zlib License

Copyright (C) 2010 - 2019 ridiculous_fish, <libdivide@ridiculousfish.com>
Copyright (C) 2016 - 2019 Kim Walisch, <kim.walisch@gmail.com>

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

This software is dual-licensed under the The University of Illinois/NCSA Open Source License (NCSA) and The 3-Clause BSD License

NCSA Open Source License

Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Developed by: Kevin Sheppard (<kevin.sheppard@economics.ox.ac.uk>, <kevin.k.sheppard@gmail.com>)
http://www.kevinsheppard.com

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal with the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimers.

Redistributions in binary form must reproduce the above copyright notice, this

list of conditions and the following disclaimers in the documentation and/or other materials provided with the distribution.

Neither the names of Kevin Sheppard, nor the names of any contributors may be used to endorse or promote products derived from this Software without specific prior written permission.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE CONTRIBUTORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS WITH THE SOFTWARE.

3-Clause BSD License
Copyright (c) 2019 Kevin Sheppard. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Components

Many parts of this module have been derived from original sources,

often the algorithm's designer. Component licenses are located with
the component code.
NumPy

Copyright (c) 2005-2017, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

* Neither the name of the NumPy Developers nor the names of any
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julia

The ziggurat methods were derived from Julia.

Copyright (c) 2009-2019: Jeff Bezanson, Stefan Karpinski, Viral B. Shah,
and other contributors:

https://github.com/JuliaLang/julia/contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the NumPy Developers nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The NumPy repository and source distributions bundle several libraries that are

compatibly licensed. We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
 For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
 For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
 For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*
License: Zlib
 For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt

---

This binary distribution of NumPy also bundles the following software:

Name: GCC runtime library
Files: .dylibs/*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/viewcvs/gcc/
License: GPLv3 + runtime exception
 Copyright (C) 2002-2017 Free Software Foundation, Inc.

 Libgfortran is free software; you can redistribute it and/or modify
 it under the terms of the GNU General Public License as published by
 the Free Software Foundation; either version 3, or (at your option)
 any later version.

 Libgfortran is distributed in the hope that it will be useful,
 but WITHOUT ANY WARRANTY; without even the implied warranty of
 MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
 GNU General Public License for more details.

 Under Section 7 of GPL version 3, you are granted additional
 permissions described in the GCC Runtime Library Exception, version
 3.1, as published by the Free Software Foundation.

You should have received a copy of the GNU General Public License and
a copy of the GCC Runtime Library Exception along with this program;
see the files COPYING3 and COPYING.RUNTIME respectively. If not, see
<http://www.gnu.org/licenses/>.

Full text of license texts referred to above follows (that they are
listed below does not necessarily imply the conditions apply to the
present binary release):

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

Copyright (C) 2009 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.

This GCC Runtime Library Exception ("Exception") is an additional
permission under section 7 of the GNU General Public License, version
3 ("GPLv3"). It applies to a given file (the "Runtime Library") that
bears a notice placed by the copyright holder of the file stating that
the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of
certain GCC header files and runtime libraries with the compiled
program. The purpose of this Exception is to allow compilation of
non-GPL (including proprietary) programs to use, in this way, the
header files and runtime libraries covered by this Exception.

0. Definitions.

A file is an "Independent Module" if it either requires the Runtime
Library for execution after a Compilation Process, or makes use of an
interface provided by the Runtime Library, but is not otherwise based
on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without
modifications, governed by version 3 (or a specified later version) of
the GNU General Public License (GPL) with the option of using any
subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation,
modification and use would permit combination with GCC in accord with

the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different

permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
PCG64

The MIT License

PCG Random Number Generation for C.

Copyright 2014 Melissa O'Neill <oneill@pcg-random.org>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

To the extent possible under law, the author has dedicated all copyright
and related and neighboring rights to this software to the public domain
worldwide. This software is distributed without any warranty.

See <http://creativecommons.org/publicdomain/zero/1.0/>.
SFC64

The MIT License

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

Copyright (c) 2018 Melissa E. O'Neill

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MT19937

Copyright (c) 2003-2005, Jean-Sebastien Roy (js@jeannot.org)

The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work,

where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or

for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason

of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2005-2021, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the NumPy Developers nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.409 rich 13.4.2

1.409.1 Available under license :

Copyright (c) 2020 Will McGugan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Contributors

The following people have contributed to the development of Rich:

<!-- Add your name below, sort alphabetically by surname. Link to GitHub profile / your home page. -->

- [Patrick Arminio](https://github.com/patrick91)
- [Gregory Beauregard](https://github.com/GBeauregard/pyffstream)
- [Artur Borecki](https://github.com/pufereq)
- [Dennis Brakhane](https://github.com/brakhane)
- [Darren Burns](https://github.com/darrenburns)
- [Jim Crist-Harif](https://github.com/jcrist)
- [Ed Davis](https://github.com/davised)
- [Pete Davison](https://github.com/pd93)

- [James Estevez](https://github.com/jstvz)
- [Oleksis Fraga](https://github.com/oleksis)
- [Andy Gimblett](https://github.com/gimbo)
- [Micha Grny](https://github.com/mgorny)
- [Nok Lam Chan](https://github.com/noklam)
- [Leron Gray](https://github.com/daddycocoaman)
- [Andre Hora](https://github.com/andrehora)
- [Kenneth Hoste](https://github.com/boegel)
- [Lanqing Huang](https://github.com/lqhuang)
- [Finn Hughes](https://github.com/finnhughes)
- [Ionite](https://github.com/ionite34)
- [Josh Karpel](https://github.com/JoshKarpel)
- [Jan Katins](https://github.com/jankatins)
- [Hugo van Kemenade](https://github.com/hugovk)
- [Andrew Kettmann](https://github.com/akettmann)
- [Martin Larralde](https://github.com/althonos)
- [Hedy Li](https://github.com/hedythedev)
- [Luka Mamukashvili](https://github.com/UltraStudioLTD)
- [Alexander Mancevice](https://github.com/amancevice)
- [Will McGugan](https://github.com/willmcgugan)
- [Paul McGuire](https://github.com/ptmcg)
- [Antony Milne](https://github.com/AntonyMilneQB)
- [Michael Milton](https://github.com/multimeric)
- [Martina Oefelein](https://github.com/oefe)
- [Nathan Page](https://github.com/nathanrpage97)
- [Dave Pearson](https://github.com/davep/)
- [Avi Perl](https://github.com/avi-perl)
- [Laurent Peuch](https://github.com/psycojoker)
- [Ronny Pfannschmidt](https://github.com/RonnyPfannschmidt/)
- [Olivier Philippon](https://github.com/DrBenton)
- [Kylian Point](https://github.com/p0lux)
- [Kyle Pollina](https://github.com/kylepollina)
- [Sebastin Ramrez](https://github.com/tiangolo)
- [Felipe Guedes](https://github.com/guedesfelipe)
- [Min RK](https://github.com/minrk)
- [Clment Robert](https://github.com/neutrinoceros)
- [Brian Rutledge](https://github.com/bhrutledge)
- [Tushar Sadhwani](https://github.com/tusharsadhwani)
- [Paul Sanders](https://github.com/sanders41)
- [Tim Savage](https://github.com/timsavage)
- [Anthony Shaw](https://github.com/tonybaloney)
- [Nicolas Simonds](https://github.com/0xDEC0DE)
- [Aaron Stephens](https://github.com/aaronst)
- [Gabriele N. Tornetta](https://github.com/p403n1x87)
- [Nils Vu](https://github.com/nilsvu)
- [Arian Mollik Wasi](https://github.com/wasi-master)
- [Handhika Yanuar Pratama](https://github.com/theDreamer911)
- [za](https://github.com/za)

- [Motahhar Mokfi](https://github.com/motahhar)
- [Tomer Shalev](https://github.com/tomers)
- [Serkan UYSAL](https://github.com/uysalserkan)
- [Zhe Huang](https://github.com/onlyacat)
- [Adrian Zuber](https://github.com/xadrianzetx)
- [Ke Sun](https://github.com/ksun212)
- [Qiming Xu](https://github.com/xqm32)
- [James Addison](https://github.com/jayaddison)
- [Pierro](https://github.com/xpierroz)

1.410 ndfc-ndhttp 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.410.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.411 jcmturner-aescts 1.0.1

1.411.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.412 aws-sdk-go 1.43.21

1.412.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.413 sudo 1.9.13p3

1.413.1 Available under license :

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian

Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jindrk, Jaroslav
Jepeway, Chris
Jorge, Joel Pele
Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom

Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick

Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Shand, Will
Sieger, Nick
Simon, Thor Lancelot
Skoll, Dianne
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro

Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Doghonadze, Temuri
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Selimaj, Agron
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris

Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

Sudo is distributed under the following license:

Copyright (c) 1994-1996, 1998-2023
Todd C. Miller <Todd.Miller@sudo.ws>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Sponsored in part by the Defense Advanced Research Projects
Agency (DARPA) and Air Force Research Laboratory, Air Force
Materiel Command, USAF, under agreement number F39502-99-1-0512.

The Python plugin bindings bear the following license:

Copyright (c) 2019-2020 Robert Manner <robert.manner@oneidentity.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files hostcheck.c and hostcheck.h bear the following license:

Copyright (c) 2020 Laszlo Orban <laszlo.orban@oneidentity.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file redblack.c bears the following license:

Copyright (c) 2001 Emin Martinian

Redistribution and use in source and binary forms, with or without modification, are permitted provided that neither the name of Emin Martinian nor the names of any contributors are be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file sssd.c bears the following license:

Copyright (c) 2011 Daniel Kopecek <dkopecek@redhat.com>

This code is derived from software contributed by Aaron Spangler.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files bsm_audit.c and bsm_audit.h bear the following license:

Copyright (c) 2009 Christian S.J. Peron

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files solaris_audit.c and solaris_audit.h bear the following license:

Copyright (c) 2014, Oracle and/or its affiliates.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file reallocarray.c bears the following license:

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The files getcwd.c, glob.c, glob.h, snprintf.c and sudo_queue.h bear the following license:

Copyright (c) 1989, 1990, 1991, 1993
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file fnmatch.c bears the following license:

Copyright (c) 2011, VMware, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of the VMware, Inc. nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL VMWARE, INC. OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The file getopt_long.c bears the following license:

Copyright (c) 2000 The NetBSD Foundation, Inc.
All rights reserved.

This code is derived from software contributed to The NetBSD Foundation
by Dieter Baron and Thomas Klausner.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

The file inet_pton.c bears the following license:

Copyright (c) 1996 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file arc4random.c bears the following license:

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>
Copyright (c) 2013, Markus Friedl <markus@openbsd.org>
Copyright (c) 2014, Theo de Raadt <deraadt@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file arc4random_uniform.c bears the following license:

Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The file getentropy.c bears the following license:

Copyright (c) 2014 Theo de Raadt <deraadt@openbsd.org>
Copyright (c) 2014 Bob Beck <beck@obtuse.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The embedded copy of zlib bears the following license:

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The embedded copy of protobuf-c bears the following license:

Copyright (c) 2008-2022, Dave Benson and the protobuf-c authors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials
  provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.414 structured-merge-diff 4.2.3

1.414.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.415 pam 1.1.6

1.415.1 Available under license :

Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this libpamc release
may be distributed:

Redistribution and use in source and binary forms of libpamc,
with or without modification, are permitted provided that the
following conditions are met:

1. Redistributions of source code must retain any existing copyright
   notice, and this entire permission notice in its entirety,
   including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
   copyright notices, this list of conditions, and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. The name of any author may not be used to endorse or promote
   products derived from this software without their specific prior
   written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU Library General Public License (LGPL), in which case the
provisions of the GNU LGPL are required INSTEAD OF the above
restrictions. (This clause is necessary due to a potential conflict
between the GNU LGPL and the restrictions contained in a BSD-style
copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this Linux-PAM release
may be distributed:

Redistribution and use in source and binary forms of Linux-PAM, with
or without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain any existing copyright
  notice, and this entire permission notice in its entirety,
  including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
  copyright notices, this list of conditions, and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

3. The name of any author may not be used to endorse or promote
  products derived from this software without their specific prior
  written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU General Public License, in which case the provisions of the GNU
GPL are required INSTEAD OF the above restrictions. (This clause is
necessary due to a potential conflict between the GNU GPL and the
restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

1.416 xdg-go-stringprep 1.0.3

1.416.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.417 sim-mongostore 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.417.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from

this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.418 kr 1.1.8

1.418.1 Available under license :

No license file was found, but licenses were detected in source scan.

<name>Apache License 2.0</name>
<url>http://www.apache.org/licenses/LICENSE-2.0</url>

Found in path(s):
* /opt/cola/permits/1096671595_1608149607.79/0/spring-boot-rest-http-invoker-1-1-8-jar/META-INF/maven/kr.jclab.spring/spring-boot-rest-http-invoker/pom.xml

1.419 ndfc-minio 1.0.0-09febf14a19761273a7742bf9501b2d8886701d8

1.419.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright (c) 2020 Cisco and/or its affiliates.

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.420 libusb 1.0.19

1.420.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the

ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.421 freeipmi 1.10.1

1.421.1 Available under license :

Copyright (C) 2006-2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-221226

This file is part of Ipmiconsole, a set of IPMI 2.0 SOL libraries and

utilities. For details, see http://www.llnl.gov/linux/.

Ipmiconsole is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your
option) any later version.

Ipmiconsole is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License
along with Ipmiconsole; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the
University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".
Copyright (C) 2004-2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-155913

This file is part of Bmc-watchdog, a base management controller (BMC)
watchdog timer management tool. For details, see http://www.llnl.gov/linux/.

Bmc-Watchdog is free software; you can redistribute it and/or modify it under

the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your
option) any later version.

Bmc-Watchdog is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License
along with Bmc-Watchdog; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the
University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".
Copyright (C) 2006-2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-222073

This file is part of Ipmimonitoring, an IPMI sensor monitoring
library. For details, see http://www.llnl.gov/linux/.

Ipmimonitoring is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or (at
your option) any later version.

Ipmimonitoring is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with Ipmimonitoring; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the
University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".
Copyright (C) 2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-228523

This file is part of Ipmidetect, tools and libraries for detecting
IPMI nodes in a cluster. For details, see http://www.llnl.gov/linux/.

Ipmidetect is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your
option) any later version.

Ipmidetect is distributed in the hope that it will be useful, but WITHOUT

ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with Ipmidetect; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the U.S. Department of Energy (DOE). This work was produced at the University of California, Lawrence Livermore National Laboratory under Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights.

Also, reference herein to any specific commercial products, process, or services by trade name, trademark, manufacturer or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

The precise terms and conditions for copying, distribution and modification are specified in the file "COPYING".
Copyright (C) 2003-2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-155448

This file is part of Ipmiping, tools for pinging IPMI and RMCP compliant remote systems. For details, see http://www.llnl.gov/linux/.

Ipmiping is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

Ipmiping is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with Ipmiping; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the
University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".
Copyright (C) 2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-232183

This file is part of Ipmi-fru, a tool used for retrieving motherboard
field replaceable unit (FRU) information. For details, see
http://www.llnl.gov/linux/.

Ipmi-fru is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your
option) any later version.

Ipmi-fru is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License

along with Ipmi-fru; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the U.S. Department of Energy (DOE). This work was produced at the University of California, Lawrence Livermore National Laboratory under Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights.

Also, reference herein to any specific commercial products, process, or services by trade name, trademark, manufacturer or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes.

The precise terms and conditions for copying, distribution and modification are specified in the file "COPYING".
Copyright (C) 2003-2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-155698

This file is part of Ipmipower, a remote power control utility. For details, see http://www.llnl.gov/linux/.

Ipmipower is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

Ipmipower is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with Ipmipower; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the
University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".
Copyright (C) 2007 The Regents of the University of California.
Produced at Lawrence Livermore National Laboratory.
Written by Albert Chu <chu11@llnl.gov>
UCRL-CODE-227589

This file is part of pstdout, a library used to launch and manage the
standard output of multiple threads. For details, see
http://www.llnl.gov/linux/.

Pstdout is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 of the License, or (at your
option) any later version.

Pstdout is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License
along with Pstdout; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

This notice is required to be provided under our contract with the
U.S. Department of Energy (DOE). This work was produced at the

University of California, Lawrence Livermore National Laboratory under
Contract No. W-7405-ENG-48 with the DOE.

Neither the United States Government nor the University of California
nor any of their employees, makes any warranty, express or implied, or
assumes any liability or responsibility for the accuracy,
completeness, or usefulness of any information, apparatus, product, or
process disclosed, or represents that its use would not infringe
privately-owned rights.

Also, reference herein to any specific commercial products, process,
or services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or the University of
California. The views and opinions of authors expressed herein do not
necessarily state or reflect those of the United States Government or
the University of California, and shall not be used for advertising or
product endorsement purposes.

The precise terms and conditions for copying, distribution and
modification are specified in the file "COPYING".

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
.PP
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or (at
your option) any later version.
.PP
FreeIPMI is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the
Free Software Foundation; either version 3 of the License, or (at your
option) any later version.
.PP
This library is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or (at
your option) any later version.
This work was produced at the Lawrence Livermore National Laboratory
(LLNL) under Contract No. DE-AC52-07NA27344 (Contract 44) between
the U.S. Department of Energy (DOE) and Lawrence Livermore National
Security, LLC (LLNS) for the operation of LLNL.

This work was prepared as an account of work sponsored by an agency of
the United States Government. Neither the United States Government nor
Lawrence Livermore National Security, LLC nor any of their employees,
makes any warranty, express or implied, or assumes any liability or
responsibility for the accuracy, completeness, or usefulness of any

information, apparatus, product, or process disclosed, or represents
that its use would not infringe privately-owned rights.

Reference herein to any specific commercial products, process, or
services by trade name, trademark, manufacturer or otherwise does
not necessarily constitute or imply its endorsement, recommendation,
or favoring by the United States Government or Lawrence Livermore
National Security, LLC. The views and opinions of authors expressed
herein do not necessarily state or reflect those of the Untied States
Government or Lawrence Livermore National Security, LLC, and shall
not be used for advertising or product endorsement purposes.

The precise terms and conditions for copying, distribution, and
modification are specified in the file "COPYING".
The file libfreeipmi/driver/freeipmi_bmc_intf.h is from ipmitool
(http://sourceforge.net/projects/ipmitool) and comes with the
following license.

Copyright (c) 2003 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistribution of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistribution in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind.
ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES,
INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED.
SUN MICROSYSTEMS, INC. ("SUN") AND ITS LICENSORS SHALL NOT BE LIABLE
FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING
OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL
SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA,
OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR
PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF
LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE,
EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.422 readline 5.2

1.422.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion

of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates

the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.423 prometheus-client 0.2.0

1.423.1 Available under license :

The MIT License (MIT)

Copyright (c) 2017 tweede golf

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.424 utils 0.0.0-20221107191617-1a15be271d1d

1.424.1 Available under license :

Copyright (c) 2015, Emir Pasic
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

AVL Tree:

Copyright (c) 2017 Benjamin Scher Purcell <benjapurcell@gmail.com>

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.425 lzo 2.06-8.el7

1.425.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.426 sigs.k8s.io-json 0.0.0-20220713155537-f223a00ba0e2

1.426.1 Available under license :

Files other than internal/golang/* licensed under:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

---

internal/golang/* files licensed under:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.427 log-rotate 3.9.1

1.427.1 Available under license :

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation`s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author`s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors` reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone`s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program`s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a

consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program`s name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w`. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c`
for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that

you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the

notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED

TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.428 bzip2 1.0.6

1.428.1 Available under license :

This program, "bzip2" and associated library "libbzip2", are
copyright (C) 1996-2002 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

```
/*
  minibz2
    libbz2.dll test program.
    by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
    This file is Public Domain.  Welcome any email to me.

  usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
```

%%CreationDate: Wed Dec 22 1999
% Copyright (URW)++,Copyright 1999 by (URW)++ Design & Development
% (URW)++,Copyright 1999 by (URW)++ Design & Development
% See the file COPYING (GNU General Public License) for license conditions.
% As a special exception, permission is granted to include this font
% program in a Postscript or PDF file that consists of a document that
% contains text to be displayed or printed using this font, regardless
% of the conditions or license applying to the document itself.

/Notice ((URW)++,Copyright 1999 by (URW)++ Design & Development. See the file COPYING (GNU General Public License) for license conditions. As a special exception, permission is granted to include this font program in a Postscript or PDF file that consists of a document that contains text to be displayed or printed using this font, regardless of the conditions or license applying to the document itself.) readonly def
/Copyright (Copyright (URW)++,Copyright 1999 by (URW)++ Design & Development) readonly def

1.429 errors 0.9.1

1.429.1 Available under license :

Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.430 lsof 4.89

1.430.1 Available under license :

Found license 'General Public License 2.0' in '# This program/include file is free software; you can redistribute it and/or # modify it under the terms of the GNU General Public License as published # by the Free Software Foundation; either version 2 of the License, or # (at your option) any later version. # useful, but WITHOUT ANY WARRANTY; without even the implied warranty # of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the # GNU General Public License for more details. # You should have received a copy of the GNU General Public License # along with this program (in the main directory of the Linux-NTFS'
Found license 'General Public License 2.0' in '* 47907. All rights reserved. * Permission is granted to anyone to use this software for any purpose on * 1. Neither the authors nor Purdue University are responsible for any * 2. The origin of this software must not be misrepresented, either by * 3. Altered versions must be plainly marked as such, and must not be * 4. This notice may not be removed or altered. The GNU C Library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version. The GNU C Library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details. You should have received a copy of the GNU Library General Public License along with the GNU C Library; see the file COPYING.LIB. If not, Boston, MA 02111-1307, USA. */'

1.431 hashicorp-uuid 1.0.3

1.431.1 Available under license :

Copyright 2015-2022 HashiCorp, Inc.

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available,

modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software

under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are

reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.432 oklog-run 1.1.0

1.432.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.433 golang 1.20.5

1.433.1 Available under license :

The Go source code and supporting files in this directory
are covered by the usual Go license (see ../../../../LICENSE).

When building with GOEXPERIMENT=boringcrypto, the following applies.

The goboringcrypto_linux_amd64.syso object file is built
from BoringSSL source code by build/build.sh and is covered
by the BoringSSL license reproduced below and also at

https://boringssl.googlesource.com/boringssl/+/fips-20190808/LICENSE.

BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL licensing. Files that are completely new have a Google copyright and an ISC license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium: https://cla.developers.google.com/clas

Some files from Intel are under yet another license, which is also included underneath.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from some authors is recorded for use of their work. (This is purely for our own record keeping.)
27287199
27287880
27287883

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
```

```
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
```

```
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */

Some files from Intel carry the following license:

Copyright (c) 2012, Intel Corporation
#
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
#
* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
#
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the
distribution.
#
* Neither the name of the Intel Corporation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.
#
#
THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION ""AS IS"" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright 2010-2021 Mike Bostock

Permission to use, copy, modify, and/or distribute this software for any purpose
with or without fee is hereby granted, provided that the above copyright notice
and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.
People who have agreed to one of the CLAs and can contribute patches.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
https://developers.google.com/open-source/cla/individual
https://developers.google.com/open-source/cla/corporate
#
Names should be added to this file as:
Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
Andrew Hunter <andrewhhunter@gmail.com>
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2009-2017 Andrea Leofreddi <a.leofreddi@vleo.net>. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDERS OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those of the authors and should not be interpreted as representing official policies, either expressed or implied, of Andrea Leofreddi.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity

on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one

of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a

result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.434 selinux 3.0

1.434.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's

users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted

by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
This library (libselinux) is public domain software, i.e. not copyrighted.

Warranty Exclusion

You agree that this software is a
non-commercially developed program that may contain "bugs" (as that
term is used in the industry) and that it may not function as intended.
The software is licensed "as is". NSA makes no, and hereby expressly
disclaims all, warranties, express, implied, statutory, or otherwise
with respect to the software, including noninfringement and the implied
warranties of merchantability and fitness for a particular purpose.

Limitation of Liability

In no event will NSA be liable for any damages, including loss of data,
lost profits, cost of cover, or other special, incidental,
consequential, direct or indirect damages arising from the software or
the use thereof, however caused and on any theory of liability. This
limitation will apply even if NSA has been advised of the possibility
of such damage. You acknowledge that this is a reasonable allocation of
risk.

1.435 deejross-go-snmplib 0.0.0-20190126151901-0ff3fc321a43

1.435.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.436 glibc 2.22

1.436.1 Available under license :

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
``any later version'', you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

@center @b{NO WARRANTY}

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,

USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
This file contains the copying permission notices for various files in the GNU C Library distribution that have copyright owners other than the Free Software Foundation. These notices all require that a copy of the notice be included in the accompanying documentation and be distributed with binary distributions of the code, so be sure to include this file along with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC Berkeley, by Digital Equipment Corporation and by Internet Software Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS"

CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR
ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or
extensions that they make and grant Carnegie Mellon the rights to
redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND
CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized
Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

 The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form.
1. All terms of the all other applicable copyrights and licenses must be followed.
2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the

documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright
The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011 Simon Josefsson

This file is part of GNU Libidn.

GNU Libidn is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

GNU Libidn is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with GNU Libidn; if not, see <http://www.gnu.org/licenses/>.

The following notice applies to portions of libidn/nfkc.c:

This file contains functions from GLIB, including gutf8.c and
gunidecomp.c, all licensed under LGPL and copyright hold by:

Copyright (C) 1999, 2000 Tom Tromey
Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and
libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello.

Disclaimer and license: Regarding this entire document or any
portion of it (including the pseudocode and C code), the author
makes no guarantees and is not responsible for any damage resulting
from its use. The author grants irrevocable permission to anyone
to use, modify, and distribute it in any way that does not diminish
the rights of anyone else to use, modify, and distribute it,
provided that redistributed derivative works do not contain
misleading author or version information. Derivative works need
not be licensed under similar terms.

Copyright (C) The Internet Society (2003). All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works. However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of
developing Internet standards in which case the procedures for
copyrights defined in the Internet Standards process must be
followed, or as required to translate it into languages other than
English.

The limited permissions granted above are perpetual and will not be
revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an
"AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING
TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF

USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. In practice, this means that if you use
PCRE in software that you distribute to others, commercially or
otherwise, you must put a sentence like this

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant files or online help data or similar. A reference to the ftp site for the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not intended to apply to whole chains of software. If package A includes PCRE, it must acknowledge it, but if package B is software that includes package A, the condition is not imposed on package B (unless it uses PCRE independently).

3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL), then the terms of that licence shall supersede any condition above with which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew:

(C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

1. you do not pretend that you wrote it
2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, see
<http://www.gnu.org/licenses/>. */
Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF online code charts under the directory http://www.unicode.org/Public/. Software includes any source code published in the Unicode Standard or under the directories http://www.unicode.org/Public/, http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/.

NOTICE TO USER: Carefully read the following legal agreement. BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2013 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE

DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall
not be used in advertising or otherwise to promote the sale, use or other
dealings in these Data Files or Software without prior written authorization
of the copyright holder.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent.

An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other

conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item

MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item

Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains

nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents

released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve

its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document

specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document

under the terms of the GNU Free Documentation License, Version 1.3
or any later version published by the Free Software Foundation;
with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation. These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following
license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC
Berkeley, by Digital Equipment Corporation and by Internet Software
Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and
that the name of Digital Equipment Corporation not be used in
advertising or publicity pertaining to distribution of the document or
software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP.
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach,

derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its
documentation is hereby granted, provided that both the copyright
notice and this permission notice appear in all copies of the
software, derivative works or modified versions, and any portions
thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS"
CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR
ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or
extensions that they make and grant Carnegie Mellon the rights to
redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND
CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE

GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

The author(s) grant permission for redistribution and use in source and

binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled as not being for redistribution (check the version message and/or README), you are not permitted to redistribute that version of the software in any way or form.
1. All terms of the all other applicable copyrights and licenses must be followed.
2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright
The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011 Simon Josefsson

This file is part of GNU Libidn.

GNU Libidn is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

GNU Libidn is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with GNU Libidn; if not, see <http://www.gnu.org/licenses/>.

The following notice applies to portions of libidn/nfkc.c:

This file contains functions from GLIB, including gutf8.c and
gunidecomp.c, all licensed under LGPL and copyright hold by:

Copyright (C) 1999, 2000 Tom Tromey
Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and
libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello.

Disclaimer and license: Regarding this entire document or any
portion of it (including the pseudocode and C code), the author
makes no guarantees and is not responsible for any damage resulting
from its use. The author grants irrevocable permission to anyone
to use, modify, and distribute it in any way that does not diminish
the rights of anyone else to use, modify, and distribute it,
provided that redistributed derivative works do not contain
misleading author or version information. Derivative works need
not be licensed under similar terms.

Copyright (C) The Internet Society (2003). All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works. However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of
developing Internet standards in which case the procedures for

copyrights defined in the Internet Standards process must be
followed, or as required to translate it into languages other than
English.

The limited permissions granted above are perpetual and will not be
revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an
"AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING
TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. In practice, this means that if you use
PCRE in software that you distribute to others, commercially or
otherwise, you must put a sentence like this

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant
files or online help data or similar. A reference to the ftp site for
the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not
intended to apply to whole chains of software. If package A includes PCRE,
it must acknowledge it, but if package B is software that includes package
A, the condition is not imposed on package B (unless it uses PCRE
independently).

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
then the terms of that licence shall supersede any condition above with
which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew:

(C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

1. you do not pretend that you wrote it
2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, see
<http://www.gnu.org/licenses/>. */

1.437 grpc-gateway 1.16.0

1.437.1 Available under license :

Copyright (c) 2015, Gengo, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of Gengo, Inc. nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;

LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition,

"control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or,

within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all

other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.438 msgpack 1.0.3

1.438.1 Available under license :

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.439 logr 1.2.3

1.439.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.440 zlib 1.2.11

1.440.1 Available under license :

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT

SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
  version 1.2.11, January 15th, 2017

  Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

  This software is provided 'as-is', without any express or implied
  warranty.  In no event will the authors be held liable for any damages
  arising from the use of this software.

  Permission is granted to anyone to use this software for any purpose,
  including commercial applications, and to alter it and redistribute it
  freely, subject to the following restrictions:

  1. The origin of this software must not be misrepresented; you must not
     claim that you wrote the original software. If you use this software
     in a product, an acknowledgment in the product documentation would be
     appreciated but is not required.
  2. Altered source versions must be plainly marked as such, and must not be
     misrepresented as being the original software.
  3. This notice may not be removed or altered from any source distribution.

  Jean-loup Gailly        Mark Adler
  jloup@gzip.org          madler@alumni.caltech.edu


  The data format used by the zlib library is described by RFCs (Request for
  Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
  (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

1.441 libuser 0.62

1.441.1 Available under license :

```
                    GNU LIBRARY GENERAL PUBLIC LICENSE
                       Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL.  It is
numbered 2 because it goes with version 2 of the ordinary GPL.]
```

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this,

we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized

party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the

Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the

original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.442 openssh 8.0-p1

1.442.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components

are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]

```
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control.  As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.
```

[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in

your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)
ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)
The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
```

```
* This code is hereby placed in the public domain.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
* WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
* OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
* EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license,
held by the University of California, since we pulled these parts from
original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard

2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson
Roumen Petrov

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjl
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group
Daniel Walsh
Red Hat, Inc
Simon Vallet / Genoscope

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
```

```
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
 * "THE BEER-WARE LICENSE" (Revision 42):
 * <phk@login.dknet.dk> wrote this file.  As long as you retain this
 * notice you can do whatever you want with this stuff. If we meet
 * some day, and you think this stuff is worth it, you can buy me a
 * beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

```
Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

* Redistribution and use in source and binary forms, with or without
```

* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller
Reyk Floeter
Chad Mynhier

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE. *
* *
* Except as contained in this notice, the name(s) of the above copyright *
* holders shall not be used in advertising or otherwise to promote the *
* sale, use or other dealings in this Software without prior written *
* authorization. *
**********/

$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $

1.443 activation 1.1

1.443.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL

```
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)SecuritySupport.java 1.3 05/11/16
*
* Copyright 2002-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/SecuritySupport.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)CommandInfo.java 1.11 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/CommandInfo.java

No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)ImageViewerCanvas.java 1.3 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/ImageViewerCanvas.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
```

* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)DataContentHandlerFactory.java 1.6 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataContentHandlerFactory.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)URLDataSource.java 1.10 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/URLDataSource.java
No license file was found, but licenses were detected in source scan.

/*

```
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MailcapCommandMap.java 1.40 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MailcapCommandMap.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
```

* [name of copyright owner]
*/
/*
* @(#)MimeTypeParameterList.java 1.11 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimeTypeParameterList.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)CommandMap.java 1.19 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/CommandMap.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except

```
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MimeTypeParseException.java 1.6 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimeTypeParseException.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
```

* @(#)DataHandler.java 1.39 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataHandler.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)UnsupportedDataTypeException.java 1.9 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/UnsupportedDataTypeException.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at

* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)FileTypeMap.java 1.8 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/FileTypeMap.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MimeType.java 1.19 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.

```
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimeType.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MimeTypeEntry.java 1.4 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MimeTypeEntry.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
```

```
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)TextViewer.java 1.9 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/TextViewer.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)FileDataSource.java 1.9 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):

* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/FileDataSource.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)LogSupport.java 1.4 05/11/16
*
* Copyright 2002-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/LogSupport.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
```

```
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)DataContentHandler.java 1.16 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataContentHandler.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)ActivationDataFlavor.java 1.14 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/ActivationDataFlavor.java

No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MimeTypeFile.java 1.8 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MimeTypeFile.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
```

* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)TextEditor.java 1.8 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/TextEditor.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MailcapFile.java 1.23 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MailcapFile.java
No license file was found, but licenses were detected in source scan.

/*

```
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MailcapTokenizer.java 1.6 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MailcapTokenizer.java
No license file was found, but licenses were detected in source scan.

```
<!--

 The contents of this file are subject to the terms
 of the Common Development and Distribution License
 (the "License").  You may not use this file except
 in compliance with the License.

 You can obtain a copy of the license at
 glassfish/bootstrap/legal/CDDLv1.0.txt or
 https://glassfish.dev.java.net/public/CDDLv1.0.html.
 See the License for the specific language governing
 permissions and limitations under the License.

 When distributing Covered Code, include this CDDL
 HEADER in each file and include the License file at
 glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
 add the following below this CDDL HEADER, with the
 fields enclosed by brackets "[]" replaced with your
```

own identifying information: Portions Copyright [yyyy]
[name of copyright owner]

@(#)package.html 1.1 05/11/16

Copyright 2001-2005 Sun Microsystems, Inc. All Rights Reserved.

-->

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/package.html
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MailcapParseException.java 1.4 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/registries/MailcapParseException.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except

```
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)MimetypesFileTypeMap.java 1.17 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/MimetypesFileTypeMap.java
No license file was found, but licenses were detected in source scan.

```
/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License").  You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt.  If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
```

* @(#)DataSource.java 1.11 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/DataSource.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at
* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)ImageViewer.java 1.8 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/com/sun/activation/viewers/ImageViewer.java
No license file was found, but licenses were detected in source scan.

/*
* The contents of this file are subject to the terms
* of the Common Development and Distribution License
* (the "License"). You may not use this file except
* in compliance with the License.
*
* You can obtain a copy of the license at

* glassfish/bootstrap/legal/CDDLv1.0.txt or
* https://glassfish.dev.java.net/public/CDDLv1.0.html.
* See the License for the specific language governing
* permissions and limitations under the License.
*
* When distributing Covered Code, include this CDDL
* HEADER in each file and include the License file at
* glassfish/bootstrap/legal/CDDLv1.0.txt. If applicable,
* add the following below this CDDL HEADER, with the
* fields enclosed by brackets "[]" replaced with your
* own identifying information: Portions Copyright [yyyy]
* [name of copyright owner]
*/
/*
* @(#)CommandObject.java 1.9 05/11/16
*
* Copyright 1997-2005 Sun Microsystems, Inc. All Rights Reserved.
*/

Found in path(s):
* /opt/cola/permits/1200523838_1654022813.457056/0/activation-1-1-sources-11-jar/javax/activation/CommandObject.java

1.444 berkeley-db 6.0.30

1.444.1 Available under license :

/*-
* $Id: LICENSE,v 11.12 2004/03/30 20:49:44 bostic Exp $
*/

The following is the license that applies to this copy of the Berkeley DB software. For a license to use the Berkeley DB software under conditions other than those described here, or to purchase support for this software, please contact Sleepycat Software by email at info@sleepycat.com, or on the Web at http://www.sleepycat.com.

=-=-=-

```
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Redistributions in any form must be accompanied by information on
*    how to obtain complete source code for the DB software and any
*    accompanying software that uses the DB software.  The source code
*    must either be included in the distribution or be available for no
*    more than the cost of distribution plus a nominal fee, and must be
*    freely redistributable under reasonable conditions.  For an
*    executable file, complete source code means the source code for all
*    modules it contains.  It does not include source code for modules or
*    files that typically accompany the major components of the operating
*    system on which the executable file runs.
*
* THIS SOFTWARE IS PROVIDED BY SLEEPYCAT SOFTWARE "AS IS" AND ANY EXPRESS
* OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
* WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
* NON-INFRINGEMENT, ARE DISCLAIMED.  IN NO EVENT SHALL SLEEPYCAT SOFTWARE
* BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
*/
/*
* Copyright (c) 1990, 1993, 1994, 1995
* The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

```
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Copyright (c) 1995, 1996
* The President and Fellows of Harvard University.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/




/*-
* See the file LICENSE for redistribution information.
*
* Copyright (c) 1996, 2014 Oracle and/or its affiliates.  All rights reserved.
*/
/*
* Copyright (c) 1990, 1993, 1994, 1995, 1996
* Keith Bostic.  All rights reserved.
*/
/*
```

```
* Copyright (c) 1990, 1993, 1994, 1995
* The Regents of the University of California.  All rights reserved.
*
* This code is derived from software contributed to Berkeley by
* Mike Olson.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* $Id$
*/

#include "db_config.h"

#include "db_int.h"
#include "dbinc/blob.h"
#include "dbinc/crypto.h"
#include "dbinc/db_page.h"
#include "dbinc/db_swap.h"
#include "dbinc/btree.h"
#include "dbinc/lock.h"
#include "dbinc/mp.h"
#include "dbinc/partition.h"
#include "dbinc/fop.h"

static void __bam_init_meta __P((DB *, BTMETA *, db_pgno_t, DB_LSN *));
```

```
/*
* __bam_open --
* Open a btree.
*
* PUBLIC: int __bam_open __P((DB *, DB_THREAD_INFO *,
* PUBLIC:      DB_TXN *, const char *, db_pgno_t, u_int32_t));
*/
int
__bam_open(dbp, ip, txn, name, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 const char *name;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTREE *t;

 COMPQUIET(name, NULL);
 t = dbp->bt_internal;

 /*
  * We don't permit the user to specify a prefix routine if they didn't
  * also specify a comparison routine, they can't know enough about our
  * comparison routine to get it right.
  */
 if (t->bt_compare == __bam_defcmp && t->bt_prefix != __bam_defpfx) {
  __db_errx(dbp->env, DB_STR("1006",
"prefix comparison may not be specified for default comparison routine"));
  return (EINVAL);
 }

 /*
  * Verify that the bt_minkey value specified won't cause the
  * calculation of ovflsize to underflow [#2406] for this pagesize.
  */
 if (B_MINKEY_TO_OVFLSIZE(dbp, t->bt_minkey, dbp->pgsize) >
     B_MINKEY_TO_OVFLSIZE(dbp, DEFMINKEYPAGE, dbp->pgsize)) {
  __db_errx(dbp->env, DB_STR_A("1007",
      "bt_minkey value of %lu too high for page size of %lu",
      "%lu %lu"), (u_long)t->bt_minkey, (u_long)dbp->pgsize);
  return (EINVAL);
 }

 /* Start up the tree. */
 return (__bam_read_root(dbp, ip, txn, base_pgno, flags));
}
```

```
/*
* __bam_metachk --
*
* PUBLIC: int __bam_metachk __P((DB *, const char *, BTMETA *));
*/
int
__bam_metachk(dbp, name, btm)
 DB *dbp;
 const char *name;
 BTMETA *btm;
{
 ENV *env;
 u_int32_t vers;
 int ret;

 env = dbp->env;
 ret = 0;

 /*
  * At this point, all we know is that the magic number is for a Btree.
  * Check the version, the database may be out of date.
  */
 vers = btm->dbmeta.version;
 if (F_ISSET(dbp, DB_AM_SWAP))
  M_32_SWAP(vers);
 switch (vers) {
 case 6:
 case 7:
  __db_errx(env, DB_STR_A("1008",
      "%s: btree version %lu requires a version upgrade",
      "%s %lu"), name, (u_long)vers);
  return (DB_OLD_VERSION);
 case 8:
 case 9:
 case 10:
  break;
 default:
  __db_errx(env, DB_STR_A("1009",
      "%s: unsupported btree version: %lu", "%s %lu"),
      name, (u_long)vers);
  return (EINVAL);
 }

 /* Swap the page if we need to. */
 if (F_ISSET(dbp, DB_AM_SWAP) &&
     (ret = __bam_mswap(env, (PAGE *)btm)) != 0)
  return (ret);
```

```
/*
 * Check application info against metadata info, and set info, flags,
 * and type based on metadata info.
 */
if ((ret =
    __db_fchk(env, "DB->open", btm->dbmeta.flags, BTM_MASK)) != 0)
 return (ret);

if (F_ISSET(&btm->dbmeta, BTM_RECNO)) {
 if (dbp->type == DB_BTREE)
  goto wrong_type;
 dbp->type = DB_RECNO;
 DB_ILLEGAL_METHOD(dbp, DB_OK_RECNO);
} else {
 if (dbp->type == DB_RECNO)
  goto wrong_type;
 dbp->type = DB_BTREE;
 DB_ILLEGAL_METHOD(dbp, DB_OK_BTREE);
}

if (F_ISSET(&btm->dbmeta, BTM_DUP))
 F_SET(dbp, DB_AM_DUP);
else
 if (F_ISSET(dbp, DB_AM_DUP)) {
  __db_errx(env, DB_STR_A("1010",
 "%s: DB_DUP specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_RECNUM)) {
 if (dbp->type != DB_BTREE)
  goto wrong_type;
 F_SET(dbp, DB_AM_RECNUM);

 if ((ret = __db_fcchk(env,
     "DB->open", dbp->flags, DB_AM_DUP, DB_AM_RECNUM)) != 0)
  return (ret);
} else
 if (F_ISSET(dbp, DB_AM_RECNUM)) {
  __db_errx(env, DB_STR_A("1011",
    "%s: DB_RECNUM specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

if (F_ISSET(&btm->dbmeta, BTM_FIXEDLEN)) {
 if (dbp->type != DB_RECNO)
```

```
  goto wrong_type;
 F_SET(dbp, DB_AM_FIXEDLEN);
 } else
 if (F_ISSET(dbp, DB_AM_FIXEDLEN)) {
  __db_errx(env, DB_STR_A("1012",
"%s: DB_FIXEDLEN specified to open method but not set in database",
  "%s"), name);
  return (EINVAL);
 }

 if (F_ISSET(&btm->dbmeta, BTM_RENUMBER)) {
 if (dbp->type != DB_RECNO)
  goto wrong_type;
 F_SET(dbp, DB_AM_RENUMBER);
 } else
 if (F_ISSET(dbp, DB_AM_RENUMBER)) {
  __db_errx(env, DB_STR_A("1013",
    "%s: DB_RENUMBER specified to open method but not set in database",
      "%s"), name);
  return (EINVAL);
 }

 if (F_ISSET(&btm->dbmeta, BTM_SUBDB))
 F_SET(dbp, DB_AM_SUBDB);
 else
 if (F_ISSET(dbp, DB_AM_SUBDB)) {
  __db_errx(env, DB_STR_A("1014",
    "%s: multiple databases specified but not supported by file",
      "%s"), name);
  return (EINVAL);
 }

 if (F_ISSET(&btm->dbmeta, BTM_DUPSORT)) {
 if (dbp->dup_compare == NULL)
  dbp->dup_compare = __bam_defcmp;
 F_SET(dbp, DB_AM_DUPSORT);
 } else
 if (dbp->dup_compare != NULL) {
  __db_errx(env, DB_STR_A("1015",
 "%s: duplicate sort specified but not supported in database",
      "%s"), name);
  return (EINVAL);
 }

#ifdef HAVE_COMPRESSION
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
 F_SET(dbp, DB_AM_COMPRESS);
 if ((BTREE *)dbp->bt_internal != NULL &&
```

```
      !DB_IS_COMPRESSED(dbp) &&
      (ret = __bam_set_bt_compress(dbp, NULL, NULL)) != 0)
   return (ret);
 } else {
  if ((BTREE *)dbp->bt_internal != NULL &&
      DB_IS_COMPRESSED(dbp)) {
   __db_errx(env, DB_STR_A("1016",
 "%s: compresssion specified to open method but not set in database",
       "%s"), name);
   return (EINVAL);
  }
 }
#else
 if (F_ISSET(&btm->dbmeta, BTM_COMPRESS)) {
  __db_errx(env, DB_STR_A("1017",
      "%s: compression support has not been compiled in", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Set the page size. */
 dbp->pgsize = btm->dbmeta.pagesize;

 dbp->blob_threshold = btm->blob_threshold;
 GET_BLOB_FILE_ID(env, btm, dbp->blob_file_id, ret);
 if (ret != 0)
  return (ret);
 GET_BLOB_SDB_ID(env, btm, dbp->blob_sdb_id, ret);
 if (ret != 0)
  return (ret);
 /* Blob databases must be upgraded. */
 if (vers == 9 && (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0)) {
     __db_errx(env, DB_STR_A("1207",
"%s: databases that support blobs must be upgraded.", "%s"),
      name);
  return (EINVAL);
 }
#ifndef HAVE_64BIT_TYPES
 if (dbp->blob_file_id != 0 || dbp->blob_sdb_id != 0) {
  __db_errx(env, DB_STR_A("1199",
      "%s: blobs require 64 integer compiler support.", "%s"),
      name);
  return (EINVAL);
 }
#endif

 /* Copy the file's ID. */
```

```
 memcpy(dbp->fileid, btm->dbmeta.uid, DB_FILE_ID_LEN);

 return (0);

wrong_type:
 if (dbp->type == DB_BTREE)
  __db_errx(env, DB_STR("1018",
      "open method type is Btree, database type is Recno"));
 else
  __db_errx(env, DB_STR("1019",
      "open method type is Recno, database type is Btree"));
 return (EINVAL);
}

/*
* __bam_read_root --
* Read the root page and check a tree.
*
* PUBLIC: int __bam_read_root __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, db_pgno_t, u_int32_t));
*/
int
__bam_read_root(dbp, ip, txn, base_pgno, flags)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 db_pgno_t base_pgno;
 u_int32_t flags;
{
 BTMETA *meta;
 BTREE *t;
 DBC *dbc;
 DB_LOCK metalock;
 DB_MPOOLFILE *mpf;
 int ret, t_ret;

 COMPQUIET(flags, 0);

 meta = NULL;
 t = dbp->bt_internal;
 LOCK_INIT(metalock);
 mpf = dbp->mpf;
 ret = 0;

 /* Get a cursor.  */
 if ((ret = __db_cursor(dbp, ip, txn, &dbc,
     F_ISSET(dbp, DB_AM_RECOVER) ? DB_RECOVER : 0)) != 0)
  return (ret);
```

```
/* Get the metadata page. */
if ((ret =
    __db_lget(dbc, 0, base_pgno, DB_LOCK_READ, 0, &metalock)) != 0)
 goto err;
if ((ret = __memp_fget(mpf, &base_pgno, ip, dbc->txn, 0, &meta)) != 0)
 goto err;

/*
 * If the magic number is set, the tree has been created.  Correct
 * any fields that may not be right.  Note, all of the local flags
 * were set by DB->open.
 *
 * Otherwise, we'd better be in recovery or abort, in which case the
 * metadata page will be created/initialized elsewhere.
 *
 * Ignore the last_pgno on the metadata page for snapshot transactions:
 * we may be reading an old version of the page, and we've already
 * set last_pgno from the file size.  The only time this would matter
 * is if we don't have ftruncate and there are some free pages at the
 * end of the file: we could end up with holes.
 */
if (meta->dbmeta.magic == DB_BTREEMAGIC) {
 t->bt_minkey = meta->minkey;
 t->re_pad = (int)meta->re_pad;
 t->re_len = meta->re_len;

 t->bt_meta = base_pgno;
 t->bt_root = meta->root;
 t->revision = dbp->mpf->mfp->revision;
 if (PGNO(meta) == PGNO_BASE_MD &&
     !F_ISSET(dbp, DB_AM_RECOVER) &&
     (txn == NULL || !F_ISSET(txn, TXN_SNAPSHOT)) && (ret =
     __memp_set_last_pgno(mpf, meta->dbmeta.last_pgno)) != 0)
  goto err;
} else {
 DB_ASSERT(dbp->env,
     IS_RECOVERING(dbp->env) || F_ISSET(dbp, DB_AM_RECOVER));
}

/*
 * !!!
 * If creating a subdatabase, we've already done an insert when
 * we put the subdatabase's entry into the master database, so
 * our last-page-inserted value is wrongly initialized for the
 * master database, not the subdatabase we're creating.  I'm not
 * sure where the *right* place to clear this value is, it's not
 * intuitively obvious that it belongs here.
```

```
  */
 t->bt_lpgno = PGNO_INVALID;

err: /* Put the metadata page back. */
 if (meta != NULL && (t_ret = __memp_fput(mpf,
     ip, meta, dbc->priority)) != 0 && ret == 0)
  ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;

 if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
  ret = t_ret;
 return (ret);
}

/*
* __bam_init_meta --
*
* Initialize a btree meta-data page.  The following fields may need
* to be updated later: last_pgno, root.
*/
static void
__bam_init_meta(dbp, meta, pgno, lsnp)
 DB *dbp;
 BTMETA *meta;
 db_pgno_t pgno;
 DB_LSN *lsnp;
{
 BTREE *t;
#ifdef HAVE_PARTITION
 DB_PARTITION *part;
#endif
 ENV *env;

 env = dbp->env;
 t = dbp->bt_internal;

 memset(meta, 0, sizeof(BTMETA));
 meta->dbmeta.lsn = *lsnp;
 meta->dbmeta.pgno = pgno;
 meta->dbmeta.magic = DB_BTREEMAGIC;
 meta->dbmeta.version = DB_BTREEVERSION;
 meta->dbmeta.pagesize = dbp->pgsize;
 if (F_ISSET(dbp, DB_AM_CHKSUM))
  FLD_SET(meta->dbmeta.metaflags, DBMETA_CHKSUM);
 if (F_ISSET(dbp, DB_AM_ENCRYPT)) {
  meta->dbmeta.encrypt_alg = env->crypto_handle->alg;
  DB_ASSERT(env, meta->dbmeta.encrypt_alg != 0);
```

```
  meta->crypto_magic = meta->dbmeta.magic;
 }
 meta->dbmeta.type = P_BTREEMETA;
 meta->dbmeta.free = PGNO_INVALID;
 meta->dbmeta.last_pgno = pgno;
 if (F_ISSET(dbp, DB_AM_DUP))
  F_SET(&meta->dbmeta, BTM_DUP);
 if (F_ISSET(dbp, DB_AM_FIXEDLEN))
  F_SET(&meta->dbmeta, BTM_FIXEDLEN);
 if (F_ISSET(dbp, DB_AM_RECNUM))
  F_SET(&meta->dbmeta, BTM_RECNUM);
 if (F_ISSET(dbp, DB_AM_RENUMBER))
  F_SET(&meta->dbmeta, BTM_RENUMBER);
 if (F_ISSET(dbp, DB_AM_SUBDB))
  F_SET(&meta->dbmeta, BTM_SUBDB);
 if (dbp->dup_compare != NULL)
  F_SET(&meta->dbmeta, BTM_DUPSORT);
#ifdef HAVE_COMPRESSION
 if (DB_IS_COMPRESSED(dbp))
  F_SET(&meta->dbmeta, BTM_COMPRESS);
#endif
 if (dbp->type == DB_RECNO)
  F_SET(&meta->dbmeta, BTM_RECNO);
 memcpy(meta->dbmeta.uid, dbp->fileid, DB_FILE_ID_LEN);

 meta->minkey = t->bt_minkey;
 meta->re_len = t->re_len;
 meta->re_pad = (u_int32_t)t->re_pad;
 meta->blob_threshold = dbp->blob_threshold;
 SET_BLOB_META_FILE_ID(meta, dbp->blob_file_id, BTMETA);
 SET_BLOB_META_SDB_ID(meta, dbp->blob_sdb_id, BTMETA);

#ifdef HAVE_PARTITION
 if ((part = dbp->p_internal) != NULL) {
  meta->dbmeta.nparts = part->nparts;
  if (F_ISSET(part, PART_CALLBACK))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_CALLBACK);
  if (F_ISSET(part, PART_RANGE))
   FLD_SET(meta->dbmeta.metaflags, DBMETA_PART_RANGE);
 }
#endif
}

/*
* __bam_new_file --
* Create the necessary pages to begin a new database file.
*
* This code appears more complex than it is because of the two cases (named
```

```
* and unnamed).  The way to read the code is that for each page being created,
* there are three parts: 1) a "get page" chunk (which either uses malloc'd
* memory or calls __memp_fget), 2) the initialization, and 3) the "put page"
* chunk which either does a fop write or an __memp_fput.
*
* PUBLIC: int __bam_new_file __P((DB *,
* PUBLIC:      DB_THREAD_INFO *, DB_TXN *, DB_FH *, const char *));
*/
int
__bam_new_file(dbp, ip, txn, fhp, name)
 DB *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
 DB_FH *fhp;
 const char *name;
{
 BTMETA *meta;
 DBT pdbt;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 DB_PGINFO pginfo;
 ENV *env;
 PAGE *root;
 db_pgno_t pgno;
 int ret, t_ret;
 void *buf;

 env = dbp->env;
 mpf = dbp->mpf;
 root = NULL;
 meta = NULL;
 buf = NULL;

 if (F_ISSET(dbp, DB_AM_INMEM)) {
  /* Build the meta-data page. */
  pgno = PGNO_BASE_MD;
  if ((ret = __memp_fget(mpf, &pgno,
      ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
   return (ret);
  LSN_NOT_LOGGED(lsn);
  __bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
  meta->root = 1;
  meta->dbmeta.last_pgno = 1;
  if ((ret =
      __db_log_page(dbp, txn, &lsn, pgno, (PAGE *)meta)) != 0)
   goto err;
  ret = __memp_fput(mpf, ip, meta, dbp->priority);
  meta = NULL;
```

```
if (ret != 0)
 goto err;

/* Build the root page. */
pgno = 1;
if ((ret = __memp_fget(mpf, &pgno,
    ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &root)) != 0)
 goto err;
P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
    LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
LSN_NOT_LOGGED(root->lsn);
if ((ret =
    __db_log_page(dbp, txn, &root->lsn, pgno, root)) != 0)
 goto err;
ret = __memp_fput(mpf, ip, root, dbp->priority);
root = NULL;
if (ret != 0)
 goto err;
} else {
memset(&pdbt, 0, sizeof(pdbt));

/* Build the meta-data page. */
pginfo.db_pagesize = dbp->pgsize;
pginfo.flags =
    F_ISSET(dbp, (DB_AM_CHKSUM | DB_AM_ENCRYPT | DB_AM_SWAP));
pginfo.type = dbp->type;
pdbt.data = &pginfo;
pdbt.size = sizeof(pginfo);
if (dbp->blob_threshold) {
 if ((ret = __blob_generate_dir_ids(dbp, txn,
     &dbp->blob_file_id)) != 0)
  return (ret);

}
if ((ret = __os_calloc(env, 1, dbp->pgsize, &buf)) != 0)
 return (ret);
meta = (BTMETA *)buf;
LSN_NOT_LOGGED(lsn);
__bam_init_meta(dbp, meta, PGNO_BASE_MD, &lsn);
meta->root = 1;
meta->dbmeta.last_pgno = 1;
if ((ret = __db_pgout(
    dbp->dbenv, PGNO_BASE_MD, meta, &pdbt)) != 0)
 goto err;
if ((ret = __fop_write(env, txn, name, dbp->dirname,
    DB_APP_DATA, fhp,
    dbp->pgsize, 0, 0, buf, dbp->pgsize, 1, F_ISSET(
    dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
```

```
   goto err;
  meta = NULL;

  /* Build the root page. */
#ifdef DIAGNOSTIC
  memset(buf, CLEAR_BYTE, dbp->pgsize);
#endif
  root = (PAGE *)buf;
  P_INIT(root, dbp->pgsize, 1, PGNO_INVALID, PGNO_INVALID,
      LEAFLEVEL, dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE);
  LSN_NOT_LOGGED(root->lsn);
  if ((ret =
      __db_pgout(dbp->dbenv, root->pgno, root, &pdbt)) != 0)
   goto err;
  if ((ret =
      __fop_write(env, txn, name, dbp->dirname, DB_APP_DATA,
      fhp, dbp->pgsize, 1, 0, buf, dbp->pgsize, 1, F_ISSET(
      dbp, DB_AM_NOT_DURABLE) ? DB_LOG_NOT_DURABLE : 0)) != 0)
   goto err;
  root = NULL;
 }

err: if (buf != NULL)
  __os_free(env, buf);
 else {
  if (meta != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      meta, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
  if (root != NULL &&
      (t_ret = __memp_fput(mpf, ip,
      root, dbp->priority)) != 0 && ret == 0)
   ret = t_ret;
 }
 return (ret);
}

/*
* __bam_new_subdb --
* Create a metadata page and a root page for a new btree.
*
* PUBLIC: int __bam_new_subdb __P((DB *, DB *, DB_THREAD_INFO *, DB_TXN *));
*/
int
__bam_new_subdb(mdbp, dbp, ip, txn)
 DB *mdbp, *dbp;
 DB_THREAD_INFO *ip;
 DB_TXN *txn;
```

```
{
 BTMETA *meta;
 DBC *dbc;
 DB_LOCK metalock;
 DB_LSN lsn;
 DB_MPOOLFILE *mpf;
 ENV *env;
 PAGE *root;
 int ret, t_ret;

 env = mdbp->env;
 mpf = mdbp->mpf;
 dbc = NULL;
 meta = NULL;
 root = NULL;

 if (dbp->blob_threshold) {
  if ((ret = __blob_generate_dir_ids(dbp, txn,
      &dbp->blob_sdb_id)) != 0)
   return (ret);
 }

 if ((ret = __db_cursor(mdbp, ip, txn,
     &dbc, CDB_LOCKING(env) ?  DB_WRITECURSOR : 0)) != 0)
  return (ret);

 /* Get, and optionally create the metadata page. */
 if ((ret = __db_lget(dbc,
     0, dbp->meta_pgno, DB_LOCK_WRITE, 0, &metalock)) != 0)
  goto err;
 if ((ret = __memp_fget(mpf, &dbp->meta_pgno,
     ip, txn, DB_MPOOL_CREATE | DB_MPOOL_DIRTY, &meta)) != 0)
  goto err;

 /* Build meta-data page. */
 lsn = meta->dbmeta.lsn;
 __bam_init_meta(dbp, meta, dbp->meta_pgno, &lsn);
 if ((ret = __db_log_page(mdbp,
     txn, &meta->dbmeta.lsn, dbp->meta_pgno, (PAGE *)meta)) != 0)
  goto err;

 /* Create and initialize a root page. */
 if ((ret = __db_new(dbc,
     dbp->type == DB_RECNO ? P_LRECNO : P_LBTREE, NULL, &root)) != 0)
  goto err;
 root->level = LEAFLEVEL;

 if (DBENV_LOGGING(env) &&
```

```
#if !defined(DEBUG_WOP)
    txn != NULL &&
#endif

    (ret = __bam_root_log(mdbp, txn, &meta->dbmeta.lsn, 0,
    meta->dbmeta.pgno, root->pgno, &meta->dbmeta.lsn)) != 0)
  goto err;

 meta->root = root->pgno;
 if ((ret =
    __db_log_page(mdbp, txn, &root->lsn, root->pgno, root)) != 0)
  goto err;

 /* Release the metadata and root pages. */
 if ((ret = __memp_fput(mpf, ip, meta, dbc->priority)) != 0)
  goto err;
 meta = NULL;
 if ((ret = __memp_fput(mpf, ip, root, dbc->priority)) != 0)
  goto err;
 root = NULL;
err:
 if (meta != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  meta, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if (root != NULL)
  if ((t_ret = __memp_fput(mpf, ip,
  root, dbc->priority)) != 0 && ret == 0)
   ret = t_ret;
 if ((t_ret = __LPUT(dbc, metalock)) != 0 && ret == 0)
  ret = t_ret;
 if (dbc != NULL)
  if ((t_ret = __dbc_close(dbc)) != 0 && ret == 0)
   ret = t_ret;
 return (ret);
}
```

1.445 kubernetes-klog 2.40.1

1.445.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along

with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to

damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.446 commons-net 3.9.0

1.446.1 Available under license :

Apache Commons Net
Copyright 2001-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.447 util-linux 2.26.0

1.447.1 Available under license :

```
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

*/
NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no

permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the

Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright

holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation

(including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <https://www.gnu.org/licenses/why-not-lgpl.html>.
WEV @@ WEV[B "1

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of

it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the

original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, and the entire permission notice in its entirety,
including the disclaimer of warranties.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.448 sqlite 3.8.10.2

1.448.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
```

```
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
```

```
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^The SQLITE_CONFIG_SCRATCH option specifies a static memory buffer
** that SQLite can use for scratch memory.  ^(There are three arguments
** to SQLITE_CONFIG_SCRATCH:  A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc|heap allocations].
** This can help [Robson proof|prevent memory allocation failures] due to heap
** fragmentation in low-memory embedded systems.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
```

```
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
** to [sqlite3_config()].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The first
** argument should pointer to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache.  ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
```

```
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
```

```
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
```

```
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
** </dl>
*/
```

```
/*
** The "printf" code that follows dates from the 1980's.  It is in
** the public domain.
**
**************************************************************************
**
** This file contains code for a set of "printf"-like routines.  These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
*/
/*
** 2004 May 22
**
** The author disclaims copyright to this source code.  In place of
** a legal notice, here is a blessing:
**
**    May you do good and not evil.
**    May you find forgiveness for yourself and forgive others.
**    May you share freely, never taking more than you give.
**
***************************************************************************
**
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done.  The default
** implementation uses Posix Advisory Locks.  Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division.  PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT.  New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
**   *  General-purpose declarations and utility functions.
**   *  Unique file ID logic used by VxWorks.
**   *  Various locking primitive implementations (all except proxy locking):
**      + for Posix Advisory Locks
**      + for no-op locks
**      + for dot-file locks
**      + for flock() locking
**      + for named semaphore locks (VxWorks only)
**      + for AFP filesystem locks (MacOSX only)
```

```
**   *  sqlite3_file methods not associated with locking.
**   *  Definitions of sqlite3_io_methods objects for all locking
**      methods plus "finder" functions for each locking method.
**   *  sqlite3_vfs method implementations.
**   *  Locking primitives for the proxy uber-locking-method. (MacOSX only)
**   *  Definitions of sqlite3_vfs objects for all locking methods
**      plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
/*
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/
/*
** Advance the cursor to the next entry in the database.  If
** successful then set *pRes=0.  If the cursor
** was already pointing to the last entry in the database before
** this routine was called, then set *pRes=1.
**
** The main entry point is sqlite3BtreeNext().  That routine is optimized
** for the common case of merely incrementing the cell counter BtCursor.aiIdx
** to the next cell on the current page.  The (slower) btreeNext() helper
** routine is called when it is necessary to move to a different page or
** to restore the cursor.
**
** The calling function will set *pRes to 0 or 1.  The initial *pRes value
** will be 1 if the cursor being stepped corresponds to an SQL index and
** if this routine could have been skipped if that SQL index had been
** a unique index.  Otherwise the caller will have set *pRes to zero.
** Zero is the common case. The btree implementation is free to use the
** initial *pRes value as a hint to improve performance, but the current
** SQLite btree implementation does not. (Note that the comdb2 btree
** implementation does use this hint, however.)
*/
```

Found in path(s):
* /opt/cola/permits/103215794_1646171445.15/0/sqlite-amalgamation-201507162017-zip/sqlite3.c
No license file was found, but licenses were detected in source scan.

```
/*
** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
```

```
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued.  Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked.  The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** <dl>
** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Single-thread.  In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Multi-thread.  In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements].  But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time.  ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>There are no arguments to this option.  ^This option sets the
** [threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
```

```
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_MALLOC option takes a single argument which is
** a pointer to an instance of the [sqlite3_mem_methods] structure.
** The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GETMALLOC]] <dt>SQLITE_CONFIG_GETMALLOC</dt>
** <dd> ^(The SQLITE_CONFIG_GETMALLOC option takes a single argument which
** is a pointer to an instance of the [sqlite3_mem_methods] structure.
** The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^
** This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^The SQLITE_CONFIG_MEMSTATUS option takes single argument of type int,
** interpreted as a boolean, which enables or disables the collection of
** memory allocation statistics. ^(When memory allocation statistics are
** disabled, the following SQLite interfaces become non-operational:
**   <ul>
**   <li> [sqlite3_memory_used()]
**   <li> [sqlite3_memory_highwater()]
**   <li> [sqlite3_soft_heap_limit64()]
**   <li> [sqlite3_status64()]
**   </ul>)^
** ^Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
** allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^The SQLITE_CONFIG_SCRATCH option specifies a static memory buffer
** that SQLite can use for scratch memory.  ^(There are three arguments
** to SQLITE_CONFIG_SCRATCH:  A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N).)^
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will not use more than one scratch buffers per thread.
** ^SQLite will never request a scratch buffer that is more than 6
** times the database page size.
```

```
** ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.<p>
** ^When the application provides any amount of scratch memory using
** SQLITE_CONFIG_SCRATCH, SQLite avoids unnecessary large
** [sqlite3_malloc|heap allocations].
** This can help [Robson proof|prevent memory allocation failures] due to heap
** fragmentation in low-memory embedded systems.
** </dd>
**
** [[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^The SQLITE_CONFIG_PAGECACHE option specifies a static memory buffer
** that SQLite can use for the database page cache with the default page
** cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the [SQLITE_CONFIG_PCACHE2]
** configuration option.
** ^There are three arguments to SQLITE_CONFIG_PAGECACHE: A pointer to
** 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 65536) plus some extra bytes for each
** page header.  ^The number of extra bytes needed by the page header
** can be determined using the [SQLITE_CONFIG_PCACHE_HDRSZ] option
** to [sqlite3_config()].
** ^It is harmless, apart from the wasted memory,
** for the sz parameter to be larger than necessary.  The first
** argument should pointer to an 8-byte aligned block of memory that
** is at least sz*N bytes of memory, otherwise subsequent behavior is
** undefined.
** ^SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache.  ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.</dd>
**
** [[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^The SQLITE_CONFIG_HEAP option specifies a static memory buffer
** that SQLite will use for all of its dynamic memory allocation needs
** beyond those provided for by [SQLITE_CONFIG_SCRATCH] and
** [SQLITE_CONFIG_PAGECACHE].
** ^The SQLITE_CONFIG_HEAP option is only available if SQLite is compiled
** with either [SQLITE_ENABLE_MEMSYS3] or [SQLITE_ENABLE_MEMSYS5] and returns
** [SQLITE_ERROR] if invoked otherwise.
** ^There are three arguments to SQLITE_CONFIG_HEAP:
** An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
```

```
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC].  ^If the
** memory pointer is not NULL then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_MUTEX option takes a single argument which is a
** pointer to an instance of the [sqlite3_mutex_methods] structure.
** The argument specifies alternative low-level mutex routines to be used
** in place the mutex routines built into SQLite.)^  ^SQLite makes a copy of
** the content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(The SQLITE_CONFIG_GETMUTEX option takes a single argument which
** is a pointer to an instance of the [sqlite3_mutex_methods] structure.  The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example.   ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>
**
** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(The SQLITE_CONFIG_LOOKASIDE option takes two arguments that determine
** the default size of lookaside memory on each [database connection].
** The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^  ^(SQLITE_CONFIG_LOOKASIDE
** sets the <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** option to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>
**
** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_PCACHE2 option takes a single argument which is
** a pointer to an [sqlite3_pcache_methods2] object.  This object specifies
** the interface to a custom page cache implementation.)^
** ^SQLite makes a copy of the [sqlite3_pcache_methods2] object.</dd>
```

```
**
** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(The SQLITE_CONFIG_GETPCACHE2 option takes a single argument which
** is a pointer to an [sqlite3_pcache_methods2] object.  SQLite copies of
** the current page cache implementation into that object.)^ </dd>
**
** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()] to process each logging event.  ^If the
** function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked.  ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()] call and is intended to be a [result code] or an
** [extended result code].  ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()].
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. </dd>
**
** [[SQLITE_CONFIG_URI]] <dt>SQLITE_CONFIG_URI
** <dd>^(The SQLITE_CONFIG_URI option takes a single argument of type int.
** If non-zero, then URI handling is globally enabled. If the parameter is zero,
** then URI handling is globally disabled.)^ ^If URI handling is globally
** enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()],
** [sqlite3_open16()] or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. ^If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. ^(By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.)^
**
** [[SQLITE_CONFIG_COVERING_INDEX_SCAN]] <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd>^The SQLITE_CONFIG_COVERING_INDEX_SCAN option takes a single integer
** argument which is interpreted as a boolean in order to enable or disable
** the use of covering indices for full table scans in the query optimizer.
** ^The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
```

```
** is because some incorrectly coded legacy applications might malfunction
** when the optimization is enabled.  Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.
**
** [[SQLITE_CONFIG_PCACHE]] [[SQLITE_CONFIG_GETPCACHE]]
** <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** </dd>
**
** [[SQLITE_CONFIG_SQLLOG]]
** <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case.  An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>^SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** ^The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control.  ^(The maximum allowed mmap size
** will be silently truncated if necessary so that it does not exceed the
** compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.)^
** ^If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**
** [[SQLITE_CONFIG_WIN32_HEAPSIZE]]
** <dt>SQLITE_CONFIG_WIN32_HEAPSIZE
** <dd>^The SQLITE_CONFIG_WIN32_HEAPSIZE option is only available if SQLite is
** compiled for Windows with the [SQLITE_WIN32_MALLOC] pre-processor macro
** defined. ^SQLITE_CONFIG_WIN32_HEAPSIZE takes a 32-bit unsigned integer value
** that specifies the maximum size of the created heap.
```

```
**
** [[SQLITE_CONFIG_PCACHE_HDRSZ]]
** <dt>SQLITE_CONFIG_PCACHE_HDRSZ
** <dd>^The SQLITE_CONFIG_PCACHE_HDRSZ option takes a single parameter which
** is a pointer to an integer and writes into that integer the number of extra
** bytes per page required for each page in [SQLITE_CONFIG_PAGECACHE].
** The amount of extra space required can change depending on the compiler,
** target platform, and SQLite version.
**
** [[SQLITE_CONFIG_PMASZ]]
** <dt>SQLITE_CONFIG_PMASZ
** <dd>^The SQLITE_CONFIG_PMASZ option takes a single parameter which
** is an unsigned integer and sets the "Minimum PMA Size" for the multithreaded
** sorter to that integer.  The default minimum PMA Size is set by the
** [SQLITE_SORTER_PMASZ] compile-time option.  New threads are launched
** to help with sort operations when multithreaded sorting
** is enabled (using the [PRAGMA threads] command) and the amount of content
** to be sorted exceeds the page size times the minimum of the
** [PRAGMA cache_size] setting and this value.
** </dl>
*/
```

Found in path(s):
* /opt/cola/permits/103215794_1646171445.15/0/sqlite-amalgamation-201507162017-zip/sqlite3.h

1.449 distlib 0.3.0

1.449.1 Available under license :

```
A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
```

Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes

3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND

DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and

conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
==========
Distutils2 Contributors
==========

The Distutils2 project was started by Tarek Ziad and is currently
maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order,
and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martn Brugu
- Nicolas Cadou

- Godefroid Chapelle
- Julien Courteau
- Christophe Combelles
- Jason R. Coombs
- Pierre-Yves David
- Ned Deily
- Konrad Delong
- Josip Djolonga
- John Edmonds
- Andr Espaze
- Boris Feld
- Andrew Francis
- Hallvard B Furuseth
- Patrice Gauthier
- Yannick Gingras
- Filip Gruszczyski
- Walker Hale IV
- Alexandre Hamelin
- Kelsey Hightower
- Thomas Holmes
- Preston Holmes
- Christian Hudon
- Julien Jehannet
- Jeremy Kloth
- Thomas Kluyver
- Amos Latteier
- Mathieu Leduc-Hamel
- Pierre Paul Lefebvre
- Tshepang Lekhonkhobe
- Alain Leufroy
- Janusz Lewandowski
- Martin von Lwis
- Hugo Lopes Tavares
- Guillermo Lpez-Anglada
- Justin Love
- Simon Mathieu
- Carl Meyer
- Alexis Mtaireau
- Julien Miotte
- Zubin Mithra
- Derek McTavish Mounce
- Paul Moore
- Michael Mulich
- Louis Munro
- Gal Pasgrimaud
- George Peristerakis
- Mathieu Perreault
- Guillaume Pratte

- Sean Reifschneider
- Antoine Reversat
- Arc Riley
- C. Anthony Risinger
- Elson Rodriguez
- Luis Rojas
- Erik Rose
- Brian Rosner
- Vinay Sajip
- Victor Stinner
- Alexandre Vassalotti
- Nadeem Vawda

Copyright (C) 2013 by Test User.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Vinay Sajip
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.

VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN
AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
BSD-licensed.

1.450 purell 1.1.1

1.450.1 Available under license :

Copyright (c) 2012, Martin Angers
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.451 go-sockaddr 1.0.2

1.451.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in

the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.452 perks 1.0.1

1.452.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., <http://fsf.org/>
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

{description}
Copyright (C) {year} {fullname}

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.453 lrzsz 0.12.20

1.453.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This is the Debian GNU/Linux prepackaged version of lrzsz.

This package was put together by Uwe Ohse <uwe@ohse.de>. I don't really
know how to handle debian packages, so don't be surprised if something
is wrong.

Lrzsz is Copyright (C) <=1988 Chuck Forsberg (Omen Technology INC),
1994 Matt Porter, Michael D. Black, 1996, 1997 Uwe Ohse.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; version 2 dated June, 1991.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/doc/copyright/GPL'.

1.454 libpng 1.6.37

1.454.1 Available under license :

Copyright (c) 1998-2008 Greg Roelofs. All rights reserved.

This software is provided "as is," without warranty of any kind,
express or implied. In no event shall the author or contributors
be held liable for any damages arising in any way from the use of
this software.

The contents of this file are DUAL-LICENSED. You may modify and/or

redistribute this software according to the terms of one of the
following two licenses (at your option):

LICENSE 1 ("BSD-like with advertising clause"):

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute
it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright
   notice, disclaimer, and this list of conditions.
2. Redistributions in binary form must reproduce the above copyright
   notice, disclaimer, and this list of conditions in the documenta-
   tion and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this
   software must display the following acknowledgment:

   This product includes software developed by Greg Roelofs
   and contributors for the book, "PNG: The Definitive Guide,"
   published by O'Reilly and Associates.

LICENSE 2 (GNU GPL v2 or later):

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software Foundation,
Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

---

pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

copyright (C) 1999-2019 by Willem van Schaik <willem at schaik dot com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

The software is provided "as is", without warranty of any kind, express or
implied, including but not limited to the warranties of merchantability,
fitness for a particular purpose and noninfringement. In no event shall the
authors or copyright holders be liable for any claim, damages or other
liability, whether in an action of contract, tort or otherwise, arising from,
out of or in connection with the software or the use or other dealings in the
software.

/* intel_init.c - SSE2 optimized filter functions
*
* Copyright (c) 2018 Cosmin Truta
* Copyright (c) 2016-2017 Glenn Randers-Pehrson
* Written by Mike Klein and Matt Sarett, Google, Inc.
* Derived from arm/arm_init.c
*
* This code is released under the libpng license.
* For conditions of distribution and use, see the disclaimer
* and license in png.h
*/
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this

source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.455 autogen 5.10

1.455.1 Available under license :

<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU General Public License,
<PFX>version 2 <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of version 2 of the GNU General Public License,
<PFX>as published by the Free Software Foundation.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU General Public License,
<PFX>version 2, along with this program.
<PFX>If not, see <http://www.gnu.org/licenses/>.

the GNU General Public License, version 2
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Lesser General Public License,
<PFX>version 3 or later <http://gnu.org/licenses/lgpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU Lesser General Public License as published
<PFX>by the Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU Lesser General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Lesser General Public License
<PFX>along with this program. If not, see <http://www.gnu.org/licenses/>.";

the GNU Lesser General Public License, version 3 or later
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU General Public License,
<PFX>version 3 or later <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU General Public License as published by the
<PFX>Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU General Public License along
<PFX>with this program. If not, see <http://www.gnu.org/licenses/>.

the GNU General Public License, version 3 or later
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time

a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser

General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited

permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium

customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a

typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately

under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you

must place, in the relevant source files, a statement of the
additional terms that apply to those files, or a notice indicating
where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the
form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly
provided under this License. Any attempt otherwise to propagate or
modify it is void, and will automatically terminate your rights under
this License (including any patent licenses granted under the third
paragraph of section 11).

However, if you cease all violation of this License, then your
license from a particular copyright holder is reinstated (a)
provisionally, unless and until the copyright holder explicitly and
finally terminates your license, and (b) permanently, if the copyright
holder fails to notify you of the violation by some reasonable means
prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, you do not qualify to receive new licenses for the same
material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or
run a copy of the Program. Ancillary propagation of a covered work
occurring solely as a consequence of using peer-to-peer transmission
to receive a copy likewise does not require acceptance. However,
nothing other than this License grants you permission to propagate or
modify any covered work. These actions infringe copyright if you do
not accept this License. Therefore, by modifying or propagating a
covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to

sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Affero GPL, version 3
<PFX>or later <http://gnu.org/licenses/gpl.html>

<PFX><program> is free software: you can redistribute it and/or modify it
<PFX>under the terms of the GNU General Public License as published by the
<PFX>Free Software Foundation, either version 3 of the License, or
<PFX>(at your option) any later version.
<PFX>
<PFX><program> is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of

<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
<PFX>See the GNU Affero General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Affero General Public License
<PFX>along with this program. If not, see <http://www.gnu.org/licenses/>.

GNU Affero GPL, version 3 or later
<PFX>Copyright (C) <years> <owner>, all rights reserved.
<PFX>This is free software. It is licensed for use, modification and
<PFX>redistribution under the terms of the GNU Lesser General Public License,
<PFX>version 2 or later <http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

<PFX>The <program> library is free software; you can redistribute it and/or
<PFX>modify it under the terms of the GNU Library General Public License as
<PFX>published by the Free Software Foundation; either version 2 of the
<PFX>License, or (at your option) any later version.
<PFX>
<PFX>This library is distributed in the hope that it will be useful, but
<PFX>WITHOUT ANY WARRANTY; without even the implied warranty of
<PFX>MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
<PFX>Library General Public License for more details.
<PFX>
<PFX>You should have received a copy of the GNU Library General Public
<PFX>License along with this library; if not, see
<PFX><http://www.gnu.org/licenses/old-licenses/lgpl-2.0.html>

the GNU Lesser General Public License, version 2.0 or later
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,

with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice

that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose

title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit

reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its

license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form.

Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under

this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License

somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains

that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without

permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source

includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention

is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work,

and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the

Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a

network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered

work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the

option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.456 pierrec-lz4 2.5.2+incompatible

1.456.1 Available under license :

This repository uses 2 different licenses :
- all files in the `lib` directory use a BSD 2-Clause license
- all other files use a GPLv2 license, unless explicitly stated otherwise

Relevant license is reminded at the top of each source file,
and with presence of COPYING or LICENSE file in associated directories.

This model is selected to emphasize that
files in the `lib` directory are designed to be included into 3rd party applications,
while all other files, in `programs`, `tests` or `examples`,
receive more limited attention and support for such scenario.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE

PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
Copyright (c) 2014, lpsantil
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

LZ4 Library
Copyright (c) 2011-2016, Yann Collet
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this
 list of conditions and the following disclaimer in the documentation and/or
 other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: liblz4
Upstream-Contact: Yann Collet <Cyan4973@github.com>
Source: https://github.com/lz4/lz4

Files: *
Copyright: (C) 2011+ Yann Collet
License: GPL-2+
The full text of license: https://github.com/Cyan4973/lz4/blob/master/lib/LICENSE

1.457 free-type 11.0.18+10

1.457.1 Available under license :

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

o We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

o You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
"""
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted

herein, subject to the following conditions:

o Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as

future and wanted additions to the library and distribution.
If you are looking for support, start in this list if you
haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues,
specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

--- end of FTL.TXT ---
Files that don't get a copyright, or which are taken from elsewhere.
#
All lines in this file are patterns (relative to the top-level directory),
including the comment lines; this means that e.g. `FTL.TXT' matches all
files that have this string in the file name (including the path relative
to the current directory, always starting with `./').
#
Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h

src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/ftzconf.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
EOF
FREETYPE LICENSES

The FreeType 2 font engine is copyrighted work and cannot be used legally without a software license. In order to make this project usable to a vast majority of developers, we distribute it under two mutually exclusive open-source licenses.

This means that *you* must choose *one* of the two licenses described below, then obey all its terms and conditions when using FreeType 2 in any of your projects or products.

- The FreeType License, found in the file `docs/FTL.TXT`, which is similar to the original BSD license *with* an advertising clause that forces you to explicitly cite the FreeType project in your

product's documentation. All details are in the license file.
This license is suited to products which don't use the GNU General
Public License.

Note that this license is compatible to the GNU General Public
License version 3, but not version 2.

- The GNU General Public License version 2, found in
`docs/GPLv2.TXT` (any later version can be used also), for
programs which already use the GPL. Note that the FTL is
incompatible with GPLv2 due to its advertisement clause.

The contributed BDF and PCF drivers come with a license similar to
that of the X Window System. It is compatible to the above two
licenses (see files `src/bdf/README` and `src/pcf/README`). The same
holds for the source code files `src/base/fthash.c` and
`include/freetype/internal/fthash.h`; they were part of the BDF driver
in earlier FreeType versions.

The gzip module uses the zlib license (see `src/gzip/zlib.h`) which
too is compatible to the above two licenses.

The files `src/autofit/ft-hb.c` and `src/autofit/ft-hb.h` contain code
taken almost verbatim from the HarfBuzz file `hb-ft.cc`, which uses
the 'Old MIT' license, compatible to the above two licenses.

The MD5 checksum support (only used for debugging in development
builds) is in the public domain.

--- end of LICENSE.TXT ---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.458 python-pip 20.1.1

1.458.1 Available under license :

Copyright (c) 2012 Giorgos Verigakis <verigak@gmail.com>
#
Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.
#
THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2007 Ian Bicking and Contributors
Copyright (c) 2009 Ian Bicking, The Open Planning Project
Copyright (c) 2011-2013 The virtualenv developers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2017 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is the MIT license

Copyright (c) 2010 ActiveState Software Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License

Copyright 2013-2018 William Pearson
Copyright 2015-2016 Julien Enselme
Copyright 2016 Google Inc.
Copyright 2017 Samuel Vasko
Copyright 2017 Nate Prewitt

Copyright 2017 Jack Evans

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2019 Kenneth Reitz

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER

IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding

machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our

decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either

version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors
may be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER

CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright (c) 2018, Tzu-ping Chung <uranusjr@gmail.com>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF

OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made
under the terms of *both* these licenses.
Pylons Project Contributor Agreement
==========

The submitter agrees by adding his or her name within the section below named
"Contributors" and submitting the resulting modified document to the
canonical shared repository location for this software project (whether
directly, as a user with "direct commit access", or via a "pull request"), he
or she is signing a contract electronically. The submitter becomes a
Contributor after a) he or she signs this document by adding their name
beneath the "Contributors" section below, and b) the resulting document is
accepted into the canonical version control repository.

Treatment of Account

Contributor will not allow anyone other than the Contributor to use his or
her username or source repository login to submit code to a Pylons Project
source repository. Should Contributor become aware of any such use,
Contributor will immediately by notifying Agendaless Consulting.
Notification must be performed by sending an email to
webmaster@agendaless.com. Until such notice is received, Contributor will be
presumed to have taken all actions made through Contributor's account. If the
Contributor has direct commit access, Agendaless Consulting will have
complete control and discretion over capabilities assigned to Contributor's
account, and may disable Contributor's account for any reason at any time.

Legal Effect of Contribution

Upon submitting a change or new work to a Pylons Project source Repository (a
"Contribution"), you agree to assign, and hereby do assign, a one-half
interest of all right, title and interest in and to copyright and other
intellectual property rights with respect to your new and original portions
of the Contribution to Agendaless Consulting. You and Agendaless Consulting
each agree that the other shall be free to exercise any and all exclusive
rights in and to the Contribution, without accounting to one another,
including without limitation, the right to license the Contribution to others
under the Repoze Public License. This agreement shall run with title to the
Contribution. Agendaless Consulting does not convey to you any right, title
or interest in or to the Program or such portions of the Contribution that
were taken from the Program. Your transmission of a submission to the Pylons
Project source Repository and marks of identification concerning the
Contribution itself constitute your intent to contribute and your assignment
of the work in accordance with the provisions of this Agreement.

License Terms

Code committed to the Pylons Project source repository (Committed Code) must be governed by the Repoze Public License (http://repoze.org/LICENSE.txt, aka "the RPL") or another license acceptable to Agendaless Consulting. Until Agendaless Consulting declares in writing an acceptable license other than the RPL, only the RPL shall be used. A list of exceptions is detailed within the "Licensing Exceptions" section of this document, if one exists.

Representations, Warranty, and Indemnification

Contributor represents and warrants that the Committed Code does not violate the rights of any person or entity, and that the Contributor has legal authority to enter into this Agreement and legal authority over Contributed Code. Further, Contributor indemnifies Agendaless Consulting against violations.

Cryptography

Contributor understands that cryptographic code may be subject to government regulations with which Agendaless Consulting and/or entities using Committed Code must comply. Any code which contains any of the items listed below must not be checked-in until Agendaless Consulting staff has been notified and has approved such contribution in writing.

- Cryptographic capabilities or features

- Calls to cryptographic features

- User interface elements which provide context relating to cryptography

- Code which may, under casual inspection, appear to be cryptographic.

Notices

Contributor confirms that any notices required will be included in any Committed Code.

Licensing Exceptions
==========

None.

List of Contributors
==========

The below-signed are contributors to a code repository that is part of the project named "Translationstring". Each below-signed contributor has read, understands and agrees to the terms above in the section within this document entitled "Pylons Project Contributor Agreement" as of the date beside his or her name.

Contributors

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

Copyright (c) 2012 by Simon Sapin.

Some rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The names of the contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A. HISTORY OF THE SOFTWARE

==========

contextlib2 is a derivative of the contextlib module distributed by the PSF as part of the Python standard library. According, it is itself redistributed under the PSF license (reproduced in full below). As the contextlib module was added only in Python 2.5, the licenses for earlier Python versions are not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases that included the contextlib module.

Release	Derived from	Year	Owner	GPL-compatible? (1)
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes

3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.3	3.2	2012	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"

basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with

other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted,

provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a

cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,

any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (C) 2008-2011 INADA Naoki <songofacandy@gmail.com>

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes

2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on
or incorporates Python or any part thereof, and wants to make
the derivative work available to others as provided herein, then
Licensee hereby agrees to include in any such work a brief summary of
the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and

otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1

alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or

trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
==========
Contributors
==========

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff

* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Philip Jenvey
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
* Tarek Ziad
* Toshio Kuratomi

If you think you name is missing, please add it (alpha order by first name)
MIT License

Copyright (c) 2008-2019 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
License

A copyright notice accompanies this license document that identifies the copyright holders.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source code must retain the accompanying copyright notice, this list of conditions, and the following disclaimer.

2. Redistributions in binary form must reproduce the accompanying copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Names of the copyright holders must not be used to endorse or promote products derived from this software without prior written permission from the copyright holders.

4. If any files are modified, you must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

Disclaimer

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

The argparse module was contributed to Python as of Python 2.7 and thus
was licensed under the Python license. Same license applies to all files in
the argparse package project.

For details about the Python License, please see doc/Python-License.txt.

History

Before (and including) argparse 1.1, the argparse package was licensed under
Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from
Python 2.7.1, so definitely all files are under Python License now.
Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015 Eric Larson

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

  http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.

See the License for the specific language governing permissions and
limitations under the License.
==========
Contributors
==========

* Alex Grnholm
* Alice Bevan-McGregor
* Arfrever Frehtes Taifersar Arahesis
* Christophe Combelles
* Daniel Stutzbach
* Daniel Holth
* Dirley Rodrigues
* Donald Stufft
* Grigory Petrov
* Hanno Schlichting
* Jannis Leidel
* Jason R. Coombs
* Jim Fulton
* Jonathan Lange
* Justin Azoff
* Lennart Regebro
* Marc Abramowitz
* Martin von Lwis
* Noufal Ibrahim
* Pete Hollobon
* Phillip J. Eby
* Philip Jenvey
* Philip Thiem
* Reinout van Rees
* Robert Myers
* Stefan H. Holek
* Tarek Ziad
* Toshio Kuratomi

If you think you name is missing, please add it (alpha order by first name)
Copyright (c) 2011 Agendaless Consulting and Contributors.
(http://www.agendaless.com), All Rights Reserved
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This package is a modified version of cpython's ipaddress module.
It is therefore distributed under the PSF license, as follows:

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT

INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2008-2019 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2008-2013 The pip developers (see AUTHORS.txt file)

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License for Bundle of CA Root Certificates (pip/cacert.pem)
==========

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA
02110-1301

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.459 @andromeda/an-apollo 1.0.11-6666

1.459.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 - 2016 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.460 speexdsp 1.2

1.460.1 Available under license :

Copyright 2002-2008 Xiph.org Foundation
Copyright 2002-2008 Jean-Marc Valin
Copyright 2005-2007 Analog Devices Inc.
Copyright 2005-2008 Commonwealth Scientific and Industrial Research
Organisation (CSIRO)
Copyright 1993, 2002, 2006 David Rowe
Copyright 2003 EpicGames

Copyright 1992-1994 Jutta Degener, Carsten Bormann

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

- Neither the name of the Xiph.org Foundation nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.461 go-jmespath 0.4.0

1.461.1 Available under license :

MIT License

Copyright (c) 2012-2018 Mat Ryer and Tyler Bunnell

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.462 acpica 20180629

1.462.1 Available under license :

This package was debianized by Mattia Dongili <malattia@debian.org> on
Fri, 14 Oct 2005 19:16:28 +0200.

It was downloaded from http://www.acpica.org/downloads/

Copyright Holder: "Moore, Robert" <robert.moore@intel.com>

License: Dual GPLv2/ACPICA Licence

For the GPLv2:

Copyright (C) 2000 - 2006, R. Byron Moore
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions, and the following disclaimer,
   without modification.
2. Redistributions in binary form must reproduce at minimum a disclaimer
   substantially similar to the "NO WARRANTY" disclaimer below
   ("Disclaimer") and any redistribution must be conditioned upon

including a substantially similar Disclaimer requirement for further binary redistribution.
3. Neither the names of the above-listed copyright holders nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

Alternatively, this software may be distributed under the terms of the GNU General Public License ("GPL") version 2 as published by the Free Software Foundation.

NO WARRANTY
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'.

1.463 goexpect 0.0.0-20210430020637-ab937bf7fd6f

1.463.1 Available under license :

Copyright (c) 2015 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.464 360entsecgroup-skylar-excelize 2.4.0

1.464.1 Available under license :

BSD 3-Clause License

Copyright (c) 2016-2021 The excelize Authors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.465 an-apollo 0.0.0

1.465.1 Available under license :

The MIT License (MIT)

Copyright (c) 2022 Apollo Graph, Inc. (Formerly Meteor Development Group, Inc.)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.466 openssl 1.0.2k

1.466.1 Notifications :

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.466.2 Available under license :

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts. Actually both licenses are BSD-style
Open Source licenses. In case of any license issues related to OpenSSL
please contact openssl-core@openssl.org.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2016 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
```

```
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
```

* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com).
The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.
If this package is used in a product, Eric Young should be given attribution
as the author of that the SSL library. This can be in the form of a textual
message at program startup or in documentation (online or textual) provided
with the package.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
  This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The license and distribution terms for any publically available version or
derivative of this code cannot be changed. i.e. this code cannot simply be
copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past
experience in code simply being copied and the attribution removed
from it and then being distributed as part of other packages. This
implementation was a non-trivial and unpaid effort.
Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an Blowfish implementation written
by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
  This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

1.467 protobuf 1.28.1

1.467.1 Available under license :

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

  * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
  * Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.468 flexnet-publisher 10.1.3

1.468.1 Available under license :


```
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15304913.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301477.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "h_cn12k"]
 remote = origin
 merge = refs/heads/h_cn12k
ref: refs/remotes/origin/skywalker_com
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c
DIRC~]]g+T]]g+T:6uAkx&g~.gitattributes]]g,I]]g,I:6JDHF7=7eV
.lfsconfig]]g-[ ]]g-[ :6g=D:aRh
cli/lic_cli.c]]g.P(]]g.P(:6c-N;~S

cli/lic_cli.h]]g.]]g.:67I{0BMcli/lic_cli_isan.c]]g/]]g/:0}n"-glzHC
cli/lic_cmi.h]]g0u]]g0u:0S3aXG,*Zkcli/licmgr.cmd]]g0W]]g0W:0JqX*zj=\p{5cli/licmgr.xml]]g1]]g1:0`>N_Ocli/li
cmgr.xml.h]]g2]]g2:0".T7rlj=Rcli/licmgr_cmd.h]]g2P]]g2P:0I})Bz3='_*Tk'{cli/licmgr_isan.xml]]g3BX]]g3BX:0X
EX8cli/licmgr_isan.xml.h]]g3]]g3:09V_{N|0
cli/module.mk]]g4X]]g4X:0
>hdUKZx"cli/traditionalcli.cmd]]g5]]g5:3{j'^Y=examples/lic_example.c]]g6Lw]]g6Lw:3
SwIY5zexamples/lic_example_isan.c]]g7p]]g7p:3qa!v3>a~(Lexamples/module.mk]]g8u]]g8u:3xX!CUlicmgr/eth_p
lugin.licspec]]]g8=3%'O^$licmgr/feat.txt]]g9]]g9:3Dx3hc=Y~90licmgr/lic_bmp.c]]g:,]]g:,:3'u./licmgr/lic_bmp.h]]g:
0]]g:0:33ELvV=Obc%licmgr/lic_debug.h]]g;l ]]g;l :3g.`b&#licmgr/lic_event.h]]hy8]]hy8:3Q~ LpO
licmgr/lic_feat_map.c]]hh]]hh:3jS"x<XW,licmgr/lic_feat_map.h]]h70]]h70:31JNQhP9licmgr/lic_flexlm.c]]h4@]]h
4@:5TV87|g{n0  licmgr/lic_flexlm.h]]h]]h:5TV9(ww10NPyp$f{;Olicmgr/lic_main.c]]hP]]hP:3<7
=7]F[.>licmgr/lic_mts.c]]hYH]]hYH:3<89Dh"d<ilicmgr/lic_mts.h]]h
]]h
:3<9p:W.ZNIW!licmgr/lic_plugin.c]]hO]]hO:3<:+
```

(2c=qalicmgr/lic_plugin.h]]hoH]]hoH:3<;d!skzVlicmgr/lic_pss.c]]hC0]]hC0:3<<=3Klicmgr/lic_pss.h]]h]]h:3<=
6[,W/#licmgr/lic_smart_feature.c]]hc]]hc:3<> @R)67>?S!Hlicmgr/lic_smart_mts.c]]h [KP]]h
[KP:3<?vFrlicmgr/lic_smart_mts.h]]h
0]]h
0:3<@<.cPRE;U<Dlicmgr/lic_spec.h]]h
]]h
:3<An;bK[r<=ixlicmgr/lic_sprom.c]]h7(]]h7(:3<BNJ+eB[4}#O..Ulicmgr/lic_sprom.h]]h
i]]h
i:3<Ck*(o\licmgr/lic_syslog.c]]h/`]]h/`:52wn6Va&rNlicmgr/lic_sysmgr.c]]hhH]]hhH:52{AAhR
k8 ,licmgr/lic_sysmgr.h]]h&]]h&:0h#{TW8licmgr/lic_test.c]]hT]]hT:0]
/7gj_=licmgr/lic_test_isan.c]]hve]]hve:0bmnGBlicmgr/lic_utils.c]]h]]h:0
%xPu<Zs_licmgr/lic_utils.h]]h`]]h`:0
CK@]\R%r3licmgr/liccheck.c]]h}i]]h}i:0!N!!swLlicmgr/liccheck_isan.c]]hR]]hR:0"+A;tOn\rAMlicmgr/licmgr.con
f]]h(]]h(:0#o9>^<ufzG|licmgr/licmgr_breakpoints.brk]]h
]]h
:0$jbusT9Qlicmgr/module.mk]]h0]]h0:3"cnSNFrZ
mib/lic_mib.c]]hp]]hp:3##j|G*t bt2|H
mib/lic_mib.h]]h(]]h(:3$YJCq,jp;mib/lic_mib_inspur.c]]hW]]hW:3%|0{
mib/module.mk]]h]]h:4n%v@s(`Y.usmart_shim/admin_api.c]]hX]]hX:4n&G@}p@IWhLsmart_shim/admin_api.h]
]hG]]hG :4n'7WQ.W#DRZ{t smart_shim/agenttest_api.c]]h8]]h8:4n($EHCE\=`b:smart_shim/agenttest_api.h]]h
]x]]h]x:4n).HqSDkksmart_shim/entitlement_api.c]]h!$]]h!$:4n*2/c<j[!smart_shim/entitlement_api.h]]h"]]h":4n+b
%rP{^Znc*smart_shim/getinfo_api.c]]h#P]]h#P:4n,%0l]bnsmart_shim/getinfo_api.h]]h$3(]]h$3(:4n- kl,II
5Uy5Nsmart_shim/module.mk]]h%`]]h%`:4n.88s$*smart_shim/shim_utils.c]]h&]]h&:4n/u"VL({C'BczC4smart_shi
m/shim_utils.h]]h']]h':4n1
)%UM<b-<EvNosmartcli/module.mk]]h(;T]]h(;T:4DP$mDsO"=Y5=smartcli/smart_cmi.h]]h) ']]h)
':4DQ0b|\x{smartcli/smart_exec_cli.c]]h)i@]]h)i@:4DRjHF
2h6smartcli/smart_feature_cli.c]]h*A]]h*A:4DS7
v1$:4w+L#smartcli/smart_show_cli.c]]h+]]h+:2gA6nubpsmartcli/smart_test_cli.c]]h,H]]h,H:2xh%26
N/Rj0smartcli/smart_util.c]]h-kI]]h-kI:2`i0Lz
smartcli/smart_util.h]]h.0]]h.0:2.0("\ijHS7smartcli/smart_xml_map.c]]h/E2@]]h/E2@:2;f^(DlT7`tsmartcli/smart_x
ml_map.h]]h2NK]]h2NK:2
eX9FwUZMeCUsmartcli/smartcli.cmd]]h33]]h33:2&$6smartcli/smartcli.h]]h5#]]h5#:2zK6427
INsmartcli/smartcli_cmd.h]]h6@]]h6@:0?&5#BRBspecfiles/README.txt]]h8bS]]h8bS:0?GT_:'=#eB4|;specfiles/e
th_plugin.licspec]]h9]]h9:0?Y^0L*B+W
U=j specfiles/eth_plugin_n5k.licspec],]]h:x =0?w6w
U/% specfiles/eth_plugin_n7k.licspec]]iy]]iy:0?
&9f+!"3specfiles/lic_feat_pkg_map.txt];/Y]]ix=0??kb&vh78&specfiles/lic_feat_pkg_map_for_mds.txt],]]ih0=0?]Ui
tkj
wv%specfiles/lic_feat_pkg_map_inspur.txt]]i\@]]i\@:0? 0ovulP
%"specfiles/lic_feat_pkg_map_n5k.txt]$]]i#8=0?!_TFdiz"specfiles/lic_feat_pkg_map_n7k.txt]]i&]]i&:0?"C$`[.MA
specfiles/mds_alishan.licspec]
X]]iP=0?#vWXW'nb%specfiles/mds_alishan_gateway.licspec]d]]i
a=0?$]z{/"|%specfiles/mds_alishan_service.licspec]3]]i(=0?%{P95>w#)specfiles/mds_alishan_service_gdb.licspec]
]i]]i :2=2ab2D? specfiles/mds_casablanca.licspec]]i]]i:2uiS,y^`QAcO*specfiles/mds_chester.licspec]]i
]]i
:2;(n(UL
specfiles/mds_cocogrande.licspec]]ip]]ip:28(y'f$specfiles/mds_cocogrande_gdb.licspec]]i.]]i.:2KN4*jspecfiles/mds
_cybloc.licspec]]i]]i:2~

2FDul8(specfiles/mds_excal.licspec]]]ig=2i\8sNb
1t|specfiles/mds_huashan.licspec]]i<]]i<:2D#22Eyspecfiles/mds_inagua.licspec]18]]i^`=2
p_*B=7sRespecfiles/mds_ishan.licspec]]i]]i:2MQt#specfiles/mds_ishan_service.licspec]+]]iP=2's#,Tte+specfiles/mds_minishan.licspec]]iwH]]iwH:2 i\8sNb 1t|&specfiles/mds_minishan_service.licspec]]i>h]]i>h:2
J\:J3UBbaspecfiles/mds_niihau.licspec]]i]]i:2|-YWsqD'specfiles/mds_paradise.licspec]8\]]io=5H
[w\b(0X:specfiles/mds_tianshan.licspec]]i6
`]]i6
`:5I9C
|y/lS{PMhyspecfiles/mds_uros.licspec]]iH]]iH:5J>z{f+
specfiles/mds_vegas.licspec]]ib]]ib:5KS-
'0zfxspecfiles/mds_vegas_gdb.licspec];1V]]i=5Lkw=tkI2specfiles/mds_xbow_10.licspec];&]]ip=5McJ*(h
Y0specfiles/mds_xbow_18.licspec];(]]iCX=5N69qLl/specfiles/mds_xbow_6.licspec]
e8]]ib =5O
(gMm
t?\:specfiles/mds_yushan.licspec]H]]iJ=5P
2Nqv'Fa m!specfiles/mds_yushan_mini.licspec];3]]ix=5Qzeq>{>specfiles/nexus_18.licspec]P]]i >.P=5R!kx
,=}specfiles/nexus_9.licspec]]i |@]]i
|@:5Sq7+oEBWspecfiles/nexus_oregon.licspec]]i!'P]]i!'P:5T!(MuF9oWspecfiles/nexus_oregon2.licspec]]i"2]]i"2:5
Uj:mCR}+ ;,specfiles/nexus_oregon2_lic_feat_pkg_map.txt].]]i#g3=22b|(A7$'gspecfiles/nexus_xbow.licspec],
N]]i#=22EjPFnGtDm)tspecfiles/nexus_xbow_18.licspec],`]]i%@H=22AA#e%X&}sMSf#specfiles/nexus_xbow_inspur.licspec]%U]]i&h=22!kx ,=}specfiles/titanium.licspec]]i'
]]i'
:22G)G,Fc\=1specfiles/virt_plugin.licspecTREE126 7
rGr8
iv26cli12 0
LsJxmib4 0
2S6eVW/Rlicmgr35 0
j
GN;hsexamples3 0
2zcR
|Wsmartcli13 0
RXS2_8AcHspecfiles46 0
CCj@wI1slsmart_shim11 0
_\m=C~&@0f`Y`5o[[DW2
6317bf6b870ced4150254b3da3f7958fa95f2ae2
6ab876a0dbcfa2c947e799e27a35dca800739608 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301477
8896cdb01181e19772ad14a9d0de2b3f28f2682b branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f10896fc0334880b5087cc6088e9c4f8a6a73d3 branch 'a521_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d487f33eb2102acbc640c9ea6ec7a40882e1f8b6 branch 'ace_simplified_cli_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
b093e65c87a2abc5bfe2ee4ad9e229908e0e55f8 branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301477
b07c47ccaea686961b4ee57677c4bebbbd811f2c branch 'adelaide_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e954cf302359cd4acefbce3b84b9990158199dfd branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-

15301477
f326f813574c3da49ae8a3f89a8446eb4b3d2486 branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2195b323eecc3f196ada64c240ef84684b32fea7 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301477
0050870dbdd949304bcfe0268531912513734997 branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301477
9c65861c4ab7e1efcb416bb9c8f7406959477dd4 branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301477
bb5afdef70040834fc178bf3fcb593c69515f8f1 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f602bdead9c2259d52eeffc2593b15450b61792 branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301477
0f1547327e104204615fe43d0348ab8148479e2d branch 'antares' of https://dscm.esl.cisco.com/git/153/comp-15301477
7877f233e67d7e24a8cb53a828e333d07570dbc2 branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ebd7214969808a700706329cf738f0646b9ee58 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477
08219554cd97039da69a55d32bd809892637f7fb branch 'aptos' of https://dscm.esl.cisco.com/git/153/comp-15301477
b7097d6d2a3815697fc137cf7ca60684da30fd6f branch 'aptos_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
1bfa22e6dea60ae800d649fdc4b2ff15c7f77bff branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5260a21f872278adc1dbed901a8d6a49ae1486f branch 'ashfield_1121' of https://dscm.esl.cisco.com/git/153/comp-15301477
34433fb6e371ec70daf3d1a481e341ce8e9e97d0 branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e4c7a6b949ac6407a189139a6d41245476210ce3 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f4a38d53f8d849e5b85b0f01523f2ad6c4a2aa0 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c46be377d07dd19571eeaef6c3b1e83aca81e57 branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f333b2d14aa47ab8834341ae0dfba672b36265cd branch 'av1_upgrade' of https://dscm.esl.cisco.com/git/153/comp-15301477
dd27fd0974585a29e690a2ba3b5bd57a3f4944d8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301477
319ea1611c7565dedb2677935258612b7aaca0a2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e4b5bff58108a87942972d265dfaf9e33525ebb branch 'avalon_nx_rel_8_1_0_107_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
931c705241e06332558d9afdb68be442e791030c branch 'avalon_nx_rel_8_1_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1245ed313765b02b842e7592109c9cd7cfcac28 branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6bef7cfac35eb904ef271b68c5e5fa8e84a1c7c branch 'avalon_nx_rel_8_1_1b_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
4f516679c885b043936c61c4eff68859e073a79e branch 'avalon_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4783ccc0899913b8e22785e1d1f1b0e57ef0aa00 branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-

15301477
f96018f84915cb2bc69599ea67b9bf57ddd0f797 branch 'baberuth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
bd6204ed2530355dee80e2258e8daeb3f2b474c6 branch 'bahamas' of https://dscm.esl.cisco.com/git/153/comp-15301477
44908fc63ad2ffbd72de27340b787e22577dabb0 branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
6c2eb57e1c19ea166a9b6ccec70086db61958a95 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
cf9d15d56719f3e6f6a704ef023066bdb8abec01 branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0652ee0b92aac9b3c61402df925a2d98e67a8f99 branch 'balboa_dy' of https://dscm.esl.cisco.com/git/153/comp-15301477
44e9f04f55572c9925ba78e36ba600d4f59b3c9d branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee937fa47c1c92ac40c1d3a490745970cebd3d99 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da4163e95ce3bcc0614abc50b8609b38bafec97 branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301477
bedf8d1ed45b1debfe88c6627e8b39d72533d95a branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b48812dfe7c85a00b87b4b0e87d99dea6592e913 branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0241151508dcebfde7d326f2cb859bf1dfb71db branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a3b55b73c1fc7ac3d93a365892ef7d118a7c7e62 branch 'beverlyhills_rel_8_2_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
7e99a907e75868497e15e1b06cf31c5954b0fcb8 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
682ff19533052c65140d29101270b9372bdb5069 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8b424126d907c6ba095399c48ac88245225626d2 branch 'bili_box' of https://dscm.esl.cisco.com/git/153/comp-15301477
2513bcf73a00f514997a9ae834494420c792f6f4 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301477
9486ac87454e736a90e8c2b14cbea3b6b0648dc8 branch 'bl_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
d947fe20f95cb1ab4f9205b96f7cebe0c292846e branch 'blackbird' of https://dscm.esl.cisco.com/git/153/comp-15301477
92ef0497085830ac40914ac1829a9a3848c3d7ef branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301477
7dbdc630ef5412eda3f1beff5d039f6915b56061 branch 'bondi_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1673d738ad7c8762bd07a84ba88375d82696fb66 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d19c1d3d016f6ec9185dddcf6454c028b74bc2d branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
936af1595c05c3c75ae9afe763278fa4afa8dc88 branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b01af2f5f480e66672ec37ad6a7614273f6eec0 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301477

52791a4cf4c8cd78154c86aafef596b5fbd757f4 branch 'bronte_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ce23806ad6d7cf9e0fba73fbdbda8993c23da67 branch 'bronte_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0d826fdb123d99d5441f1f639945edd56c477719 branch 'bronte_fretta_sw' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b6ad039ea2c3c632da94b362e7fbedeb44a21ff branch 'bronte_lacdev' of https://dscm.esl.cisco.com/git/153/comp-15301477
e64cf6b58d38e99fc4dc37515e5d104183782347 branch 'bronteplus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f334748e52041b5604429bd6102d8e2acb7e9868 branch 'bronteplus_rs' of https://dscm.esl.cisco.com/git/153/comp-15301477
7d78dc572033fb20396048dfe87586938f9b0fb0 branch 'bronteplus_sh' of https://dscm.esl.cisco.com/git/153/comp-15301477
30014ead2cd993df578ce9600066ff5a6b226d0f branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
4cd9d780d09769d465df3d24352078f5ce38442c branch 'ca_feature' of https://dscm.esl.cisco.com/git/153/comp-15301477
8149d77ad5179c3426089b84bb5f8400664310d1 branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301477
48b9c5f31e56d268430576a782704ec74987c15f branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301477
083cdacde685c9a9af51d28f38bb8127a5236f90 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc42fafb07c54e8789df772dd209e2a6638850ea branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a30fe73262ed457580436125128add5d4843a8d branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e03fa4391b544cdcdedf44c3e89e186a06fd23d branch 'camden_3k' of https://dscm.esl.cisco.com/git/153/comp-15301477
7c4d41b229731b516a83be9eb71f35229df750f5 branch 'camden_475_eft' of https://dscm.esl.cisco.com/git/153/comp-15301477
b594946182ff7c88b152ea6066bf242634b051b2 branch 'camden_nxosv' of https://dscm.esl.cisco.com/git/153/comp-15301477
b2d9093265e263f42ca478d455c345abf9c10714 branch 'camden_nxosv_proto' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e81abd60f2e223153faba2c5e8a71bd8b40b1a7 branch 'capitola_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
eb57dfe995f0b0b5e8721b79c7d20bb3cb530f2f branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301477
9f46f59e50d734dfd7a2b8043a2689a062303ff8 branch 'cayman' of https://dscm.esl.cisco.com/git/153/comp-15301477
d341d6a53e7a65eb50a708e77f3dc0d2e24b1da0 branch 'cayman_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
aa8669c3ca046840bab34a1f9bf3a9135b961145 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301477
def92020681f75a04a6235187fb04a3dcd66f976 branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301477

6ebba57495e9f6f3b5aa424540aa81e8f7ff1679 branch 'clapton' of https://dscm.esl.cisco.com/git/153/comp-15301477
65b5c74215155dce815fb034afe7f2df8c3e00cd branch 'clapton_kernel' of https://dscm.esl.cisco.com/git/153/comp-15301477
3fb6a307d774d578a71cf955eaeeb2df37288243 branch 'collapse_proj_628_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dcd5023ad53ab416bb20316229c859624a7c8cb0 branch 'conv_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
1512d9c01d974e8ccd2a7883228bb10eb6bb0d38 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
492e7bd792b9881d77a7e0f3423f81d34e8cf7f7 branch 'cozumel1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
1a01a34ce6254a8e8d4b0d5b2aadca0968241b6b branch 'cppa_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
e87131b03077dffb4d122583b4d71565388e60d6 branch 'cristal' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29ca5d24378bb817330a87856c5aacc0c21a7a7 branch 'croxley_a' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4a60e403fbb837dc08f5a286ad263603c7d6d66 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
96e95d78c660aa8433cb6efa0816d509e4cfd7b4 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
244769f484b6188f90bb55859aea9c5e7bef8e43 branch 'cupertino_rel_8_3_0_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
455c6d386ec98c1f6171e644ff9268baaffb1ce5 branch 'cupertino_rel_8_3_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
802c6b2b6057ed647bf60a3121dba66c93bbd8db branch 'cupertino_rel_8_3_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
888e36ae99ab4e2c879a82093e0c0a02381e3b58 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
9e273530b0c54f1ff4abda456fc110e18c017325 branch 'd_plus-cpa-dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
2fbf2741f6c66d25eee87631f9a41d6b6a512799 branch 'd_plus_pb' of https://dscm.esl.cisco.com/git/153/comp-15301477
91f2f0d91880b752feb22d0d3dc377ea6dfbf2e9 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301477
250b0e199422b281c7b36b2adc4c3145554ba3e5 branch 'daox_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc37f4b399649a13d544235a53caf541275eb88c branch 'dartford' of https://dscm.esl.cisco.com/git/153/comp-15301477
6317bf6b870ced4150254b3da3f7958fa95f2ae2 branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
31900f47b53bc6e3a199614cc4e24acb4752be11 branch 'davis_rel_8_4_1_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
091a35db5acc19da5eb9ff5082e454f6cc1ef377 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
f64736504086ca3f80cdf9785f62cd58bba6e89a branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca12745ccc11d097c48896cdbcff24a425570a40 branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301477
37c57fb69a20cfad8fa56bb0b47227df88ce4d03 branch 'dce_mcast' of https://dscm.esl.cisco.com/git/153/comp-15301477

0be8146a0780dc9a77609613bcfd6a7ea6fbad64 branch 'debden' of https://dscm.esl.cisco.com/git/153/comp-15301477
08cfb9cb2f32b9b1efea5be38b6532db4f024d0e branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b27bb1772d4ade46ade55f43701d1ad06983b46 branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301477
321a8bc5c100bab224bd4c44e8d3860dee542051 branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301477
83cdbb4459116440a7629636186a0ec13dd20ddf branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
2f454a923bc2afcb6688310f67b46999f33d1572 branch 'dp_plus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a7f36d2e86389ace6c072da6fd81d5d5fd5808b6 branch 'dry_dummy_run_s14' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee11811c000ddaa9c32c57c908ee3239cc74e79c branch 'dry_dummy_run_s19' of https://dscm.esl.cisco.com/git/153/comp-15301477
dba2bfba506bf23371793d8abd871586156b3583 branch 'dry_dummy_run_s19_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
1847ca163549779a1046faccc8fa7ceaadd472b1 branch 'dry_run101' of https://dscm.esl.cisco.com/git/153/comp-15301477
197e77e09c17a96a23bebbdec42bb0e652b77ebe branch 'dry_run101_test2' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad7a1c1840c57106c1999433f6fac473e95c630c branch 'dry_run101_test3' of https://dscm.esl.cisco.com/git/153/comp-15301477
5c1eb42ef539578e70ad9465882e68d755e2f187 branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301477
39d3b28d37d62984f2139dbd49fce293a03ab2eb branch 'dublin_bel' of https://dscm.esl.cisco.com/git/153/comp-15301477
2493d29ff1c6da0016354916651e3d56eb55b54c branch 'dublin_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d2f0aa0e8b436bb4d7f2b9099e6a0f3e17cb78c branch 'dublin_eft_two' of https://dscm.esl.cisco.com/git/153/comp-15301477
13024b700d4b9de3c67c0f7c566e834d0cf9c458 branch 'dublin_fcoe_npv' of https://dscm.esl.cisco.com/git/153/comp-15301477
d33a8a678e8f8aa3c346a11b9444c10ff2b7dc0c branch 'dublin_moddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a88f40d187d52aeb3352391303a990c91091b27 branch 'dublin_tahmod' of https://dscm.esl.cisco.com/git/153/comp-15301477
812c26935deb291bc1fc49252ca95c899d60184f branch 'dummy_debug_run' of https://dscm.esl.cisco.com/git/153/comp-15301477
ceb5a6aa07584ca7346ce4f9a1de98b4d50d904e branch 'dummy_debug_sample_run2' of https://dscm.esl.cisco.com/git/153/comp-15301477
20d1b7ec46874c7a8679077c6eb134af350a7383 branch 'e_bigsky' of https://dscm.esl.cisco.com/git/153/comp-15301477
373397e3e3a3492185c02c530d365dc04064922d branch 'e_campus' of https://dscm.esl.cisco.com/git/153/comp-15301477
5cf97df7d04f00733ad525dbd7b34e56216cbebb branch 'e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
359aafb59d62d204d169743211c3a241c9bf3439 branch 'e_dev_neokrnl' of https://dscm.esl.cisco.com/git/153/comp-15301477

c79d7cd3ec309d99febaa8e60af2f839a81a59ed branch 'e_homewood' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc3c49a4ec5539b86d021e28107556238fa6ea57 branch 'e_wbox' of https://dscm.esl.cisco.com/git/153/comp-15301477
9cc45d101d9191f83950f3dde641185410170a83 branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301477
cdb4eb978124e9804b2003f63f1afbc515d45a91 branch 'eagle_h_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fd58b451c5921c8ee09d3bd689fcb3d08dbd290 branch 'eagle_h_patchb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0a5daa4b0c9a8f0e1d22c056322e5aa58848dcb branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
ee7019e331097c65b95e1b88694047fae7e606d6 branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
0830228fcab27fc7ddf94b5d51732de6d68f6c6a branch 'eden' of https://dscm.esl.cisco.com/git/153/comp-15301477
c7f45e656cee5cf37aea8eefba84b1b38264428b branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301477
50a63baedc898c0c0470d61771dbef8ad4a9369b branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301477
88c65e74039c589fb417f4bd4dd5eb351614b4b9 branch 'eden_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
2819d2059e4d07a01cd2a267c9ee30bf0c7738e8 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301477
dce63c3055122ec4e9ebfcb796738c8790a7ccaf branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301477
e84ebc53d1129ec7e946069c314bd23e1311ea77 branch 'eplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
83b3420946e69958b2698311395f3890b062f9c8 branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301477
6e1798e341be275d6f26a29d051cfb8df7ebf3ed branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301477
f829061038195609e339b510535a0d1aab766a25 branch 'espada' of https://dscm.esl.cisco.com/git/153/comp-15301477
582e7f59d7607c8202a54cbb21a4e4547bb867c9 branch 'espada_avs9' of https://dscm.esl.cisco.com/git/153/comp-15301477
8c5551f312a635d0b7f0c00f2300f2700feabb86 branch 'espada_dot1x' of https://dscm.esl.cisco.com/git/153/comp-15301477
15c731852c6effcd445c666f3db0da2446073242 branch 'evergreen' of https://dscm.esl.cisco.com/git/153/comp-15301477
7da351f0db7c7be5a116c1e201cf10d68c9f2864 branch 'f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cc6d5750afd33c9303bbb61c48497d529e5cca3c branch 'f3_mpls_dev_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b24cafef668d82a070738ca0e91926ea90c2a04 branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301477
b3aad77e7234721bc26d78029db97c93b41fe02b branch 'f4_bsf' of https://dscm.esl.cisco.com/git/153/comp-15301477
96b7ea5ea92cc4620770390322426edaae141dcb branch 'f4_bsf2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
9769232bf42a5ac45afdac661931ac8fe7758e0f branch 'f64_com' of https://dscm.esl.cisco.com/git/153/comp-

15301477
5eeeb452d0e4ff0329a914be100f4804434a566b branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301477
5acc9f8c5bfcd8902f87745205be2ea2358e89be branch 'f_bugfix_0812' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ff90340e1ad3b9c116532b98584d255ede54bf0 branch 'fc_npv_g' of https://dscm.esl.cisco.com/git/153/comp-15301477
f163facee3d219e4afbc9cef79d7bc247f650f89 branch 'fchw' of https://dscm.esl.cisco.com/git/153/comp-15301477
e50c01dd591ae14085066ea2320a159d1cbf3d5d branch 'fcoe_cu' of https://dscm.esl.cisco.com/git/153/comp-15301477
0ad1471e110acdf74d92496f94b32773f504f257 branch 'fcoe_f3' of https://dscm.esl.cisco.com/git/153/comp-15301477
592be4d71c85298fa2fd73b02fd6ae2a75aaf0ac branch 'fcoe_f3_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfe8900dd0453c7118b2c62b558d0d576ba406 branch 'fcoe_f3_g220' of https://dscm.esl.cisco.com/git/153/comp-15301477
eacca487ff75a64bf0dc3c29333858a93daff3d2 branch 'fcoe_f3_g259' of https://dscm.esl.cisco.com/git/153/comp-15301477
3a901d4e5ee5f261cc769f6db777d21aaa140aff branch 'fcoe_f3_g308' of https://dscm.esl.cisco.com/git/153/comp-15301477
31f5e604f3baf66441996e42a0a4b258475f9739 branch 'fcoe_f3_gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
6a60692606704584cb3e213d61e4d62a1bb993c5 branch 'fcoe_f3_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
58d55681a8fd13c610bae2fef7ea42ca67d78fbc branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
448516b2323dbe5212516a3f6f5ada03678f0a01 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301477
a64eb188ecb3eb4474839fe065effccf924d9832 branch 'fiji_ecats' of https://dscm.esl.cisco.com/git/153/comp-15301477
c05035668f0bf204bd208dc8ef58b927e68134ef branch 'fijiplus_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
ca4af809986f4d522ce730b6efc43f1221f67382 branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2cd15e284ad27c94430efbcdecd64830ed5a712 branch 'freeport' of https://dscm.esl.cisco.com/git/153/comp-15301477
0b60ffd1ade0c40ac6c6ae11f7c045e1c82dc2c2 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b4293dcfdf2bd6fefee8794cf5544e7097d93ea branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301477
9ebda189f929af09f720a0e13d4f2b84e6365a48 branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301477
1df9b2ac71c21a734bd61b1470326c3314176ee3 branch 'fretta4' of https://dscm.esl.cisco.com/git/153/comp-15301477
c5e438f4787a1c4124b24c40bbd2d5be607d6170 branch 'fretta4_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
6965b16a3ea5a4470685d8147cc4e03a9088c5c3 branch 'fretta_camden' of https://dscm.esl.cisco.com/git/153/comp-15301477
926730a0dd7d73d2507d6a47c976d07c5aaaca03 branch 'fretta_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301477

85f6688bf135a8e6b87ad999d1e629913a26a493 branch 'fretta_sdk_656' of https://dscm.esl.cisco.com/git/153/comp-15301477
444b9d5d838dca1c0320e2c71a4949422605f595 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
77aecd7a0251f9219210aa5a2db2d0e4683cfab7 branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
14d5740aca21d8b90b038fda7d8dafd5ead68c45 branch 'ft-mr6' of https://dscm.esl.cisco.com/git/153/comp-15301477
379bc0c0f01484ed5cf8a36e12c2ce882bd7aeaf branch 'ft-ts96' of https://dscm.esl.cisco.com/git/153/comp-15301477
a70ed528aab0644718a37322566e812ced4b1d6c branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
460d7af1f6eef185717d63cabd105556079de6cb branch 'g75_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8edac59828f6058e2745fcc009e2b407761d919 branch 'g_bluesky' of https://dscm.esl.cisco.com/git/153/comp-15301477
b6eed61907c7415645a3b090de2fad1bde87863c branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e99c10957c0a9b8f629911e9347df32d2f76af0 branch 'g_heavenly' of https://dscm.esl.cisco.com/git/153/comp-15301477
1b21dbbab48dba86b427c7c3634205507f63e0eb branch 'g_tetley' of https://dscm.esl.cisco.com/git/153/comp-15301477
85c060ca61a8673c2ebcc478d7d27c5af4694656 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfa42c26f708fe4e1d77aa9cfa47e58f71d8a2f3 branch 'gbr_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
b869e978c53e899442ca3de35e6b5ca572327284 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
b88a78f40a0045b681077c5bf4bc9bbfbb964483 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301477
00a48b849cd91c9e363423ae610ffdde10061f75 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301477
1992bf53e31f38a5944fa85914c86657dbad5ed7 branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301477
d72d0ed54a6a4159644b50f88c936a58a49ff37e branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
63776d8d6e4a8433e6cbf077000fbbd04960e5bf branch 'goa_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
486bc0e73fc021f322c6863bfee58478dbfbd69b branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301477
85e25db857d1a3de46cbb6b6a2ce5bd006c8efbc branch 'goldcoast_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b911ffbb5b3f2de27200bd4e42403b2310e60f4 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301477
056576d3069e27aef14f808c2cc67413c78b93d6 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd76607a1d1c34c26bdd97c0577ec721c653514e branch 'gplus_dev_bf' of https://dscm.esl.cisco.com/git/153/comp-15301477
a459c93d19fbe842e7bc26cb7fb05a126741e077 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301477
27f598552c7d3645575cd9303b3c71fd477ef9c2 branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301477
ccd4e4f8dfe64241aee3222dd3a273abfc79b6d4 branch 'h_ali51a' of https://dscm.esl.cisco.com/git/153/comp-

15301477
89ae28b2a2ec7f2c2d38c39428e9ea7f66ff0a5c branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15301477
c3da9d643002251226ecb9ff51aec487cca6a3e6 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301477
e5b1b9766cf1a16723e59406eda743ffaf6188dd branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d25e87a82ee005ea231b4594ff0b43c954913903 branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301477
4fb7b34e809d44f08be8132bf925e35c214b94b2 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301477
667689585b26cae42c6488b414173a11bf12f334 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15301477
6624578ec620e1074ae3e6aab4727f961eb43411 branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15301477
5ff23492dcf63abe251b6cb40d1611fdc244ea6a branch 'h_sundown2' of https://dscm.esl.cisco.com/git/153/comp-15301477
2952c50121274f7ef94abc7dcb52ad4c4bf483d7 branch 'h_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e206e3e12ebf3d574d546b7f17b279c306be5 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477
42eb5ab355b8f0e9ba780cd2c41c37d4ef45c5c3 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301477
02881582bd48054a4a14ba5af179b8401dbb84df branch 'harboard' of https://dscm.esl.cisco.com/git/153/comp-15301477
4a82c94fb259d95dec40870571c821e3e94854d3 branch 'harbord' of https://dscm.esl.cisco.com/git/153/comp-15301477
2afe719277571e3542aa210705b84a88f15a5408 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
c1b744ca1e6d4e7047378edcd66c96d4342d0e12 branch 'hf_271' of https://dscm.esl.cisco.com/git/153/comp-15301477
6539033ae19c6f1fd1fb7e94119e69ac6479cb7d branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15301477
955365c1167c2e2aa14f3333881f6191d8987068 branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ce04ca1c10dc44e3fe7a56c64f8de16b2d606d64 branch 'hplus_patch' of https://dscm.esl.cisco.com/git/153/comp-15301477
46d23d0a44ecfd99ea2765829bf77a38f11e9ec9 branch 'hsk_mds' of https://dscm.esl.cisco.com/git/153/comp-15301477
8ccb53a1b2c9e60abe21f95fe5f522aa9f7f814e branch 'hudson_centos' of https://dscm.esl.cisco.com/git/153/comp-15301477
685f4003cb78bc4dea35f2c31fc4e0eb41de6cab branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15301477
650087b9ceb7258de218455e937c34fde0cf6cb6 branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301477
ecb77e4154f235c43384da0f3bd534ee4af907ab branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
b61969646a1b5a50c3189b49242254d1973624a8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-15301477
0fe6311b01d5c8a58af19b39f5c956d0d70a0196 branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15301477

34edd2f47840964fe37d7f06cc818467c3744175 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f3b5ce1047ba6b5f4f350a1f2bb64a602609e4 branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301477
283f58b2f2b725a0dac13cf5203b81c4eff405b7 branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15301477
b9f69b42d2d64f380524e3548145063b6ae45f80 branch 'iluka_ci' of https://dscm.esl.cisco.com/git/153/comp-15301477
c83d24083b98934424707bc883f411663e2c22ec branch 'iluka_titanium' of https://dscm.esl.cisco.com/git/153/comp-15301477
83c0459bd88e2738fee81205d93c6d0bcbb218c7 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2fc8cc3c3181b5e3d64c5b675b44395a401b29b branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15301477
25e76710a3a9cb7a2ff0b608eb2bebe21885028c branch 'insieme_xml_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2e1baaa641643d85d452c68ca737cd9a3665b71 branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15301477
6497c9c09614ab7a036f201910c884cb5470dd82 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
8d980a68e928a588593eea7fa61dea86fed59928 branch 'iplus_dev_utopias' of https://dscm.esl.cisco.com/git/153/comp-15301477
d9d2e5c64c21baf61f4c4375087ca3c946cad40d branch 'iplus_gnmi' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f07d0e24b982383ee1360bba47495a7dda3539f branch 'ironcity' of https://dscm.esl.cisco.com/git/153/comp-15301477
61790a1ef93bb2127ec921069fcb7513c124107b branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15301477
79d12264e2966704b0c607aac94ab2bd32a014b0 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
fba907651797392f78cb65561d039cf3dbbae779 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
db58bfddbda8f724b1f408759abae98008aed270 branch 'janjuc' of https://dscm.esl.cisco.com/git/153/comp-15301477
6d5aaef8504df316ba8d328dd4f98a4953509976 branch 'kempton_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
fb95bffa9c2886f9efa0c9fea007809089c1232c branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-15301477
d3d78c2cf21c245c0752efe3a5ddc8b1e020006a branch 'kilkenny_cco_qip' of https://dscm.esl.cisco.com/git/153/comp-15301477
455ed4aa29373e9d41ce9ce87a40084acb554941 branch 'kkm_krnl' of https://dscm.esl.cisco.com/git/153/comp-15301477
6efb68899304a4bdcdafe5399fbb69b903c2eb66 branch 'km-hsk' of https://dscm.esl.cisco.com/git/153/comp-15301477
b29f4ba5272c99933beebced07a6e236721bde40 branch 'km-sky2' of https://dscm.esl.cisco.com/git/153/comp-15301477
081793a46ac214e1fe7988f33ce95761c96b1334 branch 'km-sky2_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b52d63a98833db4f3e412a7ccf7fc1c564d97ef branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-15301477
f3124cb8ad5c37156928fcb5e745cf0d7eeb8aed branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-

15301477
2bf830221352afff861443add0107762c812e82d branch 'kokomo_47_krnl' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0111672beb550ac65cf01d451b2b8bd964f2dd0b branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-
15301477
418ba0d80f04c1aab14304368e43444f4d78748b branch 'kumo10_fcs_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
959dfeac705b9f831bf98c0432ece52a90465555 branch 'kumo_112' of https://dscm.esl.cisco.com/git/153/comp-
15301477
ce826e32277d74185e2cebdeec5f2e0fab8e7e55 branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-
15301477
89e27c89df5b13a2e2927059c1cd3654a5cd684e branch 'lac_ddev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
a27a401800232d9d173f8679d33ceafd4055d76a branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301477
d8db8ac50ace0aa1f976d66dd94fff45d64c9717 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-15301477
5e93223df645e7bca172ccf88c0daf3c2bfb8d61 branch 'mercury_snmp_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f54c42eb4eec97ff51552b4a599a9c2617121baa branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301477
79f4929978a9308d7164ce0389ff2932b94a2051 branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
c81bdf8034d137e4520cba1202e5a3ae6d92bd34 branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-
15301477
eff64a416ce997f4a7447ce5aeb299fe85ed4cc8 branch 'morningstar_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0e72adf18f6f18396fa12033d9d2713c8d1e7589 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-
15301477
45518da1bcab77681fab915974ee19b0ea381bf9 branch 'msgformat_n6k2' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c5e345068e261d4cd9a98635b3b73aed854ba3ea branch 'mve1' of https://dscm.esl.cisco.com/git/153/comp-15301477
16421d9cfdb5f711e9d4ff0218721a348e7834b2 branch 'n1kv_l3' of https://dscm.esl.cisco.com/git/153/comp-
15301477
cef149d7a300440dca0bb266ec6be6baa7967635 branch 'n3k_camden' of https://dscm.esl.cisco.com/git/153/comp-
15301477
fa133651025a3f5e1e1dbc51715c63f2819c6ecc branch 'n3kturing' of https://dscm.esl.cisco.com/git/153/comp-
15301477
82d51f60e9edf6cb75b6739be5d6a8cfcefada7c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-
15301477
87969c6c7c9cd51a0ac9a25272d967096897285a branch 'n7k_aa_new_ffex' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d008589ef6c1f11997436f4a27498565aa5495b9 branch 'n7k_dme_stuff' of https://dscm.esl.cisco.com/git/153/comp-
15301477
6d772b428e496300b2539061c0f7cc929611c14f branch 'n7k_spine' of https://dscm.esl.cisco.com/git/153/comp-
15301477
31226d2ee54802be57f8aed69c1e52e3c5490e5a branch 'n9k_redmond_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301477
42f13b8672d5925cc80131d0c4d8efa9395bf684 branch 'n9kv_eor' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0bac5487b98151822592bf0dab9e9e58c19ff652 branch 'nep_cr' of https://dscm.esl.cisco.com/git/153/comp-

15301477
cc30a20103e68b3873431b3496573d9b9559bede branch 'nexus1010' of https://dscm.esl.cisco.com/git/153/comp-15301477
dfd9b63bf4b10dcbcc3b579e8728bc38b81af278 branch 'ns' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d4c097446e7629e214e7f37ae33c11fb71f7864 branch 'nxos_4k' of https://dscm.esl.cisco.com/git/153/comp-15301477
96d94f688ebc3e5c109705b733d84ab0d4d11e20 branch 'nxos_cflow' of https://dscm.esl.cisco.com/git/153/comp-15301477
0734152ccdb73ace98eecc7fcf3833f495717b19 branch 'nxos_fb' of https://dscm.esl.cisco.com/git/153/comp-15301477
6fdff4116ed523a921d2162462c09b7a5dfb03f8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301477
00baaf5a77d660e2b6f83783b0b4b76394fb873a branch 'nxos_pi_patching_infra' of https://dscm.esl.cisco.com/git/153/comp-15301477
79b43d42a5a26a242d0841ece62237183c9dbcf4 branch 'nxos_wb' of https://dscm.esl.cisco.com/git/153/comp-15301477
1d96236a4824a9ae35683d85f7d76a08888a86e2 branch 'oilstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
28e0caf31ee4470d4f7e6e068b314eedca7cc691 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301477
fca798ce50ddee8e42058465cbdfb5a9293ade14 branch 'oregon_1_1' of https://dscm.esl.cisco.com/git/153/comp-15301477
b535febff1dfd693d4cbcfca2c1071210bac521f branch 'ph3_4' of https://dscm.esl.cisco.com/git/153/comp-15301477
539a2d77d9fcd711b09881c1649f5b5b6a1c2896 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea75a742405d744340d1eb984fff4a144262a339 branch 'ph3_dtho1' of https://dscm.esl.cisco.com/git/153/comp-15301477
72e4dda183523dadd982438668d2ac32d800d2a0 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
7ce8e7bff7ec288313b5cae0782c396ffc11148f branch 'pi71-india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15301477
c8e060186c69405052b854c4af0f4480a92c6f50 branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301477
655576290d3388f82779e5663ef9b2ef3ecaf36c branch 'pokemon' of https://dscm.esl.cisco.com/git/153/comp-15301477
3b2261af5674f94695c6f225adc1b32c10db3128 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301477
8cd2f20aeb11eb0bdfa35664e7b6763204ac963e branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301477
a2de67ba6ed9f924a937ac83b26ff7d144fb7a5e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301477
4d6ce365c6100550d03e09179119aedf6004ea7d branch 'rackspace_issu' of https://dscm.esl.cisco.com/git/153/comp-15301477
effbcdb8ca3b813ffaa04b2d6daec0bf11358c3d branch 'rel_3_0_0_a1_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f5d0ae7493394a92e8ebaed631175dc85137a67 branch 'rel_3_0_0_a1_4_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f380c22ae0e741d9c21c73e1ee355e1c4c55e6d5 branch 'rel_3_0_0_a1_5a-development' of https://dscm.esl.cisco.com/git/153/comp-15301477
e371c70ba25811a2483688e6ddf0064dc8111ea0 branch 'rel_3_0_0_a1_6.2-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477

8bb725bedaa9b06d907536ea97f483358f594e88 branch 'rel_3_0_0_a1_6.3-throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3d33ffeff83a6a3646b36eaf3682e30cf5ef3d95 branch 'rel_3_1_1_1165966469' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6c2214584f02bc6adcf61fe923066b1af486138b branch 'rel_3_2_1_1188831908' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8992f2a342721e0c63b43881f4fce73a38705b51 branch 'rel_3_2_1_1188832883' of
https://dscm.esl.cisco.com/git/153/comp-15301477
152019b974e091c0c3556c468c3886180703cd25 branch 'rel_3_2_1_1188878926' of
https://dscm.esl.cisco.com/git/153/comp-15301477
aba6979a1d5c6068fe17676e4c81d886c0905060 branch 'rel_3_4_1_1213862709' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2aad266b5fa84801bf5f1447e7c24343ded231b1 branch 'rel_4_0_0_520_1170208990' of
https://dscm.esl.cisco.com/git/153/comp-15301477
601958bcf5b3d7ec9d76daebaef49ad58b2b9c16 branch 'rel_4_0_0_669_1185503667' of
https://dscm.esl.cisco.com/git/153/comp-15301477
baad050e503716b4d21f7f0ca43bc00a7353d964 branch 'rel_4_0_0_669_1185508973' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd4d20094f42db8fc55da2f5adff2cbfa1dae33d branch 'rel_4_0_0_669_1185509620' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ca8d40815198aa0f41bb0e73e3ce8938259bbe2d branch 'rel_4_0_0_749_1192416586' of
https://dscm.esl.cisco.com/git/153/comp-15301477
46a9d1999d0e49c0ac50460967422f67cd260a8f branch 'rel_4_0_0_754_1192508418' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3dfb055f55c2bb6be962beb6d59cf614cb396a50 branch 'rel_4_0_0_828_1199764468' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6c5cd64e80972c92d1f9b50005563151fc94f09 branch 'rel_4_0_0_879_1204023719' of
https://dscm.esl.cisco.com/git/153/comp-15301477
de1341c2027a03aa5f2138eabfe3ca002a3a8d32 branch 'rel_4_0_0_885_1204026761' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6f310e40db4ac61c5260dc9f6ccd5744dc46d184 branch 'rel_4_0_0_885_1204028067' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5230a241b7852eb42ed1860dbc0eff35b27dc555 branch 'rel_4_0_1_1205146992' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1c38aff3367e27025d23476af1a9922fd91e642c branch 'rel_4_0_3_1216832024' of
https://dscm.esl.cisco.com/git/153/comp-15301477
9d3a7ab148e511acec11f7e10eda4b74523e951a branch 'rel_4_1_0_90_1209800952' of
https://dscm.esl.cisco.com/git/153/comp-15301477
283350b2926ebd5778b92111f85d19aa122cb257 branch 'rel_4_1_1_1220338475' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5868f2437924f396d6af9acae10f2efc96e890ff branch 'rel_4_1_2_1228304625' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4deac4caab3f0e067586b41f56a30bff08b80fc2 branch 'rel_4_1_3a_1235365905' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3c4d5021706d3ee9d451b56c979bed7b5b592a16 branch 'rel_4_2_0_239_1244796494' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c09a0ac81a2235458e76f08cab1060bded441a8b branch 'rel_4_2_0_239v_1244798615' of
https://dscm.esl.cisco.com/git/153/comp-15301477

91bc2251de995d4553b329e27cefaec9b87c68c8 branch 'rel_4_2_0_246_1244873958' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b93441bed14e7373abe0bd9189f53bc3441c60de branch 'rel_4_2_0_246_1244875310' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61f581d2f29e7620e5d38f554f7b4c705c54734e branch 'rel_4_2_1_1246501284' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1e8b779bc3558abaf8c9a3c85fef407d782362b branch 'rel_5_0_0_107a_1241521493' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6e80956fc025f37faea2439efcfecd2b0d06a63d branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301477
62f317e0e12ed497f46ff0943467f70d3341c594 branch 'rel_5_0_1_1264407142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
20c8d0e73f53b05c8c20d7476ee99eb5acb79bc8 branch 'rel_5_0_1b_1268628903' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66e8ad9c81be9fd8b16caa2bd0ebc276f412412c branch 'rel_5_0_2_1268889241' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b2dc7fabebcd9001afeb61abd9d0d9fbb55639e8 branch 'rel_5_0_2_1268900747' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a5820d07ee2cf3cead30fbe6d372c29ddda47ad8 branch 'rel_5_1_0_78_1273728062' of
https://dscm.esl.cisco.com/git/153/comp-15301477
911ee18c13f1a0fa376a7389047745b37f3fbb2f branch 'rel_5_2_0_250_1301681919' of
https://dscm.esl.cisco.com/git/153/comp-15301477
682877a8be0edad6b2f1bbfde929570bec050f10 branch 'rel_5_2_0_251_1301295965' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f7b14dcc52f63c427ba8b554a1a0b34e945f29e7 branch 'rel_5_2_0_257_1301300390' of
https://dscm.esl.cisco.com/git/153/comp-15301477
347c7ac95da8eb139e9f9b2d9831f7b5f8fa95d2 branch 'rel_5_2_0_270_1303378525' of
https://dscm.esl.cisco.com/git/153/comp-15301477
4c08add6e69d1b8e71a85c3f36cdfc1df6dc2c9f branch 'rel_5_2_0_904_1304321221' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d1c0cf7d205cc93639c31c76413689c214df4eb7 branch 'rel_5_2_0_907_1304482212' of
https://dscm.esl.cisco.com/git/153/comp-15301477
951729152a6265f3911a43870652a857346117c4 branch 'rel_5_2_8a_1365686638' of
https://dscm.esl.cisco.com/git/153/comp-15301477
262b82bdf979931deab96127a5e940b41d3edcf6 branch 'rel_6_0_0_11_1313537935' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5c2b616ccc6eddd6cf6452d25c070617e47f9d9d branch 'rel_6_0_0_30_1313796682' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d98f10bc7822512441bff2ed846f98ca3eac0ba2 branch 'rel_6_1_0_220zonda_1330655142' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21664a6105748cd9e0e320037292c082f53a52b3 branch 'rel_6_1_0_233_1332934317' of
https://dscm.esl.cisco.com/git/153/comp-15301477
23a40875ee75dd0d1fdb92dc9e241df654304261 branch 'rel_6_1_0_293rouen_1338272421' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8034e23eb9e2030ba58e9eda8a04ceee235ccf86 branch 'rel_6_1_0_4_1314178785' of
https://dscm.esl.cisco.com/git/153/comp-15301477
61838156c498fa72fb5350e8f981c4ccd4355425 branch 'rel_6_2_0_166_1341715081' of
https://dscm.esl.cisco.com/git/153/comp-15301477

faca3a19825b1e094212c35f72f96b11de7c1656 branch 'rel_6_2_0_22_1323474416' of
https://dscm.esl.cisco.com/git/153/comp-15301477
86f5848d0044071d9724e66d88e4e92d7883086b branch 'rel_6_2_0_233_1350283358' of
https://dscm.esl.cisco.com/git/153/comp-15301477
00c44e69b30908a73cacc22f6b277939ed5cf2d4 branch 'rel_6_2_0_284_1355750076' of
https://dscm.esl.cisco.com/git/153/comp-15301477
37e3c349032e723d930f00a9c40562cf2227e1ab branch 'rel_6_2_0_294_1355752126' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1668d137bbe412aa0fedc5bd9546e08cf86303f6 branch 'rel_6_2_0_302_1355755477' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2d624f4fd2df8f5a532758bd6593ae4e96bcc8b1 branch 'rel_6_2_0_42_1323892974' of
https://dscm.esl.cisco.com/git/153/comp-15301477
625ec745f5b13dfef80907b9a1e99c3a4f5d609b branch 'rel_6_2_0_47_1324073744' of
https://dscm.esl.cisco.com/git/153/comp-15301477
66a0d879c71de1848118de9e341d5deb83818adb branch 'rel_6_2_0_5x_1319447985' of
https://dscm.esl.cisco.com/git/153/comp-15301477
079fed2a107c0e58789f36e18f86637a1168c33d branch 'rel_6_2_10_1411029857' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e2d6fbfcffe9d62c7697e2a0f8af68792cbad105 branch 'rel_6_2_13_1432205888' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b75e0e977504401cae027d22bfdfb9c29a6670d1 branch 'rel_6_2_1_1358454650' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d6ffd096b6e045a75d8226fbecb61f202bafebc6 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301477
ad6ebdbdd32757553bb398717ecdd93b72702108 branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301477
bd97ebd363c48f64c6c36ec73e07712a8bd5a57a branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c792866394749a86a26ee9e4f5bb00173728b517 branch 'rel_6_2_1x_1360614323' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0f1652e4b7833067cd60bac40605d3dda2644a72 branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301477
876eda71d428411b0b9b94b12e6c8eea44570a79 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301477
e5c5394472e8b8dd27799065f2f3ce2f4e19d928 branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301477
8897493500215dd7e4b872936b99bf712439cf64 branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6af42341f1d1291ad6614ce8bc8bd63f14379da5 branch 'rel_6_2_25_1537789720' of
https://dscm.esl.cisco.com/git/153/comp-15301477
cbbe757e8340d3ff727fbe6c21f8a09c60430111 branch 'rel_6_2_25_1537804439' of
https://dscm.esl.cisco.com/git/153/comp-15301477
df22adc52aabb8f0341080d2b299673e05120f30 branch 'rel_6_2_25_1537806235' of
https://dscm.esl.cisco.com/git/153/comp-15301477
6a8549154254bc3d4321852ebf241fe665e903d8 branch 'rel_6_2_25_1537853393' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f9babd65905f91aa2eff13630bf9bfaf6a29dfcc branch 'rel_6_2_25_1537857082' of
https://dscm.esl.cisco.com/git/153/comp-15301477

e07cb5e80aedc545bdb1f3e09186803a2fb590c2 branch 'rel_6_2_25_1537863229' of
https://dscm.esl.cisco.com/git/153/comp-15301477
0341694426c29e05eee41e423142068b2226d76f branch 'rel_6_2_25_1537947258' of
https://dscm.esl.cisco.com/git/153/comp-15301477
1dca72e3c96c8bf2a1ae81ef502273d6fdf3ada9 branch 'rel_6_2_25_1537959757' of
https://dscm.esl.cisco.com/git/153/comp-15301477
7eaa26a82647978ad6e3d1b052a9b9444f3c64d5 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301477
28ed57249eda2d2b2fa19a0e925fd5578b42c837 branch 'rel_6_2_2_1374645089' of
https://dscm.esl.cisco.com/git/153/comp-15301477
3ba9f7cc27ae5dcfb02265cc2e3ddfc687b4c789 branch 'rel_6_2_5_1377756497' of
https://dscm.esl.cisco.com/git/153/comp-15301477
2536effaa449a880e07af486aca768bbb8cc7785 branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301477
73316f4e9d25406945145377a0b68f5a88094698 branch 'rel_6_2_6a_1393392717' of
https://dscm.esl.cisco.com/git/153/comp-15301477
956abd8da1dda44fd9043c15a4c20ca9b67c4c07 branch 'rel_6_2_7_1391725316' of
https://dscm.esl.cisco.com/git/153/comp-15301477
a917a53f795f22a03ca0756b86a64ce91f63dd51 branch 'rel_6_2_8_1395337211' of
https://dscm.esl.cisco.com/git/153/comp-15301477
c97f2b258a55a0a1bfa74c0752a82eefbec170fd branch 'rel_7_3_0_d1_0_125_1444754460' of
https://dscm.esl.cisco.com/git/153/comp-15301477
202e6ef655760308ff758edb56db3b1bcafd27cc branch 'rel_7_3_0_d1_0_127_1444932948' of
https://dscm.esl.cisco.com/git/153/comp-15301477
55c370f2cc3610eb743bf566ce6e4eadd65e8d63 branch 'rel_7_3_0_d1_0_24_1435346435' of
https://dscm.esl.cisco.com/git/153/comp-15301477
07932093f7382b205d7ace06e05aef2c64fde157 branch 'rel_7_3_0_d1_1_1453376495' of
https://dscm.esl.cisco.com/git/153/comp-15301477
53d8243f0ce4cc194eda767c06b0b5b3c1543da5 branch 'rel_7_3_0_d1_1_1453378954' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b51650561a6bb094ddcbcc0ef675bff2aa4858de branch 'rel_7_3_0_d1_1c_1468606237' of
https://dscm.esl.cisco.com/git/153/comp-15301477
661352e7716c78df7b218823506d3f48fdd7f02f branch 'rel_7_3_0_dx_0_54_1452151147' of
https://dscm.esl.cisco.com/git/153/comp-15301477
f552d92b9c329165cfe09f6d1d34d48ef1f4575c branch 'rel_7_3_0_dx_0_54_1452155690' of
https://dscm.esl.cisco.com/git/153/comp-15301477
d701575c5fd3bdbc7f21b3242d3b59ef41f87a77 branch 'rel_7_3_0_dx_0_54_1452156693' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fa536aafbd7288145e2c2590d7248ceccb2b332f branch 'rel_7_3_2_d1_1a_1506012041' of
https://dscm.esl.cisco.com/git/153/comp-15301477
21e8f6997268df5c6882ae0e822238aaba31c4ce branch 'rel_7_3_3_d1_1_1533706967' of
https://dscm.esl.cisco.com/git/153/comp-15301477
5663261614a22055cbb715bb95073d89840106a7 branch 'rel_7_3_3_d1_1_1533714860' of
https://dscm.esl.cisco.com/git/153/comp-15301477
fd1d1309e87165fa417aba408c1fadf4567d3b81 branch 'rel_a2_1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477
b8cfc8f36965a42667b9d0eaa1ed089c85acd6a0 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301477

8d8702357179898f0d6e94a548315df6cfff1679 branch 'rel_a2_1_5_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
073d16c4fa776bcc259e62c85ef841930ce25ee3 branch 'rel_a2_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
f6907715da46688acf5de4232a27f66dec28b95e branch 'rel_a3_1_0_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
d887b84949d40aa15022ce22238f81fe3b5b8488 branch 'rel_a3_2_0_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ad3e6ec15527a1ad8b4941cb78aceafd7ed22f03 branch 'rel_a42_sustaining' of https://dscm.esl.cisco.com/git/153/comp-15301477
c37ab6aaa136e569ee56be557b75c92aeb16013f branch 'rel_a5_1_0_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
b156bcd2241d70ec81052b5663d8c6b069017f65 branch 'rel_a5_2_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
2bb36077e10042dc9dbe340fe9901a6d8933482e branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc978dc9d08c7c0d5571ce68846e6d09b93d5abd branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
d4ed23568deaaf816fc0dcf198a32bc6c283b885 branch 'sample_run_test_debug' of https://dscm.esl.cisco.com/git/153/comp-15301477
a150019c95484639ef216a3bb3ee21b66d61d018 branch 'sbc_argos-trevally' of https://dscm.esl.cisco.com/git/153/comp-15301477
19c8721d9eb761db3d5c5b6d2defb986f8e05cef branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
0849d53fc969fd39e3853cb77e6b9661b33295a5 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301477
4da55daab3e93b051197c62a70e58be426d0de41 branch 'scsi_3_0_0_335' of https://dscm.esl.cisco.com/git/153/comp-15301477
ba2bfe62c1c564e851614c5e90ad899c2dcb2b13 branch 'seg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea35cfe64bc318790a1578c7393a585d2269e8cb branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301477
882b3ddf80e6cc20223975d540a5f3ce06d5211f branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301477
2d78051e11087fa9df130ed16695d58533f5db9d branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301477
c58eacd7b4be9c0bd271f4e61a7f6e078c052d3d branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301477
910e03e448e14c1c927de86ad2ead0e0f4449aaf branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
6ecfb089988d1baf1f6fea0e009aa2473cee205b branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301477
8e7ecd7d4c9d49ce6c0ca9f186210ad49be0cc57 branch 'shadow_collapse_6210' of https://dscm.esl.cisco.com/git/153/comp-15301477
758bbe91190f6af9037adc384bae985b4d0c6c8e branch 'shadow_collapse_6213_s33' of https://dscm.esl.cisco.com/git/153/comp-15301477
4bbd7acd3b807a857879f47947f8fea382638451 branch 'shadow_collapse_628' of https://dscm.esl.cisco.com/git/153/comp-15301477
c2a27ab33b615ed7c683909bfe1714710ba822be branch 'shadow_collapse_628a' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc09ae29c6280bd58447a6c8975b24daf46e9744 branch 'shadow_project_627_s40' of

https://dscm.esl.cisco.com/git/153/comp-15301477
4979fdf20120358dd8215ffec66208f738b621f3 branch 'shadow_rel_622' of https://dscm.esl.cisco.com/git/153/comp-15301477
56360246c5e54920bd942f3d734e8487dbb0c5c7 branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301477
5102e54c360518e6424eaabaa83de9f4cc83a742 branch 'sky_fretta_ppb' of https://dscm.esl.cisco.com/git/153/comp-15301477
cd6f19071b5c6284b8e5c18fae559a23db2c1b8e branch 'sky_fretta_ppb_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
03f1327eb449ac3067f904a33359c9821f988a05 branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301477
2ed9d27c056533ea75c0159e94e71c41232d6c2d branch 'skywalker_8k' of https://dscm.esl.cisco.com/git/153/comp-15301477
77ee697ca7602fbf6d6606595ef5f11b850322b7 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
8f15c2fd12e6e400435d10ecb76d70be3428b18e branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
a62b8e3e13b7662737fae6408c7450342c3b743b branch 'skywalker_rel_8_3_0_cv_0_4pe_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
53f276932c3cc60321a3ce96a8c6c5f19089a99f branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0b35d80ac5678321816490e1985fc4c08e07651 branch 'skywalker_rel_8_3_0_cv_0_787_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
10a5bca0adaad8e190165f0f4226782809271a5d branch 'skywalker_rel_8_4_0_sk_0_1n_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
e1576d658f29c5357d3d8b5879a41973f8fadc31 branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301477
1e7f589498d137e2e17b4919259e2765704013ae branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301477
7cb89e672ad2f3d78eec01581ab26d6c1bc30212 branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301477
4ed10213582e68a81e74422ac716d0b1c851abac branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
2b8ef31e0fd8ae86010c6fe5158a3767f45b282b branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301477
2dc2bb79092248708c75d611893e3925a2407aed branch 'smu_n7k_r710_sajjad_test' of https://dscm.esl.cisco.com/git/153/comp-15301477
fd2029a4fb9f4485a7c3986ff5bbb950cb586140 branch 'smu_n7k_r710_temp' of https://dscm.esl.cisco.com/git/153/comp-15301477
839e43b16e95c906f6da38914b9272c00ac7860b branch 'smu_rel_9_2_3' of https://dscm.esl.cisco.com/git/153/comp-15301477
cd39088d730d51369ac0a70b0194bf2fbbab8a38 branch 'ssp_r1_0_fcs1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
ddd7156df813bdb2837dbf587d7effb1ec0b5ab8 branch 'ssp_r1_1_4_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
ab4e601d384919d7878d0fa2686be599ea44d086 branch 'ssp_r2_0_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
1553d089938c98946348528a6b81da0bfb8ee69f branch 'ssp_r2_1_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477

a0117c699069f03226cac9ed055db50a8460d2f6 branch 'ssp_r2_2_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
64ff1922ae968b757b98c4d9c076191a166111ec branch 'ssp_r2_2_2_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
578261edb91fe301440663dbffc2230af80ac5c4 branch 'ssp_r2_3_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
8a9b5b8474dab5e88581caf9d8f61bbf35bf2c28 branch 'ssp_r2_4_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
be857f161c8777baf48b87424ce69e7b59c71732 branch 'ssp_r2_6_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
7528615dc6932f1d5c283b1f4027af5a68819f22 branch 'ssp_r2_7_1_fcs_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301477
ea3ed08167d81238a0c9405d78774bc640af1d79 branch 'st_demo_lu_pair_p1' of https://dscm.esl.cisco.com/git/153/comp-15301477
726d24daa62d7774714d1aef9317db1066df5b5b branch 'st_freetown_clone' of https://dscm.esl.cisco.com/git/153/comp-15301477
090a4612529941b24438fd20f189e71ae89c2761 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301477
74916e62c8dfe3a04365d1335e9859b29cb18d35 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301477
8173d60869a9403a7b291182cb9719dbcdadde95 branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
2db19a8fa64a28dd2c4e7c8adac1761e5e3d05db branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301477
1104a5deaf73a8da88387ab7392467ef5cd770f9 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0b0356cf1f2ba483ba7889c9530f1a6a6066534 branch 't2p' of https://dscm.esl.cisco.com/git/153/comp-15301477
ae89bb5cc7e756fa4cbb351d2eefc5daf5886e5d branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301477
dc0dac350b3bd3605a97dd49974afca3c0f22c3a branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301477
981af11f8f78b07b58ce611901ec56796e0b1f39 branch 'test_branching_time2' of https://dscm.esl.cisco.com/git/153/comp-15301477
862f4ce70faf1e478a7012807be599b59203ded5 branch 'th_ddev' of https://dscm.esl.cisco.com/git/153/comp-15301477
81d6b67965bb0f734e2368909769e38d01240427 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
c44b87ee1e869411cd9f928e4a3a4bd705467969 branch 'trial_proj_1_627_s38' of https://dscm.esl.cisco.com/git/153/comp-15301477
b0a5ba554223b87697ef42a6812a0eb8e1dc835c branch 'trial_proj_627' of https://dscm.esl.cisco.com/git/153/comp-15301477
bc1f7760edd79758a6cc2323dd183445ad0f315f branch 'trial_run_to_check' of https://dscm.esl.cisco.com/git/153/comp-15301477
2667ce5f3339bf242a99ee18a370614b7ebd0db2 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301477
adaafe39dd152b5e19e8e7758a84e4735d9abf5c branch 'turing_andromeda' of https://dscm.esl.cisco.com/git/153/comp-15301477
100bbe87ebd97c27d48197f7219a2009e523b627 branch 'turing_os' of https://dscm.esl.cisco.com/git/153/comp-15301477

aeedbe7c04b4633f8aa6c5fb71dd2cb1704a4068 branch 'turing_th' of https://dscm.esl.cisco.com/git/153/comp-15301477
4dd2b220cbc42a49806f291b9bc324788b0240c4 branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301477
16022046ce3330fc661e049d6742a6d5c472c961 branch 'ucs_e_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
843f805e79bda9f390c34e8ada3608d6b0df39a6 branch 'ucs_fi' of https://dscm.esl.cisco.com/git/153/comp-15301477
3cf60853cba87ba3072f9e32c9296a0652a877b7 branch 'ucs_g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
016e9f5a8283a3968258de5e41344ccb8ef6fb2c branch 'ucs_g_dev_mr4' of https://dscm.esl.cisco.com/git/153/comp-15301477
fa233196dd58e6813d877a4de17153c26a12c63b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
f65d0e2d2ba8322d1cbd5af1b3c75ecd66862ec7 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301477
f2bf4fdb86de69ce4fa7e83ac2644c86935fa4b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301477
88f373147006214de893045b2e12822ccaa45efb branch 'udb_ucs' of https://dscm.esl.cisco.com/git/153/comp-15301477
65cdad9f98332181db59a774793137f553445e87 branch 'udb_wolf' of https://dscm.esl.cisco.com/git/153/comp-15301477
64366d2d5020526c309cd9bdab60dd47cab6e44b branch 'uluru4' of https://dscm.esl.cisco.com/git/153/comp-15301477
5d16d3285f43c440fd077ceafd9b656620a6f6ac branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301477
21f6ee2d781ccef354b0a3fdf68bce3e193b6324 branch 'vdc_scale' of https://dscm.esl.cisco.com/git/153/comp-15301477
d928ed741b4a87dd2aec77baeddaa64e718a0cd1 branch 'vdc_scale2' of https://dscm.esl.cisco.com/git/153/comp-15301477
868aa47e2fb4009b1fa2ca159855de52d4c0cd01 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
f0f09b243ac49f4d8c261fdf6ed86c2f51b6655f branch 'vinci_cx_next_proj' of https://dscm.esl.cisco.com/git/153/comp-15301477
adfdb4cd0a6a548dfa3603c7977c9463d592931b branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301477
1436c704fd59684f4bb2da660fa95b8f774c29a5 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301477
2a900e88127f420b2093a7c199bfa61ceaa6c447 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301477
7f21b9032ed635b4eaefb0cbbaf0d379f622dfac branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301477
40a2023aec76310ce1a48acd2eaa91a97100b950 branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301477
43a2146b0f5dd4f1b7c701919a25e796980f89cd branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-15301477
06f346d27c355525edff52d0a94ca7aafaf82be9 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301477
a9cfcbb97835115f9560e72726897613214a24cc branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301477
f648ae732b8be367022a6a06a41fe638e8c8c4c9 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301477

```
c44c2f3ab7fb9b6787c337ddfc67c3e56f23b4ed  branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-
15301477
c8a730633a2145cbd341b6e3bc5c4371ffc133bd  branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-
15301477
4daf8db37f5b5598290ce9c1ba501b3e5bd8b679  branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0a0e7efad16cc26543e931849454e6f894cc5820  branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-
15301477
fa261b720e7df3d175fc8eac2da3a969b0f65eb9  branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-
15301477
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
c3da9d643002251226ecb9ff51aec487cca6a3e6
72f82a676e4e8a7e8afdf779f565129030a3b2d3
[core]
 repositoryformatversion = 0
 filemode = true
 bare = false
 logallrefupdates = true
[remote "origin"]
 url = https://dscm.esl.cisco.com/git/153/comp-15301478.git
 fetch = +refs/heads/*:refs/remotes/origin/*
[branch "skywalker_com"]
 remote = origin
 merge = refs/heads/skywalker_com
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
0000000000000000000000000000000000000000 06bd77b5d7b50a7afdce738674ec142c655701bf nxbld
<nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301478.git
06bd77b5d7b50a7afdce738674ec142c655701bf 8c2f854e2708bbf9c727a1c92ef848dec8793c10 nxbld
<nxbld@cisco.com> 1571052911 -0700 checkout: moving from skywalker_com to skywalker_com/37
caaa75e0b83f705095b8e9759a6c2468a1e07e98
72f82a676e4e8a7e8afdf779f565129030a3b2d3  'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-
15304913
bb5dd4e3d533c9da4a0346dec4e99db159444284  branch 'atherton_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
b8aff37d77e764c796d1d0c28f2762c01ac53d7b  branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-
15304913
a99b88badbd4272519eee57ccc729e054c977969  branch 'beverlyhills_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
6adacf0ec9833cb347105b9e47b64b225e8ad77f  branch 'beverlyhills_rel_8_2_1_com' of
https://dscm.esl.cisco.com/git/153/comp-15304913
93d12f881c6fe530912b4b211a67c226f5a0a6f6  branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-
15304913
2c44772f070b427bbe767384281cdc2b17c45dd2  branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-
15304913
f2dad64daa260f5464c4192f0d687234345cf571  branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-
15304913
```

1a3e4b284cd4bbbf1236f01feb943b593385afbc branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
333f8b22c5dad178e0e0fc0db61cc88b252a5a4c branch 'davis_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
532ad52e38441b5c968d70e7ee1842532cf38ef4 branch 'davis_rel_8_4_2_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
81558d725c512dea80115034bd969ae7ab82971d branch 'h_brewdog' of https://dscm.esl.cisco.com/git/153/comp-15304913
cb5e960353d156b29d0f7887df66ab8a1b76f8f7 branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
d87970b05607ec1feb037391dbd6269e79de749b branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15304913
71caa948731b1c288916c62c49dd08c79bf86be4 branch 'h_dev_wrl8' of https://dscm.esl.cisco.com/git/153/comp-15304913
532a8e0d81ea4c06fc05ec1ff0b2446b7075609e branch 'h_fretta_jr2' of https://dscm.esl.cisco.com/git/153/comp-15304913
2a7b35189a3c505ab0f6b8981175dd36bbadea93 branch 'h_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15304913
3081e36dc98bdbad6668df02fc53b3fbe91c2043 branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15304913
e580fe800a23ae12cab1b4c3948bfcf3dc7e6943 branch 'hmr1' of https://dscm.esl.cisco.com/git/153/comp-15304913
f853df991f4ddabf796e4905b1ea8f80aa68430d branch 'hyams' of https://dscm.esl.cisco.com/git/153/comp-15304913
c82de33facbe8dcaa7471d6448cbc2692c23133f branch 'i_wrl8_toolchain' of https://dscm.esl.cisco.com/git/153/comp-15304913
c567f993b995c707682ad3e4024dcada9170a44a branch 'iluka' of https://dscm.esl.cisco.com/git/153/comp-15304913
35703830b1028279212d18127310b1f537de2600 branch 'india-bnb' of https://dscm.esl.cisco.com/git/153/comp-15304913
8497e8737769f1623677fb90c1ac1177217fafd9 branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-15304913
4d55199f60767c881ef6b39416561dd1ce82634f branch 'iplus' of https://dscm.esl.cisco.com/git/153/comp-15304913
1d26670bb31832b0da818b9f633b6bf0be96a60e branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-15304913
dd52ff0c8ac184ae065ca78274831af0ebfa5da4 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
1a92f4a9cb1a28a9aaadccc739948747912580f7 branch 'iplus_dev_fact' of https://dscm.esl.cisco.com/git/153/comp-15304913
85d1811cced66133ecd9d8b47f8f2f6c0bdf59a7 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-15304913
142205fcefcbc46a032199f2c0a3f1cc299d2fe0 branch 'janjuc_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
3a4b31955ff71aaadba641deec29bc2c71281a5b branch 'kokomo' of https://dscm.esl.cisco.com/git/153/comp-15304913
efe9493ec6a6085f630d8838eb84c6d475db6a84 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15304913
96c72647f529934f90fcf96b7198e97334a1dec0 branch 'rel_7_3_0_d1_1_1453097459' of https://dscm.esl.cisco.com/git/153/comp-15304913
fbfc3d1578037627321f90c6010d7bfae20124ec branch 'rel_7_3_0_d1_1c_1481384364' of https://dscm.esl.cisco.com/git/153/comp-15304913
d5e42294f3511cdacc487532c4018d64b015d874 branch 'rel_7_3_0_d1_1c_1481435930' of https://dscm.esl.cisco.com/git/153/comp-15304913
b93817d61457625d280905071d174036cf301ed5 branch 'rel_7_3_0_d1_1c_1481436596' of

https://dscm.esl.cisco.com/git/153/comp-15304913
caaa75e0b83f705095b8e9759a6c2468a1e07e98 branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
2222107d6de87a1b37f03c99b2022e8b275e30f0 branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
1c96cf1f4347ad31fca1d1219e080c318d89e4e3 branch 'skywalker_rel_8_3_0_cv_0_5sa_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
57b2eb170c4b4a74ec56c9865f04d4820cb6f65a branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15304913
f416ba248c03ff4cbe2fa9c5c65f8eb4103c2141 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15304913
ac04e81e2b15b0347e9b7608f46e9153a825a1df branch 'sync_skywalker_73_160407_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
99bc53ed7fce2afa73dceadb26697946d127596b branch 'ucs_h_fex_dev' of https://dscm.esl.cisco.com/git/153/comp-15304913
5acaa4186df793d120ec5fd8521a890e82d011e3 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15304913
6e219379ef625b23c0ee622dcd98e8566dcbf4ac branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15304913
ca62ee705ae8500d6b466de450d2ac1930c9cce8 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15304913
0000000000000000000000000000000000000000 72f82a676e4e8a7e8afdf779f565129030a3b2d3 nxbld <nxbld@cisco.com> 1571052914 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
8c2f854e2708bbf9c727a1c92ef848dec8793c10
6ab876a0dbcfa2c947e799e27a35dca800739608
DIRC
]]o$x&]]o$x&:3*yx5M[22export/isan/lic_common.h]]o%M]]o%M:3*(
Cemw7export/isan/lic_defs.h]]o&b]]o&b:3*U[C99$p~export/isan/lic_features.h]]o&SP]]o&SP:3*F91!export/isan/lic_features_itasca.h]]o'3]]o'3:3*yXv5xDGqUexport/isan/lic_intf.h]]o(I]]o(I:3*%Ff]23>:69#export/isan/lic_smart_common_defs.h]]o(()]]o((:3*^*$>f
bexport/isan/lic_smart_defs.h]]o)Lc@]]o)Lc@:3*)J:%Oqy#export/isan/lic_smart_intf.h]]o)
]]o)
:3*0l0{;r
dXexport/isan/licmgr_syserr_def.h]]o*}]]o*}:3*0\azq[d`|!export/isan/licmgr_syslog_def.msg]]o+%]]o+%:3*j _
#w4IKLP lic_api.c]]o+x]]o+x :3*l*NM~vs;lic_api_isan.c]]o,0]]o,0:7U, /MTm_wO module.mkTREEX13 1
  _@*^Lh?P}export10 1
Kwo*$GVisan10 0
,|_*)DDWPRNuDf>
0000000000000000000000000000000000000000 6ab876a0dbcfa2c947e799e27a35dca800739608 nxbld <nxbld@cisco.com> 1571052908 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
ref: refs/remotes/origin/h_cn12k
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
c3da9d643002251226ecb9ff51aec487cca6a3e6 6317bf6b870ced4150254b3da3f7958fa95f2ae2 nxbld <nxbld@cisco.com> 1571052905 -0700 checkout: moving from h_cn12k to davis_com/4
18b34bd8ae4af33255a6f417361e11786b620994
18b34bd8ae4af33255a6f417361e11786b620994 'refs/notes/acme' of https://dscm.esl.cisco.com/git/153/comp-15301478

a9e968e0393d063a27fb613ebd8013c3cfd23235 branch 'a1_5_id_integration' of https://dscm.esl.cisco.com/git/153/comp-15301478
afe8550a2a99bd55b610046fdca6d0e8e16e47eb branch 'acme_empty' of https://dscm.esl.cisco.com/git/153/comp-15301478
308364ff4b363199edaa4c72c54be421e6eafab9 branch 'airstrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d951635e6599d6d825f6f7d76e00b0d980ffd9fd branch 'airstrike_platform_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
81f8d38112706cfe228a221cdd72a9588062b139 branch 'albacore' of https://dscm.esl.cisco.com/git/153/comp-15301478
bd8ee01e51eba6d8807f386f7d3a10bc5cc9f65b branch 'amazon' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb09ca28abb6bb79ae7fa12660ddfdb4e22f673d branch 'andaman' of https://dscm.esl.cisco.com/git/153/comp-15301478
0d9988b3de90d054e1666f39f9e474563369c7c7 branch 'ankaa1_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
8e974fd806e21178acbf71b1a40a25e835f3aa6a branch 'ankara' of https://dscm.esl.cisco.com/git/153/comp-15301478
c8bf2a2ce2ecd0a25787ac002768f580bca55a3a branch 'aons_foundation_fea' of https://dscm.esl.cisco.com/git/153/comp-15301478
f0153cc8691a03ddfeb9fe09487a2ab24a92bb24 branch 'aons_foundation_phase2' of https://dscm.esl.cisco.com/git/153/comp-15301478
209f245ff9d10439d57457153c1c53eca6b14a0e branch 'ashfield' of https://dscm.esl.cisco.com/git/153/comp-15301478
cc56533d43f9e39a60f2a7bfb62d8b1938bfd530 branch 'au' of https://dscm.esl.cisco.com/git/153/comp-15301478
42f3803c386f1eb208fb1675c2fc0f6c91cc28c4 branch 'auriga' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e2abdde0112e8faf7fe7376575ae41c0d7fac3c branch 'auriga_413_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
4e57527e61c55498dde96981a2763819df7559b8 branch 'avalon' of https://dscm.esl.cisco.com/git/153/comp-15301478
5eba6175fe77386b88338a17e2d00642c831d8b2 branch 'avalon_nx_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5cd77b65d4b8b7ddede9b201d7fc9b7b3bc3c5d branch 'avalon_nx_rel_8_1_1a_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
98155803684c6c32501bc515cc81136a43a74f5c branch 'avatar_2' of https://dscm.esl.cisco.com/git/153/comp-15301478
da0988fffdd53577b908ea3ec8af40f78068b5ec branch 'baikal-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
9434333d1a53a7e400b722d14c941908313d3ee7 branch 'baikal_22_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0ba8b4111856085b1761b4fc1efb7ec3e2d3015c branch 'baikal_23_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
9f8cec8effef5fa0652a44107950cf9433f40f3b branch 'baselard' of https://dscm.esl.cisco.com/git/153/comp-15301478
d2b8f4e3fe94a3c793f867a399bbb46e0d287527 branch 'baselard_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
02c73c9c0f8ea32a343152ab5c2ea053b0c412ba branch 'bender' of https://dscm.esl.cisco.com/git/153/comp-15301478
a3d0176a1cee663ff1ae51273b36819b8f916157 branch 'bender_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478

69265b091ea751da11ba4ca4e41cdf7e6a4d789a branch 'bender_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6a472ed4cbdfe3e7a64978035aeaa248895f965 branch 'beverlyhills' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d00b9d06b0ea7ee6fda3dd73c6b869d67a5dded branch 'beverlyhills_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
faa7f394239f28a25f6e5d8196b3ee28413b9d67 branch 'beverlyhills_rel_8_2_3_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
497711a3e17bf818e6903106fe026715895514dc branch 'beverlyhills_rel_8_2_4' of https://dscm.esl.cisco.com/git/153/comp-15301478
9cb4a4d0c61746e528a5e20645a7512c7e9ea776 branch 'beverlyhills_rel_8_2_4_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
c9e422c3edab989cd757e6eb76c57fdad99a61b6 branch 'bl' of https://dscm.esl.cisco.com/git/153/comp-15301478
8eccefee47743483aa4ff7e0a5907eb3ce03875d branch 'bogota' of https://dscm.esl.cisco.com/git/153/comp-15301478
a5b7f1d055b928bdfaf21ae63d201ad6a7d87067 branch 'bouncer_main_31' of https://dscm.esl.cisco.com/git/153/comp-15301478
581840ee91bca23db25ff210ee8f48f088c924fd branch 'bouncer_main_new_3_3' of https://dscm.esl.cisco.com/git/153/comp-15301478
cd09c803cf7b3cb2d7802156ff44377aa66aa93d branch 'brixton' of https://dscm.esl.cisco.com/git/153/comp-15301478
bf01624ddb7848c137cc3fb9cb41340e950c1507 branch 'bronte' of https://dscm.esl.cisco.com/git/153/comp-15301478
f9059ec29402fd4ee5be7a3d2c1220b237dfab40 branch 'c4710ace-a1_7-throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ef062aca523fab7b179dbfc2b28531990e1f04d branch 'cairo' of https://dscm.esl.cisco.com/git/153/comp-15301478
ce9962af46904057f11fb9708dedb4d54e0bb5c1 branch 'calculon' of https://dscm.esl.cisco.com/git/153/comp-15301478
81afd4e3c64fe90013115c0bc393e26a6aeb19c6 branch 'calculon2' of https://dscm.esl.cisco.com/git/153/comp-15301478
947493009e8b5bc81c4196a0de081e1560a7abfe branch 'calculon_tsh' of https://dscm.esl.cisco.com/git/153/comp-15301478
749a41a6d3b20ba21a43d21c873d1b3af59eab05 branch 'camden' of https://dscm.esl.cisco.com/git/153/comp-15301478
c89e8dbd92b78b6bc948f1cdec994cfa683bb779 branch 'cat6k-fex' of https://dscm.esl.cisco.com/git/153/comp-15301478
23dd6099d12bfe2707a0be1814fc5a9702ff62d7 branch 'cinquedia' of https://dscm.esl.cisco.com/git/153/comp-15301478
903505c805418ae362f73860747d1b78b1eba6d1 branch 'cinquedia_bld2_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb27e70ceb2a644c4f99786faf1ece9737ef4f6a branch 'cinquedia_next' of https://dscm.esl.cisco.com/git/153/comp-15301478
145bc311522c112f9571db2cd33c5324ff767666 branch 'converge_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
14918d493e18d785fae043824958b0fa32926d97 branch 'csg2_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
4b765db93d2df109734312bdff039521f8112a46 branch 'cupertino_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
b44b68849c01d3c522a065ce7559510609068115 branch 'd_plus' of https://dscm.esl.cisco.com/git/153/comp-

15301478
bdff5834f036b12d1bf2ac1e5171097914419757 branch 'daox' of https://dscm.esl.cisco.com/git/153/comp-15301478
fb3e10d6fd32e9be210d75893c68e00e1b2f8a92 branch 'daox_vem_ss-project' of https://dscm.esl.cisco.com/git/153/comp-15301478
37c7bc3e9015888ae49d995ab027c2d2d96ea8c0 branch 'db' of https://dscm.esl.cisco.com/git/153/comp-15301478
372426417e0574776faba0a48bd084b7dde3ce9c branch 'dbq' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d05d98bcf4e20379ec9012578a26b1a642cc86b branch 'deewhy' of https://dscm.esl.cisco.com/git/153/comp-15301478
2c341ff12fd1d96eb8046af4783ccafaa6919a4a branch 'delhi' of https://dscm.esl.cisco.com/git/153/comp-15301478
6759232f6dc5b608dab6f45ee64e3c003e7c942e branch 'dominica' of https://dscm.esl.cisco.com/git/153/comp-15301478
dd11747c110645522f329da909751dd75b5a7252 branch 'dp_n3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
542df882658f55c50fe5c5c3ebec2cdbfc1dc0ab branch 'dublin' of https://dscm.esl.cisco.com/git/153/comp-15301478
03badb12a0b66b1421147d9b4a8121e6a7b7bb3b branch 'eagle' of https://dscm.esl.cisco.com/git/153/comp-15301478
693b8b755085214667f3fa7ef1879c99f7034b99 branch 'eagle_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
3a98b8c78bff8bf035238d9ceca7b72413cbfbbb branch 'earth_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4a1074031c1dd029a747ee84fee81fda704a3548 branch 'eden_fcs_mtc' of https://dscm.esl.cisco.com/git/153/comp-15301478
b02be2a6ea95efaf17e2e7efb17d08371a000472 branch 'eden_fcs_trident' of https://dscm.esl.cisco.com/git/153/comp-15301478
e87da2deb0008f582ab8d3cceb74d48cc6213a88 branch 'eden_feat' of https://dscm.esl.cisco.com/git/153/comp-15301478
62b18d674216af92cb8ee958fe094a9e2121a7a9 branch 'edinburgh' of https://dscm.esl.cisco.com/git/153/comp-15301478
cb9d1e296c178aa2ce9a0227cdbec9b194ea6283 branch 'eldorado' of https://dscm.esl.cisco.com/git/153/comp-15301478
576a1d4500233107515f5e524832451c056c33bf branch 'erocks' of https://dscm.esl.cisco.com/git/153/comp-15301478
f936b8772ce3c0969d1530fc0a912c0e06b1cb96 branch 'erocks_plus' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fa109d86c4d75e1c2d01318402cf2b257e1535d branch 'f3_vinci' of https://dscm.esl.cisco.com/git/153/comp-15301478
cca1814aba67221e0a2a423c6d49717f6999ec64 branch 'f_3500' of https://dscm.esl.cisco.com/git/153/comp-15301478
f725771fc2469584a5b3a3780e7673d112aabdd8 branch 'ffex_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
ea6288281cdf21c428b592521cafcee2150b7628 branch 'fh' of https://dscm.esl.cisco.com/git/153/comp-15301478
e8beebbb8f177e4ab4a15b90b260302ebbb97caa branch 'firststrike_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
d784f97ff5701c9fab71069a51ee90a9600e9a12 branch 'freetown' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9088f3e60e64a872d019a2d4b3fbbf6d1b81ca branch 'freetownone' of https://dscm.esl.cisco.com/git/153/comp-15301478
39eb5b40f093bed1eef7cbdca0b1f88cc4248add branch 'fretta' of https://dscm.esl.cisco.com/git/153/comp-15301478

2bbb4c5769f5525d9ac49549968715e6d287df81 branch 'ft-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
2b49105ff402ffb3ca2355ea3fe4a800ae44e11b branch 'ft-mr4' of https://dscm.esl.cisco.com/git/153/comp-15301478
1dedcfa86cd9a1f4d4601d9b0a754bfcda18d342 branch 'ft1-mr2' of https://dscm.esl.cisco.com/git/153/comp-15301478
1bbcd7694d98406fb20cdec3e10c6a48119ff908 branch 'g_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
f323d0d3c2f6bf3cc908c2d15274033aea55cf14 branch 'garibaldi_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
af87e7869259ea7cc89d933b98d646dc6a8a6566 branch 'gbr' of https://dscm.esl.cisco.com/git/153/comp-15301478
a2f61f718b1c6a70da15e490d51c7cc047164bb8 branch 'gbr_bf' of https://dscm.esl.cisco.com/git/153/comp-15301478
39f6a6b0231ee05d699903e1d6886849f967a70f branch 'gbr_bundle_test' of https://dscm.esl.cisco.com/git/153/comp-15301478
79063adcab4db50596b782ae5b508492c7a52228 branch 'gc_maint' of https://dscm.esl.cisco.com/git/153/comp-15301478
fa9d1b0a03db151b8b3a1b8eb026e6362c042995 branch 'gibraltar' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fd0e000351d1c7ec818a79a9ee8abec254da5ea branch 'gibraltartwo' of https://dscm.esl.cisco.com/git/153/comp-15301478
96d2457c996fd955e9a4c7c0e7ef52da142cd672 branch 'gmr1' of https://dscm.esl.cisco.com/git/153/comp-15301478
c1ab9aefc6b1347982a0b6ff2925c54d33a85392 branch 'goldcoast' of https://dscm.esl.cisco.com/git/153/comp-15301478
0dad6c5fe8bdaa73caae3402883ff324d2378508 branch 'golf_nxos' of https://dscm.esl.cisco.com/git/153/comp-15301478
ad7a0e02db66b29c9dae415301f096eaf6ecff60 branch 'gplus_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
11fe16388c801c29bdb744ae63bef535e3a18753 branch 'greensboro' of https://dscm.esl.cisco.com/git/153/comp-15301478
7e22a7dba2ee8ca8ffa2b3571596e2d8d18bb6cb branch 'greensboro_cn6k' of https://dscm.esl.cisco.com/git/153/comp-15301478
d097c8e9cb853f785b88701bb552dfbbc9894135 branch 'h_cn12k' of https://dscm.esl.cisco.com/git/153/comp-15301478
c7d0229dcc541520afc7b4d1c6e7ab010095f77d branch 'h_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
e1bd69b934c4073d8cefb6e7996ead22e511d71f branch 'h_dev_64bit' of https://dscm.esl.cisco.com/git/153/comp-15301478
d4f59c0474caaa0e41fd7ad6f929eb743dd5f324 branch 'h_dev_sa_ft' of https://dscm.esl.cisco.com/git/153/comp-15301478
c6705e834ba11db6846c855c443b55ac2e5830df branch 'hamilton' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6e7312ad4223318e9549e8200b58cbbb9c69e03 branch 'helsinki_mds' of https://dscm.esl.cisco.com/git/153/comp-15301478
ef661f472337a84c6f96e3ee4e7d608ee02bf91b branch 'hmr2_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
36b7d19577707d8e73cd9c87fa49e21f2f54be4a branch 'hyperv' of https://dscm.esl.cisco.com/git/153/comp-15301478
f507d20dbc7a4927d91862c6c6ef222b324ce456 branch 'hyperv_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
d11df479f60faa7782bae049c1d8f6d0c5b97bf8 branch 'hyperv_v2' of https://dscm.esl.cisco.com/git/153/comp-

15301478
c3a0d8739d0aee04c9c26283d2a5d5bfbab112fc branch 'i_wrl8_toolchain' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3dd46f7e5233681d53d946704f3b8484ba79edb branch 'ias' of https://dscm.esl.cisco.com/git/153/comp-15301478
140eb4191a66314e9841045d35d51516e1fa9413 branch 'icaria2_cco' of https://dscm.esl.cisco.com/git/153/comp-
15301478
f8312481aa1fdf22a586c7445cd40ef0eb622f6a branch 'id2' of https://dscm.esl.cisco.com/git/153/comp-15301478
4fefc143cb49a0ffeadae3801a9496a7c1b5eeee branch 'infinity_25k' of https://dscm.esl.cisco.com/git/153/comp-
15301478
415b381b092ad1ecb639827edd6574779f38e8c6 branch 'ioa' of https://dscm.esl.cisco.com/git/153/comp-15301478
69b89a6b04f7bf692aaa07258ede18e84a91701b branch 'iplus_b' of https://dscm.esl.cisco.com/git/153/comp-
15301478
d337838222cbb6b6380522946690749e8f339e17 branch 'iplus_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
1fdcabb6ae1e50c233361876735356c91496da37 branch 'irvine' of https://dscm.esl.cisco.com/git/153/comp-
15301478
059f8da47808923f2683f14086a54c76640d1534 branch 'iscm_ss_atherton' of
https://dscm.esl.cisco.com/git/153/comp-15301478
fc51afb403f07b3c70daaf1ac5bf80c3c1774b42 branch 'itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
3dfd9ac75e0d6e2e1e03907cd1010c2846ab6e33 branch 'itasca_main' of https://dscm.esl.cisco.com/git/153/comp-
15301478
ba2fd9569703df93afb794d1e02f29050a9ac138 branch 'itasca_vo_181b' of https://dscm.esl.cisco.com/git/153/comp-
15301478
f6b6ef8e01e35d97da1e8ca34264a05cb2dbd4d7 branch 'itasca_vo_191' of https://dscm.esl.cisco.com/git/153/comp-
15301478
b901961fb218f1e4f787994711fea2365dc01dd8 branch 'itasca_vo_21033' of
https://dscm.esl.cisco.com/git/153/comp-15301478
fbcf64c850e1f61582489993ce99012d4c246437 branch 'itasca_vo_2106' of https://dscm.esl.cisco.com/git/153/comp-
15301478
23032b1bdcb3039cab2c9bebc452584104d00850 branch 'kilkenny_cco' of https://dscm.esl.cisco.com/git/153/comp-
15301478
276c2c17817d79a12a21f98ab8efc7e6ace890f7 branch 'kilkenny_cco_qip' of
https://dscm.esl.cisco.com/git/153/comp-15301478
eef6ca0c2e377e90a281ca79909357e61e7162d2 branch 'kokomo2' of https://dscm.esl.cisco.com/git/153/comp-
15301478
f0183e78dcf974af418008c22ee73c524f8065fa branch 'kokomo2_mr5' of https://dscm.esl.cisco.com/git/153/comp-
15301478
db2a7d37016efef4a0d076cc33de929f5bd81f12 branch 'kumo' of https://dscm.esl.cisco.com/git/153/comp-15301478
af8b7325142cd9d4f6194cbdb6d8478d34a136da branch 'kumo_classic' of https://dscm.esl.cisco.com/git/153/comp-
15301478
b545c1bb678c670a1e0542335e5f937bc62d9607 branch 'main' of https://dscm.esl.cisco.com/git/153/comp-15301478
b63bd4541f35d414c9c8522643cc89a6b04ea973 branch 'malibu' of https://dscm.esl.cisco.com/git/153/comp-
15301478
6cf77b3e21752b254295c80abf27f1d4ccfbdabb branch 'milan' of https://dscm.esl.cisco.com/git/153/comp-15301478
fd76e8f6248812daa20ea5ccbfe0944034aedacb branch 'mini_ucs_dev' of https://dscm.esl.cisco.com/git/153/comp-
15301478
8be7d6032a008a2eaf4ea90146bb31f71a0821ef branch 'minishan' of https://dscm.esl.cisco.com/git/153/comp-

15301478
2e9f71651efea96ce7ee64a94cc027681e4c9383 branch 'morningstar_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c4f96f211387be7f74487ef50aace6d9bb2f2286 branch 'msgformat' of https://dscm.esl.cisco.com/git/153/comp-15301478
b6d6fa4ddaa707b89d308923496d7742524fa691 branch 'msgformat_n6k2' of
https://dscm.esl.cisco.com/git/153/comp-15301478
982b1b6f225f4ccb7e1827a24630f27f500b738c branch 'n7k_aa_new' of https://dscm.esl.cisco.com/git/153/comp-15301478
663d9fb2685a9fc05729f83f9b1bd22c7b7ed788 branch 'n7k_aa_new_ffex' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3e1206a99d0876716096a242405306e237684f6 branch 'n9k_redmond_dev' of
https://dscm.esl.cisco.com/git/153/comp-15301478
989ed9ca2ca04fb1c103ca40ca5ef8ea8be36cb8 branch 'nxos_music' of https://dscm.esl.cisco.com/git/153/comp-15301478
0c0aa09eafeeba2d8002c8b49af22e16ee5c1f03 branch 'nxos_pi_patching_infra' of
https://dscm.esl.cisco.com/git/153/comp-15301478
46d91c04fe17073fc7dded151478b6fb1288b993 branch 'openflow_poc' of https://dscm.esl.cisco.com/git/153/comp-15301478
af942f9d5bbd9f218dbb9f21b5f328fddeab29e3 branch 'pf_dev1' of https://dscm.esl.cisco.com/git/153/comp-15301478
6fd848d04fcb1f5e33d4444fc677f8eea6beb686 branch 'ph3_5' of https://dscm.esl.cisco.com/git/153/comp-15301478
f2bc608817a1b04e2ce81901c12d34069d54d817 branch 'pi70_rtg_bnb' of https://dscm.esl.cisco.com/git/153/comp-15301478
209779d347aaa695a32863d27f969242a5b9d23f branch 'pi_kernel34' of https://dscm.esl.cisco.com/git/153/comp-15301478
c0d1ed5843a711a9b43143bd16990542f5c9c113 branch 'r33' of https://dscm.esl.cisco.com/git/153/comp-15301478
aeec478944bec360f74ce37afae785d380f77fb9 branch 'r41' of https://dscm.esl.cisco.com/git/153/comp-15301478
9431c359fbc453db8726c3f1081af2eed181654e branch 'r42' of https://dscm.esl.cisco.com/git/153/comp-15301478
f809ccbf2af5aef25ffb8de4f562c0bfc6791688 branch 'rel_3_0_0_a1_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
87d93bc1be10f610ce2eb468cda112f2ea54292f branch 'rel_3_3_2_1224937999' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05c5023d78da3ea7f714b23cd65122180fdba92a branch 'rel_3_4_1_1213608616' of
https://dscm.esl.cisco.com/git/153/comp-15301478
c5f3d774503d3016a38c82dfd55c9c59d928c6b1 branch 'rel_4_2_0_181_1238668610' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ac514a85ac99106c66769ccd4e4e86ee314fced7 branch 'rel_4_2_0_232_1245089908' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4b4b4dec07d40bbf32c9879ab90af1cf3e791950 branch 'rel_5_0_0_107a_1240538733' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5f5579b0d72a3f9473728ceaaac6c1466e39bd1c branch 'rel_5_0_0_224_1254804350' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ff1a854d0ff7e5c0931f314b12082860feb640e1 branch 'rel_5_2_0_270_1303376229' of
https://dscm.esl.cisco.com/git/153/comp-15301478
01afa718a42114dd05b0f0a446686c3e89b4f0e6 branch 'rel_6_2_0_136_1340789244' of
https://dscm.esl.cisco.com/git/153/comp-15301478
689377c1cf4f911431016c5fe6e226845b650492 branch 'rel_6_2_0_166_1340955287' of

https://dscm.esl.cisco.com/git/153/comp-15301478
646a4b83eea9f721abaa5cd580d116969f64b46d branch 'rel_6_2_0_257_1352462481' of
https://dscm.esl.cisco.com/git/153/comp-15301478
20acb97f034c3a8334c38b22606396e76a63a339 branch 'rel_6_2_1_1358881414' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fc08ef49bd79a75f25ed383199bec797979c1f0 branch 'rel_6_2_1_33_1361809351' of
https://dscm.esl.cisco.com/git/153/comp-15301478
751414a01ab1b7a88e07b326f208b9f0c7f6975f branch 'rel_6_2_1_33_1361810972' of
https://dscm.esl.cisco.com/git/153/comp-15301478
7c615c6307d1368a3fe35fd0c5bc543e810302cc branch 'rel_6_2_1_33_1361813473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
951b02670b44338cb9dc08907f9dab8f82d97eaf branch 'rel_6_2_20_1508342187' of
https://dscm.esl.cisco.com/git/153/comp-15301478
8e06fe9b97684f2bdcde119b23a03dc34d491584 branch 'rel_6_2_20_1508343613' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f99b05b7b6f6c8a4be4a48ac41a8a571a8aa24dc branch 'rel_6_2_22_1549471583' of
https://dscm.esl.cisco.com/git/153/comp-15301478
22f08f6fb3a9342449b5d500089beaf540cf9d1b branch 'rel_6_2_22_1549474307' of
https://dscm.esl.cisco.com/git/153/comp-15301478
05fe7b9455364a33abf847c3ec05d731867f1045 branch 'rel_6_2_25_1539182315' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6050a58b40da4df4befdcf88556c6861cd67fe35 branch 'rel_6_2_25_1539191823' of
https://dscm.esl.cisco.com/git/153/comp-15301478
2a048c6f1c03349355e52c52935c2aeaa53efe11 branch 'rel_6_2_25_1539238092' of
https://dscm.esl.cisco.com/git/153/comp-15301478
37372dd95365436d3d3f3b101354d4a92ca3910f branch 'rel_6_2_25_1539239655' of
https://dscm.esl.cisco.com/git/153/comp-15301478
71c8ea4d50a392fb3dabab1da6f0ea4ab07d908f branch 'rel_6_2_25_1539248473' of
https://dscm.esl.cisco.com/git/153/comp-15301478
df97caa3defec8513e1a2204344e6390877deb89 branch 'rel_6_2_25_1539249764' of
https://dscm.esl.cisco.com/git/153/comp-15301478
079bdbabd79f7fa548ed9ee1dc1d3b04d21d3ff2 branch 'rel_6_2_27_1550363800' of
https://dscm.esl.cisco.com/git/153/comp-15301478
9523106cb6551f85591b17c54311433ff8087dfc branch 'rel_6_2_5_1377760250' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5d3123e6c405ae90a2341ab990127f31dbbba3ea branch 'rel_7_3_0_d1_1c_1470763162' of
https://dscm.esl.cisco.com/git/153/comp-15301478
3fd68c8fd1dadc4ffd1acd68989e5a25e1217fcf branch 'rel_7_3_2_d1_1a_1506152203' of
https://dscm.esl.cisco.com/git/153/comp-15301478
ce8c8e553b059b7b99eb3bb4097613c2c5c768df branch 'rel_7_3_2_d1_1a_1506154528' of
https://dscm.esl.cisco.com/git/153/comp-15301478
4813f1d402bb0b717762abd7c7bf4eca73766ed8 branch 'rel_a2_1_2_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
5fb9c13257ffdfab5962c1ba62a724a5fb7e6ae5 branch 'rel_a2_1_5_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
637a0b9c22dce42c9f17a88d104dbb5772e89ad1 branch 'rel_a2_1_throttle' of
https://dscm.esl.cisco.com/git/153/comp-15301478
6082bed932f2aed4226b321e0d0ef659acd39fc6 branch 'rel_a3_1_0_throttle' of

https://dscm.esl.cisco.com/git/153/comp-15301478
72fddd58f69efdf8cf9cfcf168963bfe28a089bf branch 'rel_a3_2_0_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
37b7ca7e8f6a3324b7084ebc1a0d1812bd93efad branch 'rel_a41_sustaining' of https://dscm.esl.cisco.com/git/153/comp-15301478
f3ea3bc2282a05d52e707453d38821cb91a1533c branch 'rel_a42_sustaining' of https://dscm.esl.cisco.com/git/153/comp-15301478
72470eab26284961e1c89db71301559e12bef166 branch 'rel_a5_2_1_throttle' of https://dscm.esl.cisco.com/git/153/comp-15301478
66356d491a36335a136a8f0815f4067ddec9d4bc branch 'rome' of https://dscm.esl.cisco.com/git/153/comp-15301478
b53c16eead58d6956c4b0764defa4423aec50033 branch 'sami_csg_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
753b4aa31444c4bcaf19de0ca2a9f4715df44e00 branch 'sbc_argos-cd8' of https://dscm.esl.cisco.com/git/153/comp-15301478
e155771334f2f31cafdb7008a3b2966b0f1d0e4d branch 'scimitar-a18-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
098a0a196c019d4ee4a4bc15c348fca81235b069 branch 'scimitar_eap2' of https://dscm.esl.cisco.com/git/153/comp-15301478
48446a4b5fe9108d3d29d43acbe572535c5f97c0 branch 'scsi_3_0_0_335' of https://dscm.esl.cisco.com/git/153/comp-15301478
105aa02289eea3020bae4a9aa87ed60fe3e2fa1f branch 'sf' of https://dscm.esl.cisco.com/git/153/comp-15301478
21b124375bab313594e33834cd72d557abd80db8 branch 'sf_main_park' of https://dscm.esl.cisco.com/git/153/comp-15301478
3202a93cf5ed097f2e727003fdecb30998977aa3 branch 'sfish' of https://dscm.esl.cisco.com/git/153/comp-15301478
07ad4755c9cc043b50c7f46bb69ed0190a170582 branch 'sfish_beta1' of https://dscm.esl.cisco.com/git/153/comp-15301478
f30c7f51d5516bd9edccd197209cbe0a879ae4ad branch 'sfish_port_proj' of https://dscm.esl.cisco.com/git/153/comp-15301478
91d074c2a66b413ca62a9afbe04802ef0bc12947 branch 'shadow_2_rel_625' of https://dscm.esl.cisco.com/git/153/comp-15301478
b84db97b172c99605dec6dc11752c5b129861e1b branch 'sj' of https://dscm.esl.cisco.com/git/153/comp-15301478
7a0106b95924f463eecd51e8fbc0f97f01be48df branch 'skywalker' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf branch 'skywalker_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
3fa196950d2e766be74d183453588a4fcc92601a branch 'skywalker_rel_8_2_0_sk_0_148_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
f06e1ed0483da8b4374451d688f81a77b4de5d9e branch 'sl_sch' of https://dscm.esl.cisco.com/git/153/comp-15301478
353bdbdf012daf882a63fb13c14639aa58b85d41 branch 'sl_sch_zn73' of https://dscm.esl.cisco.com/git/153/comp-15301478
55c1b9cd1e7cfb5fd1bdddafe80c78047d5db7be branch 'sla_cadmen' of https://dscm.esl.cisco.com/git/153/comp-15301478
5653a55eaa0b143ab0478f5a26049dcc829c1830 branch 'smos_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
aaac4ed52c966ea355f983b1097a7461de97a192 branch 'smu_n7k_r710' of https://dscm.esl.cisco.com/git/153/comp-15301478
8fc0e776de65ec8a55a4468d62183d1ea5f8e2b8 branch 'smu_n7k_r710_sajjad_test' of

https://dscm.esl.cisco.com/git/153/comp-15301478
71dada888ce90cd69c3970561940ce98b9977941 branch 'smu_n7k_r710_temp' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f8f993be6024be49e485ec745d37db9c97c18259 branch 'sp_skywalker_73_161130_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
f3ae6f149c770ad44aedcc35432f514947e4e887 branch 'st_demo_lu_pair_p1' of
https://dscm.esl.cisco.com/git/153/comp-15301478
cd7423520b4ae3f92fa04577f2342744feb3294e branch 'st_freetown_clone' of
https://dscm.esl.cisco.com/git/153/comp-15301478
2bc93c134779efbe23e065084b6d8d1dade45f65 branch 'stargate' of https://dscm.esl.cisco.com/git/153/comp-15301478
50f390f9ed8b9286c7b311111d3532ff7021a506 branch 'sync_march_7' of https://dscm.esl.cisco.com/git/153/comp-15301478
65e581399de4e9d700c36e5c28948457a2fd599c branch 'sync_skywalker_73_160407_com' of
https://dscm.esl.cisco.com/git/153/comp-15301478
52a5af46815ea0d9d842ba020e104f7cccce88dc branch 'sync_test_c1' of https://dscm.esl.cisco.com/git/153/comp-15301478
1efa7a9070b4abf9f30bbb526c9d9ef301ed42d2 branch 'sync_test_p1' of https://dscm.esl.cisco.com/git/153/comp-15301478
891a5faaf8543fa6cc07cc80cdde010722906e83 branch 'talwar' of https://dscm.esl.cisco.com/git/153/comp-15301478
315803f020b43a75703e1bcd28ef412f53c0aeed branch 'test_aron' of https://dscm.esl.cisco.com/git/153/comp-15301478
0556f775d55169ee22de821b23d64b4f39e4c413 branch 'test_branching_time2' of
https://dscm.esl.cisco.com/git/153/comp-15301478
8713f07d6198f5072dd23927e4760828def510ee branch 'throttle_sbc_argos-cd8' of
https://dscm.esl.cisco.com/git/153/comp-15301478
38dbf00b4621334c955d3289fd92fd51d5f0f305 branch 'tomahawk_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
0e9da8a85ef3efa5f3aa180dc2fc24ba5d8b4f77 branch 'turing' of https://dscm.esl.cisco.com/git/153/comp-15301478
865d29dbafb9353d3be76c1bd63b70cf08606b7f branch 'ucs_1_0' of https://dscm.esl.cisco.com/git/153/comp-15301478
525dd7727316385b75a7a224cd1431e4dd4e4451 branch 'ucs_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
904185ec6f5103b66d17d6b8da11a692191b96b0 branch 'udb' of https://dscm.esl.cisco.com/git/153/comp-15301478
849ec2d80fdae023651c4f52d2fbe13dcf760a04 branch 'vam_itasca_dev' of https://dscm.esl.cisco.com/git/153/comp-15301478
4490d20595812a0f4916ac9d7e53482428865ae3 branch 'venus_rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
82815a4d2ad9eddf3c51a22298ea2059018cc6c1 branch 'violet-rib' of https://dscm.esl.cisco.com/git/153/comp-15301478
80f161749264fc319e7f68bfa4884414b88670c1 branch 'xb_15' of https://dscm.esl.cisco.com/git/153/comp-15301478
76cf7da6ea2506d4a341ef921e7b7217779fd4f3 branch 'xb_dev2' of https://dscm.esl.cisco.com/git/153/comp-15301478
21ba2465d0cbedf990f933a3c03b97197d6149ce branch 'xblade_main' of https://dscm.esl.cisco.com/git/153/comp-15301478
5d2e118677aae02b25ce1c0460708b36e17d2ead branch 'yushan_com' of https://dscm.esl.cisco.com/git/153/comp-15301478
0eea74a6c3bb3141bd056b6c291cadce2085df7f branch 'zn7_1_513_gch' of https://dscm.esl.cisco.com/git/153/comp-

15301478
a6317fa6bea14fb21bae125f5bea5daa328cac16 branch 'zulu' of https://dscm.esl.cisco.com/git/153/comp-15301478
042a2f1ab8db9e1db17ccdb72e8c00c5274b3d12 branch 'zulu_41' of https://dscm.esl.cisco.com/git/153/comp-15301478
6d8037027b72e1f1ea13c9b60ee0365276bf6ab5 branch 'zulu_ca' of https://dscm.esl.cisco.com/git/153/comp-15301478
4d7eb3558c14a0ad99eb671c72244533b0a96a65 branch 'zulu_ca_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
7ac1838dd71f9a0ca114d5a54261dbac4265e558 branch 'zulu_electra' of https://dscm.esl.cisco.com/git/153/comp-15301478
d7d0184d733403ce16715e0a01278781fcf2acab branch 'zulu_eth_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
dc13f3ad869914012eced3645efed76807b27be9 branch 'zulu_integ' of https://dscm.esl.cisco.com/git/153/comp-15301478
f6b6b8d82b5685771f81fdfd56bf8a0e4be59565 branch 'zulu_trash1' of https://dscm.esl.cisco.com/git/153/comp-15301478
06bd77b5d7b50a7afdce738674ec142c655701bf
0000000000000000000000000000000000000000 18b34bd8ae4af33255a6f417361e11786b620994 nxbld <nxbld@cisco.com> 1571052915 -0700 fetch origin +refs/notes/*:refs/notes/* +refs/heads/*:refs/remotes/origin/*: storing ref
0000000000000000000000000000000000000000 caaa75e0b83f705095b8e9759a6c2468a1e07e98 nxbld <nxbld@cisco.com> 1571052911 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15304913.git
caaa75e0b83f705095b8e9759a6c2468a1e07e98 333f8b22c5dad178e0e0fc0db61cc88b252a5a4c nxbld <nxbld@cisco.com> 1571052912 -0700 checkout: moving from skywalker_com to davis_com/2
0000000000000000000000000000000000000000 c3da9d643002251226ecb9ff51aec487cca6a3e6 nxbld <nxbld@cisco.com> 1571052903 -0700 clone: from https://dscm.esl.cisco.com/git/153/comp-15301477.git
DIRC)]]o1H]]o1H:2e osi\s5X@
module.mk]]o1X]]o1X:2f"RJitVEDkUmp?1ysmartpd_agent.c]]o2F]]o2F:2g;Gwz^vO.#smartpd_pfm_info.c]]o3n#@]]o3n#@:2huH[6G18
smartpd_pfm_info.h]]o4]]o4:2i1T(BFf?smartpd_spec_db.c]]o41(]]o41(:0JewSgbsmartpd_spec_db.h];7e]]o5=0Jj|Y'>mW2jsmartpd_spec_defn.rng.xml]"*)]]o5=0J
Yd<T|[,!specfiles/smartpd_spec_dc3_10.xml]"2'j]]o6x0=0JNBB!dAZ)!specfiles/smartpd_spec_dc3_18.xml]"]]o7/m=0J
5b6h<
bb specfiles/smartpd_spec_dc3_4.xml]""ZH]]o7@=0JKg5JPF(eZ
specfiles/smartpd_spec_dc3_9.xml]"]]o8=0Jd0}wpspecfiles/smartpd_spec_eth.xml]]o9E]]o9E:0J
OEH,,"specfiles/smartpd_spec_eth_n5k.xml]H]]o9P=0JE[BMR?.<5]!specfiles/smartpd_spec_m9116s.xml]]o:X]]o:X:0J[!ih#fC specfiles/smartpd_spec_m9148.xml]-
DP]]o:"=0J,\}=V,x!specfiles/smartpd_spec_m9148T.xml];]]o;jP=0J"r*_&
UmIyrD!specfiles/smartpd_spec_m9148s.xml]]p:]]p::0Jg~A+*.&!specfiles/smartpd_spec_m9222i.xml],@]]pF@=0"
fKUw[P!specfiles/smartpd_spec_m9250i.xml]&X]]p=0"P^W#e&!specfiles/smartpd_spec_m9396T.xml]B]]pP=0"y
${Iv S(!specfiles/smartpd_spec_m9396s.xml]]p`]]p`:0"bD+|R$r specfiles/smartpd_spec_m9500.xml]<0]]p=0" K0m
L|{ specfiles/smartpd_spec_m9700.xml]<]]pv0=0"
1n'&gF`o*9 specfiles/smartpd_spec_m9706.xml]<^`]]p4=0"
2`b~9s
D3pt specfiles/smartpd_spec_m9710.xml]<0]]pj`=0"
2B6*]28+) specfiles/smartpd_spec_m9718.xml]]phX]]phX:0"p(;pr`]*-

J+specfiles/smartpd_spec_nexus_norcal_128.xml]]p^]]p^:0"n!,mjz7(5K]&W*specfiles/smartpd_spec_nexus_norcal_24.xml]]p3@]]p3@:0"JtK.Ft{MC+specfiles/smartpd_spec_nexus_norcal_384.xml]]p]]p:0"sG**N1u*specfiles/smartpd_spec_nexus_norcal_48.xml]]pe#]]pe#:0"j'ApXM|#*specfiles/smartpd_spec_nexus_norcal_64.xml]]p]]p:0"fe$t)3*specfiles/smartpd_spec_nexus_norcal_72.xml]]p H]]p
H:31hLMF7'specfiles/smartpd_spec_nexus_or2_48.xml]]p
l]]p
l:31d'd`XG=N
'specfiles/smartpd_spec_nexus_or2_96.xml]]pX]]pX:31hLMF7'specfiles/smartpd_spec_nexus_oregon.xml]]p]]p:31hLMF7(specfiles/smartpd_spec_nexus_oregon2.xml]220(]]p5=31%3AiTj[@Lf`specfiles/smartpd_spec_xbow.xml]3]]p8=31El'>p4"specfiles/smartpd_spec_xbow_10.xml]3`]]p
u(=31X).STO./:T"specfiles/smartpd_spec_xbow_18.xml]2;V7P]]p=31XP^ZRnW!specfiles/smartpd_spec_xbow_2.xml]3#%(]]p$=318..Iwyo!specfiles/smartpd_spec_xbow_6.xmlTREE=41 1
7'R\0`hxOspecfiles34 0
0
0Qu`!?B>e=>RyD

1.469 pcre 7.8

1.469.1 Available under license :

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

Release 7 of PCRE is distributed under the terms of the "BSD" licence, as
specified below. The documentation for PCRE, supplied in the "doc"
directory, is distributed under the same terms as the software itself.

The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

Copyright (c) 1997-2008 University of Cambridge
All rights reserved.

THE C++ WRAPPER FUNCTIONS

Contributed by: Google Inc.

Copyright (c) 2007-2008, Google Inc.
All rights reserved.

THE "BSD" LICENCE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End

1.470 bash 4.4.23

1.470.1 Available under license :

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document "free" in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of "copyleft", which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The "Document", below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as "you". You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A "Modified Version" of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of

the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself,

plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify

you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the

Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

C. State on the Title page the name of the publisher of the Modified Version, as the publisher.

D. Preserve all the copyright notices of the Document.

E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

H. Include an unaltered copy of this License.

I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

J. Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the "History" section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications", Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements" or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains

nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other

documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version

number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

> Copyright (c) YEAR YOUR NAME.
> Permission is granted to copy, distribute and/or modify this document
> under the terms of the GNU Free Documentation License, Version 1.3
> or any later version published by the Free Software Foundation;
> with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts.
> A copy of the license is included in the section entitled "GNU

Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the "with...Texts." line with this:

with the Invariant Sections being LIST THEIR TITLES, with the
Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you

these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of

works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major

Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the

written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the

terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work

in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this

License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY

OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD

PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way

to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not

allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a

specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item

Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does

not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections,

and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:

@c ispell-local-pdict: "ispell-dict"
@c End:
Unless otherwise stated, all files in this directory are Copyright (C)
1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,
2004,2005,2006,2007,2008,2009,2010,2011
Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying
and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.471 time 1.7

1.471.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.472 bash 3.2.33

1.472.1 Available under license :

GNU Free Documentation License
Version 1.3, 3 November 2008

Copyright (C) 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
<http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

0. PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document "free" in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of "copyleft", which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

1. APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The "Document", below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as "you". You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A "Modified Version" of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A "Secondary Section" is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The "Invariant Sections" are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The "Cover Texts" are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may

be at most 5 words, and a Back-Cover Text may be at most 25 words.

A "Transparent" copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not "Transparent" is called "Opaque".

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The "Title Page" means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, "Title Page" means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The "publisher" means any person or entity that distributes copies of the Document to the public.

A section "Entitled XYZ" means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as "Acknowledgements", "Dedications", "Endorsements", or "History".) To "Preserve the Title" of such a section when you modify the Document means that it remains a section "Entitled XYZ" according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other

implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

2. VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

3. COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated

location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

4. MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.
B. List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.
C. State on the Title page the name of the publisher of the Modified Version, as the publisher.
D. Preserve all the copyright notices of the Document.
E. Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.
F. Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.
G. Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.
H. Include an unaltered copy of this License.
I. Preserve the section Entitled "History", Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled "History" in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.
J. Preserve the network location, if any, given in the Document for

public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the "History" section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

K. For any section Entitled "Acknowledgements" or "Dedications",
Preserve the Title of the section, and preserve in the section all
the substance and tone of each of the contributor acknowledgements
and/or dedications given therein.

L. Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

M. Delete any section Entitled "Endorsements". Such a section
may not be included in the Modified Version.

N. Do not retitle any existing section to be Entitled "Endorsements"
or to conflict in title with any Invariant Section.

O. Preserve any Warranty Disclaimers.

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled "Endorsements", provided it contains
nothing but endorsements of your Modified Version by various
parties--for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

5. COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled "History" in the various original documents, forming one section Entitled "History"; likewise combine any sections Entitled "Acknowledgements", and any sections Entitled "Dedications". You must delete all sections Entitled "Endorsements".

6. COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

7. AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an "aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not

apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

8. TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled "Acknowledgements", "Dedications", or "History", the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

9. TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

10. FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License "or any later version" applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

11. RELICENSING

"Massive Multiauthor Collaboration Site" (or "MMC Site") means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A "Massive Multiauthor Collaboration" (or "MMC") contained in the site means any set of copyrightable works thus published on the MMC site.

"CC-BY-SA" means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

"Incorporate" means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is "eligible for relicensing" if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

> Copyright (c) YEAR YOUR NAME.
> Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.3 or any later version published by the Free Software Foundation; with no Invariant Sections, no Front-Cover Texts, and no Back-Cover Texts. A copy of the license is included in the section entitled "GNU Free Documentation License".

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the "with...Texts." line with this:

> with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a

licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available

@acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution

and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified

Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a

passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute

it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group

@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
Unless otherwise stated, all files in this directory are Copyright (C)
1991,1992,1993,1994,1995,1996,1997,1998,1999,2000,2001,2002,2003,
2004,2005,2006,2007,2008,2009,2010,2011
Free Software Foundation, Inc.

See the file COPYING in the bash distribution root directory for copying
and usage restrictions.

The file ifs-posix.tests is Copyright (C) 2005 Glen Fowler.

1.473 lvm2 2.02.125

1.473.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be

mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated

libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of

any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate

distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS"

WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Library General Public

License as published by the Free Software Foundation; either

version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Library General Public License for more details.

You should have received a copy of the GNU Library General Public

License along with this library; if not, write to the

Free Software Foundation, Inc., 51 Franklin St, Fifth Floor,

Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in

the library `Frob' (a library for tweaking knobs) written

by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation`s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author`s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors` reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone`s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying

it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program`s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the

section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program`s name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w`. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c`
for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright

interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.474 avahi 0.7

1.474.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do

these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library

subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that

everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.475 nose 1.3.7

1.475.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status

of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.476 safeclib 4.0.45

1.476.1 Available under license :

Cisco Safe C Library

Copyright (C) 2012-2015 Cisco Systems
All rights reserved.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND

NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.477 util-linux 2.26.2

1.477.1 Available under license :

/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later file.
WEV @@ WEV[B "1

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for

this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent

access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any

patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED

OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, and the entire permission notice in its entirety,
including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR

BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3-Clause file.
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the
../Documentation/licenses/COPYING.LGPL-2.1-or-later
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.478 sim-serverproperty 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.478.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.479 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

1.479.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2015 xeipuuv

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.480 openssl 1.0.2w

1.480.1 Available under license :

```
LICENSE ISSUES
==============

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License
---------------

/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
```

```
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
```

```
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
```

*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the

Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software

distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.481 openssl 1.0.2ze

1.481.1 Available under license :

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com).
The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.
If this package is used in a product, Eric Young should be given attribution
as the author of that the SSL library. This can be in the form of a textual
message at program startup or in documentation (online or textual) provided
with the package.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
  This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The license and distribution terms for any publically available version or
derivative of this code cannot be changed. i.e. this code cannot simply be
copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past
experience in code simply being copied and the attribution removed
from it and then being distributed as part of other packages. This
implementation was a non-trivial and unpaid effort.

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts. Actually both licenses are BSD-style
Open Source licenses. In case of any license issues related to OpenSSL
please contact openssl-core@openssl.org.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2018 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
```

* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ==
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.

```
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an Blowfish implementation written
by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to.  The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
```

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
must display the following acknowledgement:
This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The license and distribution terms for any publically available version or
derivative of this code cannot be changed. i.e. this code cannot simply be
copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past
experience in code simply being copied and the attribution removed
from it and then being distributed as part of other packages. This
implementation was a non-trivial and unpaid effort.

1.482 cpuid 1.3.1

1.482.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.483 hashicorp-go-version 1.4.0

1.483.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is

controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or

logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to

understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any

character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any

references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible With Secondary Licenses, as defined by the Mozilla Public License, v. 2.0.

1.484 ftpd 1.9.4

1.484.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0

@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical

connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title,

preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition.

Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the

Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or

dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have

received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the

situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article

11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has

been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered

work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided

above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.485 jcmturner-gokrb 7.5.0

1.485.1 Available under license :

[NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows.]

Subject to the license set forth below, Sun Microsystems, Inc. donates the attached files to MIT for the purpose of including these modifications and additions in future versions of the Kerberos system.

Many of the files attached are subject to licenses issued by other entities, including OpenVision, MIT, and FundsXpress. See the individual files, and/or related Readme files, for these licenses.

In addition Sun requires that the license set forth below be incorporated into any future version of the Kerberos system which contains portions of the files attached. The following files must be listed, in the top level Readme file, as being provided subject to such license:

cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

Sun's License is as follows:

Copyright (c) 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright 2000 by Zero-Knowledge Systems, Inc.

Permission to use, copy, modify, distribute, and sell this software
and its documentation for any purpose is hereby granted without fee,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Zero-Knowledge Systems,
Inc. not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission. Zero-Knowledge Systems, Inc. makes no representations
about the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

ZERO-KNOWLEDGE SYSTEMS, INC. DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL ZERO-KNOWLEDGE SYSTEMS, INC. BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTUOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1985-2017 by the Massachusetts Institute of Technology.

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Downloading of this software may constitute an export of cryptographic
software from the United States of America that is subject to the
United States Export Administration Regulations (EAR), 15 CFR 730-774.
Additional laws or regulations may apply. It is the responsibility of
the person or entity contemplating export to comply with all
applicable export laws and regulations, including obtaining any
required license from the U.S. government.

The U.S. government prohibits export of encryption source code to
certain countries and individuals, including, but not limited to, the
countries of Cuba, Iran, North Korea, Sudan, Syria, and residents and
nationals of those countries.

Documentation components of this software distribution are licensed
under a Creative Commons Attribution-ShareAlike 3.0 Unported License.
(http://creativecommons.org/licenses/by-sa/3.0/)

Individual source code files are copyright MIT, Cygnus Support,
Novell, OpenVision Technologies, Oracle, Red Hat, Sun Microsystems,
FundsXpress, and others.

Project Athena, Athena, Athena MUSE, Discuss, Hesiod, Kerberos, Moira,
and Zephyr are trademarks of the Massachusetts Institute of Technology
(MIT). No commercial use of these trademarks may be made without
prior written permission of MIT.

"Commercial use" means use of a name in a product or other for-profit
manner. It does NOT prevent a commercial firm from referring to the
MIT trademarks in order to convey information (although in doing so,

recognition of their trademark status should be given).

==========

The following copyright and permission notice applies to the
OpenVision Kerberos Administration system located in "kadmin/create",
"kadmin/dbutil", "kadmin/passwd", "kadmin/server", "lib/kadm5", and
portions of "lib/rpc":

Copyright, OpenVision Technologies, Inc., 1993-1996, All Rights
Reserved

WARNING: Retrieving the OpenVision Kerberos Administration system
source code, as described below, indicates your acceptance of the
following terms. If you do not agree to the following terms, do
not retrieve the OpenVision Kerberos administration system.

You may freely use and distribute the Source Code and Object Code
compiled from it, with or without modification, but this Source
Code is provided to you "AS IS" EXCLUSIVE OF ANY WARRANTY,
INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR
FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, WHETHER
EXPRESS OR IMPLIED. IN NO EVENT WILL OPENVISION HAVE ANY LIABILITY
FOR ANY LOST PROFITS, LOSS OF DATA OR COSTS OF PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES, OR FOR ANY SPECIAL, INDIRECT, OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING,
WITHOUT LIMITATION, THOSE RESULTING FROM THE USE OF THE SOURCE
CODE, OR THE FAILURE OF THE SOURCE CODE TO PERFORM, OR FOR ANY
OTHER REASON.

OpenVision retains all copyrights in the donated Source Code.
OpenVision also retains copyright to derivative works of the Source
Code, whether created by OpenVision or by a third party. The
OpenVision copyright notice must be preserved if derivative works
are made based on the donated Source Code.

OpenVision Technologies, Inc. has donated this Kerberos
Administration system to MIT for inclusion in the standard Kerberos
5 distribution. This donation underscores our commitment to
continuing Kerberos technology development and our gratitude for
the valuable work which has been performed by MIT and the Kerberos
community.

==========

Portions contributed by Matt Crawford "crawdad@fnal.gov" were work
performed at Fermi National Accelerator Laboratory, which is
operated by Universities Research Association, Inc., under contract

DE-AC02-76CHO3000 with the U.S. Department of Energy.

==========

Portions of "src/lib/crypto" have the following copyright:

Copyright (C) 1998 by the FundsXpress, INC.

All rights reserved.

Export of this software from the United States of America may
require a specific license from the United States Government.
It is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and
distribute this software and its documentation for any purpose and
without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation, and that
the name of FundsXpress. not be used in advertising or publicity
pertaining to distribution of the software without specific,
written prior permission. FundsXpress makes no representations
about the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

==========

The implementation of the AES encryption algorithm in
"src/lib/crypto/builtin/aes" has the following copyright:

Copyright (C) 2001, Dr Brian Gladman "brg@gladman.uk.net", Worcester, UK.
All rights reserved.

LICENSE TERMS

The free distribution and use of this software in both source and
binary form is allowed (with or without changes) provided that:

1. distributions of this source code include the above copyright
notice, this list of conditions and the following disclaimer;

2. distributions in binary form include the above copyright notice,
this list of conditions and the following disclaimer in the

documentation and/or other associated materials;

3. the copyright holder's name is not used to endorse products
built using this software without specific written permission.

DISCLAIMER

This software is provided 'as is' with no explcit or implied
warranties in respect of any properties, including, but not limited
to, correctness and fitness for purpose.

==========

Portions contributed by Red Hat, including the pre-authentication
plug-in framework and the NSS crypto implementation, contain the
following copyright:

Copyright (C) 2006 Red Hat, Inc.
Portions copyright (C) 2006 Massachusetts Institute of Technology
All Rights Reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

* Neither the name of Red Hat, Inc., nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED

OF THE POSSIBILITY OF SUCH DAMAGE.

==========

The bundled verto source code is subject to the following license:

Copyright 2011 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========

The MS-KKDCP client implementation has the following copyright:

Copyright 2013,2014 Red Hat, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c

lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mgluеP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

are subject to the following license:

Copyright (C) 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use, copy,
modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS
BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN
ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

==========

Kerberos V5 includes documentation and software developed at the
University of California at Berkeley, which includes this copyright

notice:

Copyright (C) 1983 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of the University nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

==========

Portions contributed by Novell, Inc., including the LDAP database
backend, are subject to the following license:

Copyright (C) 2004-2005, Novell, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

* The copyright holder's name is not used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Portions funded by Sandia National Laboratory and developed by the
University of Michigan's Center for Information Technology
Integration, including the PKINIT implementation, are subject to the
following license:

COPYRIGHT (C) 2006-2007
THE REGENTS OF THE UNIVERSITY OF MICHIGAN
ALL RIGHTS RESERVED

Permission is granted to use, copy, create derivative works and
redistribute this software and such derivative works for any
purpose, so long as the name of The University of Michigan is not
used in any advertising or publicity pertaining to the use of
distribution of this software without specific, written prior
authorization. If the above copyright notice or any other
identification of the University of Michigan is included in any
copy of any portion of this software, then the disclaimer below
must also be included.

THIS SOFTWARE IS PROVIDED AS IS, WITHOUT REPRESENTATION FROM THE
UNIVERSITY OF MICHIGAN AS TO ITS FITNESS FOR ANY PURPOSE, AND
WITHOUT WARRANTY BY THE UNIVERSITY OF MICHIGAN OF ANY KIND, EITHER
EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
THE REGENTS OF THE UNIVERSITY OF MICHIGAN SHALL NOT BE LIABLE FOR
ANY DAMAGES, INCLUDING SPECIAL, INDIRECT, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES, WITH RESPECT TO ANY CLAIM ARISING OUT OF OR
IN CONNECTION WITH THE USE OF THE SOFTWARE, EVEN IF IT HAS BEEN OR
IS HEREAFTER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

==========

The pkcs11.h file included in the PKINIT code has the following
license:

Copyright 2006 g10 Code GmbH
Copyright 2006 Andreas Jellinghaus

This file is free software; as a special exception the author gives
unlimited permission to copy and/or distribute it, with or without
modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even
the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE.

==========

Portions contributed by Apple Inc. are subject to the following
license:

Copyright 2004-2008 Apple Inc. All Rights Reserved.

Export of this software from the United States of America may
require a specific license from the United States Government.
It is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and
distribute this software and its documentation for any purpose and
without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation, and that
the name of Apple Inc. not be used in advertising or publicity
pertaining to distribution of the software without specific,
written prior permission. Apple Inc. makes no representations
about the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR

IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

==========

The implementations of UTF-8 string handling in src/util/support and src/lib/krb5/unicode are subject to the following copyright and permission notice:

The OpenLDAP Public License
Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

1. Redistributions in source form must retain copyright statements and notices,

2. Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and

3. Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing

in this Software without specific, written prior permission. Title
to copyright in this Software shall at all times remain with
copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City,
California, USA. All Rights Reserved. Permission to copy and
distribute verbatim copies of this document is granted.

==========

Marked test programs in src/lib/krb5/krb have the following copyright:

Copyright (C) 2006 Kungliga Tekniska Hgskola
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of KTH nor the names of its contributors may be
   used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

==========

The KCM Mach RPC definition file used on OS X has the following copyright:

Copyright (C) 2009 Kungliga Tekniska Hgskola
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Portions Copyright (C) 2009 Apple Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Portions of the RPC implementation in src/lib/rpc and src/include/gssrpc have the following copyright and permission notice:

Copyright (C) 2010, Oracle America, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Copyright (C) 2006,2007,2009 NTT (Nippon Telegraph and Telephone Corporation). All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer as the first lines of this file unmodified.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY NTT "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL NTT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Copyright 2000 by Carnegie Mellon University

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Carnegie Mellon University not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

Copyright (C) 2002 Naval Research Laboratory (NRL/CCS)

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof.

NRL ALLOWS FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION AND

DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

==========

Portions extracted from Internet RFCs have the following copyright notice:

Copyright (C) The Internet Society (2006).

This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.

This document and the information contained herein are provided on an "AS IS" basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

==========

Copyright (C) 1991, 1992, 1994 by Cygnus Support.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Cygnus Support makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

==========

Copyright (C) 2006 Secure Endpoints Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========

Portions of the implementation of the Fortuna-like PRNG are subject to
the following notice:

Copyright (C) 2005 Marko Kreen
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (C) 1994 by the University of Southern California

EXPORT OF THIS SOFTWARE from the United States of America may

require a specific license from the United States Government. It
is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to copy, modify, and distribute
this software and its documentation in source and binary forms is
hereby granted, provided that any documentation or other materials
related to such distribution or use acknowledge that the software
was developed by the University of Southern California.

DISCLAIMER OF WARRANTY. THIS SOFTWARE IS PROVIDED "AS IS". The
University of Southern California MAKES NO REPRESENTATIONS OR
WARRANTIES, EXPRESS OR IMPLIED. By way of example, but not
limitation, the University of Southern California MAKES NO
REPRESENTATIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY
PARTICULAR PURPOSE. The University of Southern California shall not
be held liable for any liability nor for any direct, indirect, or
consequential damages with respect to any claim by the user or
distributor of the ksu software.

==========

Copyright (C) 1995
The President and Fellows of Harvard University

This code is derived from software contributed to Harvard by Jeremy
Rassen.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. All advertising materials mentioning features or use of this
   software must display the following acknowledgement:

   This product includes software developed by the University of
   California, Berkeley and its contributors.

4. Neither the name of the University nor the names of its
   contributors may be used to endorse or promote products derived

from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Copyright (C) 2008 by the Massachusetts Institute of Technology.
Copyright 1995 by Richard P. Basch. All Rights Reserved.
Copyright 1995 by Lehman Brothers, Inc. All Rights Reserved.

Export of this software from the United States of America may
require a specific license from the United States Government. It
is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Richard P. Basch, Lehman Brothers and M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Richard P. Basch, Lehman Brothers and M.I.T. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

==========

The following notice applies to "src/lib/krb5/krb/strptime.c" and "src/include/k5-queue.h".

Copyright (C) 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

This code was contributed to The NetBSD Foundation by Klaus Klein.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

   This product includes software developed by the NetBSD Foundation, Inc. and its contributors.

4. Neither the name of The NetBSD Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

The following notice applies to Unicode library files in "src/lib/krb5/unicode":

Copyright 1997, 1998, 1999 Computing Research Labs, New Mexico State University

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy,

modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE COMPUTING RESEARCH LAB OR
NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR
OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE
OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========

The following notice applies to "src/util/support/strlcpy.c":

Copyright (C) 1998 Todd C. Miller "Todd.Miller@courtesan.com"

Permission to use, copy, modify, and distribute this software for
any purpose with or without fee is hereby granted, provided that
the above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE
AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

The following notice applies to "src/util/profile/argv_parse.c" and
"src/util/profile/argv_parse.h":

Copyright 1999 by Theodore Ts'o.

Permission to use, copy, modify, and distribute this software for
any purpose with or without fee is hereby granted, provided that
the above copyright notice and this permission notice appear in all
copies. THE SOFTWARE IS PROVIDED "AS IS" AND THEODORE TS'O (THE
AUTHOR) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,

INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. (Isn't it sick that the U.S. culture of lawsuit-happy lawyers requires this kind of disclaimer?)

==========

The following notice applies to SWIG-generated code in "src/util/profile/profile_tcl.c":

Copyright (C) 1999-2000, The University of Chicago

This file may be freely redistributed without license or fee provided this copyright message remains intact.

==========

The following notice applies to portiions of "src/lib/rpc" and "src/include/gssrpc":

Copyright (C) 2000 The Regents of the University of Michigan. All rights reserved.

Copyright (C) 2000 Dug Song "dugsong@UMICH.EDU". All rights reserved, all wrongs reversed.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES

OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Implementations of the MD4 algorithm are subject to the following notice:

Copyright (C) 1990, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD4 Message Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD4 Message Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

==========

Implementations of the MD5 algorithm are subject to the following notice:

Copyright (C) 1990, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message- Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided
that such works are identified as "derived from the RSA Data
Security, Inc. MD5 Message-Digest Algorithm" in all material
mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either
the merchantability of this software or the suitability of this
software for any particular purpose. It is provided "as is"
without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this
documentation and/or software.

==========

The following notice applies to
"src/lib/crypto/crypto_tests/t_mddriver.c":

Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
rights reserved.

RSA Data Security, Inc. makes no representations concerning either
the merchantability of this software or the suitability of this
software for any particular purpose. It is provided "as is" without
express or implied warranty of any kind.

These notices must be retained in any copies of any part of this
documentation and/or software.

==========

Portions of "src/lib/krb5" are subject to the following notice:

Copyright (C) 1994 CyberSAFE Corporation.
Copyright 1990,1991,2007,2008 by the Massachusetts Institute of Technology.
All Rights Reserved.

Export of this software from the United States of America may
require a specific license from the United States Government. It
is the responsibility of any person or organization
contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and
distribute this software and its documentation for any purpose and
without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation, and that
the name of M.I.T. not be used in advertising or publicity

pertaining to distribution of the software without specific,
written prior permission. Furthermore if you modify this software
you must label your software as modified software and not
distribute it in such a fashion that it might be confused with the
original M.I.T. software. Neither M.I.T., the Open Computing
Security Group, nor CyberSAFE Corporation make any representations
about the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

==========

Portions contributed by PADL Software are subject to the following
license:

Copyright (c) 2011, PADL Software Pty Ltd. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. Neither the name of PADL Software nor the names of its
   contributors may be used to endorse or promote products derived
   from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY PADL SOFTWARE AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL PADL SOFTWARE
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF
USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

==========

The bundled libev source code is subject to the following license:

All files in libev are Copyright (C)2007,2008,2009 Marc Alexander Lehmann.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Alternatively, the contents of this package may be used under the terms of the GNU General Public License ("GPL") version 2 or any later version, in which case the provisions of the GPL are applicable instead of the above. If you wish to allow the use of your version of this package only under the terms of the GPL and not to allow others to use your version of this file under the BSD license, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the GPL in this and the other files of this package. If you do not delete the provisions above, a recipient may use your version of this file under either the BSD or the GPL.

==========

Files copied from the Intel AESNI Sample Library are subject to the following license:

Copyright (C) 2010, Intel Corporation
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

The following notice applies to "src/ccapi/common/win/OldCC/autolock.hxx":

Copyright (C) 1998 by Danilo Almeida. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided

with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright
=========

Copyright |copy| 1985-2017 by the Massachusetts Institute of
Technology and its contributors. All rights reserved.

See :ref:`mitK5license` for additional copyright and license
information.
.. _mitK5license:

MIT Kerberos License information
==========

.. toctree::
:hidden:

copyright.rst

.. include:: notice.rst
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software

Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by he GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed

under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on

the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a

special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the

GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.486 asm 9.5

1.486.1 Available under license :

No license file was found, but licenses were detected in source scan.

// All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions
// are met:
// 1. Redistributions of source code must retain the above copyright

// notice, this list of conditions and the following disclaimer.
// 2. Redistributions in binary form must reproduce the above copyright
// notice, this list of conditions and the following disclaimer in the
// documentation and/or other materials provided with the distribution.
// 3. Neither the name of the copyright holders nor the names of its
// this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
No license file was found, but licenses were detected in source scan.

<!--
* ASM: a very small and fast Java bytecode manipulation framework
* Copyright (c) 2000-2011 INRIA, France Telecom
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. Neither the name of the copyright holders nor the names of its
* contributors may be used to endorse or promote products derived from
* this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
* AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
* SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
* INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
* CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGE.
-->

Found in path(s):
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/signature/package.html
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/package.html
No license file was found, but licenses were detected in source scan.

// All rights reserved.
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions
// are met:
// 1. Redistributions of source code must retain the above copyright
//   notice, this list of conditions and the following disclaimer.
// 2. Redistributions in binary form must reproduce the above copyright
//   notice, this list of conditions and the following disclaimer in the
//   documentation and/or other materials provided with the distribution.
// 3. Neither the name of the copyright holders nor the names of its
//   this software without specific prior written permission.

Found in path(s):
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ClassTooLargeException.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/SymbolTable.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Constants.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Symbol.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ConstantDynamic.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/FieldVisitor.java

* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/RecordComponentWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/RecordComponentVisitor.java
* /opt/cola/permits/1672400550_1683801635.0977094/0/asm-9-5-sources-1-jar/org/objectweb/asm/ClassWriter.java

1.487 linux-kernel 5.10.170

1.487.1 Available under license :

FlashPoint Driver Developer's Kit
Version 1.0

Copyright 1995-1996 by Mylex Corporation
All Rights Reserved

This program is free software; you may redistribute and/or modify it under
the terms of either:

a) the GNU General Public License as published by the Free Software
Foundation; either version 2, or (at your option) any later version,

or

b) the "BSD-style License" included below.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY
or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public
License or the BSD-style License below for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
675 Mass Ave, Cambridge, MA 02139, USA.

The BSD-style License is as follows:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain this LICENSE.FlashPoint file, without modification, this list of conditions, and the following disclaimer. The following copyright notice must appear immediately at the beginning of all source files:

   Copyright 1995-1996 by Mylex Corporation. All Rights Reserved

   This file is available under both the GNU General Public License and a BSD-style copyright; see LICENSE.FlashPoint for details.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of Mylex Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY MYLEX CORP. ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Valid-License-Identifier: BSD-3-Clause
SPDX-URL: https://spdx.org/licenses/BSD-3-Clause.html
Usage-Guide:
To use the BSD 3-clause "New" or "Revised" License put the following SPDX
tag/value pair into a comment according to the placement guidelines in
the licensing rules documentation:
SPDX-License-Identifier: BSD-3-Clause
License-Text:

Copyright (c) <year> <owner> . All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
Valid-License-Identifier: ISC
SPDX-URL: https://spdx.org/licenses/ISC.html
Usage-Guide:
 To use the ISC License put the following SPDX tag/value pair into a
 comment according to the placement guidelines in the licensing rules
 documentation:
  SPDX-License-Identifier: ISC
License-Text:

ISC License

Copyright (c) <year> <copyright holders>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY

SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Valid-License-Identifier: X11
SPDX-URL: https://spdx.org/licenses/X11.html
Usage-Guide:
 To use the X11 put the following SPDX tag/value pair into a comment
 according to the placement guidelines in the licensing rules
 documentation:
   SPDX-License-Identifier: X11
License-Text:

X11 License

Copyright (C) 1996 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other
dealings in this Software without prior written authorization from the X
Consortium.

X Window System is a trademark of X Consortium, Inc.
The Linux Kernel is provided under:

 SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note

Being under the terms of the GNU General Public License version 2 only,
according with:

LICENSES/preferred/GPL-2.0

With an explicit syscall exception, as stated at:

LICENSES/exceptions/Linux-syscall-note

In addition, other licenses may also apply. Please see:

Documentation/process/license-rules.rst

for more details.

All contributions to the Linux Kernel are subject to this COPYING file.

```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
```

```
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
* Copyright (c) 1996 University of Cambridge Computer Laboratory
*
*   This program is free software; you can redistribute it and/or modify
*   it under the terms of the GNU General Public License as published by
*   the Free Software Foundation; either version 2 of the License, or
*   (at your option) any later version.
*
*   This program is distributed in the hope that it will be useful,
*   but WITHOUT ANY WARRANTY; without even the implied warranty of
*   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*   GNU General Public License for more details.
*
*   You should have received a copy of the GNU General Public License
*   along with this program; if not, write to the Free Software
*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

Code in this directory written at the IDA Supercomputing Research Center carries the following copyright and license.

```
  Copyright 1993 United States Government as represented by the
  Director, National Security Agency.  This software may be used
  and distributed according to the terms of the GNU General Public License,
  incorporated herein by reference.

  In addition to the disclaimers in the GPL, SRC expressly disclaims any
  and all warranties, expressed or implied, concerning the enclosed software.
  This software was developed at SRC for use in internal research, and the
  intent in sharing this software is to promote the productive interchange
  of ideas throughout the research community.   All software is furnished
  on an "as-is" basis.  No further updates to this software should be
  expected.  Although updates may occur, no commitment exists.
 Copyright (c) 2003-2006, Marvell International Ltd.
All Rights Reserved

This program is free software; you can redistribute it and/or modify it
under the terms of version 2 of the GNU General Public License as
published by the Free Software Foundation.
```

This program is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for
more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc., 59
Temple Place - Suite 330, Boston, MA 02111-1307, USA.
The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.
Valid-License-Identifier: MIT
SPDX-URL: https://spdx.org/licenses/MIT.html
Usage-Guide:
To use the MIT License put the following SPDX tag/value pair into a
comment according to the placement guidelines in the licensing rules
documentation:
SPDX-License-Identifier: MIT
License-Text:

MIT License

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Valid-License-Identifier: BSD-2-Clause
SPDX-URL: https://spdx.org/licenses/BSD-2-Clause.html
Usage-Guide:
 To use the BSD 2-clause "Simplified" License put the following SPDX
 tag/value pair into a comment according to the placement guidelines in
 the licensing rules documentation:
   SPDX-License-Identifier: BSD-2-Clause
License-Text:

Copyright (c) <year> <owner> . All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN

CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
SPDX-Exception-Identifier: Linux-syscall-note
SPDX-URL: https://spdx.org/licenses/Linux-syscall-note.html
SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+, GPL-2.0-only, GPL-2.0-or-later
Usage-Guide:
 This exception is used together with one of the above SPDX-Licenses
 to mark user space API (uapi) header files so they can be included
 into non GPL compliant user space application code.
 To use this exception add it with the keyword WITH to one of the
 identifiers in the SPDX-Licenses tag:
   SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note
License-Text:

  NOTE! This copyright does *not* cover user programs that use kernel
services by normal system calls - this is merely considered normal use
of the kernel, and does *not* fall under the heading of "derived work".
Also note that the GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (the Linux
kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel
is concerned is _this_ particular version of the license (ie v2, not
v2.2 or v3.x or whatever), unless explicitly otherwise stated.

   Linus Torvalds
Valid-License-Identifier: BSD-3-Clause-Clear
SPDX-URL: https://spdx.org/licenses/BSD-3-Clause-Clear.html
Usage-Guide:
 To use the BSD 3-clause "Clear" License put the following SPDX
 tag/value pair into a comment according to the placement guidelines in
 the licensing rules documentation:
   SPDX-License-Identifier: BSD-3-Clause-Clear
License-Text:

The Clear BSD License

Copyright (c) [xxxx]-[xxxx] [Owner Organization]
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted (subject to the limitations in the disclaimer
below) provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of [Owner Organization] nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

NO EXPRESS OR IMPLIED LICENSES TO ANY PARTY'S PATENT RIGHTS ARE GRANTED BY THIS LICENSE. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Valid-License-Identifier: Zlib
SPDX-URL: https://spdx.org/licenses/Zlib.html
Usage-Guide:
 To use the Zlib License put the following SPDX tag/value pair into a
 comment according to the placement guidelines in the licensing rules
 documentation:
   SPDX-License-Identifier: Zlib
License-Text:

zlib License

Copyright (c) <year> <copyright holders>

This software is provided 'as-is', without any express or implied warranty. In
no event will the authors be held liable for any damages arising from the use
of this software.

Permission is granted to anyone to use this software for any purpose, including
commercial applications, and to alter it and redistribute it freely, subject
to the following restrictions:
 1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software in a
product, an acknowledgment in the product documentation would be appreciated
but is not required.
 2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
 3. This notice may not be removed or altered from any source distribution.

Valid-License-Identifier: Linux-OpenIB
SPDX-URL: https://spdx.org/licenses/Linux-OpenIB.html
Usage-Guide:
To use the Linux Kernel Variant of OpenIB.org license put the following
SPDX tag/value pair into a comment according to the placement guidelines
in the licensing rules documentation:
SPDX-License-Identifier: Linux-OpenIB
License-Text:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is the full-colour version of the currently unofficial Linux logo
("currently unofficial" just means that there has been no paperwork and
that I have not really announced it yet). It was created by Larry Ewing,
and is freely usable as long as you acknowledge Larry as the original
artist.

Note that there are black-and-white versions of this available that
scale down to smaller sizes and are better for letterheads or whatever
you want to use it for: for the full range of logos take a look at
Larry's web-page:

https://www.isc.tamu.edu/~lewing/linux/

1.488 zlib 1.1.4

1.488.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

*/
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.489 strace 4.10

1.489.1 Available under license :

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>
Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (C) 1998-2001 Wichert Akkerman <wakkerma@deephackmode.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the Debian packaged version of strace. For a complete list of
changes from the upstream version please see the changelog.

The upstream sources can be found at http://sourceforge.net/projects/strace/

This is the copyright as found in the upstream sources:

Copyright (c) 1991, 1992 Paul Kranenburg <pk@cs.few.eur.nl>
Copyright (c) 1993 Branko Lankester <branko@hacktic.nl>
Copyright (c) 1993 Ulrich Pegelow <pegelow@moorea.uni-muenster.de>
Copyright (c) 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>
Copyright (c) 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com>
Copyright (C) 1998-2003 Wichert Akkerman <wakkerma@deephackmode.org>
Copyright (c) 2002-2008 Roland McGrath <roland@redhat.com>
Copyright (c) 2003-2008 Dmitry V. Levin <ldv@altlinux.org>
Copyright (c) 2007-2008 Jan Kratochvil <jan.kratochvil@redhat.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.490 sysv-init 2.88

1.490.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Sysvinit is Copyright (C) 1991-2004 Miquel van Smoorenburg

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.491 e2fsprogs 1.43

1.491.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:

Copyright (C) 1999, 2001 by Andries Brouwer
Copyright (C) 1999, 2000, 2003 by Theodore Ts'o

You are free to distribute this software under the terms of the GNU
Lesser (Library) General Public License.

On Debian systems, the complete text of the GNU Lesser (Library)
General Public License can be found in /usr/share/common-licenses/LGPL-2.
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:

Copyright (C) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007 by
Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH

DAMAGE.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the translation
files of the EXT2 file system utilities. The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

Packaging is Copyright (c) 2003-2006 Theodore Ts'o <tytso@mit.edu>
Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright notice:

This package, the EXT2 filesystem utilities, is protected by the GNU
General Public License.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000,
2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.
/*

Copyright 1987 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

*/
Index: tdbsa/tdb.c
==========
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
 /*
-   Unix SMB/CIFS implementation.
+   trivial database library - standalone version

-   trivial database library - private includes
-
-   Copyright (C) Andrew Tridgell   2005
+   Copyright (C) Andrew Tridgell   1999-2005
+   Copyright (C) Jeremy Allison   2000-2006
+   Copyright (C) Paul `Rusty' Russell   2000

    ** NOTE! The following LGPL license applies to the tdb
    ** library. This does NOT imply that all of Samba is released
This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

Packaging is Copyright (c) 2003-2007 Theodore Ts'o <tytso@mit.edu>

Copyright (c) 1997-2003 Yann Dirson <dirson@debian.org>
Copyright (c) 2001 Alcove <http://www.alcove.com/>
Copyright (c) 1997 Klee Dienes
Copyright (c) 1995-1996 Michael Nonweiler <mrn20@cam.ac.uk>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright notice:

This package, the EXT2 filesystem utilities, are made available under the GNU General Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license.

Copyright (c) 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 by Theodore Ts'o

On Debian GNU systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'. The complete text of the GNU Library General Public License can be found in '/usr/share/common-licenses/LGPL-2'.

The license used for lib/et and lib/ss libraries is:

Copyright 1987 by the Student Information Processing Board
of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose is hereby granted, provided that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The license used for lib/uuid is:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, and the entire permission notice in its entirety, including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This package, the EXT2 filesystem utilities, are made available under the GNU Public License version 2, with the exception of the lib/ext2fs and lib/e2p libraries, which are made available under the GNU Library General Public License Version 2, the lib/uuid library which is made available under a BSD-style license and the lib/et and lib/ss libraries which are made available under an MIT-style license. Please see lib/uuid/COPYING for more details for the license for the files comprising the libuuid library, and the source file headers of the libet and libss libraries for more information.

The most recent officially distributed version can be found at http://e2fsprogs.sourceforge.net. If you need to make a distribution, that's the one you should use. If there is some reason why you'd like a more recent version that is still in ALPHA testing (i.e., either using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the

Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or

collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE

LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

Copyright:

Copyright (C) 1999, 2000, 2003, 2004 by Theodore Ts'o

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:

tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice
appear in all copies and that both that copyright notice and
this permission notice appear in supporting documentation,
and that the names of M.I.T. and the M.I.T. S.I.P.B. not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
M.I.T. and the M.I.T. S.I.P.B. make no representations about
the suitability of this software for any purpose. It is
provided "as is" without express or implied warranty.

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM) -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of: tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

Copyright 1987, 1988 by the Student Information Processing Board
 of the Massachusetts Institute of Technology

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of M.I.T. and the M.I.T. S.I.P.B. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. M.I.T. and the M.I.T. S.I.P.B. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.
EXT2ED is hereby placed under the terms of the GNU General Public License.
Follows the GNU license.

Gadi Oxman, August 1995

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.492 mdadm 3.3.1

1.492.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.493 commons-io 2.7

1.493.1 Available under license :

Apache Commons IO
Copyright 2002-2020 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.494 lvm2 1.02.149

1.494.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot

effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it,

under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.495 bc 1.06

1.495.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
/* number.c: Implements arbitrary precision numbers. */
/*
Copyright (C) 1991, 1992, 1993, 1994, 1997, 2000 Free Software Foundation, Inc.

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License , or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; see the file COPYING. If not, write to:

The Free Software Foundation, Inc.
59 Temple Place, Suite 330
Boston, MA 02111-1307 USA.

You may contact the author by:
e-mail: philnelson@acm.org
us-mail: Philip A. Nelson

```
            Computer Science Department, 9062
            Western Washington University
            Bellingham, WA 98226-9062

************************************************************************/

#include <stdio.h>
#include <config.h>
#include <number.h>
#include <assert.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>/* Prototypes needed for external utility routines. */

#define bc_rt_warn rt_warn
#define bc_rt_error rt_error
#define bc_out_of_memory out_of_memory

_PROTOTYPE(void rt_warn, (char *mesg ,...));
_PROTOTYPE(void rt_error, (char *mesg ,...));
_PROTOTYPE(void out_of_memory, (void));

/* Storage used for special numbers. */
bc_num _zero_;
bc_num _one_;
bc_num _two_;

static bc_num _bc_Free_list = NULL;

/* new_num allocates a number and sets fields to known values. */

bc_num
bc_new_num (length, scale)
    int length, scale;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
   temp = _bc_Free_list;
   _bc_Free_list = temp->n_next;
 } else {
   temp = (bc_num) malloc (sizeof(bc_struct));
   if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
 temp->n_scale = scale;
 temp->n_refs = 1;
```

```
 temp->n_ptr = (char *) malloc (length+scale);
 if (temp->n_ptr == NULL) bc_out_of_memory();
 temp->n_value = temp->n_ptr;
 memset (temp->n_ptr, 0, length+scale);
 return temp;
}

/* "Frees" a bc_num NUM.  Actually decreases reference count and only
  frees the storage if reference count is zero. */

void
bc_free_num (num)
   bc_num *num;
{
 if (*num == NULL) return;
 (*num)->n_refs--;
 if ((*num)->n_refs == 0) {
   if ((*num)->n_ptr)
     free ((*num)->n_ptr);
   (*num)->n_next = _bc_Free_list;
   _bc_Free_list = *num;
 }
 *num = NULL;
}


/* Intitialize the number package! */

void
bc_init_numbers ()
{
 _zero_ = bc_new_num (1,0);
 _one_  = bc_new_num (1,0);
 _one_->n_value[0] = 1;
 _two_  = bc_new_num (1,0);
 _two_->n_value[0] = 2;
}


/* Make a copy of a number!  Just increments the reference count! */

bc_num
bc_copy_num (num)
    bc_num num;
{
 num->n_refs++;
 return num;
}
```

```
/* Initialize a number NUM by making it a copy of zero. */

void
bc_init_num (num)
    bc_num *num;
{
 *num = bc_copy_num (_zero_);
}

/* For many things, we may have leading zeros in a number NUM.
  _bc_rm_leading_zeros just moves the data "value" pointer to the
  correct place and adjusts the length. */

static void
_bc_rm_leading_zeros (num)
    bc_num num;
{
 /* We can move n_value to point to the first non zero digit! */
 while (*num->n_value == 0 && num->n_len > 1) {
   num->n_value++;
   num->n_len--;
 }
}


/* Compare two bc numbers.  Return value is 0 if equal, -1 if N1 is less
  than N2 and +1 if N1 is greater than N2.  If USE_SIGN is false, just
  compare the magnitudes. */

static int
_bc_do_compare (n1, n2, use_sign, ignore_last)
    bc_num n1, n2;
    int use_sign;
    int ignore_last;
{
 char *n1ptr, *n2ptr;
 int  count;

 /* First, compare signs. */
 if (use_sign && n1->n_sign != n2->n_sign)
   {
     if (n1->n_sign == PLUS)
 return (1); /* Positive N1 > Negative N2 */
     else
 return (-1); /* Negative N1 < Positive N1 */
   }
```

```
/* Now compare the magnitude. */
if (n1->n_len != n2->n_len)
  {
    if (n1->n_len > n2->n_len)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
    else
{
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
}
  }

/* If we get here, they have the same number of integer digits.
   check the integer part and the equal length part of the fraction. */
count = n1->n_len + MIN (n1->n_scale, n2->n_scale);
n1ptr = n1->n_value;
n2ptr = n2->n_value;

while ((count > 0) && (*n1ptr == *n2ptr))
  {
    n1ptr++;
    n2ptr++;
    count--;
  }
if (ignore_last && count == 1 && n1->n_scale == n2->n_scale)
  return (0);
if (count != 0)
  {
    if (*n1ptr > *n2ptr)
{
  /* Magnitude of n1 > n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (1);
  else
    return (-1);
}
    else
{
```

```
  /* Magnitude of n1 < n2. */
  if (!use_sign || n1->n_sign == PLUS)
    return (-1);
  else
    return (1);
 }
  }

 /* They are equal up to the last part of the equal part of the fraction. */
 if (n1->n_scale != n2->n_scale)
  {
    if (n1->n_scale > n2->n_scale)
 {
  for (count = n1->n_scale-n2->n_scale; count>0; count--)
    if (*n1ptr++ != 0)
      {
 /* Magnitude of n1 > n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (1);
 else
   return (-1);
      }
 }
    else
 {
  for (count = n2->n_scale-n1->n_scale; count>0; count--)
    if (*n2ptr++ != 0)
      {
 /* Magnitude of n1 < n2. */
 if (!use_sign || n1->n_sign == PLUS)
   return (-1);
 else
   return (1);
      }
 }
  }

 /* They must be equal! */
 return (0);
}


/* This is the "user callable" routine to compare numbers N1 and N2. */

int
bc_compare (n1, n2)
    bc_num n1, n2;
{
```

```
 return _bc_do_compare (n1, n2, TRUE, FALSE);
}

/* In some places we need to check if the number is negative. */

char
bc_is_neg (num)
    bc_num num;
{
 return num->n_sign == MINUS;
}

/* In some places we need to check if the number NUM is zero. */

char
bc_is_zero (num)
    bc_num num;
{
 int  count;
 char *nptr;

 /* Quick check. */
 if (num == _zero_) return TRUE;

 /* Initialize */
 count = num->n_len + num->n_scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0)
   return FALSE;
 else
   return TRUE;
}

/* In some places we need to check if the number NUM is almost zero.
  Specifically, all but the last digit is 0 and the last digit is 1.
  Last digit is defined by scale. */

char
bc_is_near_zero (num, scale)
    bc_num num;
    int scale;
{
 int  count;
 char *nptr;
```

```
 /* Error checking */
 if (scale > num->n_scale)
   scale = num->n_scale;

 /* Initialize */
 count = num->n_len + scale;
 nptr = num->n_value;

 /* The check */
 while ((count > 0) && (*nptr++ == 0)) count--;

 if (count != 0 && (count != 1 || *--nptr != 1))
   return FALSE;
 else
   return TRUE;
}


/* Perform addition: N1 is added to N2 and the value is
  returned.  The signs of N1 and N2 are ignored.
  SCALE_MIN is to set the minimum scale of the result. */

static bc_num
_bc_do_add (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num sum;
 int sum_scale, sum_digits;
 char *n1ptr, *n2ptr, *sumptr;
 int carry, n1bytes, n2bytes;
 int count;

 /* Prepare sum. */
 sum_scale = MAX (n1->n_scale, n2->n_scale);
 sum_digits = MAX (n1->n_len, n2->n_len) + 1;
 sum = bc_new_num (sum_digits, MAX(sum_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > sum_scale)
   {
     sumptr = (char *) (sum->n_value + sum_scale + sum_digits);
     for (count = scale_min - sum_scale; count > 0; count--)
 *sumptr++ = 0;
   }

 /* Start with the fraction part.  Initialize the pointers. */
```

```
n1bytes = n1->n_scale;
n2bytes = n2->n_scale;
n1ptr = (char *) (n1->n_value + n1->n_len + n1bytes - 1);
n2ptr = (char *) (n2->n_value + n2->n_len + n2bytes - 1);
sumptr = (char *) (sum->n_value + sum_scale + sum_digits - 1);

/* Add the fraction part.  First copy the longer fraction.*/
if (n1bytes != n2bytes)
  {
    if (n1bytes > n2bytes)
while (n1bytes>n2bytes)
  { *sumptr-- = *n1ptr--; n1bytes--;}
    else
while (n2bytes>n1bytes)
  { *sumptr-- = *n2ptr--; n2bytes--;}
  }

/* Now add the remaining fraction part and equal size integer parts. */
n1bytes += n1->n_len;
n2bytes += n2->n_len;
carry = 0;
while ((n1bytes > 0) && (n2bytes > 0))
  {
    *sumptr = *n1ptr-- + *n2ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
}
    else
carry = 0;
    sumptr--;
    n1bytes--;
    n2bytes--;
  }

/* Now add carry the longer integer part. */
if (n1bytes == 0)
  { n1bytes = n2bytes; n1ptr = n2ptr; }
while (n1bytes-- > 0)
  {
    *sumptr = *n1ptr-- + carry;
    if (*sumptr > (BASE-1))
{
   carry = 1;
   *sumptr -= BASE;
 }
    else
```

```
 carry = 0;
    sumptr--;
   }

 /* Set final carry. */
 if (carry == 1)
   *sumptr += 1;

 /* Adjust sum and return. */
 _bc_rm_leading_zeros (sum);
 return sum;
}


/* Perform subtraction: N2 is subtracted from N1 and the value is
  returned.  The signs of N1 and N2 are ignored.  Also, N1 is
  assumed to be larger than N2.  SCALE_MIN is the minimum scale
  of the result. */

static bc_num
_bc_do_sub (n1, n2, scale_min)
    bc_num n1, n2;
    int scale_min;
{
 bc_num diff;
 int diff_scale, diff_len;
 int min_scale, min_len;
 char *n1ptr, *n2ptr, *diffptr;
 int borrow, count, val;

 /* Allocate temporary storage. */
 diff_len = MAX (n1->n_len, n2->n_len);
 diff_scale = MAX (n1->n_scale, n2->n_scale);
 min_len = MIN  (n1->n_len, n2->n_len);
 min_scale = MIN (n1->n_scale, n2->n_scale);
 diff = bc_new_num (diff_len, MAX(diff_scale, scale_min));

 /* Zero extra digits made by scale_min. */
 if (scale_min > diff_scale)
   {
     diffptr = (char *) (diff->n_value + diff_len + diff_scale);
     for (count = scale_min - diff_scale; count > 0; count--)
 *diffptr++ = 0;
   }

 /* Initialize the subtract. */
 n1ptr = (char *) (n1->n_value + n1->n_len + n1->n_scale -1);
 n2ptr = (char *) (n2->n_value + n2->n_len + n2->n_scale -1);
```

```
diffptr = (char *) (diff->n_value + diff_len + diff_scale -1);

/* Subtract the numbers. */
borrow = 0;

/* Take care of the longer scaled number. */
if (n1->n_scale != min_scale)
  {
    /* n1 has the longer scale */
    for (count = n1->n_scale - min_scale; count > 0; count--)
*diffptr-- = *n1ptr--;
  }
else
  {
    /* n2 has the longer scale */
    for (count = n2->n_scale - min_scale; count > 0; count--)
{
  val = - *n2ptr-- - borrow;
  if (val < 0)
    {
      val += BASE;
      borrow = 1;
    }
  else
    borrow = 0;
  *diffptr-- = val;
}
  }

/* Now do the equal length scale and integer parts. */

for (count = 0; count < min_len + min_scale; count++)
  {
    val = *n1ptr-- - *n2ptr-- - borrow;
    if (val < 0)
{
  val += BASE;
  borrow = 1;
}
    else
borrow = 0;
    *diffptr-- = val;
  }

/* If n1 has more digits then n2, we now do that subtract. */
if (diff_len != min_len)
  {
    for (count = diff_len - min_len; count > 0; count--)
```

```
 {
   val = *n1ptr-- - borrow;
   if (val < 0)
     {
       val += BASE;
       borrow = 1;
     }
   else
     borrow = 0;
   *diffptr-- = val;
 }
   }

 /* Clean up and return. */
 _bc_rm_leading_zeros (diff);
 return diff;
}


/* Here is the full subtract routine that takes care of negative numbers.
  N2 is subtracted from N1 and the result placed in RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_sub (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num diff = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign != n2->n_sign)
   {
     diff = _bc_do_add (n1, n2, scale_min);
     diff->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     /* Compare magnitudes. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);
     switch (cmp_res)
 {
 case -1:
   /* n1 is less than n2, subtract n1 from n2. */
   diff = _bc_do_sub (n2, n1, scale_min);
   diff->n_sign = (n2->n_sign == PLUS ? MINUS : PLUS);
```

```
  break;
 case  0:
  /* They are equal! return zero! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  diff = bc_new_num (1, res_scale);
  memset (diff->n_value, 0, res_scale+1);
  break;
 case  1:
  /* n2 is less than n1, subtract n2 from n1. */
  diff = _bc_do_sub (n1, n2, scale_min);
  diff->n_sign = n1->n_sign;
  break;
 }
  }

 /* Clean up and return. */
 bc_free_num (result);
 *result = diff;
}


/* Here is the full add routine that takes care of negative numbers.
  N1 is added to N2 and the result placed into RESULT.  SCALE_MIN
  is the minimum scale for the result. */

void
bc_add (n1, n2, result, scale_min)
    bc_num n1, n2, *result;
    int scale_min;
{
 bc_num sum = NULL;
 int cmp_res;
 int res_scale;

 if (n1->n_sign == n2->n_sign)
   {
     sum = _bc_do_add (n1, n2, scale_min);
     sum->n_sign = n1->n_sign;
   }
 else
   {
     /* subtraction must be done. */
     cmp_res = _bc_do_compare (n1, n2, FALSE, FALSE);  /* Compare magnitudes. */
     switch (cmp_res)
 {
 case -1:
  /* n1 is less than n2, subtract n1 from n2. */
  sum = _bc_do_sub (n2, n1, scale_min);
```

```
  sum->n_sign = n2->n_sign;
  break;
 case  0:
  /* They are equal! return zero with the correct scale! */
  res_scale = MAX (scale_min, MAX(n1->n_scale, n2->n_scale));
  sum = bc_new_num (1, res_scale);
  memset (sum->n_value, 0, res_scale+1);
  break;
 case  1:
  /* n2 is less than n1, subtract n2 from n1. */
  sum = _bc_do_sub (n1, n2, scale_min);
  sum->n_sign = n1->n_sign;
 }
  }

 /* Clean up and return. */
 bc_free_num (result);
 *result = sum;
}

/* Recursive vs non-recursive multiply crossover ranges. */
#if defined(MULDIGITS)
#include "muldigits.h"
#else
#define MUL_BASE_DIGITS 80
#endif

int mul_base_digits = MUL_BASE_DIGITS;
#define MUL_SMALL_DIGITS mul_base_digits/4

/* Multiply utility routines */

static bc_num
new_sub_num (length, scale, value)
   int length, scale;
   char *value;
{
 bc_num temp;

 if (_bc_Free_list != NULL) {
  temp = _bc_Free_list;
  _bc_Free_list = temp->n_next;
 } else {
  temp = (bc_num) malloc (sizeof(bc_struct));
  if (temp == NULL) bc_out_of_memory ();
 }
 temp->n_sign = PLUS;
 temp->n_len = length;
```

```
 temp->n_scale = scale;
 temp->n_refs = 1;
 temp->n_ptr = NULL;
 temp->n_value = value;
 return temp;
}

static void
_bc_simp_mul (bc_num n1, int n1len, bc_num n2, int n2len, bc_num *prod,
      int full_scale)
{
 char *n1ptr, *n2ptr, *pvptr;
 char *n1end, *n2end;  /* To the end of n1 and n2. */
 int indx, sum, prodlen;

 prodlen = n1len+n2len+1;

 *prod = bc_new_num (prodlen, 0);

 n1end = (char *) (n1->n_value + n1len - 1);
 n2end = (char *) (n2->n_value + n2len - 1);
 pvptr = (char *) ((*prod)->n_value + prodlen - 1);
 sum = 0;

 /* Here is the loop... */
 for (indx = 0; indx < prodlen-1; indx++)
   {
     n1ptr = (char *) (n1end - MAX(0, indx-n2len+1));
     n2ptr = (char *) (n2end - MIN(indx, n2len-1));
     while ((n1ptr >= n1->n_value) && (n2ptr <= n2end))
 sum += *n1ptr-- * *n2ptr++;
     *pvptr-- = sum % BASE;
     sum = sum / BASE;
   }
 *pvptr = sum;
}


/* A special adder/subtractor for the recursive divide and conquer
  multiply algorithm.  Note: if sub is called, accum must
  be larger that what is being subtracted.  Also, accum and val
  must have n_scale = 0.  (e.g. they must look like integers. *) */
static void
_bc_shift_addsub (bc_num accum, bc_num val, int shift, int sub)
{
 signed char *accp, *valp;
 int  count, carry;
```

```
count = val->n_len;
if (val->n_value[0] == 0)
  count--;
assert (accum->n_len+accum->n_scale >= shift+count);

/* Set up pointers and others */
accp = (signed char *)(accum->n_value +
   accum->n_len + accum->n_scale - shift - 1);
valp = (signed char *)(val->n_value + val->n_len - 1);
carry = 0;

if (sub) {
  /* Subtraction, carry is really borrow. */
  while (count--) {
    *accp -= *valp-- + carry;
    if (*accp < 0) {
carry = 1;
      *accp-- += BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
    *accp -= carry;
    if (*accp < 0)
*accp-- += BASE;
    else
carry = 0;
  }
} else {
  /* Addition */
  while (count--) {
    *accp += *valp-- + carry;
    if (*accp > (BASE-1)) {
carry = 1;
      *accp-- -= BASE;
    } else {
carry = 0;
accp--;
    }
  }
  while (carry) {
    *accp += carry;
    if (*accp > (BASE-1))
*accp-- -= BASE;
    else
carry = 0;
```

```
   }
 }
}

/* Recursive divide and conquer multiply algorithm.
  Based on
  Let u = u0 + u1*(b^n)
  Let v = v0 + v1*(b^n)
  Then uv = (B^2n+B^n)*u1*v1 + B^n*(u1-u0)*(v0-v1) + (B^n+1)*u0*v0

  B is the base of storage, number of digits in u1,u0 close to equal.
*/
static void
_bc_rec_mul (bc_num u, int ulen, bc_num v, int vlen, bc_num *prod,
      int full_scale)
{
 bc_num u0, u1, v0, v1;
 int u0len, v0len;
 bc_num m1, m2, m3, d1, d2;
 int n, prodlen, m1zero;
 int d1len, d2len;

 /* Base case? */
 if ((ulen+vlen) < mul_base_digits
     || ulen < MUL_SMALL_DIGITS
     || vlen < MUL_SMALL_DIGITS ) {
  _bc_simp_mul (u, ulen, v, vlen, prod, full_scale);
  return;
 }

 /* Calculate n -- the u and v split point in digits. */
 n = (MAX(ulen, vlen)+1) / 2;

 /* Split u and v. */
 if (ulen < n) {
  u1 = bc_copy_num (_zero_);
  u0 = new_sub_num (ulen,0, u->n_value);
 } else {
  u1 = new_sub_num (ulen-n, 0, u->n_value);
  u0 = new_sub_num (n, 0, u->n_value+ulen-n);
 }
 if (vlen < n) {
  v1 = bc_copy_num (_zero_);
  v0 = new_sub_num (vlen,0, v->n_value);
 } else {
  v1 = new_sub_num (vlen-n, 0, v->n_value);
  v0 = new_sub_num (n, 0, v->n_value+vlen-n);
  }
```

```
_bc_rm_leading_zeros (u1);
_bc_rm_leading_zeros (u0);
u0len = u0->n_len;
_bc_rm_leading_zeros (v1);
_bc_rm_leading_zeros (v0);
v0len = v0->n_len;

m1zero = bc_is_zero(u1) || bc_is_zero(v1);

/* Calculate sub results ... */

bc_init_num(&d1);
bc_init_num(&d2);
bc_sub (u1, u0, &d1, 0);
d1len = d1->n_len;
bc_sub (v0, v1, &d2, 0);
d2len = d2->n_len;


/* Do recursive multiplies and shifted adds. */
if (m1zero)
  m1 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u1, u1->n_len, v1, v1->n_len, &m1, 0);

if (bc_is_zero(d1) || bc_is_zero(d2))
  m2 = bc_copy_num (_zero_);
else
  _bc_rec_mul (d1, d1len, d2, d2len, &m2, 0);

if (bc_is_zero(u0) || bc_is_zero(v0))
  m3 = bc_copy_num (_zero_);
else
  _bc_rec_mul (u0, u0->n_len, v0, v0->n_len, &m3, 0);

/* Initialize product */
prodlen = ulen+vlen+1;
*prod = bc_new_num(prodlen, 0);

if (!m1zero) {
  _bc_shift_addsub (*prod, m1, 2*n, 0);
  _bc_shift_addsub (*prod, m1, n, 0);
}
_bc_shift_addsub (*prod, m3, n, 0);
_bc_shift_addsub (*prod, m3, 0, 0);
_bc_shift_addsub (*prod, m2, n, d1->n_sign != d2->n_sign);

/* Now clean up! */
```

```
 bc_free_num (&u1);
 bc_free_num (&u0);
 bc_free_num (&v1);
 bc_free_num (&m1);
 bc_free_num (&v0);
 bc_free_num (&m2);
 bc_free_num (&m3);
 bc_free_num (&d1);
 bc_free_num (&d2);
}

/* The multiply routine.  N2 times N1 is put int PROD with the scale of
  the result being MIN(N2 scale+N1 scale, MAX (SCALE, N2 scale, N1 scale)).
  */

void
bc_multiply (n1, n2, prod, scale)
    bc_num n1, n2, *prod;
    int scale;
{
 bc_num pval;
 int len1, len2;
 int full_scale, prod_scale;

 /* Initialize things. */
 len1 = n1->n_len + n1->n_scale;
 len2 = n2->n_len + n2->n_scale;
 full_scale = n1->n_scale + n2->n_scale;
 prod_scale = MIN(full_scale,MAX(scale,MAX(n1->n_scale,n2->n_scale)));

 /* Do the multiply */
 _bc_rec_mul (n1, len1, n2, len2, &pval, full_scale);

 /* Assign to prod and clean up the number. */
 pval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
 pval->n_value = pval->n_ptr;
 pval->n_len = len2 + len1 + 1 - full_scale;
 pval->n_scale = prod_scale;
 _bc_rm_leading_zeros (pval);
 if (bc_is_zero (pval))
   pval->n_sign = PLUS;
 bc_free_num (prod);
 *prod = pval;
}

/* Some utility routines for the divide:  First a one digit multiply.
  NUM (with SIZE digits) is multiplied by DIGIT and the result is
  placed into RESULT.  It is written so that NUM and RESULT can be
```

```
  the same pointers.  */

static void
_one_mult (num, size, digit, result)
    unsigned char *num;
    int size, digit;
    unsigned char *result;
{
 int carry, value;
 unsigned char *nptr, *rptr;

 if (digit == 0)
   memset (result, 0, size);
 else
   {
     if (digit == 1)
 memcpy (result, num, size);
     else
 {
   /* Initialize */
   nptr = (unsigned char *) (num+size-1);
   rptr = (unsigned char *) (result+size-1);
   carry = 0;

   while (size-- > 0)
     {
       value = *nptr-- * digit + carry;
       *rptr-- = value % BASE;
       carry = value / BASE;
     }

   if (carry != 0) *rptr = carry;
 }
   }
}


/* The full division routine. This computes N1 / N2.  It returns
  0 if the division is ok and the result is in QUOT.  The number of
  digits after the decimal point is SCALE. It returns -1 if division
  by zero is tried.  The algorithm is found in Knuth Vol 2. p237. */

int
bc_divide (n1, n2, quot, scale)
    bc_num n1, n2, *quot;
    int scale;
{
 bc_num qval;
```

```
unsigned char *num1, *num2;
unsigned char *ptr1, *ptr2, *n2ptr, *qptr;
int  scale1, val;
unsigned int  len1, len2, scale2, qdigits, extra, count;
unsigned int  qdig, qguess, borrow, carry;
unsigned char *mval;
char zero;
unsigned int  norm;

/* Test for divide by zero. */
if (bc_is_zero (n2)) return -1;

/* Test for divide by 1.  If it is we must truncate. */
if (n2->n_scale == 0)
  {
    if (n2->n_len == 1 && *n2->n_value == 1)
{
  qval = bc_new_num (n1->n_len, scale);
  qval->n_sign = (n1->n_sign == n2->n_sign ? PLUS : MINUS);
  memset (&qval->n_value[n1->n_len],0,scale);
  memcpy (qval->n_value, n1->n_value,
   n1->n_len + MIN(n1->n_scale,scale));
  bc_free_num (quot);
  *quot = qval;
}
  }

/* Set up the divide.  Move the decimal point on n1 by n2's scale.
   Remember, zeros on the end of num2 are wasted effort for dividing. */
scale2 = n2->n_scale;
n2ptr = (unsigned char *) n2->n_value+n2->n_len+scale2-1;
while ((scale2 > 0) && (*n2ptr-- == 0)) scale2--;

len1 = n1->n_len + scale2;
scale1 = n1->n_scale - scale2;
if (scale1 < scale)
  extra = scale - scale1;
else
  extra = 0;
num1 = (unsigned char *) malloc (n1->n_len+n1->n_scale+extra+2);
if (num1 == NULL) bc_out_of_memory();
memset (num1, 0, n1->n_len+n1->n_scale+extra+2);
memcpy (num1+1, n1->n_value, n1->n_len+n1->n_scale);

len2 = n2->n_len + scale2;
num2 = (unsigned char *) malloc (len2+1);
if (num2 == NULL) bc_out_of_memory();
memcpy (num2, n2->n_value, len2);
```

```
*(num2+len2) = 0;
n2ptr = num2;
while (*n2ptr == 0)
  {
    n2ptr++;
    len2--;
  }

/* Calculate the number of quotient digits. */
if (len2 > len1+scale)
  {
    qdigits = scale+1;
    zero = TRUE;
  }
else
  {
    zero = FALSE;
    if (len2>len1)
qdigits = scale+1;   /* One for the zero integer part. */
    else
qdigits = len1-len2+scale+1;
  }

/* Allocate and zero the storage for the quotient. */
qval = bc_new_num (qdigits-scale,scale);
memset (qval->n_value, 0, qdigits);

/* Allocate storage for the temporary storage mval. */
mval = (unsigned char *) malloc (len2+1);
if (mval == NULL) bc_out_of_memory ();

/* Now for the full divide algorithm. */
if (!zero)
  {
    /* Normalize */
    norm =  10 / ((int)*n2ptr + 1);
    if (norm != 1)
{
  _one_mult (num1, len1+scale1+extra+1, norm, num1);
  _one_mult (n2ptr, len2, norm, n2ptr);
}

    /* Initialize divide loop. */
    qdig = 0;
    if (len2 > len1)
qptr = (unsigned char *) qval->n_value+len2-len1;
    else
qptr = (unsigned char *) qval->n_value;
```

```
  /* Loop */
  while (qdig <= len1+scale-len2)
{
 /* Calculate the quotient digit guess. */
 if (*n2ptr == num1[qdig])
   qguess = 9;
 else
   qguess = (num1[qdig]*10 + num1[qdig+1]) / *n2ptr;

 /* Test qguess. */
 if (n2ptr[1]*qguess >
     (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
      + num1[qdig+2])
   {
     qguess--;
     /* And again. */
     if (n2ptr[1]*qguess >
  (num1[qdig]*10 + num1[qdig+1] - *n2ptr*qguess)*10
  + num1[qdig+2])
qguess--;
   }

 /* Multiply and subtract. */
 borrow = 0;
 if (qguess != 0)
   {
     *mval = 0;
     _one_mult (n2ptr, len2, qguess, mval+1);
     ptr1 = (unsigned char *) num1+qdig+len2;
     ptr2 = (unsigned char *) mval+len2;
     for (count = 0; count < len2+1; count++)
{
  val = (int) *ptr1 - (int) *ptr2-- - borrow;
  if (val < 0)
    {
      val += 10;
      borrow = 1;
    }
  else
    borrow = 0;
  *ptr1-- = val;
}
   }

 /* Test for negative result. */
 if (borrow == 1)
   {
```

```
      qguess--;
      ptr1 = (unsigned char *) num1+qdig+len2;
      ptr2 = (unsigned char *) n2ptr+len2-1;
      carry = 0;
      for (count = 0; count < len2; count++)
  {
    val = (int) *ptr1 + (int) *ptr2-- + carry;
    if (val > 9)
      {
        val -= 10;
        carry = 1;
      }
    else
      carry = 0;
    *ptr1-- = val;
  }
      if (carry == 1) *ptr1 = (*ptr1 + 1) % 10;
     }

  /* We now know the quotient digit. */
  *qptr++ =  qguess;
  qdig++;
 }
  }

 /* Clean up and return the number. */
 qval->n_sign = ( n1->n_sign == n2->n_sign ? PLUS : MINUS );
 if (bc_is_zero (qval)) qval->n_sign = PLUS;
 _bc_rm_leading_zeros (qval);
 bc_free_num (quot);
 *quot = qval;

 /* Clean up temporary storage. */
 free (mval);
 free (num1);
 free (num2);

 return 0; /* Everything is OK. */
}


/* Division *and* modulo for numbers.  This computes both NUM1 / NUM2 and
  NUM1 % NUM2  and puts the results in QUOT and REM, except that if QUOT
  is NULL then that store will be omitted.
*/

int
bc_divmod (num1, num2, quot, rem, scale)
```

```
    bc_num num1, num2, *quot, *rem;
    int scale;
{
 bc_num quotient = NULL;
 bc_num temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero (num2)) return -1;

 /* Calculate final scale. */
 rscale = MAX (num1->n_scale, num2->n_scale+scale);
 bc_init_num(&temp);

 /* Calculate it. */
 bc_divide (num1, num2, &temp, scale);
 if (quot)
   quotient = bc_copy_num (temp);
 bc_multiply (temp, num2, &temp, rscale);
 bc_sub (num1, temp, rem, rscale);
 bc_free_num (&temp);

 if (quot)
   {
     bc_free_num (quot);
     *quot = quotient;
   }

 return 0; /* Everything is OK. */
}


/* Modulo for numbers.  This computes NUM1 % NUM2  and puts the
  result in RESULT.   */

int
bc_modulo (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
 return bc_divmod (num1, num2, NULL, result, scale);
}

/* Raise BASE to the EXPO power, reduced modulo MOD.  The result is
  placed in RESULT.  If a EXPO is not an integer,
  only the integer part is used.  */

int
```

```
bc_raisemod (base, expo, mod, result, scale)
   bc_num base, expo, mod, *result;
   int scale;
{
 bc_num power, exponent, parity, temp;
 int rscale;

 /* Check for correct numbers. */
 if (bc_is_zero(mod)) return -1;
 if (bc_is_neg(expo)) return -1;

 /* Set initial values.  */
 power = bc_copy_num (base);
 exponent = bc_copy_num (expo);
 temp = bc_copy_num (_one_);
 bc_init_num(&parity);

 /* Check the base for scale digits. */
 if (base->n_scale != 0)
    bc_rt_warn ("non-zero scale in base");

 /* Check the exponent for scale digits. */
 if (exponent->n_scale != 0)
   {
    bc_rt_warn ("non-zero scale in exponent");
    bc_divide (exponent, _one_, &exponent, 0); /*truncate */
   }

 /* Check the modulus for scale digits. */
 if (mod->n_scale != 0)
    bc_rt_warn ("non-zero scale in modulus");

 /* Do the calculation. */
 rscale = MAX(scale, base->n_scale);
 while ( !bc_is_zero(exponent) )
   {
    (void) bc_divmod (exponent, _two_, &exponent, &parity, 0);
    if ( !bc_is_zero(parity) )
 {
  bc_multiply (temp, power, &temp, rscale);
  (void) bc_modulo (temp, mod, &temp, scale);
 }

    bc_multiply (power, power, &power, rscale);
    (void) bc_modulo (power, mod, &power, scale);
   }

 /* Assign the value. */
```

```
 bc_free_num (&power);
 bc_free_num (&exponent);
 bc_free_num (result);
 *result = temp;
 return 0; /* Everything is OK. */
}

/* Raise NUM1 to the NUM2 power.  The result is placed in RESULT.
  Maximum exponent is LONG_MAX.  If a NUM2 is not an integer,
  only the integer part is used.  */

void
bc_raise (num1, num2, result, scale)
    bc_num num1, num2, *result;
    int scale;
{
  bc_num temp, power;
  long exponent;
  int rscale;
  int pwrscale;
  int calcscale;
  char neg;

  /* Check the exponent for scale digits and convert to a long. */
  if (num2->n_scale != 0)
    bc_rt_warn ("non-zero scale in exponent");
  exponent = bc_num2long (num2);
  if (exponent == 0 && (num2->n_len > 1 || num2->n_value[0] != 0))
      bc_rt_error ("exponent too large in raise");

  /* Special case if exponent is a zero. */
  if (exponent == 0)
    {
      bc_free_num (result);
      *result = bc_copy_num (_one_);
      return;
    }

  /* Other initializations. */
  if (exponent < 0)
    {
      neg = TRUE;
      exponent = -exponent;
      rscale = scale;
    }
  else
    {
      neg = FALSE;
```

```
    rscale = MIN (num1->n_scale*exponent, MAX(scale, num1->n_scale));
  }

 /* Set initial value of temp.  */
 power = bc_copy_num (num1);
 pwrscale = num1->n_scale;
 while ((exponent & 1) == 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    exponent = exponent >> 1;
  }
 temp = bc_copy_num (power);
 calcscale = pwrscale;
 exponent = exponent >> 1;

 /* Do the calculation. */
 while (exponent > 0)
  {
    pwrscale = 2*pwrscale;
    bc_multiply (power, power, &power, pwrscale);
    if ((exponent & 1) == 1) {
 calcscale = pwrscale + calcscale;
 bc_multiply (temp, power, &temp, calcscale);
    }
    exponent = exponent >> 1;
  }

 /* Assign the value. */
 if (neg)
  {
    bc_divide (_one_, temp, result, rscale);
    bc_free_num (&temp);
  }
 else
  {
    bc_free_num (result);
    *result = temp;
    if ((*result)->n_scale > rscale)
 (*result)->n_scale = rscale;
  }
 bc_free_num (&power);
}

/* Take the square root NUM and return it in NUM with SCALE digits
 after the decimal place. */

int
```

```
bc_sqrt (num, scale)
    bc_num *num;
    int scale;
{
 int rscale, cmp_res, done;
 int cscale;
 bc_num guess, guess1, point5, diff;

 /* Initial checks. */
 cmp_res = bc_compare (*num, _zero_);
 if (cmp_res < 0)
   return 0;  /* error */
 else
   {
     if (cmp_res == 0)
 {
   bc_free_num (num);
   *num = bc_copy_num (_zero_);
   return 1;
 }
   }
 cmp_res = bc_compare (*num, _one_);
 if (cmp_res == 0)
   {
     bc_free_num (num);
     *num = bc_copy_num (_one_);
     return 1;
   }

 /* Initialize the variables. */
 rscale = MAX (scale, (*num)->n_scale);
 bc_init_num(&guess);
 bc_init_num(&guess1);
 bc_init_num(&diff);
 point5 = bc_new_num (1,1);
 point5->n_value[1] = 5;


 /* Calculate the initial guess. */
 if (cmp_res < 0)
   {
     /* The number is between 0 and 1.  Guess should start at 1. */
     guess = bc_copy_num (_one_);
     cscale = (*num)->n_scale;
   }
 else
   {
     /* The number is greater than 1.  Guess should start at 10^(exp/2). */
```

```
    bc_int2num (&guess,10);

    bc_int2num (&guess1,(*num)->n_len);
    bc_multiply (guess1, point5, &guess1, 0);
    guess1->n_scale = 0;
    bc_raise (guess, guess1, &guess, 0);
    bc_free_num (&guess1);
    cscale = 3;
  }

/* Find the square root using Newton's algorithm. */
done = FALSE;
while (!done)
  {
    bc_free_num (&guess1);
    guess1 = bc_copy_num (guess);
    bc_divide (*num, guess, &guess, cscale);
    bc_add (guess, guess1, &guess, 0);
    bc_multiply (guess, point5, &guess, cscale);
    bc_sub (guess, guess1, &diff, cscale+1);
    if (bc_is_near_zero (diff, cscale))
{
  if (cscale < rscale+1)
    cscale = MIN (cscale*3, rscale+1);
  else
    done = TRUE;
}
  }

/* Assign the number and clean up. */
bc_free_num (num);
bc_divide (guess,_one_,num,rscale);
bc_free_num (&guess);
bc_free_num (&guess1);
bc_free_num (&point5);
bc_free_num (&diff);
return 1;
}


/* The following routines provide output for bcd numbers package
  using the rules of POSIX bc for output. */

/* This structure is used for saving digits in the conversion process. */
typedef struct stk_rec {
 long  digit;
 struct stk_rec *next;
} stk_rec;
```

```
/* The reference string for digits. */
static char ref_str[] = "0123456789ABCDEF";


/* A special output routine for "multi-character digits."  Exactly
  SIZE characters must be output for the value VAL.  If SPACE is
  non-zero, we must output one space before the number.  OUT_CHAR
  is the actual routine for writing the characters. */

void
bc_out_long (val, size, space, out_char)
    long val;
    int size, space;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
{
 char digits[40];
 int len, ix;

 if (space) (*out_char) (' ');
 sprintf (digits, "%ld", val);
 len = strlen (digits);
 while (size > len)
   {
     (*out_char) ('0');
     size--;
   }
 for (ix=0; ix < len; ix++)
   (*out_char) (digits[ix]);
}

/* Output of a bcd number.  NUM is written in base O_BASE using OUT_CHAR
  as the routine to do the actual output of the characters. */

void
bc_out_num (num, o_base, out_char, leading_zero)
    bc_num num;
    int o_base;
#ifdef __STDC__
    void (*out_char)(int);
#else
    void (*out_char)();
#endif
    int leading_zero;
```

```
{
 char *nptr;
 int  index, fdigit, pre_space;
 stk_rec *digits, *temp;
 bc_num int_part, frac_part, base, cur_dig, t_num, max_o_digit;

 /* The negative sign if needed. */
 if (num->n_sign == MINUS) (*out_char) ('-');

 /* Output the number. */
 if (bc_is_zero (num))
   (*out_char) ('0');
 else
   if (o_base == 10)
     {
 /* The number is in base 10, do it the fast way. */
 nptr = num->n_value;
 if (num->n_len > 1 || *nptr != 0)
   for (index=num->n_len; index>0; index--)
     (*out_char) (BCD_CHAR(*nptr++));
 else
   nptr++;

 if (leading_zero && bc_is_zero (num))
   (*out_char) ('0');

 /* Now the fraction. */
 if (num->n_scale > 0)
   {
     (*out_char) ('.');
     for (index=0; index<num->n_scale; index++)
       (*out_char) (BCD_CHAR(*nptr++));
   }
     }
   else
     {
 /* special case ... */
 if (leading_zero && bc_is_zero (num))
   (*out_char) ('0');

 /* The number is some other base. */
 digits = NULL;
 bc_init_num (&int_part);
 bc_divide (num, _one_, &int_part, 0);
 bc_init_num (&frac_part);
 bc_init_num (&cur_dig);
 bc_init_num (&base);
 bc_sub (num, int_part, &frac_part, 0);
```

```
/* Make the INT_PART and FRAC_PART positive. */
int_part->n_sign = PLUS;
frac_part->n_sign = PLUS;
bc_int2num (&base, o_base);
bc_init_num (&max_o_digit);
bc_int2num (&max_o_digit, o_base-1);


/* Get the digits of the integer part and push them on a stack. */
while (!bc_is_zero (int_part))
  {
    bc_modulo (int_part, base, &cur_dig, 0);
    temp = (stk_rec *) malloc (sizeof(stk_rec));
    if (temp == NULL) bc_out_of_memory();
    temp->digit = bc_num2long (cur_dig);
    temp->next = digits;
    digits = temp;
    bc_divide (int_part, base, &int_part, 0);
  }

/* Print the digits on the stack. */
if (digits != NULL)
  {
    /* Output the digits. */
    while (digits != NULL)
      {
 temp = digits;
 digits = digits->next;
 if (o_base <= 16)
   (*out_char) (ref_str[ (int) temp->digit]);
 else
   bc_out_long (temp->digit, max_o_digit->n_len, 1, out_char);
 free (temp);
      }
  }

/* Get and print the digits of the fraction part. */
if (num->n_scale > 0)
  {
    (*out_char) ('.');
    pre_space = 0;
    t_num = bc_copy_num (_one_);
    while (t_num->n_len <= num->n_scale) {
      bc_multiply (frac_part, base, &frac_part, num->n_scale);
      fdigit = bc_num2long (frac_part);
      bc_int2num (&int_part, fdigit);
      bc_sub (frac_part, int_part, &frac_part, 0);
      if (o_base <= 16)
```

```
 (*out_char) (ref_str[fdigit]);
      else {
 bc_out_long (fdigit, max_o_digit->n_len, pre_space, out_char);
 pre_space = 1;
      }
      bc_multiply (t_num, base, &t_num, 0);
    }
    bc_free_num (&t_num);
  }

 /* Clean up. */
 bc_free_num (&int_part);
 bc_free_num (&frac_part);
 bc_free_num (&base);
 bc_free_num (&cur_dig);
 bc_free_num (&max_o_digit);
     }
}
/* Convert a number NUM to a long.  The function returns only the integer
  part of the number.  For numbers that are too large to represent as
  a long, this function returns a zero.  This can be detected by checking
  the NUM for zero after having a zero returned. */

long
bc_num2long (num)
    bc_num num;
{
 long val;
 char *nptr;
 int  index;

 /* Extract the int value, ignore the fraction. */
 val = 0;
 nptr = num->n_value;
 for (index=num->n_len; (index>0) && (val<=(LONG_MAX/BASE)); index--)
   val = val*BASE + *nptr++;

 /* Check for overflow.  If overflow, return zero. */
 if (index>0) val = 0;
 if (val < 0) val = 0;

 /* Return the value. */
 if (num->n_sign == PLUS)
   return (val);
 else
   return (-val);
}
```

```
/* Convert an integer VAL to a bc number NUM. */

void
bc_int2num (num, val)
    bc_num *num;
    int val;
{
 char buffer[30];
 char *bptr, *vptr;
 int  ix = 1;
 char neg = 0;

 /* Sign. */
 if (val < 0)
   {
     neg = 1;
     val = -val;
   }

 /* Get things going. */
 bptr = buffer;
 *bptr++ = val % BASE;
 val = val / BASE;

 /* Extract remaining digits. */
 while (val != 0)
   {
     *bptr++ = val % BASE;
     val = val / BASE;
     ix++;   /* Count the digits. */
   }

 /* Make the number. */
 bc_free_num (num);
 *num = bc_new_num (ix, 0);
 if (neg) (*num)->n_sign = MINUS;

 /* Assign the digits. */
 vptr = (*num)->n_value;
 while (ix-- > 0)
   *vptr++ = *--bptr;
}

/* Convert a numbers to a string.  Base 10 only.*/

char
*num2str (num)
```

```
    bc_num num;
{
 char *str, *sptr;
 char *nptr;
 int  index, signch;

 /* Allocate the string memory. */
 signch = ( num->n_sign == PLUS ? 0 : 1 );  /* Number of sign chars. */
 if (num->n_scale > 0)
   str = (char *) malloc (num->n_len + num->n_scale + 2 + signch);
 else
   str = (char *) malloc (num->n_len + 1 + signch);
 if (str == NULL) bc_out_of_memory();

 /* The negative sign if needed. */
 sptr = str;
 if (signch) *sptr++ = '-';

 /* Load the whole number. */
 nptr = num->n_value;
 for (index=num->n_len; index>0; index--)
   *sptr++ = BCD_CHAR(*nptr++);

 /* Now the fraction. */
 if (num->n_scale > 0)
   {
     *sptr++ = '.';
     for (index=0; index<num->n_scale; index++)
 *sptr++ = BCD_CHAR(*nptr++);
   }

 /* Terminate the string and return it! */
 *sptr = '\0';
 return (str);
}
/* Convert strings to bc numbers.  Base 10 only.*/

void
bc_str2num (num, str, scale)
    bc_num *num;
    char *str;
    int scale;
{
 int digits, strscale;
 char *ptr, *nptr;
 char zero_int;

 /* Prepare num. */
```

```
bc_free_num (num);

/* Check for valid number and count digits. */
ptr = str;
digits = 0;
strscale = 0;
zero_int = FALSE;
if ( (*ptr == '+') || (*ptr == '-'))  ptr++;  /* Sign */
while (*ptr == '0') ptr++;   /* Skip leading zeros. */
while (isdigit((int)*ptr)) ptr++, digits++; /* digits */
if (*ptr == '.') ptr++;   /* decimal point */
while (isdigit((int)*ptr)) ptr++, strscale++; /* digits */
if ((*ptr != '\0') || (digits+strscale == 0))
  {
    *num = bc_copy_num (_zero_);
    return;
  }

/* Adjust numbers and allocate storage and initialize fields. */
strscale = MIN(strscale, scale);
if (digits == 0)
  {
    zero_int = TRUE;
    digits = 1;
  }
*num = bc_new_num (digits, strscale);

/* Build the whole number. */
ptr = str;
if (*ptr == '-')
  {
    (*num)->n_sign = MINUS;
    ptr++;
  }
else
  {
    (*num)->n_sign = PLUS;
    if (*ptr == '+') ptr++;
  }
while (*ptr == '0') ptr++;   /* Skip leading zeros. */
nptr = (*num)->n_value;
if (zero_int)
  {
    *nptr++ = 0;
    digits = 0;
  }
for (;digits > 0; digits--)
  *nptr++ = CH_VAL(*ptr++);
```

```
 /* Build the fractional part. */
 if (strscale > 0)
   {
     ptr++;  /* skip the decimal point! */
     for (;strscale > 0; strscale--)
 *nptr++ = CH_VAL(*ptr++);
   }
}

/* pn prints the number NUM in base 10. */

static void
out_char (int c)
{
 putchar(c);
}


void
pn (num)
    bc_num num;
{
 bc_out_num (num, 10, out_char, 0);
 out_char ('\n');
}


/* pv prints a character array as if it was a string of bcd digits. */
void
pv (name, num, len)
    char *name;
    unsigned char *num;
    int len;
{
 int i;
 printf ("%s=", name);
 for (i=0; i<len; i++) printf ("%c",BCD_CHAR(num[i]));
 printf ("\n");
}
```

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author`s reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user`s freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users` freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its

scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library`s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not

make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer`s own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user`s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You

are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library`s name and an idea of what it does.
Copyright (C) year name of author

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in

the library `Frob` (a library for tweaking knobs) written
by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice
That`s all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and

conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library.

It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.496 otel-exporters-otlp-otlpmetric-otlpmetricgrpc 0.27.0

1.496.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift
Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
Copying and distribution of this file, with or without
modification, are permitted in any medium without royalty provided

the copyright notice and this notice are preserved.

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written permission.
```

//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.497 fsnotify 1.4.9

1.497.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2012-2019 fsnotify Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.498 sysklogd 1.5.1

1.498.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it

in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not

compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS

TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.499 thttpd 2.25b

1.499.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* timers.c - simple timer routines
**
** Copyright © 1995,1998,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND

** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/timers.c
No license file was found, but licenses were detected in source scan.

/* thttpd.c - tiny/turbo/throttling HTTP server
**
** Copyright © 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/thttpd.c
No license file was found, but licenses were detected in source scan.

/*

* Copyright (c) 1988 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms are permitted
* provided that the above copyright notice and this paragraph are
* duplicated in all such forms and that any documentation,
* advertising materials, and other materials related to such
* distribution and use acknowledge that the software was developed
* by the University of California, Berkeley. The name of the
* University may not be used to endorse or promote products derived
* from this software without specific prior written permission.
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/strerror.c
No license file was found, but licenses were detected in source scan.

/* tdate_parse.h - parse string dates into internal form, stripped-down version
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):

* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/tdate_parse.h
No license file was found, but licenses were detected in source scan.

```
/* makeweb.c - let a user create a web subdirectory
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/makeweb.c
No license file was found, but licenses were detected in source scan.

```
/* tdate_parse - parse string dates into internal form, stripped-down version
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
```

** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/tdate_parse.c
No license file was found, but licenses were detected in source scan.

/* phf - cracker trap
**
** Old distributions of the NCSA and Apache web servers included a
** version of the phf program that had a bug. The program could
** easily be made to run arbitrary shell commands. There is no real
** legitimate use for phf, so any attempts to run it must be considered
** to be attacks. Accordingly, this version of phf logs the attack
** and then returns a page indicating that phf doesn't exist.
**
**
** Copyright © 1996 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/phf.c
No license file was found, but licenses were detected in source scan.

All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/Makefile
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/Makefile
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/Makefile
No license file was found, but licenses were detected in source scan.

/* fdwatch.h - header file for fdwatch package
**
** This package abstracts the use of the select()/poll()/kqueue()
** system calls. The basic function of these calls is to watch a set
** of file descriptors for activity. select() originated in the BSD world,
** while poll() came from SysV land, and their interfaces are somewhat
** different. fdwatch lets you write your code to a single interface,
** with the portability differences hidden inside the package.
**
** Usage is fairly simple. Call fdwatch_get_nfiles() to initialize
** the package and find out how many fine descriptors are available.
** Then each time through your main loop, call fdwatch_clear(), then
** fdwatch_add_fd() for each of the descriptors you want to watch,
** then call fdwatch() to actually perform the watch. After it returns
** you can check which descriptors are ready via fdwatch_check_fd().
**
** If your descriptor set hasn't changed from the last time through
** the loop, you can skip calling fdwatch_clear() and fdwatch_add_fd()
** to save a little CPU time.
**
**
** Copyright © 1999 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.

```
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/fdwatch.h
No license file was found, but licenses were detected in source scan.

```
/* fdwatch.c - fd watcher routines, either select() or poll()
**
** Copyright © 1999,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/fdwatch.c
No license file was found, but licenses were detected in source scan.

/* config.h - configuration defines for thttpd and libhttpd
**
** Copyright © 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/config.h
No license file was found, but licenses were detected in source scan.

/* match.c - simple shell-style filename matcher
**
** Only does ? * and **, and multiple patterns separated by |. Returns 1 or 0.
**
** Copyright © 1995,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**

** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/match.c
No license file was found, but licenses were detected in source scan.

/* libhttpd.c - HTTP protocol library
**
** Copyright © 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/libhttpd.c
No license file was found, but licenses were detected in source scan.

/* match.h - simple shell-style filename patcher
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/match.h
No license file was found, but licenses were detected in source scan.

/* mmc.c - mmap cache
**
** Copyright © 1998,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:

** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/mmc.c
No license file was found, but licenses were detected in source scan.

/* mmc.h - header file for mmap cache package
**
** Copyright © 1998 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.

```
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/mmc.h
No license file was found, but licenses were detected in source scan.

```
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"    notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"    notice, this list of conditions and the following disclaimer in the
.\"    documentation and/or other materials provided with the distribution.
.\"
.\" THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
.\" ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
.\" IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
.\" ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
.\" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
.\" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
.\" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/makeweb.1
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/thttpd.8
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern.8
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/redirect.8
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/ssi.8
No license file was found, but licenses were detected in source scan.

```
/* ssi - server-side-includes CGI program
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
```

```
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/ssi.c
No license file was found, but licenses were detected in source scan.

```
/* timers.h - header file for timers package
**
** Copyright © 1995,1998,1999,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/timers.h

No license file was found, but licenses were detected in source scan.

```
/* redirect - simple redirection CGI program
**
** Copyright © 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/redirect.c
No license file was found, but licenses were detected in source scan.

```
/* libhttpd.h - defines for libhttpd
**
** Copyright © 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
```

** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1114038648_1610347506.88/0/thttpd-2-25b-tar/thttpd-2.25b/libhttpd.h

1.500 gofrs-uuid 4.2.0+incompatible

1.500.1 Available under license :

Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.501 flexnet-publisher 10.8.0.1

1.501.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for

unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further

restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's

public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY

OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY

GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD

PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see <http://www.gnu.org/licenses/>.
```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.502 gopkg.in-inf 0.9.1

1.502.1 Available under license :

Copyright (c) 2012 Pter Surnyi. Portions Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.503 hashicorp-go-plugin 1.4.4

1.503.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software

with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some

reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then
You may include the notice in a location (such as a LICENSE file in a relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible
With Secondary Licenses, as defined by
the Mozilla Public License, v. 2.0.

1.504 md5-simd 1.1.0

1.504.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.505 audit 3.12.gf885037

1.505.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's

source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR

REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.506 sim-agent-jobmgr 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.506.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR

A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed

with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate

comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.507 kubernetes-apimachinery 0.24.0

1.507.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.508 xdg-go-stringprep 1.0.2

1.508.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.509 ncftp 3.2.6

1.509.1 Available under license :

The Clarified Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Distribution fee" is a fee you charge for providing a copy of this Package to another party.

"Freely Available" means that no fee is charged for the right to use the item, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain, or those made Freely Available, or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major network archive site allowing unrestricted access to them, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) permit and encourage anyone who receives a copy of the modified Package permission to make your modifications Freely Available in some specific way.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) offer the machine-readable source of the Package, with your modifications, by mail order.

5. You may charge a distribution fee for any distribution of this Package. If you offer support for this Package, you may charge any fee you choose

for that support. You may not charge a license fee for the right to use this Package itself. You may distribute this Package in aggregate with other (possibly commercial and possibly nonfree) programs as part of a larger (possibly commercial and possibly nonfree) software distribution, and charge license fees for other parts of that software distribution, provided that you do not advertise this Package as a product of your own. If the Package includes an interpreter, You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of the Standard Version of the Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.510 libtecla 1.4.1

1.510.1 Available under license :

Copyright (c) 2000, 2001, 2002, 2003, 2004, 2012, 2014 by Martin C. Shepherd.

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL
INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

1.511 procps 3.3.15

1.511.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free

software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.512 protobuf 1.28.1

1.512.1 Available under license :

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.513 hashicorp-uuid 1.0.2

1.513.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in

Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the

Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to

You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,

then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.

1.514 libcap 2.22

1.514.1 Available under license :

Unless otherwise *explicitly* stated the following text describes the licensed conditions under which the contents of this module release may be distributed:

Redistribution and use in source and binary forms of this module, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU Library General Public License, in which case the provisions of the GNU LGPL are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential conflict between the GNU LGPL and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Unless otherwise *explicitly* stated, the following text describes the licensed conditions under which the contents of this libcap release may be used and distributed:

Redistribution and use in source and binary forms of libcap, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain any existing copyright notice, and this entire permission notice in its entirety, including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current copyright notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of any author may not be used to endorse or promote products derived from this software without their specific prior written permission.

ALTERNATIVELY, this product may be distributed under the terms of the GNU General Public License (v2.0 - see below), in which case the provisions of the GNU GPL are required INSTEAD OF the above restrictions. (This clause is necessary due to a potential conflict between the GNU GPL and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Full text of gpl-2.0.txt:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion

of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates

the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.515 xerces-j 2.12.2

1.515.1 Available under license :

Apache XML Commons Resolver
Copyright 2006 The Apache Software Foundation.

This product includes software developed at
The Apache Software Foundation http://www.apache.org/

Portions of this code are derived from classes placed in the
public domain by Arbortext on 10 Apr 2000. See:
http://www.arbortext.com/customer_support/updates_and_technical_notes/catalogs/docs/README.htm

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
 ========================================================================
==  NOTICE file corresponding to section 4(d) of the Apache License,   ==
==  Version 2.0, in this case for the Apache Xerces Java distribution. ==
========================================================================
```

Apache Xerces Java
Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the

Apache Software Foundation that were originally developed at iClick, Inc.,
software copyright (c) 1999.

==========
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache Xalan Java distribution. ==
==========

Apache Xalan (Xalan serializer)
Copyright 1999-2012 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software was originally based on the following:
- software copyright (c) 1999-2002, Lotus Development Corporation.,
  http://www.lotus.com.
- software copyright (c) 2001-2002, Sun Microsystems.,
  http://www.sun.com.
- software copyright (c) 2003, IBM Corporation.,
  http://www.ibm.com.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.516 google-gnostic 0.5.7-v3refs

1.516.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.517 jsch 0.1.53

1.517.1 Available under license :

JSch 0.0.* was released under the GNU LGPL license. Later, we have switched over to a BSD-style license.

Copyright (c) 2002-2015 Atsuhiko Yamanaka, JCraft,Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.518 kubernetes-klog 2.80.1

1.518.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and

distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf

of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of

the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has

been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.519 file 5.24

1.519.1 Available under license :

$File: LEGAL.NOTICE,v 1.15 2006/05/03 18:48:33 christos Exp $
Copyright (c) Ian F. Darwin 1986, 1987, 1989, 1990, 1991, 1992, 1994, 1995.
Software written by Ian F. Darwin and others;
maintained 1994- Christos Zoulas.

This software is not subject to any export provision of the United States
Department of Commerce, and may be exported to any country or planet.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice immediately at the beginning of the file, without modification,
  this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.520 python-setuptools 47.1.0

1.520.1 Available under license :

Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

1.521 ghodss-yaml 1.0.1-0.20190212211648-25d852aebe32

1.521.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.522 hashicorp-go-secure-stdlib-strutil 0.1.2

1.522.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License

with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under

this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.523 tcl 8.5.7

1.523.1 Available under license :

The author disclaims copyright to this source code. In place of a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this

notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written

prior permission.

Lucent Technologies disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness. In no event shall Lucent be liable for any special, indirect
or consequential damages or any damages whatsoever resulting from loss
of use, data or profits, whether in an action of contract, negligence
or other tortuous action, arising out of or in connection with the use
or performance of this software.

==========

This software is copyrighted by Slawomir Cygan, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT

SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version written by Lucent Technologies, Inc., and other parties see that copyright below.

The rewritten version is copyrighted with BSD license or Public Domain at your choice.

The original version of this software is copyrighted by Lucent Technologies, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf

permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState Corporation and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

1.524 libtirpc 1.3.3

1.524.1 Available under license :

```
/*
* Copyright (c) Copyright (c) Bull S.A.  2005  All Rights Reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
*    derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

1.525 gmp 6.0.0

1.525.1 Available under license :

```
                    GNU GENERAL PUBLIC LICENSE
                     Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble

 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.)  You can apply it to
```

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along

with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to

share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to

avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a

covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status

of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by

this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the

additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a

party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY

APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the

Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser

General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:

(1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to

control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such

measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your

work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source

may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or

authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have

received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates

an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,

if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.526 xorg-randr 1.2

1.526.1 Available under license :

This is a stub file. This package has not yet had its complete licensing
information compiled. Please see the individual source files for details on
your rights to use and modify this software.

Please submit updated COPYING files to the Xorg bugzilla:

https://bugs.freedesktop.org/enter_bug.cgi?product=xorg

All licensing questions regarding this software should be directed at the
Xorg mailing list:

http://lists.freedesktop.org/mailman/listinfo/xorg

1.527 pkg-sftp 1.13.4

1.527.1 Available under license :

Dave Cheney <dave@cheney.net>
Saulius Gurklys <s4uliu5@gmail.com>
John Eikenberry <jae@zhar.net>
Copyright (c) 2013, Dave Cheney
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED

WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.528 ncftp 3.2.2

1.528.1 Available under license :

The Clarified Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Distribution fee" is a fee you charge for providing a copy of this Package to another party.

"Freely Available" means that no fee is charged for the right to use the item, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain, or those made Freely Available, or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major network archive site allowing unrestricted access to them, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) permit and encourage anyone who receives a copy of the modified Package permission to make your modifications Freely Available in some specific way.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) offer the machine-readable source of the Package, with your modifications, by mail order.

5. You may charge a distribution fee for any distribution of this Package. If you offer support for this Package, you may charge any fee you choose for that support. You may not charge a license fee for the right to use this Package itself. You may distribute this Package in aggregate with other (possibly commercial and possibly nonfree) programs as part of a larger (possibly commercial and possibly nonfree) software distribution, and charge license fees for other parts of that software distribution, provided that you do not advertise this Package as a product of your own. If the Package includes an interpreter, You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of the Standard Version of the Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.529 grpc 1.2.13

1.529.1 Available under license :

Copyright (c) 2015 Lars Kanis

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2015, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2011 Petteri Aimonen <jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or
implied warranty. In no event will the authors be held liable
for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
must not claim that you wrote the original software. If you use
this software in a product, an acknowledgment in the product
documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
distribution.

1.530 hd-parm 9.56

1.530.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
BSD-Style Open Source License:

You may freely use, modify, and redistribute the hdparm program,
as either binary or source, or both.

The only condition is that my name and copyright notice

remain in the source code as-is.

The apt.c file is Copyright (c) 2009 Jan Friesse <jfriesse@gmail.com>.
You may use/distribute apt.c freely, under the terms of either
(your choice) the GNU General Public License version 2,
or a BSD style license.

Mark Lord (mlord@pobox.com)
This package was debianized by Christopher L Cheney <ccheney@debian.org> on
Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from http://www.ibiblio.org/pub/Linux/system/hardware

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */

You are free to distribute this software under the terms of the BSD License.
On Debian systems, the complete text of the BSD License can be found in
/usr/share/common-licenses/BSD

1.531 trilead-ssh 1.0.0

1.531.1 Available under license :

Copyright (c) 2005 - 2006 Swiss Federal Institute of Technology (ETH Zurich),
Department of Computer Science (http://www.inf.ethz.ch),
Christian Plattner. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

a.) Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
c.) Neither the name of ETH Zurich nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Java implementations of the AES, Blowfish and 3DES ciphers have been taken (and slightly modified) from the cryptography package released by "The Legion Of The Bouncy Castle".

Their license states the following:

Copyright (c) 2000 - 2004 The Legion Of The Bouncy Castle (http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.532 popt 1.16

1.532.1 Available under license :

Copyright (c) 1998 Red Hat Software

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be
used in advertising or otherwise to promote the sale, use or other dealings
in this Software without prior written authorization from the X Consortium.

1.533 d-bus 1.8.20

1.533.1 Available under license :

D-Bus is licensed to you under your choice of the Academic Free
License version 2.1, or the GNU General Public License version 2
(or, at your option any later version).

Both licenses are included here. Some of the standalone binaries are
under the GPL only; in particular, but not limited to,
tools/dbus-cleanup-sockets.c and test/decode-gcov.c. Each source code
file is marked with the proper copyright information - if you find a
file that isn't marked please bring it to our attention.

The Academic Free License
v. 2.1

This Academic Free License (the "License") applies to any original work of authorship (the "Original Work") whose owner (the "Licensor") has placed the following notice immediately following the copyright notice for the Original Work:

Licensed under the Academic Free License version 2.1

1) Grant of Copyright License. Licensor hereby grants You a
world-wide, royalty-free, non-exclusive, perpetual, sublicenseable
license to do the following:

a) to reproduce the Original Work in copies;

b) to prepare derivative works ("Derivative Works") based upon the Original Work;

c) to distribute copies of the Original Work and Derivative Works to the public;

d) to perform the Original Work publicly; and

e) to display the Original Work publicly.

2) Grant of Patent License. Licensor hereby grants You a world-wide, royalty-free, non-exclusive, perpetual, sublicenseable license, under patent claims owned or controlled by the Licensor that are embodied in the Original Work as furnished by the Licensor, to make, use, sell and offer for sale the Original Work and Derivative Works.

3) Grant of Source Code License. The term "Source Code" means the preferred form of the Original Work for making modifications to it and all available documentation describing how to modify the Original Work. Licensor hereby agrees to provide a machine-readable copy of the Source Code of the Original Work along with each copy of the Original Work that Licensor distributes. Licensor reserves the right to satisfy this obligation by placing a machine-readable copy of the Source Code in an information repository reasonably calculated to permit inexpensive and convenient access by You for as long as Licensor continues to distribute the Original Work, and by publishing the address of that information repository in a notice immediately following the copyright notice that applies to the Original Work.

4) Exclusions From License Grant. Neither the names of Licensor, nor the names of any contributors to the Original Work, nor any of their trademarks or service marks, may be used to endorse or promote products derived from this Original Work without express prior written permission of the Licensor. Nothing in this License shall be deemed to grant any rights to trademarks, copyrights, patents, trade secrets or any other intellectual property of Licensor except as expressly stated herein. No patent license is granted to make, use, sell or offer to sell embodiments of any patent claims other than the licensed claims defined in Section 2. No right is granted to the trademarks of Licensor even if such marks are included in the Original Work. Nothing in this License shall be interpreted to prohibit Licensor from licensing under different terms from this License any Original Work that Licensor otherwise would have a right to license.

5) This section intentionally omitted.

6) Attribution Rights. You must retain, in the Source Code of any Derivative Works that You create, all copyright, patent or trademark notices from the Source Code of the Original Work, as well as any notices of licensing and any descriptive text identified therein as an "Attribution Notice." You must cause the Source Code for any Derivative Works that You create to carry a prominent Attribution

Notice reasonably calculated to inform recipients that You have modified the Original Work.

7) Warranty of Provenance and Disclaimer of Warranty. Licensor warrants that the copyright in and to the Original Work and the patent rights granted herein by Licensor are owned by the Licensor or are sublicensed to You under the terms of this License with the permission of the contributor(s) of those copyrights and patent rights. Except as expressly stated in the immediately proceeding sentence, the Original Work is provided under this License on an "AS IS" BASIS and WITHOUT WARRANTY, either express or implied, including, without limitation, the warranties of NON-INFRINGEMENT, MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY OF THE ORIGINAL WORK IS WITH YOU. This DISCLAIMER OF WARRANTY constitutes an essential part of this License. No license to Original Work is granted hereunder except under this disclaimer.

8) Limitation of Liability. Under no circumstances and under no legal theory, whether in tort (including negligence), contract, or otherwise, shall the Licensor be liable to any person for any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or the use of the Original Work including, without limitation, damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses. This limitation of liability shall not apply to liability for death or personal injury resulting from Licensor's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

9) Acceptance and Termination. If You distribute copies of the Original Work or a Derivative Work, You must make a reasonable effort under the circumstances to obtain the express assent of recipients to the terms of this License. Nothing else but this License (or another written agreement between Licensor and You) grants You permission to create Derivative Works based upon the Original Work or to exercise any of the rights granted in Section 1 herein, and any attempt to do so except under the terms of this License (or another written agreement between Licensor and You) is expressly prohibited by U.S. copyright law, the equivalent laws of other countries, and by international treaty. Therefore, by exercising any of the rights granted to You in Section 1 herein, You indicate Your acceptance of this License and all of its terms and conditions.

10) Termination for Patent Action. This License shall terminate automatically and You may no longer exercise any of the rights granted to You by this License as of the date You commence an action,

including a cross-claim or counterclaim, against Licensor or any licensee alleging that the Original Work infringes a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of the Original Work with other software or hardware.

11) Jurisdiction, Venue and Governing Law. Any action or suit relating to this License may be brought only in the courts of a jurisdiction wherein the Licensor resides or in which Licensor conducts its primary business, and under the laws of that jurisdiction excluding its conflict-of-law provisions. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any use of the Original Work outside the scope of this License or after its termination shall be subject to the requirements and penalties of the U.S. Copyright Act, 17 U.S.C. 101 et seq., the equivalent laws of other countries, and international treaty. This section shall survive the termination of this License.

12) Attorneys Fees. In any action to enforce the terms of this License or seeking damages relating thereto, the prevailing party shall be entitled to recover its costs and expenses, including, without limitation, reasonable attorneys' fees and costs incurred in connection with such action, including any appeal of such action. This section shall survive the termination of this License.

13) Miscellaneous. This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.

14) Definition of "You" in This License. "You" throughout this License, whether in upper or lower case, means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with you. For purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

15) Right to Use. You may use the Original Work in all ways not otherwise restricted or conditioned by this License or by law, and Licensor promises not to interfere with or be responsible for such uses by You.

This license is Copyright (C) 2003-2004 Lawrence E. Rosen. All rights reserved. Permission is hereby granted to copy and distribute this

license without modification. This license may not be modified without
the express written permission of its copyright owner.

--
END OF ACADEMIC FREE LICENSE. The following is intended to describe the essential
differences between the Academic Free License (AFL) version 1.0 and other
open source licenses:

The Academic Free License is similar to the BSD, MIT, UoI/NCSA and Apache
licenses in many respects but it is intended to solve a few problems with
those licenses.

* The AFL is written so as to make it clear what software is being
licensed (by the inclusion of a statement following the copyright notice
in the software). This way, the license functions better than a template
license. The BSD, MIT and UoI/NCSA licenses apply to unidentified software.

* The AFL contains a complete copyright grant to the software. The BSD
and Apache licenses are vague and incomplete in that respect.

* The AFL contains a complete patent grant to the software. The BSD, MIT,
UoI/NCSA and Apache licenses rely on an implied patent license and contain
no explicit patent grant.

* The AFL makes it clear that no trademark rights are granted to the
licensor's trademarks. The Apache license contains such a provision, but the
BSD, MIT and UoI/NCSA licenses do not.

* The AFL includes the warranty by the licensor that it either owns the
copyright or that it is distributing the software under a license. None of
the other licenses contain that warranty. All other warranties are disclaimed,
as is the case for the other licenses.

* The AFL is itself copyrighted (with the right granted to copy and distribute
without modification). This ensures that the owner of the copyright to the
license will control changes. The Apache license contains a copyright notice,
but the BSD, MIT and UoI/NCSA licenses do not.
--
START OF GNU GENERAL PUBLIC LICENSE
--

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.534 jcmturner-dnsutils 1.0.1

1.534.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.535 x-sync 0.0.0-20220601150217-0de741cfad7f

1.535.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.536 go.mongodb.org-mongo-driver 1.9.1

1.536.1 Available under license :

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus are still covered by their original MIT license, with the additional copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A

PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2014 Chris Hines

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: gzhttp/*

Apache License

Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions

to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices

stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above

copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is

furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its

contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

License notice for AWS V4 signing code from github.com/aws/aws-sdk-go
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for gopkg.in/mgo.v2/bson

BSON library for Go

Copyright (c) 2010-2013 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for JSON and CSV code from github.com/golang/go
---

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/davecgh/go-spew

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES

WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

License notice for github.com/golang/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/google/go-cmp

Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress

Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/konsorten/go-windows-terminal-sequences
---

(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit

persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/pretty

The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/text

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/oncer

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/safe

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/montanaflynn/stats

The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/pkg/errors

Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/pmezard/go-difflib

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
  The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/rogpeppe/go-internal

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/stretchr/testify

MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/tidwall/pretty

The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/xdg-go/pbkdf2

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/scram

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/stringprep

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed

as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this

License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/youmark/pkcs8

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for golang.org/x/crypto

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sync

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sys

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/text

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.

* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/tools

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/xerrors

Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for gopkg.in/yaml.v3

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

  apic.go emitterc.go parserc.go readerc.go scannerc.go
  writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be

added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.537 bzip2 1.0.5

1.537.1 Available under license :

This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2007 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written

permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.538 busybox 1.29.3

1.538.1 Available under license :

--- A note on GPL versions

BusyBox is distributed under version 2 of the General Public License (included
in its entirety, below). Version 2 is the only version of this license which
this version of BusyBox (or modified versions derived from this one) may be
distributed under.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.539 idna 3.4

1.539.1 Available under license :

BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.540 log4j-api 2.17.1

1.540.1 Available under license :

Apache Log4j 1.x Compatibility API
Copyright 1999-1969 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.541 openssl 1.0.2d

1.541.1 Available under license :

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ==
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright

```
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
Package may be copied, such that the Copyright Holder maintains some
semblance of artistic control over the development of the package,
while giving the users of the package the right to use and distribute
the Package in a more-or-less customary fashion, plus the right to make
reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to

emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.542 thttpd 2.25b

1.542.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* makeweb.c - let a user create a web subdirectory
**
** Copyright 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/extras/makeweb.c
No license file was found, but licenses were detected in source scan.

All rights reserved.
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\"   notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\"   notice, this list of conditions and the following disclaimer in the
.\"   documentation and/or other materials provided with the distribution.

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern.8
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/thttpd.8
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/extras/makeweb.1
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/redirect.8
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/ssi.8
No license file was found, but licenses were detected in source scan.

/* timers.c - simple timer routines
**
** Copyright 1995,1998,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/timers.c
No license file was found, but licenses were detected in source scan.

/* redirect - simple redirection CGI program
**
** Copyright 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/redirect.c
No license file was found, but licenses were detected in source scan.

/* mmc.c - mmap cache
**
** Copyright 1998,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without

```
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/mmc.c
No license file was found, but licenses were detected in source scan.

```
/* fdwatch.h - header file for fdwatch package
**
** This package abstracts the use of the select()/poll()/kqueue()
** system calls.  The basic function of these calls is to watch a set
** of file descriptors for activity.  select() originated in the BSD world,
** while poll() came from SysV land, and their interfaces are somewhat
** different.  fdwatch lets you write your code to a single interface,
** with the portability differences hidden inside the package.
**
** Usage is fairly simple.  Call fdwatch_get_nfiles() to initialize
** the package and find out how many fine descriptors are available.
** Then each time through your main loop, call fdwatch_clear(), then
** fdwatch_add_fd() for each of the descriptors you want to watch,
** then call fdwatch() to actually perform the watch.  After it returns
** you can check which descriptors are ready via fdwatch_check_fd().
**
** If your descriptor set hasn't changed from the last time through
** the loop, you can skip calling fdwatch_clear() and fdwatch_add_fd()
** to save a little CPU time.
**
**
** Copyright  1999 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
```

```
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/fdwatch.h
No license file was found, but licenses were detected in source scan.

```
/* ssi - server-side-includes CGI program
**
** Copyright  1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/ssi.c
No license file was found, but licenses were detected in source scan.

/* thttpd.c - tiny/turbo/throttling HTTP server
**
** Copyright 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/thttpd.c
No license file was found, but licenses were detected in source scan.

/* tdate_parse - parse string dates into internal form, stripped-down version
**
** Copyright 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions

** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/tdate_parse.c
No license file was found, but licenses were detected in source scan.

/* tdate_parse.h - parse string dates into internal form, stripped-down version
**
** Copyright 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/tdate_parse.h
No license file was found, but licenses were detected in source scan.

/* match.c - simple shell-style filename matcher
**
** Only does ? * and **, and multiple patterns separated by |. Returns 1 or 0.
**
** Copyright 1995,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/match.c
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1988 Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms are permitted
* provided that the above copyright notice and this paragraph are
* duplicated in all such forms and that any documentation,
* advertising materials, and other materials related to such

```
* distribution and use acknowledge that the software was developed
* by the University of California, Berkeley.  The name of the
* University may not be used to endorse or promote products derived
* from this software without specific prior written permission.
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
* WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.
*/
```

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/strerror.c
No license file was found, but licenses were detected in source scan.

```
/* libhttpd.h - defines for libhttpd
**
** Copyright  1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/libhttpd.h
No license file was found, but licenses were detected in source scan.

```
/* fdwatch.c - fd watcher routines, either select() or poll()
**
** Copyright  1999,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
```

```
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/fdwatch.c
No license file was found, but licenses were detected in source scan.

```
/* mmc.h - header file for mmap cache package
**
** Copyright  1998 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**    notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**    notice, this list of conditions and the following disclaimer in the
**    documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/mmc.h
No license file was found, but licenses were detected in source scan.

/* libhttpd.c - HTTP protocol library
**
** Copyright 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/libhttpd.c
No license file was found, but licenses were detected in source scan.

/* config.h - configuration defines for thttpd and libhttpd
**
** Copyright 1995,1998,1999,2000,2001 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions

** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/config.h
No license file was found, but licenses were detected in source scan.

/* match.h - simple shell-style filename patcher
**
** Copyright 1995 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
** notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
** notice, this list of conditions and the following disclaimer in the
** documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/match.h
No license file was found, but licenses were detected in source scan.

/* timers.h - header file for timers package
**
** Copyright 1995,1998,1999,2000 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/timers.h
No license file was found, but licenses were detected in source scan.

/* phf - cracker trap
**
** Old distributions of the NCSA and Apache web servers included a
** version of the phf program that had a bug. The program could
** easily be made to run arbitrary shell commands. There is no real
** legitimate use for phf, so any attempts to run it must be considered
** to be attacks. Accordingly, this version of phf logs the attack
** and then returns a page indicating that phf doesn't exist.
**
**

** Copyright 1996 by Jef Poskanzer <jef@mail.acme.com>.
** All rights reserved.
**
** Redistribution and use in source and binary forms, with or without
** modification, are permitted provided that the following conditions
** are met:
** 1. Redistributions of source code must retain the above copyright
**   notice, this list of conditions and the following disclaimer.
** 2. Redistributions in binary form must reproduce the above copyright
**   notice, this list of conditions and the following disclaimer in the
**   documentation and/or other materials provided with the distribution.
**
** THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
** ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
** IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
** ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
** FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
** DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
** OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
** HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
** LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
** OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
** SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/phf.c
No license file was found, but licenses were detected in source scan.

All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

Found in path(s):
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/extras/syslogtocern
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/cgi-src/Makefile
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/Makefile
* /opt/cola/permits/1606941124_1680077725.974551/0/thttpd-2-25b-tar/thttpd-2.25b/extras/Makefile

1.543 python-setuptools 56.0.0

1.543.1 Available under license :

Copyright Jason R. Coombs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.544 usbutils 007

1.544.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another

language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY

FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.545 nfs-utils 0.25

1.545.1 Available under license :

Copyright (c) 2004 The Regents of the University of Michigan.
All rights reserved.

Marius Aamodt Eriksen <marius@umich.edu>
J. Bruce Fields <bfields@umich.edu>

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on
Fri, 6 Aug 2004 16:10:43 -0400.

The latest version can always be found at
http://www.citi.umich.edu/projects/nfsv4/linux/

Authors: J. Bruce Fields, Andy Adamson, Marius Eriksen

Copyright (c) 2004 The Regents of the University of Michigan.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.546 unzip 3.00

1.546.1 Available under license :

This is version 2009-Jan-02 of the Info-ZIP license.
The definitive version of this document should be available at
ftp://ftp.info-zip.org/pub/infozip/license.html indefinitely and
a copy at http://www.info-zip.org/pub/infozip/license.html.

Copyright (c) 1990-2009 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as
the following set of individuals:

Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois,
Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborth,
Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz,
David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko,
Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs,
Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda,
Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren,
Rich Wales, Mike White.

This software is provided "as is," without warranty of any kind, express
or implied. In no event shall Info-ZIP or its contributors be held liable
for any direct, indirect, incidental, special or consequential damages
arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the above disclaimer and the following restrictions:

1. Redistributions of source code (in whole or in part) must retain
   the above copyright notice, definition, disclaimer, and this list
   of conditions.

2. Redistributions in binary form (compiled executables and libraries)
   must reproduce the above copyright notice, definition, disclaimer,
   and this list of conditions in documentation and/or other materials
   provided with the distribution. Additional documentation is not needed

for executables where a command line license option provides these and a note regarding this option is in the executable's startup banner. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.

4. Info-ZIP retains the right to use the names "Info-ZIP," "Zip," "UnZip," "UnZipSFX," "WiZ," "Pocket UnZip," "Pocket Zip," and "MacZip" for its own source and binary releases.

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered

by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
Info-ZIP contributors (or "primary" authors) have permitted us to
replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip 5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,
reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
 * MoreFiles
 *
 * A collection of File Manager and related routines
 *
```

```
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
  * Copyright  1992-1998 Apple Computer, Inc.
  * Portions copyright  1995 Jim Luther
  * All rights reserved.
  * The Package "More Files" is distributed under the following
  * license terms:
  *
  *        "You may incorporate this sample code into your
  *         applications without restriction, though the
  *         sample code has been provided "AS IS" and the
  *         responsibility for its operation is 100% yours.
  *         However, what you are not permitted to do is to
  *         redistribute the source as "DSC Sample Code" after
  *         having made changes. If you're going to
  *         redistribute the source, we require that you make
  *         it clear in the source that the code was descended
  *         from Apple Sample Code, but that you've made
  *         changes."
```

The usage terms of this copyright note are compatible with the
Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "macbin3" decoding code
(extra field compatibility with ZipIt):

```
  *  MacBinaryIII.h
  *
  *  Copyright 1997 Christopher Evans (cevans@poppybank.com)
  *
  *  Basic encoding and decoding of Macintosh files to the
  *  MacBinary III spec.
  * ---------------------------------------------------------------------
  * This source is copyrighted by Christopher Evans (cevans@poppybank.com)
  * (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
  * homepage of Leonard Rosenthol  leonardr@netcom.com)
```

This copyright note does not contain any usage terms. So, we assume
that this code is freely reusable until we are proved wrong...

The remaining copyright notes have been superseeded by the new
Info-ZIP license, with explicit permission from the respective
original authors. They are cited here for historical reasons,
only:

The following copyright applies to the full-featured unreduce.c
(now distributed separately):

```
 * Copyright 1989 Samuel H. Smith;  All rights reserved
 *
 * Do not distribute modified versions without my permission.
 * Do not remove or alter this notice or any other copyright notice.
 * If you use this in your own program you must distribute source code.
 * Do not use any of this in a commercial product.
```

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
 he has no objection to the Info-ZIP group's inclusion of his code.
 His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

The following copyright applied to most of the VMS code in vms.c, distributed with UnZip version 4.2 and later:

```
 * Copyright (c) 1992-93 Igor Mandrichenko.
 * Permission is granted to any individual or institution to use, copy,
 * or redistribute this software so long as all of the original files
 * are included unmodified and that this copyright notice is retained.
```

The following copyright applied to the new version of unshrink.c, distributed with UnZip version 5.2 and later:

```
 * Copyright (c) 1994 Greg Roelofs.
 * Permission is granted to any individual/institution/corporate
 * entity to use, copy, redistribute or modify this software for
```

```
  * any purpose whatsoever, subject to the conditions noted in the
  * Frequently Asked Questions section below, plus one additional
  * condition:  namely, that my name not be removed from the source
  * code.  (Other names may, of course, be added as modifications
  * are made.)  Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...
```

The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

```
  * Copyright (c) 1996 Mike White.
  * Permission is granted to any individual or institution to use,
  * copy, or redistribute this software so long as all of the original
  * files are included, that it is not sold for profit, and that this
  * copyright notice is retained.
```

The following copyright applied to the Windows CE GUI port, ``Pocket UnZip," distributed with UnZip version 5.3 and later:

```
  * All the source files for Pocket UnZip, except for components
  * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
  * Miller.  The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.
```

The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to): Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, funzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

1.547 pinentry 1.1.0

1.547.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.548 python 3.8.14

1.548.1 Available under license :

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional Conditions for this Windows binary build

This program is linked with and uses Microsoft Distributable Code, copyrighted by Microsoft Corporation. The Microsoft Distributable Code is embedded in each .exe, .dll and .pyd file as a result of running the code through a linker.

If you further distribute programs that include the Microsoft Distributable Code, you must comply with the restrictions on distribution specified by Microsoft. In particular, you must require distributors and external end users to agree to terms that protect the Microsoft Distributable Code at least as much as Microsoft's own

requirements for the Distributable Code. See Microsoft's documentation (included in its developer tools and on its website at microsoft.com) for specific details.

Redistribution of the Windows binary build of the Python interpreter complies with this agreement, provided that you do not:

- alter any copyright, trademark or patent notice in Microsoft's Distributable Code;

- use Microsoft's trademarks in your programs' names or in a way that suggests your programs come from or are endorsed by Microsoft;

- distribute Microsoft's Distributable Code to run on a platform other than Microsoft operating systems, run-time technologies or application platforms; or

- include Microsoft Distributable Code in malicious, deceptive or unlawful programs.

These restrictions apply only to the Microsoft Distributable Code as defined above, not to Python itself or any programs running on the Python interpreter. The redistribution of the Python interpreter and libraries is governed by the Python Software License included with this file, or by other licenses as marked.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python

releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

==========

Python software and documentation are licensed under the Python Software Foundation License Version 2.

Starting with Python 3.8.6, examples, recipes, and other code in the documentation are dual licensed under the PSF License Version 2 and the Zero-Clause BSD license.

Some software incorporated into Python is under different licenses. The licenses are listed with code falling under that license.

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License

Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN

ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

ZERO-CLAUSE BSD LICENSE FOR CODE IN THE PYTHON DOCUMENTATION

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.
X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

X Window System is a trademark of The Open Group
libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2019 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This license applies to the bootstrapper application that is embedded within the installer. It has no impact on the licensing for the rest of the installer or Python itself, as no code covered by this license exists in any other part of the product.

Microsoft Reciprocal License (MS-RL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

1. Definitions
The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.
A "contribution" is the original software, or any additions or changes to the software.
A "contributor" is any person that distributes its contribution under this license.
"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights
(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.
(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations
(A) Reciprocal Grants- For any file you distribute that contains code from the software (in source code or binary format), you must provide recipients the source code to that file along with a copy of this license, which license will govern that file. You may license other files that are entirely your own work and do not contain code from the software under any terms you choose.
(B) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.
(C) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.
(D) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.
(E) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.
(F) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.

1.549 elfutils 0.148

1.549.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively

when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you

received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software

Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.550 lsof 4.85

1.550.1 Available under license :

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.551 mcuadros-go-syslog 2.3.0

1.551.1 Available under license :

Copyright (c) 2013 Mximo Cuadros

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2013, Jrme Renard
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.552 backoff 3.2.2

1.552.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 litl, LLC.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.553 openssh 6.2p2

1.553.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
```
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *                    All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
```

[Tatu continues]
```
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
 * are not under my direct control.  As far as I know, all included
 * source code is used in accordance with the relevant license agreements
 * and can be used freely for any purpose (the GNU license being the most
 * restrictive); see below for details.
```

[However, none of that term is relevant at this point in time. All of
these restrictively licenced software components which he talks about
have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library

- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

2)
The 32-bit CRC compensation attack detector in deattack.c was contributed by CORE SDI S.A. under a BSD-style license.

```
 * Cryptographic attack detector for ssh - source code
 *
 * Copyright (c) 1998 CORE SDI S.A., Buenos Aires, Argentina.
 *
 * All rights reserved. Redistribution and use in source and binary
```

```
 * forms, with or without modification, are permitted provided that
 * this copyright notice is retained.
 *
 * THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED
 * WARRANTIES ARE DISCLAIMED. IN NO EVENT SHALL CORE SDI S.A. BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR
 * CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR MISUSE OF THIS
 * SOFTWARE.
 *
 * Ariel Futoransky <futo@core-sdi.com>
 * <http://www.core-sdi.com>
```

3)

ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)

The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
 * OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 * OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 * EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license, held by the University of California, since we pulled these parts from original Berkeley code.

```
* Copyright (c) 1983, 1990, 1992, 1993, 1995
*      The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard 2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman

Simon Wilkinson

Portable OpenSSH additionally includes code from the following copyright holders, also under the 2-term BSD license:

Ben Lindstrom
Tim Rice
Andre Lucas
Chris Adams
Corinna Vinschen
Cray Inc.
Denis Parker
Gert Doering
Jakob Schlyter
Jason Downs
Juha Yrjölö
Michael Stone
Networks Associates Technology, Inc.
Solar Designer
Todd C. Miller
Wayne Schroeder
William Jones
Darren Tucker
Sun Microsystems
The SCO Group

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

8) Portable OpenSSH contains the following additional licenses:

a) md5crypt.c, md5crypt.h

```
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file.  As long as you retain this
* notice you can do whatever you want with this stuff. If we meet
* some day, and you think this stuff is worth it, you can buy me a
* beer in return.   Poul-Henning Kamp
```

b) snprintf replacement

```
* Copyright Patrick Powell 1995
* This code is based on code written by Patrick Powell
* (papowell@astart.com) It may be used for any purpose as long as this
* notice remains intact on all source code distributions
```

c) Compatibility code (openbsd-compat)

Apart from the previously mentioned licenses, various pieces of code in the openbsd-compat/ subdirectory are licensed as follows:

Some code is licensed under a 3-term BSD license, to the following copyright holders:

Todd C. Miller
Theo de Raadt
Damien Miller
Eric P. Allman
The Regents of the University of California
Constantin S. Svintsoff

```
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
```

* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.

Some code is licensed under an ISC-style license, to the following
copyright holders:

Internet Software Consortium.
Todd C. Miller

* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND TODD C. MILLER DISCLAIMS ALL
* WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL TODD C. MILLER BE LIABLE
* FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Some code is licensed under a MIT-style license to the following
copyright holders:

Free Software Foundation, Inc.

* Permission is hereby granted, free of charge, to any person obtaining a *
* copy of this software and associated documentation files (the *
* "Software"), to deal in the Software without restriction, including *
* without limitation the rights to use, copy, modify, merge, publish, *
* distribute, distribute with modifications, sublicense, and/or sell *
* copies of the Software, and to permit persons to whom the Software is *
* furnished to do so, subject to the following conditions: *
* *
* The above copyright notice and this permission notice shall be included *
* in all copies or substantial portions of the Software. *
* *
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS *
* OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF *
* MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. *
* IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, *
* DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR *
* OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR *
* THE USE OR OTHER DEALINGS IN THE SOFTWARE. *
* *

```
 * Except as contained in this notice, the name(s) of the above copyright   *
 * holders shall not be used in advertising or otherwise to promote the     *
 * sale, use or other dealings in this Software without prior written       *
 * authorization.                                                            *
 ****************************************************************************/
```

$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp $

1.554 slang 2.2.4

1.554.1 Available under license :

```
\chapter{Copyright}
The \slang library is distributed under the terms of the GNU General
Public License.

\sect{The GNU Public License}
#v+
                GNU GENERAL PUBLIC LICENSE
                   Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
                   59 Temple Place, Suite 330, Boston, MA  02111-1307  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

                        Preamble
#v-
 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users.  This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it.  (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.)  You can apply it to
your programs, too.

 When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

 To protect your rights, we need to make restrictions that forbid
```

anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.
#v+
GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
#v-
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
#v+
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
#v-
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
#v+
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
#v-
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program

except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.
#v+

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

#v-

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

#v+

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

#v-

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

#v+

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
#v-
The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
#v+
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
#v-
This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

\sect{The Unicode Inc. Copyright}
This software makes use of the Unicode tables published by Unicode, Inc
under the following terms:
#v+
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1991-2009 Unicode, Inc. All rights reserved. Distributed
under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person
obtaining a copy of the Unicode data files and any associated
documentation (the "Data Files") or Unicode software and any
associated documentation (the "Software") to deal in the Data Files
or Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom
the Data Files or Software are furnished to do so, provided that (a)
the above copyright notice(s) and this permission notice appear with
all copies of the Data Files or Software, (b) both the above
copyright notice(s) and this permission notice appear in associated
documentation, and (c) there is clear notice in each modified Data
File or in the Software as well as in the documentation associated
with the Data File(s) or Software that the data or software has been
modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

#v-

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's

source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot

impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR

REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.555 lsof 4.71

1.555.1 Notifications :

This product includes software developed by Victor A. Abell, Purdue University and its contributors

1.555.2 Available under license :

```
/*
* Copyright 2002 Purdue Research Foundation, West Lafayette, Indiana
* 47907.  All rights reserved.
*
* Written by V. Abell.
*
* This software is not subject to any license of the American Telephone
* and Telegraph Company or the Regents of the University of California.
*
* Permission is granted to anyone to use this software for any purpose on
* any computer system, and to alter it and redistribute it freely, subject
* to the following restrictions:
*
* 1. Neither the authors nor Purdue University are responsible for any
*    consequences of the use of this software.
*
* 2. The origin of this software must not be misrepresented, either by
*    explicit claim or by omission.  Credit to the authors and Purdue
*    University must appear in documentation and sources.
*
* 3. Altered versions must be plainly marked as such, and must not be
```

* misrepresented as being the original software.
*
* 4. This notice may not be removed or altered.
*/

1.556 @andromeda/an-apollo 1.0.11-7660

1.556.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 - 2016 Meteor Development Group, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.557 googleapis-gnostic 0.4.1

1.557.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.558 easyjson 0.7.7

1.558.1 Available under license :

Copyright (c) 2016 Mail.Ru Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.559 andreburgaud-crypt2go 0.13.0

1.559.1 Available under license :

Copyright (c) 2016 Andre Burgaud. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Andre Burgaud nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.560 colorama 0.4.3

1.560.1 Available under license :

Copyright (c) 2010 Jonathan Hartley
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the copyright holders, nor those of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.561 inetutils 1.9.4

1.561.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;

keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further

restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission

to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free

patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the

Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or

XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item

Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise

the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or

by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item

AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A

public wiki that anybody can edit is an example of such a server. A
``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the
site means any set of copyrightable works thus published on the MMC
site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0
license published by Creative Commons Corporation, a not-for-profit
corporation with a principal place of business in San Francisco,
California, as well as future copyleft versions of that license
published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or
in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this
License, and if all works that were first published under this License
somewhere other than this MMC, and subsequently incorporated in whole
or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.562 commons-codec 1.9

1.562.1 Available under license :

Apache Commons Codec
Copyright 2002-2013 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.563 usbutils 007

1.563.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.564 prometheus-procfs 0.8.0

1.564.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

1.565 gopkg.in-tomb 2.0.0-20161208151619-d5d1b5820637

1.565.1 Available under license :

tomb - support for clean goroutine termination in Go.

Copyright (c) 2010-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,

this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.566 hashicorp-go-secure-stdlib-mlock 0.1.2

1.566.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"

means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser

General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this

License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any

liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,

without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.

1.567 busybox 1.23.2

1.567.1 Available under license :

bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
under the following conditions (copied verbatim from LICENSE file)
==========

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2006 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
  not claim that you wrote the original software. If you use this
  software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
  not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006
--- A note on GPL versions

BusyBox is distributed under version 2 of the General Public License (included in its entirety, below). Version 2 is the only version of this license which this version of BusyBox (or modified versions derived from this one) may be distributed under.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and

you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of

Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License

may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.568 libusb 1.0.22

1.568.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get

it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with

the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the

Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time.

Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest

possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.569 gawk 4.0.2-4.el7_3.1

1.569.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer

can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other

parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users

can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in

source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant

patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily

for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future

versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain

that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only

works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.570 iputils 20180629

1.570.1 Available under license :

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* This code is derived from software contributed to Berkeley by
* Mike Muuss.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
```

* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software
* without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
arping: GPL v2 or later
clockdiff: BSD-3
ninfod: BSD-3
ping: BSD-3
rarp: GPL v2 or later
rdisc: AS-IS, SUN MICROSYSTEMS license
tftpd: BSD-3
tracepath: GPL v2 or later
traceroute: BSD-3
Copyright (C) 2002 USAGI/WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.571 iputils 20121221

1.571.1 Available under license :

Copyright (C) 2002 USAGI/WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

1.572 curl 7.37.1

1.572.1 Available under license :

No license file was found, but licenses were detected in source scan.

"	entered and should be one of 'clear', 'safe', 'confidential', or\n"
"	It is a proprietary protocol, reverse-engineered by clever peo-\n"

Found in path(s):

* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_hugehelp.c
No license file was found, but licenses were detected in source scan.

```
:MaxApplZone();
:MoreMasters();
```

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
* Copyright (C) 1998 - 2010, Daniel Stenberg, <daniel@haxx.se>, et al.
*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
***************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/version.h
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
* Copyright (C) 1998 - 2014, Daniel Stenberg, <daniel@haxx.se>, et al.
```

*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
**********/

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_paramhlp.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_paramhlp.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_wrt.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_hugehelp.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_dbg.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_operhlp.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_main.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_doswin.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setopt.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_doswin.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_operhlp.c

* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setopt.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_msgs.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_msgs.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cfgable.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_getparam.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_strdup.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_help.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_operate.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_strdup.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_sdecls.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cfgable.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_operate.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_help.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_helpers.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_parsecfg.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_easysrc.c

* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_prg.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_parsecfg.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_helpers.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_urlglob.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_prg.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_setup.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_getparam.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_formparse.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_easysrc.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_metalink.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_metalink.h
No license file was found, but licenses were detected in source scan.

You may opt to use, copy, modify, merge, publish, distribute and/or sell
furnished to do so, under the terms of the COPYING file.

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/mkhelp.pl
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc9
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc8

* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc6
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/Makefile.vc10
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
* Copyright (C) 1998 - 2009, Daniel Stenberg, <daniel@haxx.se>, et al.
*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
***************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/curl.rc
No license file was found, but licenses were detected in source scan.

Found in path(s):
* restrictions
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
```

* Copyright (C) 1998 - 2012, Daniel Stenberg, <daniel@haxx.se>, et al.
*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
**********/

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_wrt.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_convert.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_bname.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_mfiles.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_panykey.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_main.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_dbg.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_panykey.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_util.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_bname.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-

7.37.1/src/tool_util.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_writeenv.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_homedir.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_xattr.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_binmode.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_mfiles.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_writeenv.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_binmode.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_homedir.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_getpass.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_getpass.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_dirhie.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_rea.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_see.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_convert.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_writeout.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-

7.37.1/src/tool_cb_rea.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_writeout.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_see.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_hdr.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_libinfo.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_sleep.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_cb_hdr.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_sleep.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_libinfo.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_vms.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_vms.h
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
* Copyright (C) 1998 - 2013, Daniel Stenberg, <daniel@haxx.se>, et al.
*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
```

```
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
***************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_urlglob.h
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_xattr.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_dirhie.c
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_formparse.c
No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*                                  _   _ ____  _
*  Project                     ___| | | |  _ \| |
*                             / __| | | | |_) | |
*                            | (__| |_| |  _ <| |___
*                             \___|\___/|_| \_\_____|
*
* Copyright (C) 1998 - 2011, Daniel Stenberg, <daniel@haxx.se>, et al.
*
* This software is licensed as described in the file COPYING, which
* you should have received as part of this distribution. The terms
* are also available at http://curl.haxx.se/docs/copyright.html.
*
* You may opt to use, copy, modify, merge, publish, distribute and/or sell
* copies of the Software, and permit persons to whom the Software is
* furnished to do so, under the terms of the COPYING file.
*
* This software is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY
* KIND, either express or implied.
*
***************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/tool_version.h

No license file was found, but licenses were detected in source scan.

```
/* ========================================================================
 Copyright (C) 2001 Eric Lavigne

 Permission is granted to anyone to use this software for any purpose on any
 computer system, and to redistribute it freely, subject to the following
 restrictions:
 - The author is not responsible for the consequences of use of this
 software, no matter how awful, even if they arise from defects in it.
 - The origin of this software must not be misrepresented, either by
 explicit claim or by omission.
 - You are allowed to distributed modified copies of the software, in source
 and binary form, provided they are marked plainly as altered versions, and
 are not misrepresented as being the original software.
  ======================================================================== */
```

Found in path(s):
* /opt/cola/permits/1125562276_1612913095.6/0/curl-7-37-1-tar-gz/nobackup/udayb/sky2/bitbake_build/tmp/work/x86-wrsmllib32-linux/lib32-curl/7.37.1-r0/curl-7.37.1/src/macos/src/macos_main.cpp

1.573 setserial 2.17

1.573.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
.\" May be distributed under the GNU General Public License
```

Found in path(s):
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8.in
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/setserial.8
No license file was found, but licenses were detected in source scan.

```
/*
* version.h --- Defines the version number of setserial
*
* Copyright 1995, 1996, 1997, 1998 by Theodore Ts'o.  This file may be
* redistributed under the GNU Public License.
*/
```

Found in path(s):
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/version.h

No license file was found, but licenses were detected in source scan.

```
/*
* include/linux/serial.h
*
* Copyright (C) 1992 by Theodore Ts'o.
*
* Redistribution of this file is permitted under the terms of the GNU
* Public License (GPL)
*/
```

Found in path(s):
* /opt/cola/permits/1606678443_1679421531.3029604/0/matwey-setserial-2-17-0-ge4ab0db-1-tar-gz/matwey-setserial-e4ab0db/linux/serial.h

1.574 lsof 4.89

1.574.1 Available under license :

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
  software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
  explicit claim or by omission. Since few users ever read sources,
  credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
  misrepresented as being the original software. Since few users
  ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

1.575 zlib 1.2.8

1.575.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

 Copyright (C) 1995-2017 Jean-loup Gailly and Mark Adler
```

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

*/

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.576 sg3-utils 1.45

1.576.1 Available under license :

Upstream Authors: Douglas Gilbert <dgilbert at interlog dot com>,
Bruce Allen <ballen at gravity dot phys dot uwm dot edu>,
Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
Christophe Varoqui <christophe dot varoqui at free dot fr>,
Michael Weller <eowmob at exp-math dot uni-essen dot de>,
Eric Youngdale <eric at andante dot org>

Copyright:

This software is copyright(c) 1994-2012 by the authors

Most of the code in this package is covered by a BSD license.
On Debian systems, the complete text of the BSD License
can be found in `/usr/share/common-licenses/BSD'. All the code
in the library (usually called libsgutils) is covered by a
BSD license.

Some of the older utilities are covered by the GPL. More precisely:
You are free to distribute this software under the terms of the
GNU General Public License either version 2, or (at your option)
any later version. On Debian systems, the complete text of the GNU
General Public License can be found in /usr/share/common-licenses/GPL-2
file. The later GPL-3 is found in /usr/share/common-licenses/GPL-3
file but no code in this package refers to that license.

Douglas Gilbert
10th April 2012

Copyright (c) 1999-2018, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
   list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2019, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Above is the:
SPDX-License-Identifier: BSD-2-Clause

Copyright (c) 1999-2019, Douglas Gilbert
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,

this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Above is the:
SPDX-License-Identifier: BSD-2-Clause

1.577 net-tools 1.60

1.577.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.578 kexec-tools 2.0.17

1.578.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.579 libdevmapper 1.02.102

1.579.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this

License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and

propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may

otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any

author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

{one line to give the program's name and a brief idea of what it does.}
Copyright (C) {year} {name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

{project} Copyright (C) {year} {fullname}
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.580 nginx 1.19.6

1.580.1 Available under license :

```
/*
* Copyright (C) 2002-2019 Igor Sysoev
* Copyright (C) 2011-2019 Nginx, Inc.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

1.581 go-restful 2.15.0+incompatible

1.581.1 Available under license :

```
Copyright (c) 2012,2013 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
```

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.582 cracklib 2.9.0

1.582.1 Available under license :

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
> the original license (before moving to sourceforge -- aka, 2.7) was
> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine

> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the

GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.

>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);

Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the

> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain

special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L
GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

^L

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and

"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it
does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.583 gawk 4.1.3

1.583.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to

authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying,

distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require,

such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's

users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not

used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of

it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted

by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying

the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with

the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal

permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any

warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses

terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR

CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.584 yajl 2.1.0

1.584.1 Available under license :

Copyright (c) 2007-2014, Lloyd Hilaiel <me@lloyd.io>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.585 libksba 1.3.3

1.585.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source

form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the

terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent

the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of

it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the

form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license,

and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you

to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
KSBA is distributed under mixed GPL and LGPL licenses. Please see the
file AUTHOR for details. The text of the used licenses can be found in
the files:

COPYING.LGPLv3
COPYING.GPLv3
COPYING.GPLv2

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to

ensure that, in the event an Application does not supply the
function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to

recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the

Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.586 json-iterator-go 1.1.12

1.586.1 Available under license :

MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.587 pciutils 0.0.0

1.587.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.588 openssl 1.0.2o

1.588.1 Notifications :

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)
This product includes software written by Tim Hudson (tjh@cryptsoft.com).

1.588.2 Available under license :

Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an DES implementation written by Eric Young (eay@cryptsoft.com).
The implementation was written so as to conform with MIT's libdes.

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.
If this package is used in a product, Eric Young should be given attribution
as the author of that the SSL library. This can be in the form of a textual
message at program startup or in documentation (online or textual) provided
with the package.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
  This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past experience in code simply being copied and the attribution removed from it and then being distributed as part of other packages. This implementation was a non-trivial and unpaid effort.

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a double license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2018 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
```

```
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
```

* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
*   "This product includes cryptographic software written by
*   Eric Young (eay@cryptsoft.com)"
*   The word 'cryptographic' can be left out if the rouines from the library
*   being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*   the apps directory (application code) you must include an acknowledgement:
*   "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com)
All rights reserved.

This package is an Blowfish implementation written
by Eric Young (eay@cryptsoft.com).

This library is free for commercial and non-commercial use as long as
the following conditions are aheared to. The following conditions
apply to all code found in this distribution.

Copyright remains Eric Young's, and as such any Copyright notices in
the code are not to be removed.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
  This product includes software developed by Eric Young (eay@cryptsoft.com)

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The license and distribution terms for any publically available version or
derivative of this code cannot be changed. i.e. this code cannot simply be
copied and put under another distrubution license
[including the GNU Public License.]

The reason behind this being stated in this direct manner is past
experience in code simply being copied and the attribution removed
from it and then being distributed as part of other packages. This
implementation was a non-trivial and unpaid effort.

1.589 tcl 8.6.1

1.589.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.

This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this

notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written

prior permission.

Lucent Technologies disclaims all warranties with regard to this
software, including all implied warranties of merchantability and
fitness. In no event shall Lucent be liable for any special, indirect
or consequential damages or any damages whatsoever resulting from loss
of use, data or profits, whether in an action of contract, negligence
or other tortuous action, arising out of or in connection with the use
or performance of this software.

==========

This software is copyrighted by Slawomir Cygan, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT

SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version written by Lucent Technologies, Inc., and other parties see that copyright below.

The rewritten version is copyrighted with BSD license or Public Domain at your choice.

The original version of this software is copyrighted by Lucent Technologies, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf

permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState Corporation and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

1.590 hd-parm 9.43

1.590.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so

that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three

years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the

original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA  02110-1301  USA
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
This package was debianized by Christopher L Cheney <ccheney@debian.org> on
Wed, 21 Nov 2001 15:51:14 -0600.

It was downloaded from http://www.ibiblio.org/pub/Linux/system/hardware

Upstream Author: Mark S. Lord <mlord@pobox.com>

Copyright:

/* hdparm.c - Command line interface to get/set hard disk parameters */
/* - by Mark Lord 1994-2008 -- freely distributable */

You are free to distribute this software under the terms of the BSD License.
On Debian systems, the complete text of the BSD License can be found in
/usr/share/common-licenses/BSD
BSD-Style Open Source License:

You may freely use, modify, and redistribute the hdparm program,
as either binary or source, or both.

The only condition is that my name and copyright notice
remain in the source code as-is.

Mark Lord (mlord@pobox.com)

1.591 gzip 1.12

1.591.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions

apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent

(such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.592 heimdal 1.0

1.592.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Esben Petersen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.593 go-uber-org-multierr 1.6.0

1.593.1 Available under license :

Copyright (c) 2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.594 scikit-learn 0.20.4

1.594.1 Available under license :

New BSD License

Copyright (c) 20072018 The scikit-learn developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

a. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
b. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
c. Neither the name of the Scikit-learn Developers nor the names of
its contributors may be used to endorse or promote products
derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.595 busybox 1.19.4

1.595.1 Available under license :

bzip2 applet in busybox is based on lightly-modified source
of bzip2 version 1.0.4. bzip2 source is distributed
under the following conditions (copied verbatim from LICENSE file)
==========

This program, "bzip2", the associated library "libbzip2", and all
documentation, are copyright (C) 1996-2006 Julian R Seward. All
rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
not claim that you wrote the original software. If you use this
software in a product, an acknowledgment in the product
documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
--- A note on GPL versions

BusyBox is distributed under version 2 of the General Public License (included
in its entirety, below). Version 2 is the only version of this license which
this version of BusyBox (or modified versions derived from this one) may be
distributed under.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.596 sysv-init 2.88

1.596.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

Sysvinit is Copyright (C) 1991-2004 Miquel van Smoorenburg

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

On Debian GNU/Linux systems, the complete text of the GNU General
Public License can be found in `/usr/share/common-licenses/GPL-2'.

Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
*
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.597 apache-log4j 2.17.1

1.597.1 Available under license :

Apache Log4j Core
Copyright 1999-2012 Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

ResolverUtil.java
Copyright 2005-2006 Tim Fennell

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
/*
* Licensed to the Apache Software Foundation (ASF) under one or more
* contributor license agreements. See the NOTICE file distributed with
* this work for additional information regarding copyright ownership.
* The ASF licenses this file to You under the Apache license, Version 2.0
* (the "License"); you may not use this file except in compliance with
* the License. You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the license for the specific language governing permissions and
* limitations under the license.
*/

1.598 libtasn 4.16.0

1.598.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible

for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero

Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'',

``Dedications'', ``Endorsements'', or ``History''.)  To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section

may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and

multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"

@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status

of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you

want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do

not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is

released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this

conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must

suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you

add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly

provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever

licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner

consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
LICENSING
=========

The libtasn1 library is released under the GNU Lesser General Public
License (LGPL) version 2.1 or later; see [COPYING.LESSER](doc/COPYING.LESSER)
for the license terms.

The GNU LGPL applies to the main libtasn1 library, while the
included applications library are under the GNU GPL version 3.
The libtasn1 library is located in the lib directory, while the applications
in src/.

The documentation in doc/ is under the GNU FDL license 1.3.

For any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.

1.599 dchest-siphash 1.2.3-0.20210324171120-991656ee3840

1.599.1 Available under license :

Creative Commons Legal Code

CC0 1.0 Universal

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS DOCUMENT DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM THE USE OF THIS DOCUMENT OR THE INFORMATION OR WORKS PROVIDED HEREUNDER.

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

i. the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
ii. moral rights retained by the original author(s) and/or performer(s);

iii. publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
iv. rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
v. rights protecting the extraction, dissemination, use and reuse of data in a Work;
vi. database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
vii. other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder

of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

a. No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.
b. Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.
c. Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.
d. Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

1.600 grpc 1.6.1.17

1.600.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

BSD 3-Clause License

Copyright 2016, Google Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
contributors may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License Version 2.0
==========

1. Definitions

1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code

Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU

Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source

Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by

You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the
courts of a jurisdiction where the defendant maintains its principal
place of business and such litigation shall be governed by laws of that

jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
MIT License

Copyright (c) 2019 Yibo Cai
Copyright 2022 Google LLC

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2009-2021, Google LLC
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
* Neither the name of Google LLC nor the names of any other
  contributors may be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY GOOGLE INC. ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL GOOGLE LLC BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
xxHash Library
Copyright (c) 2012-2020 Yann Collet
All rights reserved.

BSD 2-Clause License (https://www.opensource.org/licenses/bsd-license.php)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this
 list of conditions and the following disclaimer in the documentation and/or
 other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions

are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Lunit License

Lunit is written by Michael Roth <mroth@nessie.de> and is licensed
under the terms of the MIT license reproduced below.

==========

Copyright (c) 2004-2010 Michael Roth <mroth@nessie.de>

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without restriction,
including without limitation the rights to use, copy, modify, merge,
publish, distribute, sublicense, and/or sell copies of the Software,
and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

==========

Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2021 Google LLC

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for any such Derivative Works as a whole, provided Your use,
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015-2017 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.601 libtomcrypt 1.17

1.601.1 Available under license :

```
# /*
#   * SHA-512
#   * Implementation derived from LibTomCrypt (Tom St Denis)
#   *
#   * LibTomCrypt is a library that provides various cryptographic
#   * algorithms in a highly modular and flexible manner.
#   *
#   * The library is free for all purposes without any express
#   * guarantee it works.
#   *
#   * Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org
#   */
```

1.602 nfs-utils 1.3.1

1.602.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.603 elfutils 0.175

1.603.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy,

distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the

Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding

those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they

know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an

exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological

measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no

further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install

modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in

reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license

you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of

the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands

might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse

engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library

facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.604 findutils 4.6.0

1.604.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those

products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible

feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any

non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the

machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains

a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However,

nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to

make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting

any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different

permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.605 iptables 1.4.21

1.605.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.606 reflectwalk 1.0.2

1.606.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.607 yajl 2.1.0

1.607.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 2007-2014, Lloyd Hilaiel <me@lloyd.io>
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
```

* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_parse.h
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_common.h
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_gen.h
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 2010-2011 Florian Forster <ff at octo.it>
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
* ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

Found in path(s):
* /opt/cola/permits/1723834055_1687183247.6822069/0/dcm-spice-yajl-2-1-0-0-g88d7964-tar-gz/dcm-spice-yajl-64437c8/include/yajl/yajl_tree.h

1.608 tcl 8.6.4

1.608.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

  May you do good and not evil.
  May you find forgiveness for yourself and forgive others.
  May you share freely, never taking more than you give.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Lucent Technologies disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall Lucent be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence

or other tortuous action, arising out of or in connection with the use
or performance of this software.
==========
This software is copyrighted by Slawomir Cygan, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation,
and other parties. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided

that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other
parties. The following terms apply to all files associated with the
software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES

ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version written by Lucent Technologies, Inc., and other parties see that copyright

below.

The rewritten version is copyrighted with BSD license or Public Domain at your choice.

The original version of this software is copyrighted by Lucent Technologies, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState Corporation and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

1.609 slang 2.3.2

1.609.1 Available under license :

\chapter{Copyright}
The \slang library is distributed under the terms of the GNU General
Public License.

\sect{The GNU Public License}
#v+
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

#v-

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

#v+

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

#v-

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

#v+

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any
part thereof, to be licensed as a whole at no charge to all third
parties under the terms of this License.

c) If the modified program normally reads commands interactively
when run, you must cause it, when started running for such
interactive use in the most ordinary way, to print or display an
announcement including an appropriate copyright notice and a
notice that there is no warranty (or else, saying that you provide
a warranty) and that users may redistribute the program under
these conditions, and telling the user how to view a copy of this
License. (Exception: if the Program itself is interactive but
does not normally print such an announcement, your work based on
the Program is not required to print an announcement.)
#v-
These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:
#v+
a) Accompany it with the complete corresponding machine-readable
source code, which must be distributed under the terms of Sections
1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

#v-

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.
#v+

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS
#v-

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.
#v+
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
#v-
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:
#v+
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
#v-
The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:
#v+
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
#v-
This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General

Public License instead of this License.

\sect{The Unicode Inc. Copyright}
This software makes use of the Unicode tables published by Unicode, Inc
under the following terms:
#v+
COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1991-2009 Unicode, Inc. All rights reserved. Distributed
under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person
obtaining a copy of the Unicode data files and any associated
documentation (the "Data Files") or Unicode software and any
associated documentation (the "Software") to deal in the Data Files
or Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, and/or sell
copies of the Data Files or Software, and to permit persons to whom
the Data Files or Software are furnished to do so, provided that (a)
the above copyright notice(s) and this permission notice appear with
all copies of the Data Files or Software, (b) both the above
copyright notice(s) and this permission notice appear in associated
documentation, and (c) there is clear notice in each modified Data
File or in the Software as well as in the documentation associated
with the Data File(s) or Software that the data or software has been
modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY
OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR
ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.
#v-
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.610 traceroute 2.0.20

1.610.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means

all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.611 vim 7.4

1.611.1 Available under license :

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,
including executables and/or source code, when the following four
conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:

a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do

these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library

subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
uganda.txt For Vim version 8.2. Last change: 2020 Jan 08

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are

encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.
b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.

III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a |sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==========

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:
/*
* Copyright (C) 1989-95 GROUPE BULL
*
* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to
* deal in the Software without restriction, including without limitation the
* rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
* sell copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*

* The above copyright notice and this permission notice shall be included in
* all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
* GROUPE BULL BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
* AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
* CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
*
* Except as contained in this notice, the name of GROUPE BULL shall not be
* used in advertising or otherwise to promote the sale, use or other dealings
* in this Software without prior written authorization from GROUPE BULL.
*/

Arnaud LE HORS BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)
Internet: lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

The MIT License

Copyright (c) 2008 Paul Evans <leonerd@leonerd.org.uk>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third

parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions

either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.612 libunistring 0.9.3

1.612.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license

document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official

standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose

of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified

it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the

product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,

procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work,

for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an

organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means,

then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
@c The GNU General Public License.
@center Version 3, 29 June 2007

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@end display

@heading Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,

the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program---to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

``This License'' refers to version 3 of the GNU General Public License.

``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program'' refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you''. ``Licensees'' and ``recipients'' may be individuals or organizations.

To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

A ``covered work'' means either the unmodified Program or a work based on the Program.

To ``propagate'' a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey'' a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays ``Appropriate Legal Notices'' to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the

extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The ``source code'' for a work means the preferred form of the work for making modifications to it. ``Object code'' means any non-source form of a work.

A ``Standard Interface'' means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The ``System Libraries'' of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A ``Major Component'', in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The ``Corresponding Source'' for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

@item Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

@item Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

@item Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a
@item
The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item
The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices''.

@item
You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item
If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.
@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a
@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item
Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A ``User Product'' is either (1) a ``consumer product'', which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, ``normally used'' refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

``Installation Information'' for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or

installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

@item Additional Terms.

``Additional permissions'' are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

@enumerate a
@item
Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

@item
Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

@item
Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

@item
Limiting the use for publicity purposes of names of licensors or authors of the material; or

@item
Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

@item
Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.
@end enumerate

All other non-permissive additional terms are considered ``further restrictions'' within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

@item Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to

60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

@item Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

@item Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An ``entity transaction'' is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that

any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

@item Patents.

A ``contributor'' is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's ``contributor version''.

A contributor's ``essential patent claims'' are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, ``control'' includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a ``patent license'' is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To ``grant'' such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. ``Knowingly relying'' means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties

receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is ``discriminatory'' if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

@item No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

@item Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

@item Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

@item Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER

PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

@item Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided
above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these
terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short

notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
use an ``about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a ``copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
@url{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your
program into proprietary programs. If your program is a subroutine
library, you may consider it more useful to permit linking proprietary
applications with the library. If this is what you want to do, use
the GNU Lesser General Public License instead of this License. But
first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way

to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with
modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section
of the Document that deals exclusively with the relationship of the
publishers or authors of the Document to the Document's overall
subject (or to related matters) and contains nothing that could fall
directly within that overall subject. (Thus, if the Document is in
part a textbook of mathematics, a Secondary Section may not explain
any mathematics.) The relationship could be a matter of historical
connection with the subject or with related matters, or of legal,
commercial, philosophical, ethical or political position regarding
them.

The ``Invariant Sections'' are certain Secondary Sections whose titles
are designated, as being those of Invariant Sections, in the notice
that says that the Document is released under this License. If a
section does not fit the above definition of Secondary then it is not

allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a

specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item

Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item

Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does

not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections,

and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

```
@smallexample
@group
 Copyright (C)  @var{year}  @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts.  A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample
```

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

```
@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:

@c ispell-local-pdict: "ispell-dict"
@c End:

1.613 govaluate 3.0.1-0.20180117081542-38d806c0a2f1+incompatible

1.613.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014-2016 George Lester

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This library was authored by George Lester, and contains contributions from:

vjeantet (regex support)
iasci (ternary operator)
oxtoacart (parameter structures, deferred parameter retrieval)
wmiller848 (bitwise operators)
prashantv (optimization of bools)
dpaolella (exposure of variables used in an expression)
benpaxton (fix for missing type checks during literal elide process)
abrander (panic-finding testing tool, float32 conversions)
xfennec (fix for dates being parsed in the current Location)
bgaifullin (lifting restriction on complex/struct types)
gautambt (hexadecimal literals)
felixonmars (fix multiple typos in test names)
sambonfire (automatic type conversion for accessor function calls)

1.614 spf13-pflag 1.0.5

1.614.1 Available under license :

Copyright (c) 2012 Alex Ogier. All rights reserved.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.615 perl 5.24.4

1.615.1 Available under license :

This program, "bzip2", the associated library "libbzip2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must
  not claim that you wrote the original software. If you use this
  software in a product, an acknowledgment in the product
  documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must
  not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:

MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you

duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a

product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The license agreements of most software companies try to keep users at the mercy of those companies. By contrast, our General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. The General Public License applies to the Free Software Foundation's software and to any other program whose authors commit to using it. You can use it for your programs, too.

When we speak of free software, we are referring to freedom, not price. Specifically, the General Public License is designed to make sure that you have the freedom to give away or sell copies of free software, that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The

"Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to

attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
This software is copyright (c) 2017 by Ken Williams.

This is free software; you can redistribute it and/or modify it under
the same terms as the Perl 5 programming language system itself.

Terms of the Perl programming language system itself

a) the GNU General Public License as published by the Free
  Software Foundation; either version 1, or (at your option) any
  later version, or
b) the "Artistic License"

--- The GNU General Public License, Version 1, February 1989 ---

This software is Copyright (c) 2017 by Ken Williams.

This is free software, licensed under:

 The GNU General Public License, Version 1, February 1989

GNU GENERAL PUBLIC LICENSE
Version 1, February 1989

Copyright (C) 1989 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

 The license agreements of most software companies try to keep users
at the mercy of those companies. By contrast, our General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. The
General Public License applies to the Free Software Foundation's
software and to any other program whose authors commit to using it.
You can use it for your programs, too.

 When we speak of free software, we are referring to freedom, not
price. Specifically, the General Public License is designed to make
sure that you have the freedom to give away or sell copies of free
software, that you receive source code or can get it if you want it,
that you can change the software or use pieces of it in new free
programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of a such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must tell them their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any work containing the Program or a portion of it, either verbatim or with modifications. Each licensee is addressed as "you".

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this General Public License and to the absence of any warranty; and give any other recipients of the Program a copy of this General Public License along with the Program. You may charge a fee for the physical act of transferring a copy.

2. You may modify your copy or copies of the Program or any portion of it, and copy and distribute such modifications under the terms of Paragraph 1 above, provided that you also do the following:

a) cause the modified files to carry prominent notices stating that you changed the files and the date of any change; and

b) cause the whole of any work that you distribute or publish, that in whole or in part contains the Program or any part thereof, either with or without modifications, to be licensed at no charge to all third parties under the terms of this General Public License (except that you may choose to grant warranty protection to some or all third parties, at your option).

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the simplest and most usual way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this General Public License.

d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

Mere aggregation of another independent work with the Program (or its derivative) on a volume of a storage or distribution medium does not bring the other work under the scope of these terms.

3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means

all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

4. You may not copy, modify, sublicense, distribute or transfer the Program except as expressly provided under this General Public License. Any attempt otherwise to copy, modify, sublicense, distribute or transfer the Program is void, and will automatically terminate your rights to use the Program under this License. However, parties who have received copies, or rights to use copies, from you under this General Public License will not have their licenses terminated so long as such parties remain in full compliance.

5. By copying, distributing or modifying the Program (or any work based on the Program) you indicate your acceptance of this license to do so, and all its terms and conditions.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

7. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of the license which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the license, you may choose any version ever published by the Free Software Foundation.

8. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

9. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

10. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

This software is Copyright (c) 2017 by Ken Williams.

This is free software, licensed under:

The Artistic License 1.0

The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package
may be copied, such that the Copyright Holder maintains some semblance of

artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

- "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.
- "Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.
- "Copyright Holder" is whoever is named in the copyright or copyrights for the package.
- "You" is you, if you're thinking about copying or distributing this Package.
- "Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)
- "Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
#!perl

=head1 NAME

```
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
```

```
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.616 expat 2.1.0

1.616.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2019 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.617 kr-fs 0.1.0

1.617.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.618 wget 1.16.3

1.618.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;

keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further

restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission

to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free

patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.619 libksba 1.6.3

1.619.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or

modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an

"aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and

protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that

material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under

this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or

hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment

to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software

Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you

may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
KSBA is distributed under mixed GPL and LGPL licenses. Please see the
file AUTHOR for details. The text of the used licenses can be found in
the files:

COPYING.LGPLv3
COPYING.GPLv3
COPYING.GPLv2

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are

based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the

portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the

Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.620 elfutils 0.163

1.620.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and

modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such

an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not

excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic

pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you

receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded

from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you

received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or

run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement,

or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you

to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License
without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a
facility refers to a function or data to be supplied by an Application
that uses the facility (other than as an argument passed when the

facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new

versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.621 fdisk 2.26.0

1.621.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using

a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License").

Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in

these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the

Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus

excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.622 tftp-hpa 0.28

1.622.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/* ------------------------------------------------------------------- *
*
*   Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/misc.c
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/remap.c
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/remap.h

No license file was found, but licenses were detected in source scan.

```
/* ------------------------------------------------------------------- *
*
*   Copyright 2001 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.h

No license file was found, but licenses were detected in source scan.

```
/* ------------------------------------------------------------------- *
*
*   Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
*   This program is free software available under the same license
*   as the "OpenBSD" operating system, distributed at
*   http://www.openbsd.org/.
*
* ------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.h

* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/recvfrom.c
No license file was found, but licenses were detected in source scan.

```
##   Copyright 2001-2007 H. Peter Anvin - All Rights Reserved
##   This program is free software available under the same license
```

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/MCONFIG.in
No license file was found, but licenses were detected in source scan.

```
Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: @@VERSION@@
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}
```

```
%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
```

- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259
- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>

- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):

* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp.spec.in
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (c) 1993
* The Regents of the University of California.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*    may be used to endorse or promote products derived from this software
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/extern.h
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.h
No license file was found, but licenses were detected in source scan.

```
.\" -*- nroff -*- ------------------------------------------------------- *
.\"
.\" Copyright (c) 1990, 1993, 1994
.\"     The Regents of the University of California.  All rights reserved.
.\"
.\" Copyright 2001-2009 H. Peter Anvin - All Rights Reserved
.\"
```

.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\" notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\" notice, this list of conditions and the following disclaimer in the
.\" documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\" may be used to endorse or promote products derived from this software
.\" without specific prior written permission.
.\"
.\" THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
.\" ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
.\" IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
.\" ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
.\" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
.\" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
.\" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"-- */

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.8.in
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1983, 1993
* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
* must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
* may be used to endorse or promote products derived from this software

```
*    without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/common/tftpsubs.c
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/main.c
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.c
No license file was found, but licenses were detected in source scan.

Summary: The client for the Trivial File Transfer Protocol (TFTP).
Name: tftp
Version: 5.2
Release: 1
License: BSD
Group: Applications/Internet
Source0: http://www.kernel.org/pub/software/network/tftp/tftp-hpa-%{version}.tar.gz
BuildRequires: tcp_wrappers-devel
BuildRoot: %{_tmppath}/%{name}-root

%description
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp package provides the user
interface for TFTP, which allows users to transfer files to and from a
remote machine.  This program and TFTP provide very little security,
and should not be enabled unless it is expressly needed.

%package server
Group: System Environment/Daemons
Summary: The server for the Trivial File Transfer Protocol (TFTP).
Requires: xinetd

%description server
The Trivial File Transfer Protocol (TFTP) is normally used only for
booting diskless workstations.  The tftp-server package provides the
server for TFTP, which allows users to transfer files to and from a
remote machine. TFTP provides very little security, and should not be
```

```
enabled unless it is expressly needed.  The TFTP server is run from
/etc/xinetd.d/tftp, and is disabled by default on Red Hat Linux systems.

%prep
%setup -q -n tftp-hpa-%{version}

%build

%configure
make %{?_smp_mflags}

%install
rm -rf ${RPM_BUILD_ROOT}
mkdir -p ${RPM_BUILD_ROOT}%{_bindir}
mkdir -p ${RPM_BUILD_ROOT}%{_mandir}/man{1,8}
mkdir -p ${RPM_BUILD_ROOT}%{_sbindir}

make INSTALLROOT=${RPM_BUILD_ROOT} \
   SBINDIR=%{_sbindir} MANDIR=%{_mandir} \
 install
install -m755 -d ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/ ${RPM_BUILD_ROOT}/tftpboot
install -m644 tftp-xinetd ${RPM_BUILD_ROOT}%{_sysconfdir}/xinetd.d/tftp

%post server
/sbin/service xinetd reload > /dev/null 2>&1 || :

%postun server
if [ $1 = 0 ]; then
   /sbin/service xinetd reload > /dev/null 2>&1 || :
fi

%clean
rm -rf ${RPM_BUILD_ROOT}

%files
%defattr(-,root,root)
%{_bindir}/tftp
%{_mandir}/man1/*

%files server
%defattr(-,root,root)
%config(noreplace) %{_sysconfdir}/xinetd.d/tftp
%dir /tftpboot
%{_sbindir}/in.tftpd
%{_mandir}/man8/*

%changelog
* Tue Sep 14 2004 H. Peter Anvin <hpa@zytor.com>
```

- removed completely broken "Malta" patch.
- integrated into build machinery so rpm -ta works.

* Fri Feb 13 2004 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Wed Jun 04 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Fri Apr 11 2003 Elliot Lee <sopwith@redhat.com>
- 0.33
- Add /tftpboot directory (#88204)

* Mon Feb 24 2003 Elliot Lee <sopwith@redhat.com>
- rebuilt

* Sun Feb 23 2003 Tim Powers <timp@redhat.com>
- add BuildPreReq on tcp_wrappers

* Wed Jan 22 2003 Tim Powers <timp@redhat.com>
- rebuilt

* Mon Nov 11 2002 Elliot Lee <sopwith@redhat.com> 0.32-1
- Update to 0.32

* Wed Oct 23 2002 Elliot Lee <sopwith@redhat.com> 0.30-1
- Fix #55789
- Update to 0.30

* Thu Jun 27 2002 Elliot Lee <sopwith@redhat.com>
- Try applying HJ's patch from #65476

* Fri Jun 21 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Mon Jun 17 2002 Elliot Lee <sopwith@redhat.com>
- Update to 0.29

* Thu May 23 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Wed Jan 09 2002 Tim Powers <timp@redhat.com>
- automated rebuild

* Tue Dec 18 2001 Elliot Lee <sopwith@redhat.com> 0.17-15
- Add patch4: netkit-tftp-0.17-defaultport.patch for bug #57562
- Update to tftp-hpa-0.28 (bug #56131)
- Remove include/arpa/tftp.h to fix #57259

- Add resource limits in tftp-xinetd (#56722)

* Sun Jun 24 2001 Elliot Lee <sopwith@redhat.com>
- Bump release + rebuild.

* Tue Jun 12 2001 Helge Deller <hdeller@redhat.de> (0.17-13)
- updated tftp-hpa source to tftp-hpa-0.17
- tweaked specfile with different defines for tftp-netkit and tftp-hpa version
- use hpa's tftpd.8 man page instead of the netkits one

* Mon May 07 2001 Helge Deller <hdeller@redhat.de>
- rebuilt in 7.1.x

* Wed Apr 18 2001 Helge Deller <hdeller@redhat.de>
- fix tftp client's put problems (#29529)
- update to tftp-hpa-0.16

* Wed Apr 4 2001 Jakub Jelinek <jakub@redhat.com>
- don't let configure to guess compiler, it can pick up egcs

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- changed "wait" in xinetd file to "yes" (hpa-tftpd forks and exits) (#26467)
- fixed hpa-tftpd to handle files greater than 32MB (#23725)
- added "-l" flag to hpa-tftpd for file-logging (#26467)
- added description for "-l" to the man-page

* Thu Feb 08 2001 Helge Deller <hdeller@redhat.de>
- updated tftp client to 0.17 stable (#19640),
- drop dependency on xinetd for tftp client (#25051),

* Wed Jan 17 2001 Jeff Johnson <jbj@redhat.com>
- xinetd shouldn't wait on tftp (which forks) (#23923).

* Sat Jan 6 2001 Jeff Johnson <jbj@redhat.com>
- fix to permit tftp put's (#18128).
- startup as root with chroot to /tftpboot with early reversion to nobody
 is preferable to starting as nobody w/o ability to chroot.
- %%post is needed by server, not client. Add %%postun for erasure as well.

* Wed Aug 23 2000 Nalin Dahyabhai <nalin@redhat.com>
- default to being disabled

* Thu Aug 17 2000 Jeff Johnson <jbj@redhat.com>
- correct group.

* Tue Jul 25 2000 Nalin Dahyabhai <nalin@redhat.com>
- change user from root to nobody

* Sat Jul 22 2000 Jeff Johnson <jbj@redhat.com>
- update to tftp-hpa-0.14 (#14003).
- add server_args (#14003).
- remove -D_BSD_SOURCE (#14003).

* Fri Jul 21 2000 Nalin Dahyabhai <nalin@redhat.com>
- cook up an xinetd config file for tftpd

* Wed Jul 12 2000 Prospector <bugzilla@redhat.com>
- automatic rebuild

* Sun Jun 18 2000 Jeff Johnson <jbj@redhat.com>
- FHS packaging.
- update to 0.17.

* Fri May 5 2000 Matt Wilson <msw@redhat.com>
- use _BSD_SOURCE for hpa's tftpd so we get BSD signal semantics.

* Fri Feb 11 2000 Bill Nottingham <notting@redhat.com>
- fix description

* Wed Feb 9 2000 Jeff Johnson <jbj@redhat.com>
- compress man pages (again).

* Wed Feb 02 2000 Cristian Gafton <gafton@redhat.com>
- man pages are compressed
- fix description and summary

* Tue Jan 4 2000 Bill Nottingham <notting@redhat.com>
- split client and server

* Tue Dec 21 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.16.

* Sat Aug 28 1999 Jeff Johnson <jbj@redhat.com>
- update to 0.15.

* Wed Apr 7 1999 Jeff Johnson <jbj@redhat.com>
- tftpd should truncate file when overwriting (#412)

* Sun Mar 21 1999 Cristian Gafton <gafton@redhat.com>
- auto rebuild in the new build environment (release 22)

* Mon Mar 15 1999 Jeff Johnson <jbj@redhat.com>
- compile for 6.0.

* Fri Aug 7 1998 Jeff Johnson <jbj@redhat.com>
- build root

* Mon Apr 27 1998 Prospector System <bugs@redhat.com>
- translations modified for de, fr, tr

* Mon Sep 22 1997 Erik Troan <ewt@redhat.com>
- added check for getpwnam() failure

* Tue Jul 15 1997 Erik Troan <ewt@redhat.com>
- initial build

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp.spec
No license file was found, but licenses were detected in source scan.

/* -*- c -*- ---------- *
*
* Copyright 2001-2006 H. Peter Anvin - All Rights Reserved
*
* This program is free software available under the same license
* as the "OpenBSD" operating system, distributed at
* http://www.openbsd.org/.
*
* ---------- */

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/config.h
No license file was found, but licenses were detected in source scan.

.\" -*- nroff -*- ---------- *
.\"
.\" Copyright (c) 1990, 1993, 1994
.\" The Regents of the University of California. All rights reserved.
.\"
.\" Copyright 2001 H. Peter Anvin - All Rights Reserved
.\"
.\" Redistribution and use in source and binary forms, with or without
.\" modification, are permitted provided that the following conditions
.\" are met:
.\" 1. Redistributions of source code must retain the above copyright
.\" notice, this list of conditions and the following disclaimer.
.\" 2. Redistributions in binary form must reproduce the above copyright
.\" notice, this list of conditions and the following disclaimer in the
.\" documentation and/or other materials provided with the distribution.
.\" 3. Neither the name of the University nor the names of its contributors
.\" may be used to endorse or promote products derived from this software
.\" without specific prior written permission.
.\"
.\" THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND

.\" ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
.\" IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
.\" ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
.\" FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
.\" DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
.\" OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"-- */

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftp/tftp.1.in
No license file was found, but licenses were detected in source scan.

/*
* Copyright (c) 1983 Regents of the University of California.
* Copyright (c) 1999-2009 H. Peter Anvin
* Copyright (c) 2011 Intel Corporation; author: H. Peter Anvin
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1117123104_1611167805.54/0/tftp-hpa-5-2-4-tar-bz2/tftp-hpa-5.2/tftpd/tftpd.c

1.623 x-crypto 0.0.0-20220507011949-2cf3adece122

1.623.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.624 libdevmapper 1.02.149

1.624.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free

library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is

copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year  name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.625 go-openapi-swag 0.19.14

1.625.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.626 libmnl 1.0.3

1.626.1 Available under license :

30 atime=1337191922.583566431
30 ctime=1338052482.808834269

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source

code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes

a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated

interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy

from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference

directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you

distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free

programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.627 modern-go-reflect2 1.0.1

1.627.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.628 python 3.7.3

1.628.1 Available under license :

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this
distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Additional Conditions for this Windows binary build

This program is linked with and uses Microsoft Distributable Code,
copyrighted by Microsoft Corporation. The Microsoft Distributable Code
is embedded in each .exe, .dll and .pyd file as a result of running
the code through a linker.

If you further distribute programs that include the Microsoft
Distributable Code, you must comply with the restrictions on
distribution specified by Microsoft. In particular, you must require
distributors and external end users to agree to terms that protect the
Microsoft Distributable Code at least as much as Microsoft's own
requirements for the Distributable Code. See Microsoft's documentation
(included in its developer tools and on its website at microsoft.com)
for specific details.

Redistribution of the Windows binary build of the Python interpreter complies with this agreement, provided that you do not:

- alter any copyright, trademark or patent notice in Microsoft's Distributable Code;

- use Microsoft's trademarks in your programs' names or in a way that suggests your programs come from or are endorsed by Microsoft;

- distribute Microsoft's Distributable Code to run on a platform other than Microsoft operating systems, run-time technologies or application platforms; or

- include Microsoft Distributable Code in malicious, deceptive or unlawful programs.

These restrictions apply only to the Microsoft Distributable Code as defined above, not to Python itself or any programs running on the Python interpreter. The redistribution of the Python interpreter and libraries is governed by the Python Software License included with this file, or by other licenses as marked.
X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization

from The Open Group.

X Window System is a trademark of The Open Group
libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
****
Copyright
****

Python and this documentation is:

Copyright 2001-2019 Python Software Foundation. All rights reserved.

Copyright 2000 BeOpen.com. All rights reserved.

Copyright 1995-2000 Corporation for National Research Initiatives. All rights
reserved.

Copyright 1991-1995 Stichting Mathematisch Centrum. All rights reserved.

See :ref:`history-and-license` for complete license and permissions information.
Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2017 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,

distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This license applies to the bootstrapper application that is embedded within the installer. It has no impact on the licensing for the rest of the installer or Python itself, as no code covered by this license exists in any other part of the product.

Microsoft Reciprocal License (MS-RL)

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

1. Definitions
The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.
A "contribution" is the original software, or any additions or changes to the software.
A "contributor" is any person that distributes its contribution under this license.
"Licensed patents" are a contributor's patent claims that read directly on its contribution.

2. Grant of Rights
(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.
(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

3. Conditions and Limitations
(A) Reciprocal Grants- For any file you distribute that contains code from the software (in source code or binary format), you must provide recipients the source code to that file along with a copy of this license, which license will govern that file. You may license other files that are entirely your own work and do not contain code from the software under any terms you choose.
(B) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or

trademarks.
(C) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.
(D) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.
(E) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.
(F) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS"
basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON
FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS
A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON,
OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any
relationship of agency, partnership, or joint venture between PSF and
Licensee. This License Agreement does not grant permission to use PSF
trademarks or trade name in a trademark sense to endorse or promote
products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an
office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the
Individual or Organization ("Licensee") accessing and otherwise using
this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR

IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the

quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam,
The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of Stichting Mathematisch
Centrum or CWI not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
.. highlightlang:: none

.. _history-and-license:

****
History and License
****

History of the software
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to

form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org/ for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL compatible?
0.9.0 thru 1.2	n/a	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

.. note::

GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

Terms and conditions for accessing or otherwise using Python
==========

PSF LICENSE AGREEMENT FOR PYTHON |release|

.. parsed-literal::

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using Python |release| software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python |release| alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright 2001-2019 Python Software Foundation; All Rights Reserved" are retained in Python |release| alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python |release| or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python |release|.

4. PSF is making Python |release| available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON |release| WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON |release| FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON |release|, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python |release|, Licensee agrees
   to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

.. parsed-literal::

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at
   160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization
   ("Licensee") accessing and otherwise using this software in source or binary
   form and its associated documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License Agreement,
   BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license
   to reproduce, analyze, test, perform and/or display publicly, prepare derivative
   works, distribute, and otherwise use the Software alone or in any derivative
   version, provided, however, that the BeOpen Python License is retained in the
   Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS" basis.
   BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF
   EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION
OR
   WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE
   USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR
   ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING,
   MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF
   ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material breach of
   its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all respects
   by the law of the State of California, excluding conflict of law provisions.
   Nothing in this License Agreement shall be deemed to create any relationship of
   agency, partnership, or joint venture between BeOpen and Licensee. This License
   Agreement does not grant permission to use BeOpen trademarks or trade names in a
   trademark sense to endorse or promote products or services of Licensee, or any
   third party. As an exception, the "BeOpen Python" logos available at
   http://www.pythonlabs.com/logos.html may be used according to the permissions
   granted on that web page.

7. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

.. parsed-literal::

1. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013."

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

.. parsed-literal::

Copyright 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Licenses and Acknowledgements for Incorporated Software
==========

This section is an incomplete, but growing list of licenses and acknowledgements for third-party software incorporated in the Python distribution.

Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

```
A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

  1. Redistributions of source code must retain the above copyright
     notice, this list of conditions and the following disclaimer.

  2. Redistributions in binary form must reproduce the above copyright
     notice, this list of conditions and the following disclaimer in the
     documentation and/or other materials provided with the distribution.

  3. The names of its contributors may not be used to endorse or promote
     products derived from this software without specific prior written
     permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
```

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
Project, http://www.wide.ad.jp/. ::

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

Copyright 1996 by Sam Rushing

All Rights Reserved

Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of Sam
Rushing not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior
permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN
NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

The :mod:`http.cookies` module contains the following notice::

Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

All Rights Reserved

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Timothy O'Malley not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR

PERFORMANCE OF THIS SOFTWARE.

Execution tracing

The :mod:`trace` module contains the following notice::

```
portions copyright 2001, Autonomous Zones Industries, Inc., all rights...
err...  reserved and offered to the public under the terms of the
Python 2.2 license.
Author: Zooko O'Whielacronx
http://zooko.com/
mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.
Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.


Permission to use, copy, modify, and distribute this Python software and
its associated documentation for any purpose without fee is hereby
granted, provided that the above copyright notice appears in all copies,
and that both that copyright notice and this permission notice appear in
supporting documentation, and that the name of neither Automatrix,
Bioreason or Mojam Media be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.
```

UUencode and UUdecode functions

The :mod:`uu` module contains the following notice::

```
Copyright 1994 by Lance Ellinghouse
Cathedral City, California Republic, United States of America.
                    All Rights Reserved
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
```

supporting documentation, and that the name of Lance Ellinghouse
not be used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE
FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

The XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB
Copyright (c) 1999-2002 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and
its associated documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice appears in
all copies, and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Secret Labs AB or the author not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT-
ABILITY AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE

OF THIS SOFTWARE.

test_epoll

The :mod:`test_epoll` module contains the following notice::

Copyright (c) 2001-2006 Twisted Matrix Laboratories.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

The :mod:`select` module contains the following notice for the kqueue
interface::

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

<MIT License>
Copyright (c) 2013 Marek Majkowski <marek@popcount.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
</MIT License>

Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on

March 16, 2009, contains the following copyright and licensing
notice::

```
/****************************************************************
 *
 * The author of this software is David M. Gay.
 *
 * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose without fee is hereby granted, provided that this entire notice
 * is included in all copies of any software which is or includes a copy
 * or modification of this software and in all copies of the supporting
 * documentation for such software.
 *
 * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
 * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
 * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
 * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
 *
 ****************************************************************/
```

OpenSSL

The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use
the OpenSSL library for added performance if made available by the
operating system. Additionally, the Windows and Mac OS X installers for
Python may include a copy of the OpenSSL libraries, so we include a copy
of the OpenSSL license here::

```
LICENSE ISSUES
==============

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts. Actually both licenses are BSD-style
Open Source licenses. In case of any license issues related to OpenSSL
please contact openssl-core@openssl.org.

OpenSSL License
---------------

 /* ====================================================================
  * Copyright (c) 1998-2008 The OpenSSL Project.  All rights reserved.
  *
```

* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in
*   the documentation and/or other materials provided with the
*   distribution.
*
* 3. All advertising materials mentioning features or use of this
*   software must display the following acknowledgment:
*   "This product includes software developed by the OpenSSL Project
*   for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*   endorse or promote products derived from this software without
*   prior written permission. For written permission, please contact
*   openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*   nor may "OpenSSL" appear in their names without prior written
*   permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*   acknowledgment:
*   "This product includes software developed by the OpenSSL Project
*   for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ==
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).

```
 *
 */
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof) from
 *    the apps directory (application code) you must include an acknowledgement:
 *    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
```

```
   * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
   * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
   * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
   * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
   * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
   * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
   * SUCH DAMAGE.
   *
   * The licence and distribution terms for any publically available version or
   * derivative of this code cannot be changed.  i.e. this code cannot simply be
   * copied and put under another distribution licence
   * [including the GNU Public Licence.]
   */
```

expat

The :mod:`pyexpat` extension is built using an included copy of the expat
sources unless the build is configured ``--with-system-expat``::

```
 Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                                and Clark Cooper

 Permission is hereby granted, free of charge, to any person obtaining
 a copy of this software and associated documentation files (the
 "Software"), to deal in the Software without restriction, including
 without limitation the rights to use, copy, modify, merge, publish,
 distribute, sublicense, and/or sell copies of the Software, and to
 permit persons to whom the Software is furnished to do so, subject to
 the following conditions:

 The above copyright notice and this permission notice shall be included
 in all copies or substantial portions of the Software.

 THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
 EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
 MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
 IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
 CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
 TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
 SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

libffi

The :mod:`_ctypes` extension is built using an included copy of the libffi sources unless the build is configured ``--with-system-libffi``::

Copyright (c) 1996-2008 Red Hat, Inc and others.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

zlib

The :mod:`zlib` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build::

Copyright (C) 1995-2011 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

Copyright (c) 2005 Don Owens
All rights reserved.

This code is released under the BSD license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libmpdec

The :mod:`_decimal` module is built using an included copy of the libmpdec library unless the build is configured ``--with-system-libmpdec``::

Copyright (c) 2008-2016 Stefan Krah. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.629 pinentry 1.1.0

1.629.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.630 glibc 2.20

1.630.1 Available under license :

@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@subheading Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be

introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the

users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program
which contains a notice placed by the copyright holder or other
authorized party saying it may be distributed under the terms of this
Lesser General Public License (also called ``this License''). Each
licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work
which has been distributed under these terms. A ``work based on the
Library'' means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one

of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the Library'' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the

executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
``any later version'', you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

@center @b{NO WARRANTY}

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE
LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF

SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer'' for the library, if necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library

`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be

distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further

copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and

publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has

been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in

the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a

version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;

with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
Texts. A copy of the license is included in the section entitled ``GNU
Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation. These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following
license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC Berkeley, by Digital Equipment Corporation and by Internet Software Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any

purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its
documentation is hereby granted, provided that both the copyright
notice and this permission notice appear in all copies of the
software, derivative works or modified versions, and any portions
thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS"
CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR
ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or
extensions that they make and grant Carnegie Mellon the rights to
redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND
CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER

IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled
as not being for redistribution (check the version message and/or README),
you are not permitted to redistribute that version of the software in any
way or form.
1. All terms of the all other applicable copyrights and licenses must be
followed.
2. Redistributions of source code must retain the authors' copyright
notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright
notice(s), this list of conditions, and the following disclaimer in the
documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The libidn code is copyright Simon Josefsson, with portions copyright
The Internet Society, Tom Tromey and Red Hat, Inc.:

Copyright (C) 2002, 2003, 2004, 2011 Simon Josefsson

This file is part of GNU Libidn.

GNU Libidn is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

GNU Libidn is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with GNU Libidn; if not, see <http://www.gnu.org/licenses/>.

The following notice applies to portions of libidn/nfkc.c:

This file contains functions from GLIB, including gutf8.c and
gunidecomp.c, all licensed under LGPL and copyright hold by:

Copyright (C) 1999, 2000 Tom Tromey
Copyright 2000 Red Hat, Inc.

The following applies to portions of libidn/punycode.c and
libidn/punycode.h:

This file is derived from RFC 3492bis written by Adam M. Costello.

Disclaimer and license: Regarding this entire document or any
portion of it (including the pseudocode and C code), the author
makes no guarantees and is not responsible for any damage resulting
from its use. The author grants irrevocable permission to anyone
to use, modify, and distribute it in any way that does not diminish
the rights of anyone else to use, modify, and distribute it,
provided that redistributed derivative works do not contain
misleading author or version information. Derivative works need
not be licensed under similar terms.

Copyright (C) The Internet Society (2003). All Rights Reserved.

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it
or assist in its implementation may be prepared, copied, published
and distributed, in whole or in part, without restriction of any
kind, provided that the above copyright notice and this paragraph are
included on all such copies and derivative works. However, this
document itself may not be modified in any way, such as by removing
the copyright notice or references to the Internet Society or other
Internet organizations, except as needed for the purpose of
developing Internet standards in which case the procedures for
copyrights defined in the Internet Standards process must be
followed, or as required to translate it into languages other than

English.

The limited permissions granted above are perpetual and will not be
revoked by the Internet Society or its successors or assigns.

This document and the information contained herein is provided on an
"AS IS" basis and THE INTERNET SOCIETY AND THE INTERNET ENGINEERING
TASK FORCE DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING
BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION
HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF
MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its

documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. In practice, this means that if you use
PCRE in software that you distribute to others, commercially or
otherwise, you must put a sentence like this

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant
files or online help data or similar. A reference to the ftp site for
the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not
intended to apply to whole chains of software. If package A includes PCRE,
it must acknowledge it, but if package B is software that includes package
A, the condition is not imposed on package B (unless it uses PCRE
independently).

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
then the terms of that licence shall supersede any condition above with
which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Part of stdio-common/tst-printf.c is copyright C E Chew:

(C) Copyright C E Chew

Feel free to copy, use and distribute this software provided:

1. you do not pretend that you wrote it
2. you leave this copyright notice intact.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, see
<http://www.gnu.org/licenses/>. */

1.631 edk2 1.30

1.631.1 Available under license :

License-History.txt
==========

This file contains the history of license change and contributor's agreement
changes.

Unless otherwise noted in a specific file, the EDK2 project is now licensed
under the terms listed in the License.txt file. Terms under which Contributions
made prior to the move to the License.txt formulation are shown below. Those
terms require notice of the terms themselves be preserved and presented with the
contributions. This file serves that preservation purpose as a matter of
documenting the history of the project.

Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:
https://opensource.org/licenses/BSD-2-Clause
Complete text of TianoCore Contribution Agreement 1.0 included below
Complete text of TianoCore Contribution Agreement 1.1 included below

Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for
the TianoCore Contribution Agreement.

References:
https://opensource.org/licenses/BSD-2-Clause
Complete text of TianoCore Contribution Agreement 1.0 included below
Complete text of TianoCore Contribution Agreement 1.1 included below
https://opensource.org/licenses/BSDplusPatent

Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=1373

License.txt: BSD 2-Clause License

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,

INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Contributions.txt: TianoCore Contribution Agreement 1.1

```
  ======================
  = Code Contributions =
  ======================

  To make a contribution to a TianoCore project, follow these steps.
  1. Create a change description in the format specified below to
     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
     that the project documents on its web page.  If the process is
     not documented, then submit the code on development email list
     for the project.
  5. It is preferred that contributions are submitted using the same
     copyright license as the base project. When that is not possible,
     then contributions using the following licenses can be accepted:
     * BSD (2-clause): http://opensource.org/licenses/BSD-2-Clause
     * BSD (3-clause): http://opensource.org/licenses/BSD-3-Clause
     * MIT: http://opensource.org/licenses/MIT
     * Python-2.0: http://opensource.org/licenses/Python-2.0
     * Zlib: http://opensource.org/licenses/Zlib

     For documentation:
     * FreeBSD Documentation License
       https://www.freebsd.org/copyright/freebsd-doc-license.html

     Contributions of code put into the public domain can also be
     accepted.
```

Contributions using other licenses might be accepted, but further
review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For

example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
made under the terms of the contribution agreement. This
agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
by their real/legal name and their email address.

==========
= TianoCore Contribution Agreement 1.1 =
==========

INTEL CORPORATION ("INTEL") MAKES AVAILABLE SOFTWARE, DOCUMENTATION ("DOCUMENTATION"), INFORMATION AND/OR OTHER MATERIALS FOR USE IN THE TIANOCORE OPEN SOURCE PROJECT (COLLECTIVELY "CONTENT"). USE OF THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT BETWEEN YOU AND INTEL AND/OR THE TERMS AND CONDITIONS OF LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. BY USING THE CONTENT, YOU AGREE THAT YOUR USE OF THE CONTENT IS GOVERNED BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU MAY NOT USE THE CONTENT.

Unless otherwise indicated, all Content (except Documentation) made available
on the TianoCore site is provided to you under the terms and conditions of the
BSD License ("BSD"). A copy of the BSD License is available at
http://opensource.org/licenses/bsd-license.php
or when applicable, in the associated License.txt file.

Unless otherwise indicated, all Documentation made available on the
TianoCore site is provided to you under the terms and conditions of the
FreeBSD Documentation License ("FreeBSD"). A copy of the license is
available at https://www.freebsd.org/copyright/freebsd-doc-license.html or,
when applicable, in the associated License.txt file.

Certain other content may be made available under other licenses as
indicated in or with such Content (for example, in a License.txt file).

You accept and agree to the following terms and conditions for Your
present and future Contributions submitted to TianoCore site. Except
for the license granted to Intel hereunder, You reserve all right,
title, and interest in and to Your Contributions.

== SECTION 1: Definitions ==
* "You" or "Contributor" shall mean the copyright owner or legal entity authorized by the copyright owner that is making a Contribution hereunder. All other entities that control, are controlled by, or are under common control with that entity are considered to be a single Contributor. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
* "Contribution" shall mean any original work of authorship, including any modifications or additions to an existing work, that is intentionally submitted by You to the TianoCore site for inclusion in, or documentation of, any of the Content. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the TianoCore site or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the TianoCore site for the purpose of discussing and improving the Content, but excluding communication that is conspicuously marked or otherwise designated in writing by You as "Not a Contribution."

== SECTION 2: License for Contributions ==
* Contributor hereby agrees that redistribution and use of the Contribution in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
** Redistributions of source code must retain the Contributor's copyright notice, this list of conditions and the following disclaimer.
** Redistributions in binary form must reproduce the Contributor's copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Disclaimer. None of the names of Contributor, Intel, or the names of their respective contributors may be used to endorse or promote products derived from this software without specific prior written permission.
* Contributor grants a license (with the right to sublicense) under claims of Contributor's patents that Contributor can license that are infringed by the Contribution (as delivered by Contributor) to make, use, distribute, sell, offer for sale, and import the Contribution and derivative works thereof solely to the minimum extent necessary for licensee to exercise the granted copyright

license; this patent license applies solely to those portions of
the Contribution that are unmodified. No hardware per se is
licensed.
* EXCEPT AS EXPRESSLY SET FORTH IN SECTION 3 BELOW, THE
CONTRIBUTION IS PROVIDED BY THE CONTRIBUTOR "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
CONTRIBUTOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE
CONTRIBUTION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

== SECTION 3: Representations ==
* You represent that You are legally entitled to grant the above
license. If your employer(s) has rights to intellectual property
that You create that includes Your Contributions, You represent
that You have received permission to make Contributions on behalf
of that employer, that Your employer has waived such rights for
Your Contributions.
* You represent that each of Your Contributions is Your original
creation (see Section 4 for submissions on behalf of others).
You represent that Your Contribution submissions include complete
details of any third-party license or other restriction
(including, but not limited to, related patents and trademarks)
of which You are personally aware and which are associated with
any part of Your Contributions.

== SECTION 4: Third Party Contributions ==
* Should You wish to submit work that is not Your original creation,
You may submit it to TianoCore site separately from any
Contribution, identifying the complete details of its source
and of any license or other restriction (including, but not
limited to, related patents, trademarks, and license agreements)
of which You are personally aware, and conspicuously marking the
work as "Submitted on behalf of a third-party: [named here]".

== SECTION 5: Miscellaneous ==
* Applicable Laws. Any claims arising under or relating to this
Agreement shall be governed by the internal substantive laws of
the State of Delaware or federal courts located in Delaware,
without regard to principles of conflict of laws.
* Language. This Agreement is in the English language only, which

language shall be controlling in all respects, and all versions
of this Agreement in any other language shall be for accommodation
only and shall not be binding. All communications and notices made
or given pursuant to this Agreement, and all documentation and
support to be provided, unless otherwise noted, shall be in the
English language.

Contributions.txt: TianoCore Contribution Agreement 1.0

```
=======================
= Code Contributions =
=======================

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement.  Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page.  If the process is
   not documented, then submit the code on development email list
   for the project.
5. It is preferred that contributions are submitted using the same
   copyright license as the base project. When that is not possible,
   then contributions using the following licenses can be accepted:
   * BSD (2-clause): http://opensource.org/licenses/BSD-2-Clause
   * BSD (3-clause): http://opensource.org/licenses/BSD-3-Clause
   * MIT: http://opensource.org/licenses/MIT
   * Python-2.0: http://opensource.org/licenses/Python-2.0
   * Zlib: http://opensource.org/licenses/Zlib

   Contributions of code put into the public domain can also be
   accepted.

   Contributions using other licenses might be accepted, but further
   review will be required.

=====================================================
= Change Description / Commit Message / Patch Email =
```

```
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code.  For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change.  Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement.  This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

=========================================
```

= TianoCore Contribution Agreement 1.0 =
==========

INTEL CORPORATION ("INTEL") MAKES AVAILABLE SOFTWARE, DOCUMENTATION, INFORMATION AND/OR OTHER MATERIALS FOR USE IN THE TIANOCORE OPEN SOURCE PROJECT (COLLECTIVELY "CONTENT"). USE OF THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT BETWEEN YOU AND INTEL AND/OR THE TERMS AND CONDITIONS OF LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. BY USING THE CONTENT, YOU AGREE THAT YOUR USE OF THE CONTENT IS GOVERNED BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU MAY NOT USE THE CONTENT.

Unless otherwise indicated, all Content made available on the TianoCore site is provided to you under the terms and conditions of the BSD License ("BSD"). A copy of the BSD License is available at http://opensource.org/licenses/bsd-license.php or when applicable, in the associated License.txt file.

Certain other content may be made available under other licenses as indicated in or with such Content. (For example, in a License.txt file.)

You accept and agree to the following terms and conditions for Your present and future Contributions submitted to TianoCore site. Except for the license granted to Intel hereunder, You reserve all right, title, and interest in and to Your Contributions.

== SECTION 1: Definitions ==

* "You" or "Contributor" shall mean the copyright owner or legal entity authorized by the copyright owner that is making a Contribution hereunder. All other entities that control, are controlled by, or are under common control with that entity are considered to be a single Contributor. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
* "Contribution" shall mean any original work of authorship, including any modifications or additions to an existing work, that is intentionally submitted by You to the TinaoCore site for inclusion in, or documentation of, any of the Content. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the TianoCore site or its representatives, including but not limited

to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by,
or on behalf of, the TianoCore site for the purpose of
discussing and improving the Content, but excluding
communication that is conspicuously marked or otherwise
designated in writing by You as "Not a Contribution."

== SECTION 2: License for Contributions ==
* Contributor hereby agrees that redistribution and use of the
Contribution in source and binary forms, with or without
modification, are permitted provided that the following
conditions are met:
** Redistributions of source code must retain the Contributor's
copyright notice, this list of conditions and the following
disclaimer.
** Redistributions in binary form must reproduce the Contributor's
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
* Disclaimer. None of the names of Contributor, Intel, or the names
of their respective contributors may be used to endorse or
promote products derived from this software without specific
prior written permission.
* Contributor grants a license (with the right to sublicense) under
claims of Contributor's patents that Contributor can license that
are infringed by the Contribution (as delivered by Contributor) to
make, use, distribute, sell, offer for sale, and import the
Contribution and derivative works thereof solely to the minimum
extent necessary for licensee to exercise the granted copyright
license; this patent license applies solely to those portions of
the Contribution that are unmodified. No hardware per se is
licensed.
* EXCEPT AS EXPRESSLY SET FORTH IN SECTION 3 BELOW, THE
CONTRIBUTION IS PROVIDED BY THE CONTRIBUTOR "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
CONTRIBUTOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE
CONTRIBUTION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

== SECTION 3: Representations ==

* You represent that You are legally entitled to grant the above license. If your employer(s) has rights to intellectual property that You create that includes Your Contributions, You represent that You have received permission to make Contributions on behalf of that employer, that Your employer has waived such rights for Your Contributions.
* You represent that each of Your Contributions is Your original creation (see Section 4 for submissions on behalf of others). You represent that Your Contribution submissions include complete details of any third-party license or other restriction (including, but not limited to, related patents and trademarks) of which You are personally aware and which are associated with any part of Your Contributions.

== SECTION 4: Third Party Contributions ==
* Should You wish to submit work that is not Your original creation, You may submit it to TianoCore site separately from any Contribution, identifying the complete details of its source and of any license or other restriction (including, but not limited to, related patents, trademarks, and license agreements) of which You are personally aware, and conspicuously marking the work as "Submitted on behalf of a third-party: [named here]".

== SECTION 5: Miscellaneous ==
* Applicable Laws. Any claims arising under or relating to this Agreement shall be governed by the internal substantive laws of the State of Delaware or federal courts located in Delaware, without regard to principles of conflict of laws.
* Language. This Agreement is in the English language only, which language shall be controlling in all respects, and all versions of this Agreement in any other language shall be for accommodation only and shall not be binding. All communications and notices made or given pursuant to this Agreement, and all documentation and support to be provided, unless otherwise noted, shall be in the English language.

Copyright (c) 2012 - 2019, Intel Corporation. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation

and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder and contributor hereby grants to those receiving rights under this license a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except for failure to satisfy the conditions of this license) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer this software, where such license applies only to those patent claims, already acquired or hereafter acquired, licensable by such copyright holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and non-copyrightable additions of contributors, in source or binary form) alone; or

(b) combination of their Contribution(s) with the work of authorship to which such Contribution(s) was added by such copyright holder or contributor, if, at the time the Contribution is added, such addition causes such combination to be necessarily infringed. The patent license shall not apply to any other combinations which include the Contribution.

Except as expressly stated above, no rights or licenses from any copyright holder or contributor is granted under this license, whether expressly, by implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Some files are subject to the following license, the MIT license. Those files are located in:
- OvmfPkg/Include/IndustryStandard/Xen/
- OvmfPkg/XenBusDxe/

SPDX-License-Identifier: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2020, Rebecca Cran <rebecca@bsdio.com>
Copyright (c) 2004 - 2019, Intel Corporation. All rights reserved.
Copyright (C) 2018, Red Hat, Inc.
Copyright (c) 2017, Advanced Micro Devices. All rights reserved.
Copyright (C) 2016, Red Hat, Inc.
(C) Copyright 2016 Hewlett Packard Enterprise Development LP
Copyright (c) 2015 Nahanni Systems
Copyright (C) 2015, Red Hat, Inc.
Copyright (C) 2014, Red Hat, Inc.
Copyright (c) 2014, Pluribus Networks, Inc.
Copyright (C) 2013, Red Hat, Inc.
Copyright (c) 2012, 2013, Red Hat, Inc.
Copyright (c) 2011, Bei Guan <gbtju85@gmail.com>
Copyright (c) 2011, Andrei Warkentin <andreiw@motorola.com>
Portions copyright (c) 2011, Apple Inc. All rights reserved.
Portions copyright (c) 2010,Apple Inc. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder and contributor hereby grants to those receiving rights under this license a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except for failure to satisfy the conditions of this license) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer this software, where such license applies only to those patent claims, already acquired or hereafter acquired, licensable by such copyright holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and non-copyrightable additions of contributors, in source or binary form) alone; or

(b) combination of their Contribution(s) with the work of authorship to which such Contribution(s) was added by such copyright holder or contributor, if, at the time the Contribution is added, such addition causes such combination to be necessarily infringed. The patent license shall not apply to any other combinations which include the Contribution.

Except as expressly stated above, no rights or licenses from any copyright holder or contributor is granted under this license, whether expressly, by implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2019, TianoCore and contributors. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder and contributor hereby grants to those receiving rights under this license a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except for failure to satisfy the conditions of this license) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer this software, where such license applies only to those patent claims, already acquired or hereafter acquired, licensable by such copyright holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and non-copyrightable additions of contributors, in source or binary form) alone; or

(b) combination of their Contribution(s) with the work of authorship to which such Contribution(s) was added by such copyright holder or contributor, if, at the time the Contribution is added, such addition causes such combination to be necessarily infringed. The patent license shall not apply to any other combinations which include the Contribution.

Except as expressly stated above, no rights or licenses from any copyright holder or contributor is granted under this license, whether expressly, by implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.632 jfreechart 1.0.13

1.632.1 Available under license :

http://www.jfree.org/jfreechart/faq.html

LGPL

4. Can I use JFreeChart in a commercial (closed source) application? Do I need to pay a fee?

Yes, the licence (GNU LGPL) allows this. There is no licence fee to pay, but you must adhere to the terms of the licence. There is more information contained at the end of the jfreechart-version-install.pdf document.

1.633 libcap 2.24

1.633.1 Available under license :

Unless otherwise *explicitly* stated the following text describes the
licensed conditions under which the contents of this module release
may be distributed:

Redistribution and use in source and binary forms of this module, with
or without modification, are permitted provided that the following
conditions are met:

1. Redistributions of source code must retain any existing copyright
  notice, and this entire permission notice in its entirety,
  including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
  copyright notices, this list of conditions, and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

3. The name of any author may not be used to endorse or promote
  products derived from this software without their specific prior
  written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU Library General Public License, in which case the provisions of
the GNU LGPL are required INSTEAD OF the above restrictions. (This
clause is necessary due to a potential conflict between the GNU LGPL
and the restrictions contained in a BSD-style copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS

OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation`s software and to any other program whose authors commit to using it. (Some other Free Software Foundation

software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author`s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors` reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone`s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program`s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or

binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program`s name and an idea of what it does.

Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w`. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c`
for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.
Unless otherwise *explicitly* stated, the following text describes the
licensed conditions under which the contents of this libcap release
may be used and distributed:

Redistribution and use in source and binary forms of libcap, with
or without modification, are permitted provided that the following

conditions are met:

1. Redistributions of source code must retain any existing copyright
  notice, and this entire permission notice in its entirety,
  including the disclaimer of warranties.

2. Redistributions in binary form must reproduce all prior and current
  copyright notices, this list of conditions, and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.

3. The name of any author may not be used to endorse or promote
  products derived from this software without their specific prior
  written permission.

ALTERNATIVELY, this product may be distributed under the terms of the
GNU General Public License (v2.0 - see below), in which case the
provisions of the GNU GPL are required INSTEAD OF the above
restrictions. (This clause is necessary due to a potential conflict
between the GNU GPL and the restrictions contained in a BSD-style
copyright.)

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR(S) BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

Full text of gpl-2.0.txt:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an

announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by

the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.634 kubernetes-apimachinery 0.21.4

1.634.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.635 html5lib 1.1

1.635.1 Available under license :

Copyright (c) 2006-2013 James Graham and other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2006-2013 James Graham, Geoffrey Sneddon, and
other contributors

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.636 pep517 0.8.2

1.636.1 Available under license :

The MIT License (MIT)

Copyright (c) 2017 Thomas Kluyver

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.637 blas 2.2.1

1.637.1 Available under license :

No license file was found, but licenses were detected in source scan.

<!--
Copyright 2020, 2021, Ludovic Henry

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Please contact git@ludovic.dev or visit ludovic.dev if you need additional
information or have any questions.
-->

Found in path(s):
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/META-INF/maven/dev.ludovic.netlib/blas/pom.xml
No license file was found, but licenses were detected in source scan.

/*
* Copyright 2020, 2021, Ludovic Henry
*
* Permission is hereby granted, free of charge, to any person obtaining a copy
* of this software and associated documentation files (the "Software"), to deal
* in the Software without restriction, including without limitation the rights
* to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
* copies of the Software, and to permit persons to whom the Software is
* furnished to do so, subject to the following conditions:
*
* The above copyright notice and this permission notice shall be included in
* all copies or substantial portions of the Software.
*
* THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
* IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
* AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
* LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
* OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
* SOFTWARE.
*
* Please contact git@ludovic.dev or visit ludovic.dev if you need additional
* information or have any questions.
*/

Found in path(s):
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/NativeBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/JavaBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/BLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/ForeignLinkerBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/AbstractBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/VectorBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/InstanceBuilder.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/Java8BLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/Java11BLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/JNIBLAS.java
* /opt/cola/permits/1577462851_1677500231.5694935/0/blas-2-2-1-sources-1-jar/dev/ludovic/netlib/blas/F2jBLAS.java

1.638 pcre 8.37

1.638.1 Available under license :

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End
PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

Release 8 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself. The data in the testdata directory is not copyrighted and is in the public domain.

The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

Copyright (c) 1997-2015 University of Cambridge
All rights reserved.

PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Emain domain: freemail.hu

Copyright(c) 2010-2015 Zoltan Herczeg
All rights reserved.

STACK-LESS JUST-IN-TIME COMPILER

Written by: Zoltan Herczeg
Email local part: hzmester
Emain domain: freemail.hu

Copyright(c) 2009-2015 Zoltan Herczeg
All rights reserved.

THE C++ WRAPPER FUNCTIONS

Contributed by: Google Inc.

Copyright (c) 2007-2012, Google Inc.
All rights reserved.

THE "BSD" LICENCE

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the University of Cambridge nor the name of Google Inc. nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)

ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

End

1.639 urlesc 0.0.0-20170810143723-de5bf2ad4578

1.639.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.640 netns 0.0.0-20211101163701-50045581ed74

1.640.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2014 Vishvananda Ishaya.
Copyright 2014 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

1.641 tcpdump 4.9.3

1.641.1 Available under license :

License: BSD

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.
3. The names of the authors may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

1.642 libnsl 2.0.0

1.642.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the

ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses

terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to

be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR

CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.643 grub2 1.99

1.643.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable

work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or

similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive

interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to

copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the

violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms,

reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2009 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in
http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.

1.644 libcroco 0.6.8

1.644.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we
want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion

of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and

all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties to
this License.

11. If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any
particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any
patents or other property right claims or to contest validity of any
such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if

written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.645 expat 2.2.9

1.645.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2019 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.646 ncurses 5.9

1.646.1 Available under license :

Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

Copyright (c) 1998-2010,2011 Free Software Foundation, Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, distribute with modifications, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE ABOVE COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name(s) of the above copyright holders shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization.

Files: install-sh
Copyright: 1994 X Consortium
Licence: other-BSD

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from the X Consortium.

FSF changes to this file are in the public domain.

Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
Public License can be found in '/usr/share/common-licenses/GPL-2'

1.647 bind 9.10

1.647.1 Available under license :

Redistribution terms Automated Testing Framework
==========

License
****

Copyright (c) 2007, 2008, 2009, 2010, 2011, 2012 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Copyright 2011, 2012 Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors
 may be used to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Relicensed code
****

The following code snippets have been taken from other projects. Even
though they were not originally licensed under the terms above, the
original authors have agreed to relicense their work so that this project
can be distributed under a single license. This section is put here just to
clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
 ones in the XML Catalog Manager project, version 2.2.

 Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
 derived form the ones in the Monotone project, revision
 3a0982da308228d796df35f98d787c5cff2bb5b6.

 Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
 These files were derived from the file_handle, systembuf, pipe and pistream
 classes and tests found in the Boost.Process library.

 Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

==========
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
Copyright (C) 2004-2015 Internet Systems Consortium, Inc. ("ISC")
Copyright (C) 1996-2003 Internet Software Consortium.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Portions of this code release fall under one or more of the
following Copyright notices. Please see individual source
files for details.

For binary releases also see: OpenSSL-LICENSE.

Copyright (C) 1996-2001 Nominum, Inc.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINUM DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NOMINUM BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 1995-2000 by Network Associates, Inc.

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ISC AND NETWORK ASSOCIATES DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE
FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (C) 2002 Stichting NLnet, Netherlands, stichting@nlnet.nl.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND STICHTING NLNET
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
STICHTING NLNET BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

The development of Dynamically Loadable Zones (DLZ) for Bind 9 was
conceived and contributed by Rob Butler.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the
above copyright notice and this permission notice appear in all
copies.

THE SOFTWARE IS PROVIDED "AS IS" AND ROB BUTLER
DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
ROB BUTLER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS
OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE

USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 1987, 1990, 1993, 1994
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) The Internet Society 2005. This version of
this module is part of RFC 4178; see the RFC itself for
full legal notices.

(The above copyright notice is per RFC 3978 5.6 (a), q.v.)

Copyright (c) 2004 Masarykova universita
(Masaryk University, Brno, Czech Republic)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the University nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1997 - 2003 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the Institute nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE

FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright ((c)) 2002, Rice University
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following

disclaimer in the documentation and/or other materials provided
with the distribution.

* Neither the name of Rice University (RICE) nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.

This software is provided by RICE and the contributors on an "as is"
basis, without any representations or warranties of any kind, express
or implied including, but not limited to, representations or
warranties of non-infringement, merchantability or fitness for a
particular purpose. In no event shall RICE or contributors be liable
for any direct, indirect, incidental, special, exemplary, or
consequential damages (including, but not limited to, procurement of
substitute goods or services; loss of use, data, or profits; or
business interruption) however caused and on any theory of liability,
whether in contract, strict liability, or tort (including negligence
or otherwise) arising in any way out of the use of this software, even
if advised of the possibility of such damage.

Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies, and that
the name of Digital Equipment Corporation not be used in advertising or
publicity pertaining to distribution of the document or software without
specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright 2000 Aaron D. Gifford. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR(S) AND CONTRIBUTOR(S) ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR(S) OR CONTRIBUTOR(S) BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1998 Doug Rabson.
Copyright (c) 2001 Jake Burkholder.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright (c) 1999-2000 by Nortel Networks Corporation

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NORTEL NETWORKS DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL NORTEL NETWORKS
BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
SOFTWARE.

Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any
  modified or derived work) in source and/or binary forms is permitted
  under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they
  appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
  this License Terms and Conditions, in the documentation and/or other
  materials provided with the distribution. For the purposes of binary
  distribution the "Copyright Notice" refers to the following language:
  "Copyright (c) 2000-2002 Japan Network Information Center. All rights
  reserved."

4. The name of JPNIC may not be used to endorse or promote products
  derived from this Software without specific prior written approval of
  JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC
  "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
  LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
  PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE
  FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
  CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
  SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
  BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
  WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
  OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
  ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Copyright (C) 2004 Nominet, Ltd.

Permission to use, copy, modify, and distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND NOMINET DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Portions Copyright RSA Security Inc.

License to copy and use this software is granted provided that it is identified as "RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing this software.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Security Inc. PKCS #11 Cryptographic Token Interface (Cryptoki)" in all material mentioning or referencing the derived work.

RSA Security Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2000-2001 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in
  the documentation and/or other materials provided with the
  distribution.

3. All advertising materials mentioning features or use of this
  software must display the following acknowledgment:
  "This product includes software developed by the OpenSSL Project
  for use in the OpenSSL Toolkit. (http://www.OpenSSL.org/)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
  endorse or promote products derived from this software without
  prior written permission. For written permission, please contact
  licensing@OpenSSL.org.

5. Products derived from this software may not be called "OpenSSL"
  nor may "OpenSSL" appear in their names without prior written
  permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following
  acknowledgment:
  "This product includes software developed by the OpenSSL Project
  for use in the OpenSSL Toolkit (http://www.OpenSSL.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1995, 1997, 1998 The NetBSD Foundation, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS
``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

```
<!--
- Copyright (C) 2005, 2007, 2009  Internet Systems Consortium, Inc. ("ISC")
-
- Permission to use, copy, modify, and/or distribute this software for any
- purpose with or without fee is hereby granted, provided that the above
- copyright notice and this permission notice appear in all copies.
-
- THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
- REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
- AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
- INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM
- LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
- OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
- PERFORMANCE OF THIS SOFTWARE.
-->

<!-- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">

 <xsl:template name="isc.copyright.format">
   <xsl:param name="text"/>
   <xsl:value-of select="$isc.copyright.leader"/>
   <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
   <xsl:text>&#10;</xsl:text>
```

```
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
    Permission to use, copy, modify, and/or distribute this software for any
    purpose with or without fee is hereby granted, provided that the above
    copyright notice and this permission notice appear in all copies.

    THE SOFTWARE IS PROVIDED "AS IS" AND ISC DISCLAIMS ALL WARRANTIES WITH
    REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
    AND FITNESS.  IN NO EVENT SHALL ISC BE LIABLE FOR ANY SPECIAL, DIRECT,
    INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM
    LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE
    OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
    PERFORMANCE OF THIS SOFTWARE.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
<xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
  </xsl:call-template>
  <xsl:text> </xsl:text>
  <xsl:value-of select="holder"/>
  <xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
 - Local variables:
 - mode: sgml
 - End:
```

-->
Copyright (c) 2005 - 2008, Holger Zuleger HZnet. All rights reserved.

This software is open source.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Neither the name of Holger Zuleger HZnet nor the names of its contributors may
be used to endorse or promote products derived from this software without
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved.

By using this file, you agree to the terms and conditions set forth bellow.

LICENSE TERMS AND CONDITIONS

The following License Terms and Conditions apply, unless a different
license is obtained from Japan Network Information Center ("JPNIC"),
a Japanese association, Kokusai-Kougyou-Kanda Bldg 6F, 2-3-4 Uchi-Kanda,
Chiyoda-ku, Tokyo 101-0047, Japan.

1. Use, Modification and Redistribution (including distribution of any
  modified or derived work) in source and/or binary forms is permitted
  under this License Terms and Conditions.

2. Redistribution of source code must retain the copyright notices as they
  appear in each source code file, this License Terms and Conditions.

3. Redistribution in binary form must reproduce the Copyright Notice,
this License Terms and Conditions, in the documentation and/or other
materials provided with the distribution. For the purposes of binary
distribution the "Copyright Notice" refers to the following language:
"Copyright (c) 2000-2002 Japan Network Information Center. All rights reserved."

4. The name of JPNIC may not be used to endorse or promote products
derived from this Software without specific prior written approval of
JPNIC.

5. Disclaimer/Limitation of Liability: THIS SOFTWARE IS PROVIDED BY JPNIC
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JPNIC BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.648 x-crypto 0.0.0-20220622213112-05595931fe9d

1.648.1 Available under license :

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: github.com/hlandau/acme
Upstream-Contact: Hugo Landau <hlandau@devever.net>
Source: https://github.com/hlandau/acme

Files: *
Copyright: 2015-2016 Hugo Landau <hlandau@devever.net>
License: Expat
Comment: https://github.com/hlandau/acme#licence

Files: debian/*
Copyright: 2016 Peter Colberg <peter@colberg.org>
License: Expat
Comment: Debian packaging is licensed under the same terms as upstream

License: Expat
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including

without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:
.
The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.
.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.649 commons-codec 1.9

1.649.1 Available under license :

Apache Commons Codec
Copyright 2002-2013 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.650 otel-trace 1.4.0

1.650.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of

the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A

PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache Thrift

Copyright (C) 2006 - 2019, The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with
separate copyright notices and license terms. Your use of the source
code for the these subcomponents is subject to the terms and
conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
Copying and distribution of this file, with or without
modification, are permitted in any medium without royalty provided
the copyright notice and this notice are preserved.

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
   json_parse.js
   2015-05-02
   Public Domain.
   NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

*/
```

(By Douglas Crockford <douglas@crockford.com>)

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
* Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
* This code is Free Software.  It may be copied freely, in original or
* modified form, subject only to the restrictions that (1) the author is
* relieved from all responsibilities for any use for any purpose, and (2)
* this copyright notice must be retained, unchanged, in its entirety.  If
* for any reason the author might be held responsible for any consequences
* of copying or use, license is withheld.
*/
```

For lib/py/compat/win32/stdint.h

```
// ISO C9x  compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
//  Copyright (c) 2006-2008 Alexander Chemeris
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are met:
//
//   1. Redistributions of source code must retain the above copyright notice,
//      this list of conditions and the following disclaimer.
//
//   2. Redistributions in binary form must reproduce the above copyright
//      notice, this list of conditions and the following disclaimer in the
//      documentation and/or other materials provided with the distribution.
//
//   3. The name of the author may be used to endorse or promote products
//      derived from this software without specific prior written permission.
//
// THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED
// WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
// MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
// EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
```

// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
// PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
// OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
// WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
// OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
// ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
//
//

Codegen template in t_html_generator.h

* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook

1.651 at 3.1.16

1.651.1 Available under license :

This package was debianized by Nathan Scott nathans@debian.org on
Sun, 19 Nov 2000 07:37:09 -0500.

It can be downloaded from ftp://oss.sgi.com/projects/xfs/download/

Copyright:

Copyright (C) 2001-2002 Silicon Graphics, Inc. All Rights Reserved.
Copyright (C) 2001 Andreas Gruenbacher.

You are free to distribute this software under Version 2.1
of the GNU Lesser General Public License.
On Debian systems, refer to /usr/share/common-licenses/LGPL-2.1
for the complete text of the GNU Lesser General Public License.

Certain components (as annotated in the source) are licensed
under version 2 of the terms of the GNU General Public License.
On Debian systems, the complete text of the GNU General Public
License can be found in /usr/share/common-licenses/GPL file.
Most components of the "attr" package are licensed under
Version 2.1 of the GNU Lesser General Public License (see below).
below.

Some components (as annotated in the source) are licensed
under Version 2 of the GNU General Public License (see COPYING).

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid

distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with

this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and

"any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Most components of the "attr" package are licensed under Version 2.1 of the GNU Lesser General Public License (see COPYING.LGPL).

Some components (as annotated in the source) are licensed under Version 2 of the GNU General Public License (see below),

---

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.652 linux_kernel_zlib 5.10.149

1.652.1 Available under license :

Valid-License-Identifier: GPL-2.0
Valid-License-Identifier: GPL-2.0-only
Valid-License-Identifier: GPL-2.0+
Valid-License-Identifier: GPL-2.0-or-later
SPDX-URL: https://spdx.org/licenses/GPL-2.0.html
Usage-Guide:
 To use this license in source code, put one of the following SPDX
 tag/value pairs into a comment according to the placement
 guidelines in the licensing rules documentation.
 For 'GNU General Public License (GPL) version 2 only' use:
   SPDX-License-Identifier: GPL-2.0
 or
   SPDX-License-Identifier: GPL-2.0-only
 For 'GNU General Public License (GPL) version 2 or any later version' use:
   SPDX-License-Identifier: GPL-2.0+
 or
   SPDX-License-Identifier: GPL-2.0-or-later
License-Text:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it

in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not

compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS

TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
The Linux Kernel is provided under:

```
SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
```

Being under the terms of the GNU General Public License version 2 only, according with:

```
LICENSES/preferred/GPL-2.0
```

With an explicit syscall exception, as stated at:

```
LICENSES/exceptions/Linux-syscall-note
```

In addition, other licenses may also apply. Please see:

```
Documentation/process/license-rules.rst
```

for more details.

All contributions to the Linux Kernel are subject to this COPYING file.

1.653 sysfsutils 2.1.0

1.653.1 Available under license :

The GNU General Public License (GPL)
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If

the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically

performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

GNU Lesser Public License
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license

obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be

combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such

modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that

they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables

containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified

materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions

will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

The commands and utilities under the "test" directory are licensed under the GNU General Public License (GPL) Version 2, June 1991. The full text of the GPL is located at:

sysfsutils/cmd/GPL

The sysfs library is licensed under the GNU Lesser Public License (LGPL) Version 2.1, February 1999. The full text of the LGPL is located at:

sysfsutils/lib/LGPL

1.654 google-go-cmp 0.5.7

1.654.1 Available under license :

Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.655 packaging 16.8

1.655.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This software is made available under the terms of *either* of the licenses
found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made
under the terms of *both* these licenses.
Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.656 u-boot 1.0.1

1.656.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it,

under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.657 gawk 4.2.1

1.657.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License

giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based

on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's

System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party)

that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a

requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that

copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this

License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within

the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the

Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.

For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide

complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free

libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified

executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed

through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.658 sim-config 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.658.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.659 inotify-tools 3.14

1.659.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.660 selinux 3.0

1.660.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for

them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that

is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with

the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no

more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from

a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that

transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the

patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
This library (libselinux) is public domain software, i.e. not copyrighted.

Warranty Exclusion

You agree that this software is a
non-commercially developed program that may contain "bugs" (as that
term is used in the industry) and that it may not function as intended.
The software is licensed "as is". NSA makes no, and hereby expressly
disclaims all, warranties, express, implied, statutory, or otherwise
with respect to the software, including noninfringement and the implied
warranties of merchantability and fitness for a particular purpose.

Limitation of Liability

In no event will NSA be liable for any damages, including loss of data,
lost profits, cost of cover, or other special, incidental,
consequential, direct or indirect damages arising from the software or
the use thereof, however caused and on any theory of liability. This
limitation will apply even if NSA has been advised of the possibility
of such damage. You acknowledge that this is a reasonable allocation of
risk.

1.661 grpc 1.0.0

1.661.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously

marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and

You must cause any modified files to carry prominent notices stating that You changed the files; and

You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.
5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of

any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

```
Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
```

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.662 zap 1.23.0

1.662.1 Available under license :

Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.663 ifupdown 0.8.36

1.663.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free

software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest

possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: ifupdown
Source: https://anonscm.debian.org/cgit/collab-maint/ifupdown.git

Files: *
Copyright: 1999-2009 Anthony Towns
2010-2015 Andrew Shadura
2015 Guus Sliepen
License: GPL-2+
This program is free software; you can redistribute it
and/or modify it under the terms of the GNU General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later
version.
.
This program is distributed in the hope that it will be
useful, but WITHOUT ANY WARRANTY; without even the implied
warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR
PURPOSE. See the GNU General Public License for more
details.
.
You should have received a copy of the GNU General Public
License along with this package; if not, write to the Free
Software Foundation, Inc., 51 Franklin St, Fifth Floor,
Boston, MA 02110-1301 USA
.
On Debian systems, the full text of the GNU General Public
License version 2 can be found in the file
`/usr/share/common-licenses/GPL-2'.

1.664 lvm2 1.02.102

1.664.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know

that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the

Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.

EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public

License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you

conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under

this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,

INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the

software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also

called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the library's name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Library General Public

License as published by the Free Software Foundation; either

version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Library General Public License for more details.

You should have received a copy of the GNU Library General Public

License along with this library; if not, write to the

Free Software Foundation, Inc., 51 Franklin St, Fifth Floor,

Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in

the library `Frob' (a library for tweaking knobs) written

by James Random Hacker.

signature of Ty Coon, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation`s software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author`s protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors` reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone`s free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program`s source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this

License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients` exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL,

SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program`s name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.
Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w`. This is free software, and you are welcome
to redistribute it under certain conditions; type `show c`
for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright
interest in the program `Gnomovision`
(which makes passes at compilers) written
by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.665 glib 2.66.8

1.665.1 Available under license :

This work may be reproduced and distributed in whole or in part, in
any medium, physical or electronic, so as long as this copyright
notice remains intact and unchanged on all copies. Commercial
redistribution is permitted and encouraged, but you may not
redistribute, in whole or in part, under terms more restrictive than
those under which you received it. If you redistribute a modified or
translated version of this work, you must also make the source code to
the modified or translated version available in electronic form
without charge. However, mere aggregation as part of a larger work
shall not count as a modification for this purpose.

All code examples in this work are placed into the public domain,
and may be used, modified and redistributed without restriction.

BECAUSE THIS WORK IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE WORK, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE WORK "AS IS" WITHOUT WARRANTY OF ANY
KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE. SHOULD THE WORK PROVE DEFECTIVE, YOU ASSUME
THE COST OF ALL NECESSARY REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE WORK AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
WORK, EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.666 an-indigo 1.5

1.666.1 Available under license :

Copyright (c) 2015 Topology Inc.
Copyright (c) 2018 Jakob Petsovits
Copyright (c) various other contributors, see individual files

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind, express or implied, including, without limitation, the warranties of merchantability, fitness for a particular purpose, title, and non-infringement. In no event shall the Copyright owners, or anyone distributing the software, be liable for any damages or

other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is
   with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing Authors and Group 42, Inc. assume no liability for direct, indirect,

incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
IUPAC/InChI-Trust Licence for the
International Chemical Identifier (InChI) Software
("IUPAC/InChI-Trust InChI Licence No. 1.0")

Copyright (c) IUPAC and InChI Trust Limited
This library is free software; you can redistribute it and/or modify it under the terms of the
IUPAC/InChI Trust InChI Licence No. 1.0), or (at your option) any later version.

Terms and Conditions for Copying, Distribution and Modification of the InChI Software

0. This Licence Agreement applies to any software library or other program which contains a notice
placed by the copyright holder or other authorized party saying it may be distributed under the terms of
this Licence. The Licensee is addressed as "you".

'IUPAC' means the International Union of Pure and Applied Chemistry.

A "library" means a collection of software functions and/or data prepared so as to be conveniently
linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under
these terms. A "work based on the Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with
modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a

library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this Licence; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this Licence and to the absence of any warranty; and distribute a copy of this Licence along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this Licence. This requirement does not extend to any "work that uses the Library" that might also be compiled or linked against the "work based on the Library."

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this Licence, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this Licence, whose permissions for other Licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this Licence.

3. You may opt to apply the terms of the ordinary GNU General Public Licence instead of this Licence to a given copy of the Library. To do this, you must alter all the notices that refer to this Licence, so that they refer to the ordinary GNU General Public Licence, version 2, instead of to this Licence. (If a newer version than version 2 of the ordinary GNU General Public Licence has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public Licence applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this Licence.

6. You may combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this Licence. You must supply a copy of this Licence. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this Licence. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes to the Library were used in the work (which must be distributed under Sections 1 and 2 above).

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one

that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this Licence, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this Licence. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this Licence. However, parties who have received copies, or rights, from you under this Licence will not have their Licences terminated so long as such parties remain in full compliance.

9. You are not required to accept this Licence, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this Licence. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this Licence to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a Licence from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this Licence.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this Licence, they do not excuse you from the conditions of this Licence. If you cannot distribute so as to satisfy simultaneously your obligations under this

Licence and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent Licence would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this Licence would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public Licence practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this Licence.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this Licence may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this Licence incorporates the limitation as if written in the body of this Licence.

13. IUPAC and the InChI Trust Limited may publish revised and/or new versions of the IUPAC/InChI Trust Licence for the International Chemical Identifier (InChI) Software from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this Licence which applied to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by IUPAC and the InChI Trust Limited.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission.

15. If you modify the Library in any way whatsoever, the output from any such modified Library may not be referred to as 'InChI' or any similar name. Any attempt to refer to such output as 'InChI' will automatically terminate your rights under this Licence.

NO WARRANTY

16. Because the Library is licensed free of charge, there is no warranty for the Library, to the extent permitted by applicable law. Except when otherwise stated in writing the copyright holders and other parties provide the Library "as is" without warranty of any kind, either expressed or implied, including, but not limited to, the implied warranties of merchantability and

fitness for a particular purpose. The entire risk as to the quality and performance of the Library is with you. Should the Library prove defective, you assume the cost of all necessary servicing, repair or correction.

17. In no event unless required by applicable law or agreed to in writing will any copyright holder, or any party who may modify and/or redistribute the Library as permitted above, be liable to you for damages, including any general, special, incidental or consequential damages arising out of the use or inability to use the Library (including but not limited to loss of data or data being rendered inaccurate or losses sustained by you or third parties or a failure of the Library to operate with any other software), even if such holder or other party has been advised of the possibility of such damages.

END OF TERMS AND CONDITIONS

Instructions for Use

You must attach the following notices to the library at the beginning of each source file - as a minimum each file needs to contain the "copyright" line and a link to the full notice.

[INSERT YOUR LIBRARY'S NAME AND ITS PURPOSE]
Copyright (c) [YEAR][COPYRIGHT OWNER]
This library is free software; you can redistribute it and/or modify it under the terms of the IUPAC/InChI Trust InChI Licence 1.0, or any later version.

Please note that this library is distributed WITHOUT ANY WARRANTIES whatsoever, whether expressed or implied. See the IUPAC/InChI Trust Licence for the International Chemical Identifier (InChI) Software ("IUPAC/InChI-Trust InChI Licence No. 1.0") for more details.

You should have received a copy of the IUPAC/InChI Trust InChI Licence No. 1.0 with this library; if not, please write to:

The InChI Trust
8 Cavendish Avenue
Cambridge CB1 7US
UK

or e-mail to alan@inchi-trust.org

In the event that you require anything else or have any questions, please write to:

[INSERT COPYRIGHT OWNERS DETAILS]
[INSERT ADDRESS]

or contact us via email at: [INSERT EMAIL ADDRESS]

(c) 2011 IUPAC and InChI Trust Limited

This file contains a list of people who've made non-trivial
contribution to the Google C++ Testing Framework project. People
who commit code to the project are encouraged to add their names
here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com>
Balzs Dn <balazs.dan@gmail.com>
Benoit Sigoure <tsuna@google.com>
Bharat Mediratta <bharat@menalto.com>
Bogdan Piloca <boo@google.com>
Chandler Carruth <chandlerc@google.com>
Chris Prince <cprince@google.com>
Chris Taylor <taylorc@google.com>
Dan Egnor <egnor@google.com>
Dave MacLachlan <dmaclach@gmail.com>
David Anderson <danderson@google.com>
Dean Sturtevant
Eric Roman <eroman@chromium.org>
Gene Volovich <gv@cite.com>
Hady Zalek <hady.zalek@gmail.com>
Hal Burch <gmock@hburch.com>
Jeffrey Yasskin <jyasskin@google.com>
Jim Keller <jimkeller@google.com>
Joe Walnes <joe@truemesh.com>
Jon Wray <jwray@google.com>
Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
Keith Ray <keith.ray@gmail.com>
Kenton Varda <kenton@google.com>
Kostya Serebryany <kcc@google.com>
Krystian Kuzniarek <krystian.kuzniarek@gmail.com>
Lev Makhlis
Manuel Klimek <klimek@google.com>
Mario Tanev <radix@google.com>
Mark Paskin
Markus Heule <markus.heule@gmail.com>
Martijn Vels <mvels@google.com>
Matthew Simmons <simmonmt@acm.org>
Mika Raento <mikie@iki.fi>
Mike Bland <mbland@google.com>
Mikls Fazekas <mfazekas@szemafor.com>
Neal Norwitz <nnorwitz@gmail.com>
Nermin Ozkiranartli <nermin@google.com>
Owen Carlsen <ocarlsen@google.com>
Paneendra Ba <paneendra@google.com>
Pasi Valminen <pasi.valminen@gmail.com>
Patrick Hanna <phanna@google.com>
Patrick Riley <pfr@google.com>

Paul Menage <menage@google.com>
Peter Kaminski <piotrk@google.com>
Piotr Kaminski <piotrk@google.com>
Preston Jackson <preston.a.jackson@gmail.com>
Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com>
Russ Cox <rsc@google.com>
Russ Rufer <russ@pentad.com>
Sean Mcafee <eefacm@gmail.com>
Sigurur sgeirsson <siggi@google.com>
Sverre Sundsdal <sundsdal@gmail.com>
Szymon Sobik <sobik.szymon@gmail.com>
Takeshi Yoshino <tyoshino@google.com>
Tracy Bialik <tracy@pentad.com>
Vadim Berman <vadimb@google.com>
Vlad Losev <vladl@google.com>
Wolfgang Klier <wklier@google.com>
Zhanyong Wan <wan@google.com>
This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any
damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must
not claim that you wrote the original software. If you use this
software in a product, an acknowledgment in the product documentation
would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
distribution.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained

within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be

liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2013-2017 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.667 jcmturner-gofork 1.0.0

1.667.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.668 x-text 0.3.7

1.668.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.

1.669 openssh 8.3-p1

1.669.1 Available under license :

This file is part of the OpenSSH software.

The licences which components of this software fall under are as
follows. First, we will summarize and say that all components
are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)
* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
* All rights reserved
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".

[Tatu continues]
* However, I am not implying to give any licenses to any patents or
* copyrights held by third parties, and the software includes parts that
* are not under my direct control. As far as I know, all included
* source code is used in accordance with the relevant license agreements
* and can be used freely for any purpose (the GNU license being the most
* restrictive); see below for details.

[However, none of that term is relevant at this point in time. All of these restrictively licenced software components which he talks about have been removed from OpenSSH, i.e.,

- RSA is no longer included, found in the OpenSSL library
- IDEA is no longer included, its use is deprecated
- DES is now external, in the OpenSSL library
- GMP is no longer used, and instead we call BN code from OpenSSL
- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

[The licence continues]

Note that any information and cryptographic algorithms used in this software are publicly available on the Internet and at any major bookstore, scientific library, and patent office worldwide. More information can be found e.g. at "http://www.cs.hut.fi/crypto".

The legal status of this program is some combination of all these permissions and restrictions. Use only at your own responsibility. You will be responsible for any legal consequences yourself; I am not making any claims whether possessing or using this is legal or not in your country, and I am not taking any responsibility on your behalf.

NO WARRANTY

BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

3)

ssh-keyscan was contributed by David Mazieres under a BSD-style license.

```
 * Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
 *
 * Modification and redistribution in source and binary forms is
 * permitted provided that due credit is given to the author and the
 * OpenBSD project by leaving this copyright notice intact.
```

4)

The Rijndael implementation by Vincent Rijmen, Antoon Bosselaers and Paulo Barreto is in the public domain and distributed with the following license:

```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
 * This code is hereby placed in the public domain.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHORS "AS IS" AND ANY EXPRESS
 * OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
 * WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE
 * LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
 * CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 * BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
 * WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
 * OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE,
 * EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

5)

One component of the ssh source code is under a 3-clause BSD license, held by the University of California, since we pulled these parts from original Berkeley code.

```
 * Copyright (c) 1983, 1990, 1992, 1993, 1995
 *      The Regents of the University of California.  All rights reserved.
```

```
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. Neither the name of the University nor the names of its contributors
 *    may be used to endorse or promote products derived from this software
 *    without specific prior written permission.
 *
 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
```

6)

Remaining components of the software are provided under a standard
2-term BSD licence with the following names as copyright holders:

Markus Friedl
Theo de Raadt
Niels Provos
Dug Song
Aaron Campbell
Damien Miller
Kevin Steves
Daniel Kouril
Wesley Griffin
Per Allansson
Nils Nordman
Simon Wilkinson

```
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the above copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
```

```
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 *
 * THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
 * IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
 * IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
 * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
 * NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
 * DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
 * (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

------
$OpenBSD: LICENCE,v 1.20 2017/04/30 23:26:16 djm Exp $
```

1.670 shadow 4.6

1.670.1 Available under license :

```
NOTE:
 This license has been obsoleted by the change to the BSD-style copyright.
 You may continue to use this license if you wish, but you are under no
 obligation to do so.

(*
This document is freely plagiarised from the 'Artistic Licence',
distributed as part of the Perl v4.0 kit by Larry Wall, which is
available from most major archive sites.  I stole it from CrackLib.

 $Id$
*)

This documents purpose is to state the conditions under which this
Package (See definition below) viz: "Shadow", the Shadow Password Suite
which is held by Julianne Frances Haugh, may be copied, such that the
copyright holder maintains some semblance of artistic control over the
development of the package, while giving the users of the package the
right to use and distribute the Package in a more-or-less customary
fashion, plus the right to make reasonable modifications.

So there.

*******************************************************************************

Definitions:
```

A "Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification, or segments thereof.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when AND WHY you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide separate documentation for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. YOU MAY NOT CHARGE A FEE FOR THIS PACKAGE ITSELF. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that YOU DO NOT ADVERTISE this package as a product of your own.

6. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

7. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any

patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer

to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent

infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free

Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.671 xinetd 2.3.3

1.671.1 Available under license :

ORIGINAL LICENSE:
This software is

(c) Copyright 1992 by Panagiotis Tsirigotis

The author (Panagiotis Tsirigotis) grants permission to use, copy, and distribute this software and its documentation for any purpose and without fee, provided that the above copyright notice extant in

files in this distribution is not removed from files included in any redistribution and that this copyright notice is also included in any redistribution.

Modifications to this software may be distributed, either by distributing the modified software or by distributing patches to the original software, under the following additional terms:

1. The version number will be modified as follows:
   a. The first 3 components of the version number (i.e <number>.<number>.<number>) will remain unchanged.
   b. A new component will be appended to the version number to indicate the modification level. The form of this component is up to the author of the modifications.

2. The author of the modifications will include his/her name by appending it along with the new version number to this file and will be responsible for any wrong behavior of the modified software.

The author makes no representations about the suitability of this software for any purpose. It is provided "as is" without any express or implied warranty.

Modifications:
Version: 2.1.8.7-current
Copyright 1998-2001 by Rob Braun

Sensor Addition
Version: 2.1.8.9pre14a
Copyright 2001 by Steve Grubb

This is an exerpt from an email I recieved from the original author, allowing xinetd as maintained by me, to use the higher version numbers:

I appreciate your maintaining the version string guidelines as specified in the copyright. But I did not mean them to last as long as they did.

So, if you want, you may use any 2.N.* (N >= 3) version string for future xinetd versions that you release. Note that I am excluding the 2.2.* line; using that would only create confusion. Naming the next release 2.3.0 would put to rest the confusion about 2.2.1 and 2.1.8.*.

1.672 net-snmp 5.1.1

1.672.1 Available under license :

Various copyrights apply to this package, listed in 4 separate parts below. Please make sure that you read all the parts. Up until 2001, the project was based at UC Davis, and the first part covers all code written during this time. From 2001 onwards, the project has been based at SourceForge, and Networks Associates Technology, Inc hold the copyright on behalf of the wider Net-SNMP community, covering all derivative work done since then. An additional copyright section has been added as Part 3 below also under a BSD license for the work contributed by Cambridge Broadband Ltd. to the project since 2001. An additional copyright section has been added as Part 4 below also under a BSD license for the work contributed by Sun Microsystems, Inc. to the project since 2003.

Code has been contributed to this project by many people over the years it has been in development, and a full list of contributors can be found in the README file under the THANKS section.

---- Part 1: CMU/UCD copyright notice: (BSD like) -----

Copyright 1989, 1991, 1992 by Carnegie Mellon University

Derivative Work - 1996, 1998-2000
Copyright 1996, 1998-2000 The Regents of the University of California

All Rights Reserved

Permission to use, copy, modify and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of CMU and The Regents of the University of California not be used in advertising or publicity pertaining to distribution of the software without specific written permission.

CMU AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL CMU OR THE REGENTS OF THE UNIVERSITY OF CALIFORNIA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM THE LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

---- Part 2: Networks Associates Technology, Inc copyright notice (BSD) -----

Copyright (c) 2001-2003, Networks Associates Technology, Inc
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the Networks Associates Technology, Inc nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 3: Cambridge Broadband Ltd. copyright notice (BSD) -----

Portions of this code are copyright (c) 2001-2003, Cambridge Broadband Ltd.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* The name of Cambridge Broadband Ltd. may not be used to endorse or

promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 4: Sun Microsystems, Inc. copyright notice (BSD) -----

Copyright ? 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A. All rights reserved.

Use is subject to license terms below.

This distribution may include materials developed by third parties.

Sun, Sun Microsystems, the Sun logo and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the Sun Microsystems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,

EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

---- Part 5: Sparta, Inc copyright notice (BSD) -----

Copyright (c) 2003-2004, Sparta, Inc
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the Networks Associates Technology, Inc nor the
  names of its contributors may be used to endorse or promote
  products derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.673 miura 6.3.1

1.673.1 Available under license :

No license file was found, but licenses were detected in source scan.

/*
* $Id: mac_adr.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mac_adr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIp16BitRewriteConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIp16BitRewriteConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bcmi2c.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmi2c.c
* Purpose: BCM I2C API
*
* Note : Not for RoboSwitch currently.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/bcmi2c.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: diag_pp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	diag_pp.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_pp.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp32BitRewriteConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIp32BitRewriteConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sweept20_api.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_sweept20_api.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_qos.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_niv.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_niv.c
* Purpose: Maintains all the debug information for niv
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/niv/trident2plus_niv.c
No license file was found, but licenses were detected in source scan.

/* $Id: c3hppc_ocm_store_test1.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_ocm_store_test1.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_mgmt.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_mgmt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: streaming_library.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Streaming library for diagnostic (TR) tests.
* This library contains functions use by streaming diagnostic tests.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_lib.c
No license file was found, but licenses were detected in source scan.

/***
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_VIPER_XGXS.

```
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_viper_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane PCI core software interface.
*
* $Id: hndpci.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndpci.h
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: tmu_diags_h.stg,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_tmu_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_tmu_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.7 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Service meter(global meters) CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/policer.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmFullStatusEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmFullStatusEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: tmu_trie_ut.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/tmu_trie_ut.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsAgeEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsAgeEntry.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File:     interrupt_handler_cb_func.c
* Purpose:     Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/interrupts/interrupt_handler_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_general_macros.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_general_macros.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_general_macros.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm956504r24.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        bcm956504r24.c
* Purpose:     BCM956504R24 Single Firebolt and similar
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/bcm956504r24.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_field_bfd_ipv4_single_hop.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_bfd_echo.c
* Purpose: pmf stage in bfd echo solution.
*   stamp the trap qualifier to be the oam_id
*   stamp the oam offset to be equal to the start of BFD header
*
```

```
* Usage:
* Enable soc property bfd_echo_enabled=1 custom_feature_bfd_echo_with_lem=1 (together with all other oam soc
properties)
*
* Add PMF rule using cint: cint_field_bfd_echo.c function:bfd_echo_with_lem_preselector
*
* Add bfd endpoint by calling bcm_bfd_endpoint_create with:
* flags |= BCM_BFD_ECHO & BCM_BFD_ENDPOINT_MULTIHOP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_bfd_echo.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_vpls_ecmp.c
* Purpose: Example of Open Multi-Point VPLS service with MPLS-ECMP configuration.
*          The attached ports can be attachment circuits or PWEs.
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                          connect from access side.
* PWE: Virtual circuit attached to the service based on VC-label. Connect to the MPLS
*      network side.
*
* For this service, multiple logical ports can be attached where each logical port can be:
*
*
~~~
```

```
* | .  +----+   +----+    . |   PE1   |    |    MPLS    |    |   PE2   |--------------|UNId|    . |
* |   . |UNIb|-----------------| Switch  | <---| - TUNNEL- -|---- | Switch  |--- +----+    +----+    . |
* | .   +----+            .  +---------+ ----| - - - - - -|---> +---------+  . |UNIe|            .   |
* |.          ETHERNET    .     .    . .  +------------+           . .  +----+   ETHERNET .    |
* | .    .      .    . . .       . .    .      .      .    .     .    .     .    .  |
* |  . .   . . .  . .                    . . .   . . .   . . . . .     . . .   . . .  . .    |
* |                                                                                          |
* |         +-------------+     +--------------------------------+     +-------------------------+ |
* |         | Ethr | Data |     | Ethr | MPLS | PWE | Ethr | Data |     | Ethr |S-TAG|C-TAG| Data | |
* |         +-------------+     +--------------------------------+     +-------------------------+ |
* |                                                                                          |
* |                  +~~~
```

```
* -   PWE-1: network port with incoming VC = 2010, egress-VC = 1982 defined over ecmp tunnels 1000-1010 and
1500-1510.
* -   For access ports outer-Tag TPID is 0x8100 and inner Tag TPID is 0x9100.
* -   Access-P1 refer to the logical interface (attachment circuit).
* -   PWE1 refers to MPLS network ports.
* -   P1 refers to the physical ports PWE1 are attached to.
*
* Headers:
*
*
~~~
```

```
* -  Port TPIDs setting:
*    -  For P1 set outer TPID to 0x8100 and no inner TPID (using cint_port_tpid.c).
* -  Set up MPLS tunnels. Refer to mpls_tunnels_config().
*    -  Set MPLS L2 termination (on ingress).
*       -  MPLS packets arriving with DA 00:00:00:00:00:11 and VID 100 causes L2 termination.
*       -  Calls bcm_l2_tunnel_add().
*    -  Add pop entries to MPLS switch.
*       -  MPLS packet arriving from the MPLS network side with labels 1000-1010 or 1500-1510 the label/s
*          are popped (refer to mpls_add_pop_entry).
*       -  Calls bcm_mpls_tunnel_switch_create().
*       -  Create MPLS L3 interface (on egress).
*       -  Packet routed to this L3 interface is set with this MAC.
*       -  Calls bcm_l3_intf_create().
*    -  Create MPLS tunnels over the created l3 interface.
*       -  Packet routed to above interface is tunneled into MPLS ECMP tunnel, where labels set according to
*          load balancing to the values 1000-1010 and 1500-1510.
*       -  First, tunnel inteface is created.
*       -  Calls bcm_mpls_tunnel_initiator_create().
*    -  Create egress object points to the above l3-interface.
*       -  Packet routed to this egress-object is forwarded to P1 tunneled with above MPLS tunnels
*          and with the L3-interface VID and MAC.
*       -  Calls bcm_l3_egress_create().
*    -  After creating several interfaces, connect them into one ecmp object.
*       -  Calls bcm_l3_egress_ecmp_create().
* -  Create multipoint VSI #6202 (refer to mpls_port__vswitch_vpls_vpn_create__set).
*    -  calling bcm_mpls_vpn_id_create().
*       -  You has to supply VPN ID and multicast groups. For this purpose, the following flags have
*          to be present BCM_MPLS_VPN_VPLS|BCM_MPLS_VPN_WITH_ID.
*       Note that uc/mc/bc group have the same value as VSI. Another option is to set uc_group = VSI,
*       and mc = uc + 4k, and bc = mc + 4k.
*    -  Use open_ingress_mc_group() to open multicast group for flooding.
*       -  Multicast group ID is equal to VPN ID.
* -  Add MPLS-ports to the VSI.
*    -  vswitch_vpls_add_access_port_1 creates attachment circuit and add them to the Vswitch and
*       update the Multicast group.
*    -  vswitch_vpls_add_network_port_1 creates PWE and add them to the VSI and update the
*       multicast group.
*       - PWE is added in the calls: INGRESS_ONLY configures the ingress object (temination+learning)
*                                    EGRESS_ONLY configures the egress onject (encapsulation)
*                                    mpls_port_id must be the same for ingress and egress so that split horizon filter will work.
*
*
* Traffic:
*  Flooding packets incoming from MPLS network:
*  Send the following packet, where the DA of the inner Ethernet is unknown on VSI.
*
*  Flooding Packets Incoming from MPLS Network same as Packets Received from PWE1, see Figure 15
*
```

```
* -   Packet is flooded (as DA is not known):
*     -   Packet is received.
*         -    In access P1: physical port P1 with VLAN tag1: VID =10, VLAN tag2: VLAN ID = 20.
*         Note that the packet is not received on PWE1 due to split-horizon filtering.
*         A packet received from HUB is not flooded back to HUB.
* -   The SA of the packet is learned 6202.
*     -   Call l2_print_mact(unit) to print MAC table content.
*
*  Flooding packets incoming access side.
* -   Send Ethernet packet from access-P1:
*     -   Any SA
*     -   Unknown DA
*     -   VLAN tag1: VLAN tag type 0x8100, VID =10
*     -   VLAN tag2: VLAN tag type 0x9100, VID =20
*
*  Flooding Packets from Incoming Access Side same as Packets Received/Transmitted
*  on Access Port 1, see Figure 18.
*
* -   Packet is flooded (as DA is not known).
*     -   Packet is received:
*         -   On physical port P1:
*             -  PWE1: With VC label. MPLS tunnels in multicast come from only one ECMP entry, in this case the
first {1000,1500},
*             as configured by the multicast table configuration.
*         Note that the packet is not received on access P1, as packet was injected
*         from this logical port, that is, hair-pin filtering.
* -   The SA of the packet is learned on VSI 6202.
*     -   Call l2_print_mact(unit) to print MAC table content.
*
* Sending to known DA
* -   Send Ethernet packet from any logical interface PWE or Access port with known DA on VSI 6202
*     the packet will be forwarded to the specific logical port with required editing.
*
* Remarks:
* -   For this application at least two ports are needed, one for access side and one for MPLS network side
* -   User can statically add entry to the MACT pointing to a gport using
*     vswitch_add_l2_addr_to_gport(unit, gport_id)
* -   Set verbose = 1/0 to show/hide informative prints
* -   Calling vswitch_vpls_run() as is more than one time would fail because this call will try open same
*     VPN twice,  to avoid this user should set vswitch_vpls_info_1.vpn_id different value in order to
*     open new service.
*
* To Activate Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_global.c
*   BCM> cint examples/dpp/utility/cint_utils_vlan.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
*   BCM> cint examples/dpp/utility/cint_utils_l3.c
```

```
*   BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*      BCM> cint examples/dpp/cint_qos.c
*      BCM> cint examples/dpp/cint_mpls_lsr.c
*      BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*      BCM> cint examples/dpp/cint_vswitch_vpls.c
*      BCM> cint examples/dpp/cint_vswitch_vpls_ecmp.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = vswitch_vpls_run_with_defaults(unit, second_unit);
*
* Script adjustment:
*  User can adjust the following attribute of the application
*  -   vpn_id:             VPN id to create
*  -   ac_in_port:         accesss port: physical port connect to customer
*  -   pwe_in_port:        network port: physical port connect to MPLs network (for incoming packets)
*  -   pwe_out_port:       network port: physical port connect to MPLs network (for outgoing packets)
*  -   in_vc_label:        incomming VC label
*  -   eg_vc_label:        egress VC label
*  -   in_tunnel_label:    inner tunnel label
*  -   out_tunnel_label:   outer tunnel label
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls_ecmp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_general.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_general.c
*
* MODULE PREFIX:  soc_petra
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
```

```
*****************************************************************/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/TMC/tmc_api_general.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_kbp_xpt.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dpp/ARAD/arad_kbp_xpt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR1Wct0AEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0AEntry.hx
No license file was found, but licenses were detected in source scan.

# $Id: tdsanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

if $?BCM56743_A0 || $?BCM56743_A1 || $?BCM56743_A2 || $?BCM56743_A3 || \
```

```
  $?BCM56743_A4 || $?BCM56743_B0 || $?BCM56743_B1 \
   'local titan 1'
if $?BCM56745_A0 || $?BCM56745_A1 || $?BCM56745_A2 || $?BCM56743_A5 || \
  $?BCM56745_A4 || $?BCM56745_B0 || $?BCM56745_B1 \
   'local titan 1'
if $?BCM56744_A0 || $?BCM56744_A1 \
   'local titan 1'
if $?BCM56746_A0 || $?BCM56746_A1 \
   'local titan 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
```

```
$done

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';

init soc;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr50;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_X'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EFP_METER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GM_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'IARB_MAIN_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN0'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN1'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr50;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr50;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'L2_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA52'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA53'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA54'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA55'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA56'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA60'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA61'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA62'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA63'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA64'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA65'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA66'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA67'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA68'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA69'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA70'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA71'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA72'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA73'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA74'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA75'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA76'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA77'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA78'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA79'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA80'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA81'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA82'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA83'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA84'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA85'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA86'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA87'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA88'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA89'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA90'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA91'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA92'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA93'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA94'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA95'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA96'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA97'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA98'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA99'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA100'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA101'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA102'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA103'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK2'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK3'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CPQLINK'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP1'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP2'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP3'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP4'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP5'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP6'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP7'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP8'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP9'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP10'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP11'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP12'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP13'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP14'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP15'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP16'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP17'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP18'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP19'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP20'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP21'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP22'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP23'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP24'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP25'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP26'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP27'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP28'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP29'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP30'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP31'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP32'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP33'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP34'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP35'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP36'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP37'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP38'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP39'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP40'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP41'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP42'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP43'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP44'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP45'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP46'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP47'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IPMC_GROUP48'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP49'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP50'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP51'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP52'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP53'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP54'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP55'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP56'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP57'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP60'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP61'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP62'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP63'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP64'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP65'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO62'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO63'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO64'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO65'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQCFG'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_SP_0'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDO_QYELRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_RP'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ1'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr50;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0B'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDO_CONFIG_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MAC'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;

init soc
init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
```

```
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FP_GM_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_MAIN_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MAC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;

init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
if !$?titan \
  'echo "Running L2 insert/delete/lookup test ..." \
   tr 32 \
   $done'

if !$?titan \
  'echo "Running L2 overflow insert test ..." \
   tr 33 \
   $done'

if !$?titan \
  'echo "Running L2 hash test ..." \
   tr 34 \
   $done'

if !$?titan \
  'echo "Running L2 delete by port test ..." \
```

```
    tr 35 \
    $done'

if !$?titan \
   'echo "Running L2 delete by vlan test ..." \
    tr 36 \
    $done'

if !$?titan \
   'echo "Running IPV4 overflow insert test ..." \
    tr 87 IPMCEnable=False \
    tr 87 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV4 hash test ..." \
    tr 88 IPMCEnable=False \
    tr 88 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 overflow insert test ..." \
    tr 85 IPMCEnable=False \
    tr 85 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 hash test ..." \
    tr 86 IPMCEnable=False \
    tr 86 IPMCEnable=True \
    $done'

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 Hash=0
tr 101 Hash=1
tr 101 Hash=2
tr 101 Hash=3
tr 101 Hash=4
tr 101 Hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done
```

```
echo "Running Egress VLAN translate hash tests ..."
tr 103 Hash=0
tr 103 Hash=1
tr 103 Hash=2
tr 103 Hash=3
tr 103 Hash=4
tr 103 Hash=5
$done

echo "Running MDIO Linkscan test"
tr 60
$done

if !$?titan \
  'echo "Testing CPU DMA loopback ..." \
   tr 17 \
   $done'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=10G
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=10G
$done
```

```
echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
if !$?titan \
   'echo "Running internal snake on all ports, MAC loopback ..." \
    tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe \
    $done'

if !$?titan \
   'echo "Running internal snake on all ports, PHY loopback ..." \
    tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe \
    $done'

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=xe
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g
```

```
# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56831sanity.soc
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56838sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* Common [OS-independent] header file for
* Broadcom BCM47XX 10/100Mbps Ethernet Device Driver
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: etc.h,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/soc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.99 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:    Receive packet mechanism
* Requires:
*
* See sdk/doc/txrx.txt and pkt.txt for
* information on the RX API and implementation.
*
* Quick overview:
*
*     Packet buffer allocation/deallocation is user configurable.
*     This expects to be given monolithic (single block) buffers.
*     When "HANDLED_OWNED" is returned by a handler, that means
*     that the data buffer is stolen, not the packet structure.
*     When the packet buffer (pkt->pkt_data->data) is stolen, the
*     handler/handling process is responsible for freeing the buffer
*     by calling bcm_rx_free; or bcm_rx_free_enqueue.
*
*     Callback functions may be registered in interrupt or non-
*     interrupt mode.  Non-interrupt is preferred.
*
*     Interrupt load is limited by setting overall rate limit
```

```
*     (bcm_rx_rate_burst_set/get).
*
*     If a packet is not serviced in interrupt mode, it is queued
*     based on its COS.
*
*     Each queue has a rate limit (bcm_rx_cos_rate_set/get) which
*     controls the number of callbacks that will be made for the queue.
*     The non-interrupt thread services these queues from highest to
*     lowest and will discard packets in the queue when they exceed
*     the queue's rate limit.
*
*     Packets handled at interrupt level are still accounted for in
*     the COS rate limiting.
*
*     Channels may be enabled and disabled separately from starting RX
*     running.  However, stopping RX disables all channels.
*
*     Updates to the handler linked list need to be synchronized
*     both with thread packet processing (mutex) and interrupt
*     packet processing (spl).
*
*     If no real callouts are registered (other than internal discard)
*     don't bother starting DVs, nor queuing input pkts into cos queues.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/rx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_cnt.h
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_cnt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs16g.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs16g.c
* Purpose:     Support Broadcom 1000/2500/10000/12000/13000/16000 SerDes(XGXS-16G)
```

```
*           Support BCM 40nm Xenia core XGXS_13G_040_FC
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs16g.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueAgeEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueAgeEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MPLS CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: port.c,v 1.355 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    port.c
* Purpose:     Tracks and manages ports.
*      MAC/PHY interfaces are managed through respective drivers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84328.c,v 1.126 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84328.c
* Purpose:    Phys Driver support for Broadcom 84328 40G phy
* Note:
*
* Specifications:

* Repeater mode only, no retimer operation.

* Supports the following data speeds:
* 1.25 Gbps line rate (1 GbE data rate, 8x oversampled over 10 Gbps line rate)
* 10.3125 Gbps line rate (10 GbE data rate)
* 11.5 Gpbs line rate (for backplane application, proprietary data rate)
* 4x10.3125 Gbps line rate (40 GbE data rate)
*
```

```
* Supports the following line-side connections:
* 1 GbE and 10 GbE SFP+ SR and LR optical modules
* 40 GbE QSFP SR4 and LR4 optical modules
* 1 GbE and 10 GbE SFP+ CR (CX1) copper cable
* 40 GbE QSFP CR4 copper cable
* 10 GbE KR, 11.5 Gbps line rate and 40 GbE KR4 backplanes
*
* Operates with the following reference clocks:
* Single 156.25 MHz differential clock for 1.25 Gbps, 10.3125 Gpbs and 11.5 Gbps
* line rates
* Single 125.00 MHz differential clock for 1.25 Gbps, 10.3125 Gbps and 11.5 Gbps
* line rates
*
* Supports autonegotiation as follows:
* Clause 73 only for starting Clause 72 and requesting FEC
* No speed resolution performed
* No Clause 73 in 11.5 Gbps line rate, only Clause 72 supported
* Clause 72 may be enabled standalone for close systems
* Clause 37 is not supported
* No on-chip FEC encoding/decoding, but shall pass-through FEC-encoded data.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84328.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       jer2_arad_link.c
* Purpose:     Hardware Linkscan module
*
* These routines will be called by the linkscan module,
* so they need to be defined and return SOC_E_NONE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_decls_drv.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* All Rights Reserved.$
*
* TDM function prototypes for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/trident2p/tdm_td2p_methods.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mim.h
* Purpose:     MIM internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/mim.h
No license file was found, but licenses were detected in source scan.

```
# $Id: sbx.soc,v 1.63 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Initialization SBX (run commands) file
#
#       These are default commands that are read and executed by default
#       when BCM boots up.  Typically this file is called sbx.soc and resides
#       in the flash filesystem, NVRAM, or disk.
#

local configure_warmboot 1

if $?1 "echo sbx: arguments not supported; exit"
if !$?unit "echo sbx: no current unit; exit"

# When running as daemon, output can be redirected to diag_log_file
if !"expr $unit == 0" && $?diag_log_file \
 "log file=$diag_log_file on;"

# enable stable config for FE2k devices
#

if $configure_warmboot && !"expr $pcidev == 0x0380 || $pcidev == 0x0580 \
```

```
 || $pcidev == 0x0300 || $pcidev == 0x0480 || $pcidev == 0x0280 " "\
 echo $unit: configure scache for warm boot, no-op if warm boot not compiled.; \
 stable size=0;\
"

expr $units - 1;local num_units $?
echo "sbx: unit $unit (of $num_units) device $devname"
local quiet no
local echo echo
local rcdone \$sbx$unit
if !"expr $sbxdone + 0" "local echo noecho; local quiet yes"

#deb +Tests
#deb +PCI
#deb +reg

# Set convenience local variables

# simulation related
#if $?plisim \
#       "local no_bcm 1"
if $?quickturn || $?plisim \
       "local simulator 1"

# Start counter task unless already started by "init bcm" above.
if $?plisim "local dma false"
if !$?plisim "local dma true"

# if card has 1 unit and it is C2, assume its c2 dvt board
# setreg below puts board in freerun mode
if !"expr $pcidev == 0x0580" && !"expr $units == 1" "\
 echo 'C2 DVT board - use SyncE for synchronous mode' ; \
 setreg pc_gpio_dir 0xfffffc; \
 config add bcm88025_dv_board=1 ; \
 init soc ; \
 init bcm ; \
 exit ; \
"



# chip related
# if card has 4 units and unit is QE2000, FE2000 or BM3200, assume it's a metrocore line card
if !"expr $pcidev == 0x0300 || $pcidev == 0x0380 || $pcidev == 0x0280" \
  && !"expr $units == 4"   " \
  local metrocore 1"

if !"expr $pcidev == 0x0300 || $pcidev == 0x0380 || $pcidev == 0x0280 || $pcidev == 0x0480" \
  && !"expr $units == 5"   " \
```

```
  local polaris_lc 1"

# if card has 2 units and unit is BM3200, assume it's a fabric card
if !"expr $pcidev == 0x0280" && !"expr $units == 2"  " \
  local sfm3200fabric 1"

# if card has 1 units and unit is BM9600, assume it's a fabric card
if !"expr $pcidev == 0x0480" && !"expr $units == 1"  " \
  local sfm9600fabric 1"

# if card has 1 unit and unit is BCM88230, BCM88235 or BCM88239, assume its sirius BCMSIM
if !"expr $pcidev == 0x0230 || $pcidev == 0x0235 || $pcidev == 0x0239 || $pcidev == 0xb624" && !"expr $units ==
1 || $units == 2 || $units == 3"  " \
  local sirius 1 "

# FE2KXT board detection
if !"expr $pcidev == 0x0580 || $pcidev == 0x0300 || $pcidev == 0x0480 " && !"expr $units == 3" "\
  local fe2kxt_polaris_lc 1"

# Board Configuration Setting
#       This file uses configuration properties to know on which board
#       it is running.  Currently one of following settings must be made:
#
#       BCM988020R24XSP  config add metrocore=1            brdtype 1
#       BCM9SFM3200      config add sfm3200fabric=1        brdtype 2
#       BCMSIM (LcModel) config add plisim=1               brdtype 3
#       BCM988130FK24X2  config add polaris_lc=1           brdtype 4
#       BCM988130K24XG   config add sfm9600fabric=1        brdtype 5 (force)
#       BCM988025SBLX24G config add fe2kxt_polaris_lc=1    brdtype 6
#       BCMSIM (Sirius/BCM88230)
#                        config add plisim_sirius=1        brdtype 8
#       BCM988130/Sirius config add sfm9600fabric=1        brdtype 11 (default)
#

if $?metrocore                    "\
  local brdtype 1;                \
  config add port_is_sci.port1.2=1; \
  config add metrocore=1"

#   config add bm_device_mode=3"

if $?sfm3200fabric " \
  local brdtype 2;  \
  config add sfmfabric=1"

if $?plisim && !"expr $units == 2" && !"expr $pcidev == 0x0300 || $pcidev == 0x0380 || $pcidev == 0x0580"   " \
  local brdtype 3;  \
  config add plisim=1"
```

```
# Note:
# following configuration applies to latest rev of Polaris (FE2k/QE2k) LC
# SCI pins are different for older rev boards
if $?polaris_lc   "                          \
  config add port_is_sci.port28.4=1;       \
  config add port_is_sci.port25.4=1;       \
  config add sci_port_modid.port25.4=10000; \
  config add sci_port_modid.port28.4=10001; \
  config add rx_parse_erh.2=0;             \
  local brdtype 4 "

if $?fe2kxt_polaris_lc "\
  local brdtype 6 "

if $?sirius " \
  local brdtype 8"

if $?plisim && $?sirius  "    \
  config add sirius_sim=1;   \
  config add plisim_sirius=1"

# Polaris only boards
# (1) - Fabric card BCM988130BS -
# (2) - IPASS card - Polaris only (Default)
# There currently is no way to distinguish between them.(gnats 36365)
# If fabric card need to force_brdtype=5 in config.bcm

if $?sfm9600fabric && !$?force_brdtype "     \
  config add port_is_sci.port29.0=1;       \
  config add bme_switch_controller_id=0;    \
  config add bme_device_mode=2;            \
  local brdtype 11 "

# Fabric card
if $?sfm9600fabric && $?force_brdtype "\
  local brdtype $force_brdtype;  \
  config add sfmfabric=1"

# Chassis mode configuration
#       The checked in version of this file and config.bcm assumes
#       running on linecard in standalone mode. to run in chassis
#       mode(fabric card + line cards), add following line in
#       config.bcm of all cards:
#           diag_chassis=1
#       and remove the following line in the config.bcm of all
#       cards:
#           port_is_sci.port1.2=1
```

```
#
#       when running in chassis mode and FC1 is used, add
#       following line in config.bcm of all line cards:
#           active_switch_controller_id=1
#
#       when running in chassis mode, this file assumes the fabric
#       card is FC1, for FC0, change the following line
#           config add port_is_sci.port[1-4].1=1
#           config add active_switch_controller_id=1
#           config add bme_switch_controller_id=1
#       to:
#           config add port_is_sci.port[1-4].0=1
#           config add active_switch_controller_id=0
#           config add bme_switch_controller_id=0
#

if !"expr $diag_chassis + 0 == 1" && !"expr $brdtype<4" "                    \
  config add port_is_sci.port1.0=1;        \
  config add port_is_sci.port2.0=1;        \
  config add port_is_sci.port3.0=1;        \
  config add port_is_sci.port4.0=1;        \
  config add port_is_sci.port1.2=0;        \
  config add active_switch_controller_id=1; \
  config add bme_switch_controller_id=1"

if !"expr $diag_chassis + 0 == 1" && !"expr $brdtype==4" "                    \
  config add bm_device_mode=3;             \
  config add port_is_sci.port28.4=1;       \
  config add port_is_sci.port25.4=1;       \
"

# FE2KXT board
if !"expr $diag_chassis + 0 == 1" && !"expr $brdtype==6" "                    \
  config add bm_device_mode=3;\
"

if !"expr $diag_chassis + 0 == 1" && !"expr $brdtype==5" "                    \
  config add port_is_sci.port25.0=1;       \
  config add port_is_sci.port35.0=1;       \
  config add port_is_sci.port17.0=1;       \
  config add port_is_sci.port47.0=1;       \
  config add port_is_sci.port72.0=1;       \
  config add port_is_sci.port69.0=1;       \
  config add port_is_sci.port7.0=1;        \
  config add port_is_sci.port57.0=1;       \
  config add bm_device_mode=2"

# Sirius board - fic mode
```

```
if !"expr $diag_chassis + 0 == 1" && $?sirius " \
  config add bme_switch_controller_id=0;       \
  config add bm_device_mode=2;                 \
  config add bme_num_esets=128"


# For Broadcom MetroCore FE-2000 reference designs (only),
# bounce the DDR2 SRAM DLL on the FPGA before init.
# Other systems may have to do something equivalent


if !$?brdtype "echo sbx: no current brdtype; exit"
echo "sbx: unit $unit brdtype $brdtype"

# Polaris board (FE0 - 8726 B0 rev)
if !"expr $brdtype==4" " \
 config add phy_8706_xe0.1=1; \
 config add phy_8706_xe1.1=1; \
 config add phy_xaui_tx_polarity_flip.1=0; \
 config add port_phy_addr.port25.1=0x42; \
 config add port_phy_addr.port26.1=0x43;\
 config add wp_addr_width=20; \
 config add wide_sram0_x18=0; \
 config add wide_sram1_x18=0; \
"

# FE2KXT Polaris board
if !"expr $brdtype==6" "\
  config add wp_addr_width=20; \
  config add wide_sram0_x18=0; \
  config add wide_sram1_x18=0; \
"

if !"expr $brdtype == 6" && !$?qe_tme_mode "\
  config add qe_tme_mode=0; \
"

# FE2KXT Polaris board
if !"expr $brdtype == 6" && !"expr $qe_tme_mode==0" && !$?num_modules "\
  config add num_modules=32; \
"
if !"expr $brdtype == 6" && !"expr $qe_tme_mode==1" && !$?num_modules "\
  config add num_modules=4; \
"

# for easy reload checking before init soc/init bcm - only enable this when compiling for easy reload
xxsocreload
```

```
board init type=$brdtype

if $?diag_unit_mask && "expr ((1<<$unit) & $diag_unit_mask)==(1<<$unit)" "echo Skipping units based on
diag_unit_mask=$diag_unit_mask.;exit"
deb +Verbose

echo "$unit:init soc"
init soc

#echo "$unit:init bcm"
init bcm

echo "$unit:init bcm done"

if !"expr $brdtype==8"            "                  \
   $echo rc: Port modes initialized;              \
   counter Interval=1000 Pbm=all Dma=$dma;        \
   $echo rc: Counter collection enabled"

# BSC/I2C controller is on Polaris LC(type 4), FE2K(unit 2) chip
#
if !"expr $brdtype==4" && !"expr $unit == 2" " \
    2:bsc probe; \
    echo Reading EEPROM:; \
    2:bsc epr 0; \
"

# FE2KXT board
if !"expr $brdtype==6" && !"expr $unit == 1" "\
   1:bsc probe; \
   echo Reading EEPROM:; \
   1:bsc epr 0; \
"

#if !"expr $brdtype==6" && !"expr $unit == 1" "\
# 1:bsc probe; \
#"

# forcemodmap is now called for both qe and fe
if !"expr $pcidev == 0x0380" "echo $unit:call forcemodmap"
if !"expr $pcidev == 0x0380" "forcemodmap"
if !"expr $pcidev == 0x0580" "echo $unit:call forcemodmap"
if !"expr $pcidev == 0x0580" "forcemodmap"
if !"expr $pcidev == 0x0300" "echo $unit:call forcemodmap"
if !"expr $pcidev == 0x0300" "forcemodmap"
```

```
# define the sw linkscan polling interval in us
#linkscan 10000

# enable linkscan for all fabric serdes -
# sci and sfi on the QE, if on the xbar
#port sci linkscan=on
#port sfi linkscan=on
#port all linkscan=on autoneg=on
#port ge linkscan=on autoneg=on

if !$?plisim && $?sirius " \
  linkscan 250000;        \
  port hg linkscan=sw"

if $?sfmfabric && !"expr $unit == $units-1" " \
  mcinit; exit"

# Turn of RCTest for diags
if !"expr $unit == 1" "set RCTest=False"

# Linkscan
# Enable SW linkscan for ge and xe ports in FE-2000 unit.
if !$?no_bcm  && !"expr $unit == 1" && !"expr $diag_easy_reload + 0 == 0" \
 "linkscan 250000; \
  port ge linkscan=on autoneg=on \
  speed=0 fullduplex=true txpause=true rxpause=true; \
       port xe linkscan=on txpause=false rxpause=false; \
       port hg linkscan=on txpause=false rxpause=false; \
  $echo rc: Port modes initialized"

# For Broadcom MetroCore FE-2000 reference designs,
# after all units done, do some more global init.
if !"expr $unit == $units-1" && !$?plisim  && !"expr $brdtype!=5" && !"expr $brdtype!=2" && !$?sirius "\
 train2k; \
       "

if !"expr $unit == $units-1" && !$?plisim "\
 mcinit; \
       "

if $?plisim_sirius "\
       mcinit; \
       "
if !"expr $?aedev + 0" && !"expr $unit == $units - 1" \
      "aedev init"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sbx.soc

No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_front_end_host_card.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_front_end_host_card.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dnxf_implementation_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dnxf_implementation_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: show.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Show CLI commands
*
* Also contains:
* Check CLI command
* Clear CLI command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/show.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lag.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lag.h
No license file was found, but licenses were detected in source scan.

```
#$Id: ktsanity_ecc_off.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana2 (BCM56450) ECC config
#
# Script to disable ECC specific to Katana.
#

if $?BCM56450_A0 \
   'local BCM56450 1'

s lls_soft_reset 0
s ctr_ecc_debug 0
s aging_ctr_ecc_control_ext 0
s aging_ctr_ecc_control_int 0
s aging_exp_ecc_control_ext 0
s aging_exp_ecc_control_int 0
s aging_lmt_ecc_control_ext 0
s aging_lmt_ecc_control_int 0
s ccpe_memdebug 0
s ccpi_memdebug 0
s cfape_ecc_debug 0
s cfapi_ecc_debug 0
#s intfi_ecc_debug 0
s rqe_global_config 0
s thdo_miscconfig 0
s lls_l0_ecc_debug 0
s lls_l0_ecc_debug1 0
s lls_l1_ecc_debug1 0
s lls_l2_ecc_debug1 0
s lls_l2_ecc_debug2 0
s lls_error_ecc_debug 0
s lls_config0 0
m lls_fc_config fc_cfg_disable_l2_normal_xoff_47_0=0 fc_cfg_disable_l2_cosmask_xoff=1
s DEQ_ECC_DEBUG 0

#if $?BCM56450 \
## 's EMC_ECC_DEBUG 0; \
#s CELLLINKEMEMDEBUG 0;'
#$done

s CELLLINKIMEMDEBUG 0
```

```
s MMU_ENQ_CFG_ECC_DEBUG_0 0
s MMU_ENQ_FAP_ECC_DEBUG_0 0
s TOQ_ECC_DEBUG 0
s MMU_ITE_CFG_ECC_DEBUG_0 0
s QSTRUCT_QENTRY_ECC_DEBUG 0
s QSTRUCT_QBLOCK_NEXT_ECC_DEBUG 0
s QSTRUCT_FAP_STACK_ECC_DEBUG 0
s QSTRUCT_FAP_BITMAP_ECC_DEBUG 0
s wred_miscconfig 0
s miscconfig 0
#s txlp_ecc_parity_control 0
#s rxlp_ecc_parity_control 0
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS 1

m EGR_BYPASS_CTRL EFP_SW_ENC_DEC_TCAM=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sb2sanity_ecc_off.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x40g_8x10g.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1x40g_8x10g.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_ppc_api_fp_egr.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_fp_egr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.892 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	l3.c
```

```
* Purpose:     Firebolt L3 function implementations
*/
/* Configure the member's attributions */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mirror.c
* Purpose: BCMX mirroring CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWctEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWctEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwWctEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stk.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Stacking CLI commands
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/stk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_trunk.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_fabric_cell.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.h
* Purpose:     Packet Receive Reason Types shared between BCM and SOC layers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: server.h
* Purpose: server BCM API dispatch driver
* Generator: mkdispatch
* Generated: Fri Aug 19 23:36:26 2011
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/rpc/server.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xmac.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XMAC driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/xmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: saber2.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       saber2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/saber2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.24 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF STAT
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/switch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_bmact.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_bmact.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       prbs.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/prbs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:dpp_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_ardon_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_jericho_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_flair_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_qax_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_arad_config_defs.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_qux_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_jericho_plus_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_flair_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_ardon_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_qux_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_qax_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_arad_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_jericho_plus_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_jericho_config_defs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/cosq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_general.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_pkt.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx_pkt.c
* Purpose:    FE2K Packet Class functions
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sbx_pkt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_prog_select.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_prog_select.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmIngressPortEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmIngressPortEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cmdlist.c
* Purpose:    List of commands available in DPP mode
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/cmdlist.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_links.h,v 1.8.60.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC LINKS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_links.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rxmon.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rxmon.c
* Purpose:    Implementation of rxmon command
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/rxmon.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOamFwUpgradeApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    TkOamFwUpgradeApi.h
```

* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOamFwUpgradeApi.h
No license file was found, but licenses were detected in source scan.

/* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_egr_prog_editor_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_l2_lif_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dnx_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_slb_config_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_oam_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_pp_port_map_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_logical_ports_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_pmf_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_dram_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_lif_linked_list_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_kaps_db_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_access.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oam_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_stack_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_counter_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_interrupts_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oamp_pe_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_diag_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_linkbonding_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_pon_double_lookup_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_mim_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vrrp_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_filter_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsPtr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_l3_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_policer_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_bfd_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_egr_ports_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_jericho_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_counter_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_header_data_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_stack_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_diagnostic.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_occupation_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_cosq_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_tcam_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_vdc_vsi_map_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_glif_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_utils_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_oamp_pe_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_pp_port_map_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_lag_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_l2_lif_ac_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_eg_mirror_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_oper_mode_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_gport_mgmt_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_plus_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm__switch_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_bfd_ipv6_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_op_mode_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_issu_example_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_tdm_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_overlay_arp_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_l3_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_overlay_arp_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_ipv4_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_utils_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_vlan_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_field_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_dbal_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsSinglePtr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_local_lif_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_trunk_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_em_blocks_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_oam_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_phy_ports_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_mim_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_shr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_chip_definitions_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_vid_assign_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_policer_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_bcm_port_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_frwrd_ip_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_qax_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/swstate/types/algo_l3_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/swstate/types/lag_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_pp_mpls_term_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_vt_profile_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsArr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eg_encap_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_vsi_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_eg_encap_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_tm_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_bcm_failover_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_exm_twoLevelsArrPtr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_dbal_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_bcm_stg_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_l2_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_jericho_pp_mpls_term_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_mirror_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_kbp_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_modport2sysport_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsRegularAllowWbAccess_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_q_type_map_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_frwrd_ip_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_fwd_mact_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_cosq_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_bfd_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oper_mode_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_lag_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_fwd_mact_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_config_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tcam_mgmt_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_rx_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_qos_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/types/mdb_kaps_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_trill_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_reassembly_ctxt_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsRegularAllowWbAccess_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ilm_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_dram_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_l2_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_vtt_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_qos_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_miniExm_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_cell_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lag_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_sysport2modport_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsRegular_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tcam_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_egr_ports_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_qax_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_plus_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_vendor_0_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsArr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_bfd_ipv6_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/swstate/mdb_kaps_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_sand_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_kaps_db_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/access/lif_mngr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_interrupts_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_jer_modid_group_map_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tm_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_tcam_mgmt_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsPtr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_issu_example_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_occupation_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_ipmc_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_port_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lif_table_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_egr_prog_editor_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_config_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eg_mirror_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_chip_definitions_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsArrArr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_cos_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsArrArr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_lif_table_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_vrrp_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_bfd_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_fec_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_multicast_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_ipv4_pat_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exmMixStatDyn_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_mirror_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_q_type_ref_count_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_issu_test_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vtt_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsStaticArrInt_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_trill_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_lif_cos_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vdc_vsi_map_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/swstate/lif_mngr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tdm_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_multicast_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_vendor_0_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_l2_lif_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_ecmp_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_filter_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vt_profile_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dnx_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ipv4_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_l2_lif_ac_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_vswitch_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_lag_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_q_type_ref_count_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_vswitch_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_kbp_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lif_cos_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_cos_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_lif_linked_list_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_modport2sysport_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_shr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsRegular_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_access
.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_reassembly_ctxt_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_pon_double_lookup_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_slb_config_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_jer_modid_group_map_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/swstate/access/mdb_kaps_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_ilm_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsStaticArrInt_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_bfd_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_miniExm_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_vid_assign_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_bcm_mirror_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_exmMixStatDyn_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_phy_ports_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_glif_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_pmf_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ipv4_pat_diagnostic.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_local_lif_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/swstate/lag_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsStaticArrArr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm__switch_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_policer_size_profile_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_em_blocks_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_gport_mgmt_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_oam_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_sysport2modport_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/types/lif_mngr_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_trap_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_rx_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsStaticArrArr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_issu_test_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_failover_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_trap_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_header_data_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_vlan_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_q_type_map_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_op_mode_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_diag_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_exm_twoLevelsArrPtr_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ecmp_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_sand_access.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_trunk_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_mirror_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_stg_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_fec_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_linkbonding_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/swstate/algo_l3_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_extender_info_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_bcm_ipmc_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_vsi_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_exm_twoLevelsSinglePtr_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_diagnostic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_policer_size_profile_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/access/algo_l3_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_logical_ports_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_tm_cell_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/sw_state_dpp_soc_arad_pp_extender_info_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/access/lag_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/sw_state_dpp_bcm_field_diagnostic.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qsgmii65.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qsgmii65.h
* Purpose:     65nm Internal (Octal) Serdes PHY Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/qsgmii65.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Test Suites
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bsltest.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_corr_act_func.h,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dfe/interrupts/interrupt_handler_corr_act_func.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: portmod_ctrl.c,v 1.2.2.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/portmod_phy_control.c
No license file was found, but licenses were detected in source scan.

```
# $Id: kt2config.soc,v 1.192 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# kt2 configuration file



#g TOP_MISC_CONTROL_1 WC0_8_XFI_MODE_SEL
#local xfi_0 $last_field0
#g TOP_MISC_CONTROL_1 WC1_8_XFI_MODE_SEL
#local xfi_1 $last_field0

#echo xfi_0: $xfi_0
#echo xfi_1: $xfi_1

config delete pattern=phy_xaui
config delete pattern=portgroup

#echo ==========================================
#echo Setting Polarity flips for Katana2:$pcidev
#echo ==========================================

if "expr $pcidev + 0 == 0xb455" \
  'for port=1,16 \'config add phy_xaui_tx_polarity_flip_$port=1\" \
  'for port=17,24 \'config add phy_xaui_rx_polarity_flip_$port=1\" \

config add phy_xaui_rx_polarity_flip_35=1
config add phy_xaui_rx_polarity_flip_37=1
config add phy_xaui_rx_polarity_flip_38=1

if !$olp_port && "expr $pcidev + 0 == 0xb455"\
  'config add phy_xaui_rx_polarity_flip_40=1'

#if !$xfi_0 && "expr $pcidev + 0 == 0xb455"\
#   'config add phy_xaui_rx_polarity_flip_25=1;config add phy_xaui_rx_polarity_flip_36=1'

if !"$xfi_1" && "expr $pcidev + 0 == 0xb455" \
  'config add phy_xaui_rx_polarity_flip_26=1;config add phy_xaui_rx_polarity_flip_39=1'

if !"expr $pcidev + 0 == 0xb456" || !"expr $pcidev + 0 == 0xb455" \
  'config add phy_xaui_rx_polarity_flip_28=0xF00F' else \
  'config add phy_xaui_rx_polarity_flip_28=0x000F'


#echo ==============================
#echo Setting PortGroup settings
#echo ==============================

if !"expr $BCM56248_CFG_OFFSET + 0 == $config"  || \
```

```
  !"expr $BCM56450_CFG_OFFSET + 0 == $config"  \
  'for port=27,34 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 1 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 1 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 2 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 2 == $config"  \
  'for port=27,28 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 3 == $config"  || !"expr $BCM56450_CFG_OFFSET + 3 == $config"  \
  'for port=27,28 \'config add portgroup_$port=1\" \
  'config add portgroup_30=1'

if !"expr $BCM56248_CFG_OFFSET + 4 == $config"  || !"expr $BCM56450_CFG_OFFSET + 4 == $config"  \
  'for port=27,28 \'config add portgroup_$port=1\" \
  'for port=30,33,3 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 5 == $config"  || !"expr $BCM56450_CFG_OFFSET + 5 == $config"  \
  'for port=27,33,6 \'config add portgroup_$port=1\" \
  'for port=25,36,11 \'config add portgroup_$port=1\" \
  'for port=28,30,2 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 6 == $config"  || !"expr $BCM56450_CFG_OFFSET + 6 == $config"  \
  'for port=27,33,6 \'config add portgroup_$port=1\" \
  'for port=25,36,11 \'config add portgroup_$port=1\" \
  'for port=28,30,2 \'config add portgroup_$port=1\" \
  'for port=26,39,13 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 7 == $config"  || !"expr $BCM56450_CFG_OFFSET + 7 == $config"  \
  'for port=27,33,6 \'config add portgroup_$port=1\" \
  'for port=28,30,2 \'config add portgroup_$port=1\" \
  'for port=26,39,13 \'config add portgroup_$port=1\"

if !"expr $BCM56248_CFG_OFFSET + 8 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 8 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 9 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 9 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 10 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 10 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 11 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 11 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 12 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 12 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 13 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 13 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 14 == $config"  || \
  !"expr $BCM56450_CFG_OFFSET + 14 == $config"  || \
  !"expr $BCM56248_CFG_OFFSET + 15 == $config"  || \
```

```
  !"expr $BCM56450_CFG_OFFSET + 15 == $config" \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56248_CFG_OFFSET + 16 == $config"  \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56450_CFG_OFFSET + 16 == $config"  \
  'config add portgroup_27=1' \
  'config add portgroup_28=4'

if !"expr $BCM56248_CFG_OFFSET + 17 == $config"  \
  'for port=27,28,1 \'config add portgroup_$port=1\" \
  'config add portgroup_30=1'

if !"expr $BCM56452_CFG_OFFSET + 1 == $config"  || \
  !"expr $BCM56452_CFG_OFFSET + 2 == $config"  || \
  !"expr $BCM56452_CFG_OFFSET + 3 == $config"  || \
  !"expr $BCM56452_CFG_OFFSET + 4 == $config" \
  'for port=25,28,1 \'config add portgroup_$port=4\" \

if !"expr $BCM56452_CFG_OFFSET + 5 == $config" \
  'config add portgroup_25=4' \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56452_CFG_OFFSET + 6 == $config" || \
  !"expr $BCM56452_CFG_OFFSET + 7 == $config" \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56452_CFG_OFFSET + 8 == $config" \
  'for port=25,26,1 \'config add portgroup_$port=4\" \
  'config add portgroup_27=4' \
  'config add portgroup_28=4'

if !"expr $BCM56452_CFG_OFFSET + 9 == $config" \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56452_CFG_OFFSET + 10 == $config" \
  'for port=28,30,2 \'config add portgroup_$port=1\"

if !"expr $BCM56454_CFG_OFFSET + 1 == $config" \
  'for port=27,28,1 \'config add portgroup_$port=4\"

if !"expr $BCM56454_CFG_OFFSET + 2 == $config" \
  'for port=25,26,1 \'config add portgroup_$port=4\"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/kt2config.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: thunderbolt_service.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/thunderbolt_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_general.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_general.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_nvram_configuration.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_nvram_configuration.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_i.i
* Purpose:    Field declarations.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_i.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bfd_feature.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bfd_sdk_pack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bfd_feature.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bfd_sdk_pack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bfd_feature.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_end2end_scheduler.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_end2end_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* OOB Flow Control
* Purpose: API to set different OOB Flow Control and OOB Stats registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/oob.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: defs.h,v 1.271 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       defs.h
* Purpose:    Basic defines for system and chips
*             This should be included before all other SOC include
*             files to make sure BCM_xxxx is defined for them.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm8206_a0.c
* Purpose:    bcm8206_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm8206_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/policer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibFMVT.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibFMVT.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXC CELLS BUFFER H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_cells_buffer.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: external_lpm.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Triumph LPM TCAM table insert/delete/lookup routines
* _bcm_tr_ext_lpm_init - Called from bcm_l3_init
* _bcm_tr_ext_lpm_insert - Insert/Update an IPv4/IPV6 route entry into LPM table
* _bcm_tr_ext_lpm_delete - Delete an IPv4/IPV6 route entry from LPM table
* _bcm_tr_ext_lpm_match  - (Exact match for the key. Will match both IP address
*                    and mask)
*
* Hit bit preservation - May loose HIT bit state when entries are moved
* around due to race condition. This happens if the HIT bit gets set in
* hardware after reading the entry to be moved and before the move is
* completed. If the HIT bit for an entry is already set when the move is
* initiated then it is preserved.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/external_lpm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: falcon_furia_enum.h 692 2014-09-09 20:47:56Z kirand $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                    *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                        *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_enum.h
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: 1g_pmd_gloop_10p3125.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : 1g_pmd_gloop_10p3125.soc
# * Description: 1g_pmd_gloop_10p3125
# *-----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
phy raw sbus $port 0.0 0x9010 0x0000

sleep 1;
phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010
```

```
# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.0 0xd081 0x0002
phy raw sbus $port 1.0 0xd081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.0 0xd0f4 0x2271
phy raw sbus $port 1.0 0xd0f4


# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.0 0xd080 0x8008
phy raw sbus $port 1.0 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x000a
phy raw sbus $port 1.0 0xd127


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc113 0x01cb
```

```
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.0 0xc050 0x0037
phy raw sbus $port 0.0 0xc050

phy raw sbus $port 0.0 0xc050 0x0137
phy raw sbus $port 0.0 0xc050

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd0d2 0x7
phy raw sbus $port 1.0 0xd0d2

phy raw sbus $port 0.0 0xc154 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/1g_pmd_gloop_10p3125.soc
No license file was found, but licenses were detected in source scan.

```
/*
  $Id: $
  $Copyright: (c) 2016 Broadcom.
  Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* Skeleton interface for Bison's Yacc-like parsers in C

     Copyright (C) 1984, 1989-1990, 2000-2006, 2009-2010 Free Software
  Foundation, Inc.

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */
/* As a special exception, you may create a larger work that contains
  part or all of the Bison parser skeleton and distribute that work
  under terms of your choice, so long as that work isn't itself a
  parser generator using the skeleton or a modified version thereof
```

as a parser skeleton. Alternatively, if you modify or redistribute
the parser skeleton itself, you may (at your option) remove this
special exception, which will cause the skeleton and the resulting
Bison output files to be licensed under the GNU General Public
License without this special exception.

This special exception was added by the Free Software Foundation in
version 2.2 of Bison. */

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_c.tab.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: qe2000_mvt.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast Vector Table manipulation and management
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_mvt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe1600_fabric_flow_control.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC FLOW CONTROL H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_flow_control.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_vxlan.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_lawful_interception.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Scorpion L3 functions implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/scorpion/l3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv4.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     BCM layer function driver
* Notes: Mostly empty for Hercules (does not have L2 table)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.32 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* QoS module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmmt.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmmt.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: sbEMLComp.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbEMLComp.h: Exact Match Legacy compiler, internal definitions.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbEMLComp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ip_tunnel.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_tunnel.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipmc.c,v 1.0 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_ipmc.c
* Purpose: to be used in IPMC tests
*
* Cint functions for IP Multicast (IPMC)
*
* APIs used:
*  bcm_ipmc_add
*  bcm_ipmc_traverse
*  bcm_ipmc_remove_all
*
* Main function: run_main
*  Scenario:
*  1. create interfaces and ingress objects
*  2. create Multicast Group for each entry
*  3. clear ipmc table
*  4. add MulticastNum of IPv4 entries with consecutive DIPs
*  5. traverse IPv4 IPMC table
*  6. add MulticastNum of IPv6 entries with consecutive DIPs
*  7. traverse IPv4 IPMC table
*  8. traverse IPv6 IPMC table
*  9. cleanups
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tree.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tree.c
* Purpose:     board tree based programming
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/tree.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwAllocCfgBaseEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwAllocCfgBaseEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allmems.c
* Purpose: Independent memory descriptions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/allmems.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: g3p1_tmu_hash.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_tmu.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_tmu_hash.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_fe1600_property.h,v 1.8.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* RAMON_FE1600 PROPERTY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_property.h
No license file was found, but licenses were detected in source scan.

```
/*
DESCRIPTION
This module provides a generic boot ROM facility.  The target-specific
romInit.s module performs the minimal preliminary board initialization and
then jumps to the C routine romStart().  This routine, still executing out
of ROM, copies the first stage of the startup code to a RAM address and
jumps to it.  The next stage clears memory and then uncompresses the
remainder of ROM into the final VxWorks ROM image in RAM.

A modified version of the Public Domain \f3zlib\fP library is used to
uncompress the VxWorks boot ROM executable linked with it.  Compressing
object code typically achieves over 55% compression, permitting much
larger systems to be burned into ROM.  The only expense is the added few
seconds delay while the first two stages complete.

ROM AND RAM MEMORY LAYOUT
Example memory layout for a 1-megabyte board:
.bS 22
  --------------  0x00100000 = LOCAL_MEM_SIZE = sysMemTop()
  |            |
  |    RAM     |
  |  0 filled  |
  |            |
  |------------| = (romInit+ROM_COPY_SIZE) or binArrayStart
  | ROM image  |
  |----------- |  0x00090000  = RAM_HIGH_ADRS
  | STACK_SAVE |
  |------------|
  |            |  0x00080000  = 0.5 Megabytes
  |            |
  |            |
  | 0 filled   |
  |            |
  |            |  0x00001000  = RAM_ADRS & RAM_LOW_ADRS
  |            |
  |            |  exc vectors, bp anchor, exc msg, bootline
  |            |
  |            |
  --------------  0x00000000  = LOCAL_MEM_LOCAL_ADRS
```

```
.bE
.bS 6
  --------------
  |   ROM     |
  |           | 0xff8xxxxx  = binArrayStart
  |           |
  |           | 0xff800008  = ROM_TEXT_ADRS
  --------------  0xff800000  = ROM_BASE_ADRS
.bE
```

SEE ALSO:
inflate(), romInit(), and deflate

AUTHOR
The original compression software for zlib was written by Jean-loup Gailly
and Mark Adler. See the manual pages of inflate and deflate for
more information on their freely available compression software.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/mpc824x/bootInit.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer_pp_eg_protection.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_eg_protection.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgMemFifoControlEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemFifoControlEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: show.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       show.c
* Purpose:     Show CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/show.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbutils.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Misc utility routines for accessing chip-specific features
* of Broadcom HNBU SiliconBackplane-based chips.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* Driver O/S-independent utility routines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmutils.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmutils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sand.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_sand.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_e2e_interdigitated.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This cint configures simple scheduling scheme using interdigitated mode.
* Interdigitated mode is configured by the flag
BCM_COSQ_GPORT_NON_CONTIGUOUS_VOQ_CONNECTOR.
*
* Test Scenario:
* 1) SoC property:
*      diag_cosq_disable=1
* 2) Configure 8 streams with different TCs.
* 3) Build simple interdigitated scheduling scheme.
* 4) Configure snake from the port to itself, and expect all traffic to get back.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_e2e_interdigitated.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_framework.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_framework.h
*
* MODULE PREFIX:  soc_tmcframework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_framework.h

No license file was found, but licenses were detected in source scan.

```
# $Id: tr3_mem.soc,v 1.19 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 Memory Sanity
#
# Note:
# Since this is a subset of the TR3 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0
config add mem_scan_enable=0

if $?BCM56640_A0 || $?BCM56643_A0 || $?BCM56644_A0 || $?BCM56648_A0 || $?BCM56649_A0 \
   "local a_mems 1;"
if $?BCM56640_A1 || $?BCM56643_A1 || $?BCM56644_A1 || $?BCM56648_A1 || $?BCM56649_A1 \
   "local a_mems 1;"
if $?BCM56640_B0 || $?BCM56643_B0 || $?BCM56644_B0 || $?BCM56648_B0 || $?BCM56649_B0 \
   "local b_mems 1;"

if $?BCM56644_A0 \
   "local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1; \
    local xlport0 1;"

if $?BCM56644_A1 || $?BCM56644_B0 \
   "local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1; \
    local xlport0 1; local clport0 1; local clport1 1;"

if $?BCM56640_A0 || $?BCM56640_A1 || $?BCM56640_B0 \
   "local clport0 1; local clport1 1; local xlport0 1; local xlport1 1;"

if $?BCM56643_A0 || $?BCM56643_A1 || $?BCM56643_B0 \
   "local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1; \
    local xlport0 1; local xlport1 1; local clport0 1; local clport1 1;"

echo "testsuite: started: Memory sanity"
```

```
ibodsync off
init soc
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';

init soc;
init misc;
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $clport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51;'
if !"expr $clport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
```

```
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'

local mem 'SVM_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;

if !"expr $esm + 0" \
  'local mem "ESM_ACL_ACTION_CONTROL"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_ACL_PROFILE"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_HWTL_OBSERVED_ET_RSP"; $name; $tr50; \
  local mem "ESM_KEY_ID_TO_FIELD_MAPPER"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_L3_PROTOCOL_FN"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_PKT_TYPE_ID_DATA_ONLY"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_RANGE_CHECK"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_SEARCH_PROFILE"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_PKT_TYPE_ID"; $name; $tr50; $tr51; $tr52; \
  local mem "ESM_PKT_TYPE_ID_ONLY"; $name; $tr50; $tr51; $tr52;'

if !"expr $esm + 0" \
  'local mem "ETU_DBG_REQ_REUSE_FREE_ENTRY"; $name; $tr50; \
   local mem "ETU_DBG_RX_LAST_RSP"; $name; $tr50; \
   local mem "ETU_DBG_RX_RAW_RSP"; $name; $tr50; \
   local mem "ETU_TX_RAW_REQ_DATA_WORD"; $name; $tr50;'

#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP0'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP1'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP2'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP3'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP4'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP5'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP6'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP7'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP8'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'AXP_SM_CHAR_REMAP9'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP10'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP11'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP12'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP13'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP14'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP15'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP16'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP17'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP18'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP19'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP20'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP21'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP22'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP23'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP24'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP25'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP26'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP27'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP28'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP29'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP30'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_CHAR_REMAP31'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_DATA'; $name; $tr50;
local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_MASK'; $name; $tr50;
local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'AXP_SM_FLOW_TABLE_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_COUNTERS_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_COUNTERS_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_COUNTERS_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_COUNTERS_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_DATA'; $name; $tr50;
local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_MASK'; $name; $tr50;
local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'AXP_SM_MATCH_TABLE_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_TABLE_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_TABLE_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_MATCH_TABLE_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_PACKET_BUFFER_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_DATA'; $name; $tr50;
local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_MASK'; $name; $tr50;
local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'AXP_SM_STATE_TABLE_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM2'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'AXP_SM_STATE_TABLE_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM4'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM5'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM6'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_SM_STATE_TABLE_MEM7'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_WCD'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'FT_AGE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EOP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'FT_L4PORT'; $name; $tr50; $tr51; $tr52;
local mem 'FT_POLICY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
```

```
if !"expr $a_mems + 0" \
   'local mem 'LLS_L1_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_L2_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_PORT_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP_DA'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MAID_REDUCTION'; $name; $tr50; $tr51; $tr52;
local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'MA_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'RMEP'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_OFFSET_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
$done


#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $clport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name;\
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; \
```

```
      $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; \
      $tr71_1; $tr71_2;'
if !"expr $clport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; \
      $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; \
      $tr71_1; $tr71_2;'
if !"expr $xlport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xlport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'

local mem 'SVM_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

if !"expr $esm + 0" \
    'local mem "ESM_ACL_ACTION_CONTROL"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_ACL_PROFILE"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_HWTL_OBSERVED_ET_RSP"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_KEY_ID_TO_FIELD_MAPPER"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_L3_PROTOCOL_FN"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_PKT_TYPE_ID_DATA_ONLY"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_RANGE_CHECK"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_SEARCH_PROFILE"; $name; \
      $tr71_1; $tr71_2; $tr71_3; \
    local mem "ESM_PKT_TYPE_ID"; $name; \
```

```
    $tr71_1; $tr71_2; $tr71_3; \
  local mem "ESM_PKT_TYPE_ID_ONLY"; $name; \
    $tr71_1; $tr71_2; $tr71_3;'

# Reverse SLAM problems
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_CHAR_REMAP0'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_FLOW_TABLE_MEM'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_PACKET_BUFFER_MEM'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM0'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM1'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM2'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM3'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM4'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM5'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM6'; $name; $tr71_1; $tr71_2;
local mem 'AXP_SM_STATE_TABLE_MEM7'; $name; $tr71_1; $tr71_2;
local mem 'AXP_WRX_WCD'; $name; $tr71_1; $tr71_2;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2;

local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2;


local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP8'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP9'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP10'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP11'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP12'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP13'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP14'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP15'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'AXP_SM_CHAR_REMAP16'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP17'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP18'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP19'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP20'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP21'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP22'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP23'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP24'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP25'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP26'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP27'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP28'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP29'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP30'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_CHAR_REMAP31'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_COUNTERS_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_COUNTERS_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_COUNTERS_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_COUNTERS_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_MATCH_TABLE_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_AGE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EOP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_L4PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_POLICY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L2_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L2_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
local mem 'L2_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
```

```
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L3_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 c=16000; $tr71_2 c=16000; $tr71_3 c=16000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 s=16000; $tr71_2 s=16000; $tr71_3 s=16000;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LMEP_DA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAID_REDUCTION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_OFFSET_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
# Since this is a subset of the TR3 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr3_mem.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_cell.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: systemInit.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/systemInit.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: sbEML.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbEML.h: Exact Match Legacy compiler, public API.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbEML.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************************
*******************************************************************************************
*  File Name     :  falcon16_tsc_pwr_mgt.c                                    *
*  Created On    :  04 Nov 2015                                        *
```

```
*  Created By    :  Brent Roberts                                    *
*  Description   :  APIs for Serdes IPs                                *
*  Revision      :     *
*                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                        *
*      Broadcom Corporation                                          *
*      5300 California Avenue                                        *
*      Irvine, CA  92617                                           *
*                                                          *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                          *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_pwr_mgt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_l3uc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_l3uc.c
* Purpose: Maintains all the debug information for l3uc(layer 3 unicast)
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3uc/tomahawk_l3uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/field.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_stat_if.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_stat_if.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    port.c
* Purpose: Port Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_spi.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ============================================================
* == qe2000_spi.c - QE Initialization RESET and SPI4 Only      ==
* ============================================================
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_spi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_vid_assign.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_vid_assign.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.433 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_dnx-B COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53118_a0.c
* Purpose: bcm53118_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53118_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_tunnel_initator.c
* Purpose: Example of different paths using the mpls tunnel initator.
*
* Explanation:
*    For incoming packet, the Ethernet header is terminated.
*    Labels are swapped and forwarded to egress port with new label/labels and Ethernet encapsulations.
```

```
*
* Calling Sequence:
*     Port TPIDs setting
*         Assuming default TPID setting, that is, all ports configured with TPID 0x8100.
*     Create MPLS L3 interface.
*         Set interface with my-MAC 00:00:00:00:00:11 and VID 200.
*         Packet tunneled/routed to this L3 interface will be set with this MAC.
*         Calls bcm_l3_intf_create().
*     Create MPLS Tunnel initator objects.
*         Set MPLS tunnels on MPLS L3 interface.
*         Calls mpls_tunnel_initiator_run_with_defaults().
*     Create egress object points to the above MPLS tunnel interface.
*         Packet routed to this egress-object will be forwarded to egress port and encapsulated tunnel and
*          with Ethernet Header.
*             DA: next-hop-DA.
*             SA/VID: according to interface definition.
*         Calls bcm_l3_egress_create().
*    Add ILM (ingress label mapping) entry (refer to mpls_add_switch_entry).
*         Maps incoming label (5000) to egress label (8000) and points to egress object created above.
*         Flags.
*             BCM_MPLS_SWITCH_OUTER_TTL|BCM_MPLS_SWITCH_OUTER_EXP: both have to be present or

*              absent; indicates Pipe/uniform models.
*             BCM_MPLS_SWITCH_TTL_DECREMENT has to be present.
*             BCM_MPLS_SWITCH_ACTION_SWAP: for LSR functionality.
*         Calls bcm_mpls_tunnel_switch_add().
*
* To Activate Above Settings Run:
*   BCM> utility/cint_utils_global.c
*   BCM> utility/cint_utils_mpls.c
*      BCM> cint cint_qos.c
*      BCM> cint utility/cint_utils_l3.c
*      BCM> cint cint_mpls_lsr.c
*      BCM> cint cint_mpls_tunnel_initator.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = mpls_tunnel_initator_run_with_defaults(unit, second_unit, outP);
*
*
* Remarks:
*     (To run a two-device system call with second_unit >= 0.) Two device systems are currently not supported
*
* Script adjustment:
*  You can adjust the following attributes of the application:
*    tunnel_label1:   MPLS label A
*    tunnel_label2:   MPLS labels B
*    num_tunnel_label2:  number of MPLS labels B
*    tunnel_label3:   MPLS label C
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_tunnel_initiator.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.48 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: portmode.h,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmode.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_config.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_config.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmudamemmgr.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmudamemmgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_oam_cfm_o_eth_o_pwe_o_eth.c ,v 1.2 2013/09/03 11:28:44 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_cfm_o_eth_o_pwe_o_eth.c
* Purpose:  using CFMoEthoMplsoEth,
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_cfm_o_eth_o_pwe_o_eth.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88230_c0.c
* Purpose:     bcm88230_c0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88230_c0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ddr_and28.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ddr_and28.c
* Purpose:
* Requires:
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2/ddr_and28.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_l3vpn.c, v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* The below CINT demonstrates MPLS L3VPN which show BCM886XX being PE-based L3VPN.
* Available for 88660_A0 and above.
* MPLS L3VPN model consists of three kind of devices:

* 1. Customer Edge device (CE): Resides on customer network and connected with one or more interfaces to provide edge device.
* The CE is not familiar with the existance of VPN and not with the MPLS core application.

* 2. Provide Edge device (PE): Resides on service provider network and connects to one or more CEs.

* PE is responsible on receiving and sending traffic from / to the MPLS network between the CE and P.

* PE is in charge of all the VPN processing.

* 3. Provider device (P): Backbone router on a service provider network. Only in charge of the MPLS network in the backbone and not familir with the VPN processing.
* It may be that PE device will fucntional as P for other VPN processing of not directly connected CE to MPLS backbone.
*
* In the CINT below we show BCM886XX as a PE device.

* Terminology compared between BCM SDK (and Dune Arch) to L3VPN network:
```

```
* 1. Site (IP address or group of IPs) in PE device usually being termed as IP route address or IP host address (in case of exact match)
* 2. VPN instance - different routes may belong to VPN instances. Each VPN instance usually maintain its own routing table.
*  VPN instance is usually implemented by VRF object. VRF is a set by the RIF interface (L3 interface).

* 3. VC label, VLAN - The identification of VPN instance is usually being handled by VLAN from the CE side or by VC label from the MPLS core side.
*  VC label is usually implemented by a regular LSP label in BCM SDK. bcm_mpls_tunnel_terminator_create in charge of the termination part
* and bcm_mpls_tunnel_initaitor_create in charge of the encapsulation part.

* We note that there is no need to use MPLS_PORT for this functionality as we don't need to learn nor to maintain any L2VPN properties.
*  VLAN usually may provide from CE side the VRF by:

*  (a) A premiliary lookup of Port x VLAN which creates AC-LIF

* (b) AC-LIF is only used for RIF mapped (and so VRF mapped).

*  In case RIF is equal to VLAN user may drop AC-LIF creation and relay on Port default AC-LIF.

* Port default AC-LIF is set on init and provide the capability of mapping RIF directly form VLAN.

*  For more information on VLAN - RIF model mappings please see cint_ip_route_explicit_rif.c

*
* The device can function also as IP-GRE core application instead of MPLS but in cint_l3vpn we focused on MPLS core
*
*
* The below BCM SDK settings try to provide L3VPN example topology and traffic examples show UC, MC packet scenarios in this network topology:
* BCM> cint utility/cint_utils_mpls.c
* BCM> cint cint_qos.c
* BCM> cint utility/cint_utils_l3.c
* BCM> cint cint_mpls_lsr.c
* BCM> cint cint_ip_route.c
* BCM> cint cint_l3vpn.c
* BCM> cint
* cint> int inP = 201;
* cint> int outP = 202;
* cint> l3vpn_run_defaults_with_ports(unit, inP, outP);
*
*
*
*
```

```
*
* Traffic:
*   - UC packets:
*     - Packet Incoming from access side to mpls network: CE1->P1
*     - Packet Incoming from MPLS network to access side.
*     - Packet is IP routed in access side.
*     - Packet is routed in MPLS network
*
*
*   - MC packets:
*     - Packet Incoming from MPLS network, to P2, CE1. (Bud node)
*     - Packet Incoming from MPLS network, to PE2 (Continue)
*     - Packet Incoming from MPLS network, to CE1, CE2 (Leaf node)
*     - Packet Incoming from access side, to CE2, P1
*
*
*  Traffic from RouterCE1 to RouterP
*
*  Routing to overlay: host10 to host90
*  Purpose: - check mpls & vc encapsulations, check new ethernet header
*
*    Send:
*            ----------------------------------------
*       eth: |    DA       |     SA          | VLAN |
*            ----------------------------------------
*            | routerPE1_mac | routerCE1_mac |  v1  |
*            ----------------------------------------
*               --------------------------
*            ip: |   SIP     | DIP        |
*               --------------------------
*               | host10_ip |  host90_ip |
*               --------------------------
*    Receive:
*            --------------------------------------
*       eth: |    DA       |     SA      | VLAN  |
*            --------------------------------------
*            | routerP_mac | routerPE1_mac |  v2 |
*            --------------------------------------
*       mpls:   --------------------------
*               |   LABEL   | LABEL      |
*               --------------------------
*               | MPLS LABEL|  VC_LABEL  |
*               --------------------------
*                        --------------------------
*                    ip: |   SIP     | DIP        |
*                        --------------------------
*                        | host10_ip |  host90_ip |
*                        --------------------------
```

```
*
*
*
*
*   Traffic from RouterP2 to RouterCE1
*
*   Tunnel termination, ip routing: host91 to host 11
*   Purpose: - check mpls and vc label termination, check new ethernet header
*
*    Send:
*           --------------------------------------
*       eth: |    DA         |   SA      | VLAN  |
*           --------------------------------------
*           | routerPE1_mac | routerP_mac |  v2 |
*           --------------------------------------
*       mpls:   --------------------------
*             |   LABEL   | LABEL      |
*             --------------------------
*             | MPLS LABEL|  VC_LABEL  |
*             --------------------------
*                     --------------------------
*                  ip: |   SIP     | DIP        |
*                     --------------------------
*                     | host81_ip |  host11_ip |
*                     --------------------------
*
*    Receive:
*           ----------------------------------------
*       eth: |    DA         |   SA          | VLAN |
*           ----------------------------------------
*           | routerCE1_mac | routerPE1_mac |  v1  |
*           ----------------------------------------
*              --------------------------
*           ip: |   SIP     | DIP        |
*              --------------------------
*              | host81_ip |  host11_ip |
*              --------------------------
*
*
*
*   Traffic from RouterCE2 to RouterCE1
*
*   ip routing: host21 to host 11
*
*    Send:
*           ----------------------------------------
*       eth: |    DA         |   SA          | VLAN |
*           ----------------------------------------
```

```
*           | routerPE1_mac | routerCE2_mac |  v1  |
*           ----------------------------------------
*              --------------------------
*           ip: |   SIP     | DIP        |
*              --------------------------
*              | host21_ip |  host11_ip |
*              --------------------------
*
*    Receive:
*           ----------------------------------------
*       eth: |    DA         |   SA          | VLAN |
*           ----------------------------------------
*           | routerCE1_mac | routerPE1_mac |  v1  |
*           ----------------------------------------
*              --------------------------
*           ip: |   SIP     | DIP        |
*              --------------------------
*              | host21_ip |  host11_ip |
*              --------------------------
*
*
*
*   Traffic from RouterP2 to RouterP3
*
*   mpls Tunnel swap
*   Purpose: - check swap mpls, check new ethernet header
*
*    Send:
*           --------------------------------------
*       eth: |    DA         |   SA      | VLAN  |
*           --------------------------------------
*           | routerPE1_mac | routerPE2_mac |  v2 |
*           --------------------------------------
*       mpls:   --------------------------
*              |   LABEL   | LABEL      |
*              --------------------------
*              | MPLS LABEL|  VC_LABEL  |
*              --------------------------
*                     --------------------------
*                  ip: |   SIP     | DIP        |
*                     --------------------------
*                     | host81_ip |  host11_ip |
*                     --------------------------
  */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l3vpn.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_chk.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip self-check functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_chk_tdm.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc

echo "there are 917 more memories to test.";echo "tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 916 more memories to test.";echo "tr 71 M=ARB_ANC_OP_WITH_CELL_DISABLE Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ARB_ANC_OP_WITH_CELL_DISABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 915 more memories to test.";echo "tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0";tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 914 more memories to test.";echo "tr 71 M=CLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 913 more memories to test.";echo "tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 912 more memories to test.";echo "tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0";tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 911 more memories to test.";echo "tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 910 more memories to test.";echo "tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 909 more memories to test.";echo "tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 908 more memories to test.";echo "tr 71 M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0";tr 71
```

```
M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 907 more memories to test.";echo "tr 71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0";tr
71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 906 more memories to test.";echo "tr 71 M=CPU_TS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_TS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 905 more memories to test.";echo "tr 71 M=CXXPORT_WC_UCMEM_DATA0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CXXPORT_WC_UCMEM_DATA0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 904 more memories to test.";echo "tr 71 M=CXXPORT_WC_UCMEM_DATA1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CXXPORT_WC_UCMEM_DATA1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 903 more memories to test.";echo "tr 71 M=CXXPORT_WC_UCMEM_DATA2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CXXPORT_WC_UCMEM_DATA2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 902 more memories to test.";echo "tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 901 more memories to test.";echo "tr 71 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 900 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 899 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 898 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 897 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 896 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_STATS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_STATS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 895 more memories to test.";echo "tr 71 M=DLB_HGT_HIST_LOAD Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_HIST_LOAD Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 894 more memories to test.";echo "tr 71 M=DLB_HGT_INST_LOAD Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_INST_LOAD Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 893 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 892 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_STATUS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_STATUS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 891 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_SW_STATE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_SW_STATE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 890 more memories to test.";echo "tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 889 more memories to test.";echo "tr 71 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 888 more memories to test.";echo "tr 71 M=DLB_HGT_PORT_MEMBER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_PORT_MEMBER_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 887 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 886 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 885 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_RESULT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_RESULT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 884 more memories to test.";echo "tr 71 M=DLB_HGT_RR_SELECTION_POINTER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_RR_SELECTION_POINTER Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 883 more memories to test.";echo "tr 71 M=DOP_EFPMOD_CPU_DMA_HDR Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPMOD_CPU_DMA_HDR Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 882 more memories to test.";echo "tr 71 M=DOP_EFPPARS_OUTBUS_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPPARS_OUTBUS_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 881 more memories to test.";echo "tr 71 M=DOP_EFPPARS_OUTBUS_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPPARS_OUTBUS_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 880 more memories to test.";echo "tr 71 M=DOP_EFPPARS_OUTBUS_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPPARS_OUTBUS_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 879 more memories to test.";echo "tr 71 M=DOP_EFPPARS_OUTBUS_3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPPARS_OUTBUS_3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 878 more memories to test.";echo "tr 71 M=DOP_EFPPARS_OUTBUS_4 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EFPPARS_OUTBUS_4 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 877 more memories to test.";echo "tr 71 M=DOP_EFP_ALL_SLICE_POLICY_INDEX Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_EFP_ALL_SLICE_POLICY_INDEX Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 876 more memories to test.";echo "tr 71 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 875 more memories to test.";echo "tr 71 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 874 more memories to test.";echo "tr 71 M=DOP_EGR_VLAN_XLATE_KEY_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EGR_VLAN_XLATE_KEY_0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 873 more memories to test.";echo "tr 71 M=DOP_EGR_VLAN_XLATE_KEY_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_EGR_VLAN_XLATE_KEY_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 872 more memories to test.";echo "tr 71
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0";tr 71
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 871 more memories to test.";echo "tr 71 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0
```

```
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 870 more memories to test.";echo "tr 71 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 869 more memories to test.";echo "tr 71 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 868 more memories to test.";echo "tr 71 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 867 more memories to test.";echo "tr 71 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 866 more memories to test.";echo "tr 71 M=DOP_HG_TRUNK_MEMBER_INDEX Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_HG_TRUNK_MEMBER_INDEX Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 865 more memories to test.";echo "tr 71 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 864 more memories to test.";echo "tr 71 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 863 more memories to test.";echo "tr 71 M=DOP_ING_DNAT_ADDRESS_KEY_0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_ING_DNAT_ADDRESS_KEY_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 862 more memories to test.";echo "tr 71
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0";tr 71
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 861 more memories to test.";echo "tr 71 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 860 more memories to test.";echo "tr 71 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 859 more memories to test.";echo "tr 71 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 858 more memories to test.";echo "tr 71 M=DOP_ISW1_IN_BUS_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DOP_ISW1_IN_BUS_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 857 more memories to test.";echo "tr 71 M=DOP_ISW1_OUT_BUS_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DOP_ISW1_OUT_BUS_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 856 more memories to test.";echo "tr 71 M=DOP_L2_ENDPOINT_ID_HIT_INDEX Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DOP_L2_ENDPOINT_ID_HIT_INDEX Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 855 more memories to test.";echo "tr 71 M=DOP_L2_ENDPOINT_ID_KEY Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L2_ENDPOINT_ID_KEY Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 854 more memories to test.";echo "tr 71 M=DOP_L2_ENTRY_HIT_INDEX_0 Start=0 Count=0
```

```
SlamLowToHigh=0";tr 71 M=DOP_L2_ENTRY_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 853 more memories to test.";echo "tr 71 M=DOP_L2_ENTRY_HIT_INDEX_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L2_ENTRY_HIT_INDEX_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 852 more memories to test.";echo "tr 71 M=DOP_L2_ENTRY_KEY_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L2_ENTRY_KEY_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 851 more memories to test.";echo "tr 71 M=DOP_L2_ENTRY_KEY_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L2_ENTRY_KEY_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 850 more memories to test.";echo "tr 71 M=DOP_L3_ENTRY_HIT_INDEX_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L3_ENTRY_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 849 more memories to test.";echo "tr 71 M=DOP_L3_ENTRY_HIT_INDEX_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L3_ENTRY_HIT_INDEX_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 848 more memories to test.";echo "tr 71 M=DOP_L3_ENTRY_KEY_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L3_ENTRY_KEY_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 847 more memories to test.";echo "tr 71 M=DOP_L3_ENTRY_KEY_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_L3_ENTRY_KEY_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 846 more memories to test.";echo "tr 71 M=DOP_MPLS_ENTRY_HIT_INDEX_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_MPLS_ENTRY_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 845 more memories to test.";echo "tr 71 M=DOP_MPLS_ENTRY_HIT_INDEX_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_MPLS_ENTRY_HIT_INDEX_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 844 more memories to test.";echo "tr 71 M=DOP_MPLS_ENTRY_KEY_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_MPLS_ENTRY_KEY_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 843 more memories to test.";echo "tr 71 M=DOP_MPLS_ENTRY_KEY_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_MPLS_ENTRY_KEY_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 842 more memories to test.";echo "tr 71 M=DOP_RTAG7_HASH_KEY Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_RTAG7_HASH_KEY Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 841 more memories to test.";echo "tr 71 M=DOP_RTAG7_HASH_VALUE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_RTAG7_HASH_VALUE Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 840 more memories to test.";echo "tr 71 M=DOP_TRUNK_MEMBER_INDEX Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_TRUNK_MEMBER_INDEX Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 839 more memories to test.";echo "tr 71 M=DOP_UDF_TCAM Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_UDF_TCAM Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 838 more memories to test.";echo "tr 71 M=DOP_VFP_HIT_STATUS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_VFP_HIT_STATUS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 837 more memories to test.";echo "tr 71 M=DOP_VLAN_XLATE_HIT_INDEX_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_VLAN_XLATE_HIT_INDEX_0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 836 more memories to test.";echo "tr 71 M=DOP_VLAN_XLATE_HIT_INDEX_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_VLAN_XLATE_HIT_INDEX_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 835 more memories to test.";echo "tr 71 M=DOP_VLAN_XLATE_KEY_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_VLAN_XLATE_KEY_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
```

```
echo "there are 834 more memories to test.";echo "tr 71 M=DOP_VLAN_XLATE_KEY_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DOP_VLAN_XLATE_KEY_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 833 more memories to test.";echo "tr 71 M=DROP_VECTOR_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DROP_VECTOR_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 832 more memories to test.";echo "tr 71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 831 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 830 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 829 more memories to test.";echo "tr 71 M=EFFECTIVE_PHB_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFFECTIVE_PHB_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 828 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 827 more memories to test.";echo "tr 71 M=EFP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 826 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 825 more memories to test.";echo "tr 71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 824 more memories to test.";echo "tr 71 M=EGR_1588_SA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_1588_SA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 823 more memories to test.";echo "tr 71 M=EGR_COUNTER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_COUNTER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 822 more memories to test.";echo "tr 71 M=EGR_DGPP_TO_NHI Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DGPP_TO_NHI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 821 more memories to test.";echo "tr 71 M=EGR_DGPP_TO_NHI_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DGPP_TO_NHI_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 820 more memories to test.";echo "tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 819 more memories to test.";echo "tr 71 M=EGR_DSCP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 818 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 817 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 816 more memories to test.";echo "tr 71 M=EGR_EDB_XMIT_CTRL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EDB_XMIT_CTRL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 815 more memories to test.";echo "tr 71 M=EGR_EFFECTIVE_PHB_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EFFECTIVE_PHB_SELECT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 814 more memories to test.";echo "tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 813 more memories to test.";echo "tr 71 M=EGR_ENABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ENABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 812 more memories to test.";echo "tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 811 more memories to test.";echo "tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 810 more memories to test.";echo "tr 71 M=EGR_FCOE_CONTROL_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_FCOE_CONTROL_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 809 more memories to test.";echo "tr 71 M=EGR_FC_HEADER_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FC_HEADER_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 808 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 807 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 806 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 805 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 804 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 803 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 802 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 801 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 800 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 799 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 798 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 797 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 796 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 795 more memories to test.";echo "tr 71 M=EGR_FORCE_REGEN_CRC_DST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FORCE_REGEN_CRC_DST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 794 more memories to test.";echo "tr 71 M=EGR_FORCE_REGEN_CRC_SRC Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_FORCE_REGEN_CRC_SRC Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 793 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 792 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 791 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 790 more memories to test.";echo "tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 789 more memories to test.";echo "tr 71 M=EGR_ING_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ING_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 788 more memories to test.";echo "tr 71 M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 787 more memories to test.";echo "tr 71 M=EGR_IPMC_CFG2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IPMC_CFG2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 786 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 785 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 784 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 783 more memories to test.";echo "tr 71 M=EGR_L3_INTF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_INTF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 782 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 781 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 780 more memories to test.";echo "tr 71 M=EGR_LPORT_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_LPORT_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 779 more memories to test.";echo "tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 778 more memories to test.";echo "tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 777 more memories to test.";echo "tr 71 M=EGR_MAP_MH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAP_MH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 776 more memories to test.";echo "tr 71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 775 more memories to test.";echo "tr 71 M=EGR_MASK_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MASK_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 774 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 773 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 772 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 771 more memories to test.";echo "tr 71 M=EGR_MMU_CREDIT_LIMIT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MMU_CREDIT_LIMIT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 770 more memories to test.";echo "tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 769 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 768 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 767 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 766 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 765 more memories to test.";echo "tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 764 more memories to test.";echo "tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 763 more memories to test.";echo "tr 71 M=EGR_MTU Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_MTU Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 762 more memories to test.";echo "tr 71 M=EGR_MULTICAST_MAC_ADDR Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_MULTICAST_MAC_ADDR Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 761 more memories to test.";echo "tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 760 more memories to test.";echo "tr 71 M=EGR_NETWORK_PRUNE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_NETWORK_PRUNE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 759 more memories to test.";echo "tr 71 M=EGR_OLP_CONFIG_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_OLP_CONFIG_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 758 more memories to test.";echo "tr 71 M=EGR_OLP_CONFIG_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_OLP_CONFIG_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 757 more memories to test.";echo "tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 756 more memories to test.";echo "tr 71 M=EGR_OLP_DGPP_CONFIG_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OLP_DGPP_CONFIG_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 755 more memories to test.";echo "tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 754 more memories to test.";echo "tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 753 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 752 more memories to test.";echo "tr 71 M=EGR_PER_PORT_BUFFER_OVERFLOW Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PER_PORT_BUFFER_OVERFLOW Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 751 more memories to test.";echo "tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 750 more memories to test.";echo "tr 71 M=EGR_PFC_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PFC_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 749 more memories to test.";echo "tr 71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 748 more memories to test.";echo "tr 71 M=EGR_PORT_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 747 more memories to test.";echo "tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 746 more memories to test.";echo "tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 745 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 744 more memories to test.";echo "tr 71 M=EGR_QCN_CNM_CONTROL_TABLE Start=0
Count=0 SlamLowToHigh=0";tr 71 M=EGR_QCN_CNM_CONTROL_TABLE Start=0 Count=0
SlamLowToHigh=0;echo "done";
#echo "there are 743 more memories to test.";echo "tr 71 M=EGR_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 742 more memories to test.";echo "tr 71 M=EGR_SHAPING_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SHAPING_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 741 more memories to test.";echo "tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 740 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 739 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 738 more memories to test.";echo "tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 737 more memories to test.";echo "tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 736 more memories to test.";echo "tr 71 M=EGR_TX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 735 more memories to test.";echo "tr 71 M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 734 more memories to test.";echo "tr 71 M=EGR_VFT_FIELDS_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VFT_FIELDS_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 733 more memories to test.";echo "tr 71 M=EGR_VFT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VFT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 732 more memories to test.";echo "tr 71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0";tr
```

```
71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 731 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 730 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 729 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 728 more memories to test.";echo "tr 71 M=EGR_VLAN_STG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_STG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 727 more memories to test.";echo "tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 726 more memories to test.";echo "tr 71 M=EGR_VLAN_VFI_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_VFI_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 725 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 724 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 723 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 722 more memories to test.";echo "tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 721 more memories to test.";echo "tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 720 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 719 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 718 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 717 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 716 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 715 more memories to test.";echo "tr 71 M=EGR_VSAN_INTPRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VSAN_INTPRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 714 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 713 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 712 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 711 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 710 more memories to test.";echo "tr 71 M=EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 709 more memories to test.";echo "tr 71 M=ENDPOINT_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ENDPOINT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 708 more memories to test.";echo "tr 71 M=ENDPOINT_QUEUE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ENDPOINT_QUEUE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 707 more memories to test.";echo "tr 71 M=EPC_LINK_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EPC_LINK_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 706 more memories to test.";echo "tr 71 M=EP_CTC_RES_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EP_CTC_RES_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 705 more memories to test.";echo "tr 71 M=EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 704 more memories to test.";echo "tr 71 M=ES_PIPE0_TDM_TABLE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_TDM_TABLE_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 703 more memories to test.";echo "tr 71 M=ES_PIPE0_TDM_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_TDM_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 702 more memories to test.";echo "tr 71 M=EXT_TM_MANAGED_PORT Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EXT_TM_MANAGED_PORT Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 701 more memories to test.";echo "tr 71 M=FCOE_HOP_COUNT_FN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FCOE_HOP_COUNT_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 700 more memories to test.";echo "tr 71 M=FC_MAP_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FC_MAP_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 699 more memories to test.";echo "tr 71 M=FP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 698 more memories to test.";echo "tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 697 more memories to test.";echo "tr 71 M=FP_GM_FIELDS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GM_FIELDS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 696 more memories to test.";echo "tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 695 more memories to test.";echo "tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 694 more memories to test.";echo "tr 71 M=FP_METER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_METER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 693 more memories to test.";echo "tr 71 M=FP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 692 more memories to test.";echo "tr 71 M=FP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 691 more memories to test.";echo "tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 690 more memories to test.";echo "tr 71 M=FP_PORT_METER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_METER_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 689 more memories to test.";echo "tr 71 M=FP_RANGE_CHECK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_RANGE_CHECK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 688 more memories to test.";echo "tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0
```

```
SlamLowToHigh=0";tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 687 more memories to test.";echo "tr 71 M=FP_SLICE_MAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=FP_SLICE_MAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 686 more memories to test.";echo "tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 685 more memories to test.";echo "tr 71 M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 684 more memories to test.";echo "tr 71 M=GTP_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=GTP_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 683 more memories to test.";echo "tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 682 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 681 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 680 more memories to test.";echo "tr 71 M=HG_TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 679 more memories to test.";echo "tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 678 more memories to test.";echo "tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 677 more memories to test.";echo "tr 71 M=IARB_ING_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_ING_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 676 more memories to test.";echo "tr 71 M=IARB_MAIN_TDM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_MAIN_TDM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 675 more memories to test.";echo "tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 674 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 673 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 672 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 671 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 670 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 669 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 668 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 667 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 666 more memories to test.";echo "tr 71 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 665 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 664 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 663 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 662 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 661 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 660 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 659 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 658 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 657 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 656 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 655 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 654 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 653 more memories to test.";echo "tr 71 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 652 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 651 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
```

```
echo "there are 650 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 649 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 648 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 647 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 646 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 645 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 644 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 643 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 642 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 641 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 640 more memories to test.";echo "tr 71 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 639 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 638 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 637 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 636 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 635 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 634 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 633 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 632 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 631 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 630 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 629 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 628 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 627 more memories to test.";echo "tr 71 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 626 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 625 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 624 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 623 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 622 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 621 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 620 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 619 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 618 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 617 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 616 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 615 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3 Start=0 Count=0
```

```
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 614 more memories to test.";echo "tr 71 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 613 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 612 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 611 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 610 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 609 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 608 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 607 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 606 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 605 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 604 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 603 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 602 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 601 more memories to test.";echo "tr 71 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 600 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 599 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 598 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 597 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
```

```
echo "there are 596 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 595 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 594 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 593 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 592 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 591 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 590 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 589 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 588 more memories to test.";echo "tr 71 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 587 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 586 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 585 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 584 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 583 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 582 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 581 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 580 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 579 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0 Start=0 Count=0
```

```
SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 578 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 577 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 576 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 575 more memories to test.";echo "tr 71 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 574 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 573 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 572 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 571 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 570 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 569 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 568 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 567 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 566 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 565 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 564 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 563 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 562 more memories to test.";echo "tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 561 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 560 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 559 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 558 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 557 more memories to test.";echo "tr 71 M=IFP_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 556 more memories to test.";echo "tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 555 more memories to test.";echo "tr 71 M=IMIRROR_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 554 more memories to test.";echo "tr 71 M=IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 553 more memories to test.";echo "tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 552 more memories to test.";echo "tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 551 more memories to test.";echo "tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 550 more memories to test.";echo "tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 549 more memories to test.";echo "tr 71 M=ING_DVP_2_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_2_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 548 more memories to test.";echo "tr 71 M=ING_DVP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 547 more memories to test.";echo "tr 71 M=ING_EGRMSKBMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_EGRMSKBMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 546 more memories to test.";echo "tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 545 more memories to test.";echo "tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 544 more memories to test.";echo "tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 543 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 542 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 541 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 540 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 539 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 538 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 537 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 536 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 535 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 534 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 533 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 532 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 531 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 530 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 529 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 528 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 527 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 526 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 525 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 524 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 523 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 522 more memories to test.";echo "tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 521 more memories to test.";echo "tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0
Count=0 SlamLowToHigh=0";tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 520 more memories to test.";echo "tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 519 more memories to test.";echo "tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 518 more memories to test.";echo "tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 517 more memories to test.";echo "tr 71 M=ING_MPLS_EXP_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MPLS_EXP_MAPPING_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 516 more memories to test.";echo "tr 71 M=ING_NETWORK_PRUNE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_NETWORK_PRUNE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 515 more memories to test.";echo "tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 514 more memories to test.";echo "tr 71
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 513 more memories to test.";echo "tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 512 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 511 more memories to test.";echo "tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 510 more memories to test.";echo "tr 71 M=ING_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 509 more memories to test.";echo "tr 71 M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0";tr 71
M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 508 more memories to test.";echo "tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 507 more memories to test.";echo "tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 506 more memories to test.";echo "tr 71 M=ING_SNAT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 505 more memories to test.";echo "tr 71 M=ING_SVM_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 504 more memories to test.";echo "tr 71 M=ING_SVM_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 503 more memories to test.";echo "tr 71 M=ING_SVM_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 502 more memories to test.";echo "tr 71 M=ING_SVM_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 501 more memories to test.";echo "tr 71 M=ING_SVM_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 500 more memories to test.";echo "tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 499 more memories to test.";echo "tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL Start=0
Count=0 SlamLowToHigh=0";tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 498 more memories to test.";echo "tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 497 more memories to test.";echo "tr 71 M=ING_VFT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VFT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 496 more memories to test.";echo "tr 71 M=ING_VLAN_RANGE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_RANGE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 495 more memories to test.";echo "tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 494 more memories to test.";echo "tr 71 M=ING_VLAN_VFI_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_VFI_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 493 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 492 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 491 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 490 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 489 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 488 more memories to test.";echo "tr 71 M=ING_VSAN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=ING_VSAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 487 more memories to test.";echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 486 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 485 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 484 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 483 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 482 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 481 more memories to test.";echo "tr 71 M=INITIAL_PROT_OFFSET_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_OFFSET_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 480 more memories to test.";echo "tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 479 more memories to test.";echo "tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 478 more memories to test.";echo "tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 477 more memories to test.";echo "tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 476 more memories to test.";echo "tr 71 M=L2MC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2MC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 475 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 474 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 473 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 472 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 471 more memories to test.";echo "tr 71 M=L2_ENDPOINT_ID Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENDPOINT_ID Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 470 more memories to test.";echo "tr 71 M=L2X Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2X Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 469 more memories to test.";echo "tr 71 M=L2_ENTRY_ISS_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ISS_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 468 more memories to test.";echo "tr 71 M=L2_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 467 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 466 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 465 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 464 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 463 more memories to test.";echo "tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0 SlamLowToHigh=0;echo "done";
```

```
echo "there are 462 more memories to test.";echo "tr 71 M=L2_MOD_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_MOD_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 461 more memories to test.";echo "tr 71 M=L2_USER_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 460 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 459 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 458 more memories to test.";echo "tr 71 M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 457 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 456 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 455 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 454 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 453 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_128 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 452 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 451 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 450 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_RAW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_RAW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 449 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 448 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 447 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 446 more memories to test.";echo "tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 445 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 444 more memories to test.";echo "tr 71 M=L3_DEFIP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 443 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 442 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 441 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 440 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 439 more memories to test.";echo "tr 71 M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 438 more memories to test.";echo "tr 71 M=L3_ECMP_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 437 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 436 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 435 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 434 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 433 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 432 more memories to test.";echo "tr 71 M=L3_ENTRY_ISS_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ISS_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 431 more memories to test.";echo "tr 71 M=L3_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 430 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 429 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 428 more memories to test.";echo "tr 71 M=L3_IIF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IIF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 427 more memories to test.";echo "tr 71 M=L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 426 more memories to test.";echo "tr 71 M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 425 more memories to test.";echo "tr 71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 424 more memories to test.";echo "tr 71 M=L3_IPMC_REMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IPMC_REMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 423 more memories to test.";echo "tr 71 M=L3_MTU_VALUES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_MTU_VALUES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 422 more memories to test.";echo "tr 71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 421 more memories to test.";echo "tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 420 more memories to test.";echo "tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 419 more memories to test.";echo "tr 71 M=LLS_L0_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 418 more memories to test.";echo "tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 417 more memories to test.";echo "tr 71 M=LLS_L0_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 416 more memories to test.";echo "tr 71 M=LLS_L0_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 415 more memories to test.";echo "tr 71 M=LLS_L0_HEADS_TAILS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_HEADS_TAILS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 414 more memories to test.";echo "tr 71 M=LLS_L0_HEADS_TAILS_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_HEADS_TAILS_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 413 more memories to test.";echo "tr 71 M=LLS_L0_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 412 more memories to test.";echo "tr 71 M=LLS_L0_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 411 more memories to test.";echo "tr 71 M=LLS_L0_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 410 more memories to test.";echo "tr 71 M=LLS_L0_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 409 more memories to test.";echo "tr 71 M=LLS_L0_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 408 more memories to test.";echo "tr 71 M=LLS_L0_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 407 more memories to test.";echo "tr 71 M=LLS_L1_ACT_MIN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_ACT_MIN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 406 more memories to test.";echo "tr 71 M=LLS_L1_ACT_SHAPER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_ACT_SHAPER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 405 more memories to test.";echo "tr 71 M=LLS_L1_ACT_XON Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_ACT_XON Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 404 more memories to test.";echo "tr 71 M=LLS_L1_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 403 more memories to test.";echo "tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 402 more memories to test.";echo "tr 71 M=LLS_L1_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 401 more memories to test.";echo "tr 71 M=LLS_L1_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 400 more memories to test.";echo "tr 71 M=LLS_L1_HEADS_TAILS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_HEADS_TAILS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 399 more memories to test.";echo "tr 71 M=LLS_L1_HEADS_TAILS_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_HEADS_TAILS_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 398 more memories to test.";echo "tr 71 M=LLS_L1_MC_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_MC_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 397 more memories to test.";echo "tr 71 M=LLS_L1_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 396 more memories to test.";echo "tr 71 M=LLS_L1_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 395 more memories to test.";echo "tr 71 M=LLS_L1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 394 more memories to test.";echo "tr 71 M=LLS_L1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 393 more memories to test.";echo "tr 71 M=LLS_L1_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 392 more memories to test.";echo "tr 71 M=LLS_L1_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 391 more memories to test.";echo "tr 71 M=LLS_L2_ACT_ENQ Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ACT_ENQ Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 390 more memories to test.";echo "tr 71 M=LLS_L2_ACT_MIN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ACT_MIN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 389 more memories to test.";echo "tr 71 M=LLS_L2_ACT_SHAPER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ACT_SHAPER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 388 more memories to test.";echo "tr 71 M=LLS_L2_ACT_XON Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ACT_XON Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 387 more memories to test.";echo "tr 71 M=LLS_L2_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 386 more memories to test.";echo "tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 385 more memories to test.";echo "tr 71 M=LLS_L2_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 384 more memories to test.";echo "tr 71 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 383 more memories to test.";echo "tr 71 M=LLS_L2_MC_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_MC_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 382 more memories to test.";echo "tr 71 M=LLS_L2_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 381 more memories to test.";echo "tr 71 M=LLS_L2_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 380 more memories to test.";echo "tr 71 M=LLS_L2_SHAPER_STATE_MAX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_SHAPER_STATE_MAX Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 379 more memories to test.";echo "tr 71 M=LLS_L2_SHAPER_STATE_MIN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_SHAPER_STATE_MIN Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 378 more memories to test.";echo "tr 71 M=LLS_L2_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 377 more memories to test.";echo "tr 71 M=LLS_L2_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 376 more memories to test.";echo "tr 71 M=LLS_PORT_HEADS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_HEADS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 375 more memories to test.";echo "tr 71 M=LLS_PORT_SEQ_NUM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_SEQ_NUM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 374 more memories to test.";echo "tr 71 M=LLS_PORT_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 373 more memories to test.";echo "tr 71 M=LLS_PORT_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 372 more memories to test.";echo "tr 71 M=LLS_PORT_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 371 more memories to test.";echo "tr 71 M=LLS_S1_CHILD_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_CHILD_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 370 more memories to test.";echo "tr 71 M=LLS_S1_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_S1_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 369 more memories to test.";echo "tr 71 M=LLS_S1_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 368 more memories to test.";echo "tr 71 M=LLS_S1_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 367 more memories to test.";echo "tr 71 M=LLS_S1_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 366 more memories to test.";echo "tr 71 M=LLS_S1_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 365 more memories to test.";echo "tr 71 M=LLS_S1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 364 more memories to test.";echo "tr 71 M=LLS_S1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 363 more memories to test.";echo "tr 71 M=LLS_S1_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 362 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 361 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 360 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 359 more memories to test.";echo "tr 71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 358 more memories to test.";echo "tr 71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 356 more memories to test.";echo "tr 71 M=MIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 355 more memories to test.";echo "tr 71 M=MMU_AGING_CTR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_CTR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 354 more memories to test.";echo "tr 71 M=MMU_AGING_EXP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_EXP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 353 more memories to test.";echo "tr 71 M=MMU_AGING_MASK_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_MASK_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 352 more memories to test.";echo "tr 71 M=MMU_CBPData0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 351 more memories to test.";echo "tr 71 M=MMU_CBPData1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 350 more memories to test.";echo "tr 71 M=MMU_CBPData2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 349 more memories to test.";echo "tr 71 M=MMU_CBPData3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 348 more memories to test.";echo "tr 71 M=MMU_CCP0_RESEQ_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP0_RESEQ_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 347 more memories to test.";echo "tr 71 M=MMU_CCP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 346 more memories to test.";echo "tr 71 M=MMU_CELL_LINK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CELL_LINK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 345 more memories to test.";echo "tr 71 M=MMU_CFAPI0_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI0_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 344 more memories to test.";echo "tr 71 M=MMU_CFAPI0_STACK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI0_STACK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 343 more memories to test.";echo "tr 71 M=MMU_CFAPI1_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI1_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 342 more memories to test.";echo "tr 71 M=MMU_CFAPI1_STACK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI1_STACK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 341 more memories to test.";echo "tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 340 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 339 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 338 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 337 more memories to test.";echo "tr 71 M=MMU_CTR_MTRI_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MTRI_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 336 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 335 more memories to test.";echo "tr 71 M=MMU_ENQ_PBI_DB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQ_PBI_DB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 334 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 333 more memories to test.";echo "tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 332 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 331 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 330 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 329 more memories to test.";echo "tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 328 more memories to test.";echo "tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 327 more memories to test.";echo "tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 326 more memories to test.";echo "tr 71 M=MMU_INTFI_PORT_COEFC_TB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_PORT_COEFC_TB Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 325 more memories to test.";echo "tr 71 M=MMU_INTFI_S1_ST_TB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_S1_ST_TB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 324 more memories to test.";echo "tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 323 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 322 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 321 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 320 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 319 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_CNM_RVD_TBL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_CNM_RVD_TBL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 318 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_CNM_TIMER_TBL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_CNM_TIMER_TBL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 317 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_TBID_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_TBID_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 316 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_TOV_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_TOV_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 315 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 314 more memories to test.";echo "tr 71 M=MMU_MAPPER_X_LSB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MAPPER_X_LSB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 313 more memories to test.";echo "tr 71 M=MMU_MAPPER_Y_LSB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MAPPER_Y_LSB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 312 more memories to test.";echo "tr 71 M=MMU_MCFP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_MCFP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 311 more memories to test.";echo "tr 71 M=MMU_MCQDB0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 310 more memories to test.";echo "tr 71 M=MMU_MCQDB1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 309 more memories to test.";echo "tr 71 M=MMU_MCQE Start=0 Count=1 SlamLowToHigh=0";tr
```

```
71 M=MMU_MCQE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 308 more memories to test.";echo "tr 71 M=MMU_MCQN Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_MCQN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 307 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 306 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 305 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 304 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 303 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 302 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 301 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 300 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 299 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 298 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 297 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 296 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 295 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 294 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 293 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 292 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 291 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 290 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 289 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 288 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 287 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 286 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 285 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_5 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 284 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 283 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_7 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 282 more memories to test.";echo "tr 71 M=MMU_MTRO_S1_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_S1_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 281 more memories to test.";echo "tr 71 M=MMU_PDB0 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_PDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 280 more memories to test.";echo "tr 71 M=MMU_PKTHDR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 279 more memories to test.";echo "tr 71 M=MMU_PKT_LINK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKT_LINK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 278 more memories to test.";echo "tr 71 M=MMU_PORTCNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 277 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 276 more memories to test.";echo "tr 71 M=MMU_QCN_CNM_COUNTER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CNM_COUNTER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 275 more memories to test.";echo "tr 71 M=MMU_QCN_CNM_QUEUE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CNM_QUEUE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 274 more memories to test.";echo "tr 71 M=MMU_QCN_CPQST_QLEN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CPQST_QLEN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 273 more memories to test.";echo "tr 71 M=MMU_QCN_CPQST_TSSLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CPQST_TSSLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 272 more memories to test.";echo "tr 71 M=MMU_QCN_ENABLE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_ENABLE_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 271 more memories to test.";echo "tr 71 M=MMU_QCN_QFBTB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_QFBTB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 270 more memories to test.";echo "tr 71 M=MMU_QCN_QLEN_SHADOW0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_QLEN_SHADOW0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 269 more memories to test.";echo "tr 71 M=MMU_QCN_SITB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_SITB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 268 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 267 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 266 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 265 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 264 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 263 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 262 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 261 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 260 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 259 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 258 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 257 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 256 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 255 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 254 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 253 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 252 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 251 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 250 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 249 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 248 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 247 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 246 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 245 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 244 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 243 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 242 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 241 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 240 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 239 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 238 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 237 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 236 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 235 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 234 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 233 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 232 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 231 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 230 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_PORT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 229 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 228 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_QUEUE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 227 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 226 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 225 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 224 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 223 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 222 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 221 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_OFFSET_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_OFFSET_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 220 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_OFFSET_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_OFFSET_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 219 more memories to test.";echo "tr 71 M=MMU_THDU_QGROUP_TICKET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_QGROUP_TICKET Start=0 Count=1 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 218 more memories to test.";echo "tr 71 M=MMU_THDU_QUEUE_TICKET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_QUEUE_TICKET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 217 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 216 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 215 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 214 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 213 more memories to test.";echo "tr 71 M=MMU_UCQDB0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 212 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_X_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 211 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_X_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 210 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 209 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 208 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 207 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 206 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 205 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 204 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 203 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 202 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 201 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 200 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 199 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 198 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 197 more memories to test.";echo "tr 71 M=MODID_BASE_PTR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODID_BASE_PTR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 196 more memories to test.";echo "tr 71 M=MODPORT_MAP_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 195 more memories to test.";echo "tr 71 M=MODPORT_MAP_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 194 more memories to test.";echo "tr 71 M=MODPORT_MAP_M2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 193 more memories to test.";echo "tr 71 M=MODPORT_MAP_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 192 more memories to test.";echo "tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 191 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 190 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 189 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 188 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 187 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 186 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_MIRROR Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_MIRROR Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 185 more memories to test.";echo "tr 71 M=MODPORT_MAP_SW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 184 more memories to test.";echo "tr 71 M=MPLS_ENTROPY_LABEL_DATA Start=0 Count=0
```

```
SlamLowToHigh=0";tr 71 M=MPLS_ENTROPY_LABEL_DATA Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 183 more memories to test.";echo "tr 71 M=MPLS_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 182 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 181 more memories to test.";echo "tr 71 M=MY_STATION_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 180 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 179 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 178 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 177 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 176 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 175 more memories to test.";echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 174 more memories to test.";echo "tr 71 M=NUM_QCN_CNM_RECEIVED Start=0 Count=1
SlamLowToHigh=0";tr 71 M=NUM_QCN_CNM_RECEIVED Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 173 more memories to test.";echo "tr 71 M=OP_UC_QGROUP_DROP_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OP_UC_QGROUP_DROP_STATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 172 more memories to test.";echo "tr 71 M=OP_UC_QGROUP_MINOK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OP_UC_QGROUP_MINOK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 171 more memories to test.";echo "tr 71 M=OP_UC_QUEUE_DROP_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OP_UC_QUEUE_DROP_STATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 170 more memories to test.";echo "tr 71 M=OP_UC_QUEUE_MINOK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OP_UC_QUEUE_MINOK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 169 more memories to test.";echo "tr 71 M=PFS_PACKET_TYPE_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PFS_PACKET_TYPE_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 168 more memories to test.";echo "tr 71 M=PHB2_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PHB2_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 167 more memories to test.";echo "tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 166 more memories to test.";echo "tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 165 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 164 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 163 more memories to test.";echo "tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 162 more memories to test.";echo "tr 71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 161 more memories to test.";echo "tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 160 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 159 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 158 more memories to test.";echo "tr 71 M=RH_ECMP_DROPS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_ECMP_DROPS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 157 more memories to test.";echo "tr 71 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 156 more memories to test.";echo "tr 71 M=RH_ECMP_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_ECMP_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 155 more memories to test.";echo "tr 71 M=RH_HGT_DROPS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_DROPS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 154 more memories to test.";echo "tr 71 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 153 more memories to test.";echo "tr 71 M=RH_HGT_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 152 more memories to test.";echo "tr 71 M=RH_HGT_GROUP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 151 more memories to test.";echo "tr 71 M=RH_LAG_DROPS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_LAG_DROPS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 150 more memories to test.";echo "tr 71 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 149 more memories to test.";echo "tr 71 M=RH_LAG_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_LAG_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 148 more memories to test.";echo "tr 71 M=RQE_FREE_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 147 more memories to test.";echo "tr 71 M=RQE_LINK_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 146 more memories to test.";echo "tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 145 more memories to test.";echo "tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 144 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 143 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 142 more memories to test.";echo "tr 71 M=SERVICE_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 141 more memories to test.";echo "tr 71 M=SERVICE_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 140 more memories to test.";echo "tr 71 M=SERVICE_QUEUE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_QUEUE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 139 more memories to test.";echo "tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 138 more memories to test.";echo "tr 71 M=SER_MEMORY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_MEMORY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 137 more memories to test.";echo "tr 71 M=SER_RESULT_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 136 more memories to test.";echo "tr 71 M=SER_RESULT_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 135 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 134 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 133 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 132 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 131 more memories to test.";echo "tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 130 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 129 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 128 more memories to test.";echo "tr 71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 127 more memories to test.";echo "tr 71 M=SOURCE_VP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_VP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 126 more memories to test.";echo "tr 71 M=SRC_MODID_EGRESS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_EGRESS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 125 more memories to test.";echo "tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 124 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 123 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 122 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP_ONLY Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 121 more memories to test.";echo "tr 71 M=SVM_MACROFLOW_INDEX_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SVM_MACROFLOW_INDEX_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 120 more memories to test.";echo "tr 71 M=SVM_METER_COLOR_HIER_TRUTH_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=SVM_METER_COLOR_HIER_TRUTH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 119 more memories to test.";echo "tr 71 M=SVM_METER_COLOR_TRUTH_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SVM_METER_COLOR_TRUTH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 118 more memories to test.";echo "tr 71
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 117 more memories to test.";echo "tr 71 M=SVM_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 116 more memories to test.";echo "tr 71 M=SVM_OFFSET_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_OFFSET_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 115 more memories to test.";echo "tr 71 M=SVM_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 114 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 113 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 112 more memories to test.";echo "tr 71 M=TCP_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TCP_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 111 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 110 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 109 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 108 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 107 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 106 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 105 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 104 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_X Start=0 Count=1 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 103 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 102 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 101 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 100 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 99 more memories to test.";echo "tr 71 M=TOS_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TOS_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 98 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 97 more memories to test.";echo "tr 71 M=TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 96 more memories to test.";echo "tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 95 more memories to test.";echo "tr 71 M=TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 94 more memories to test.";echo "tr 71 M=TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 93 more memories to test.";echo "tr 71 M=TTL_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TTL_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 92 more memories to test.";echo "tr 71 M=TX_PROT_GROUP_1_1_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TX_PROT_GROUP_1_1_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 91 more memories to test.";echo "tr 71 M=TX_PROT_GROUP_1_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TX_PROT_GROUP_1_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 90 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 89 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 88 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 87 more memories to test.";echo "tr 71 M=FP_UDF_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 86 more memories to test.";echo "tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 85 more memories to test.";echo "tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 84 more memories to test.";echo "tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 83 more memories to test.";echo "tr 71 M=VFI Start=0 Count=1 SlamLowToHigh=0";tr 71 M=VFI
```

```
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 82 more memories to test.";echo "tr 71 M=VFI_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFI_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 81 more memories to test.";echo "tr 71 M=VFI_PROFILE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VFI_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 80 more memories to test.";echo "tr 71 M=VFI_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFI_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 79 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 78 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 77 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 76 more memories to test.";echo "tr 71 M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 75 more memories to test.";echo "tr 71 M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 74 more memories to test.";echo "tr 71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 73 more memories to test.";echo "tr 71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 72 more memories to test.";echo "tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 71 more memories to test.";echo "tr 71 M=VLAN_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 70 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 69 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 68 more memories to test.";echo "tr 71 M=STG_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=STG_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 67 more memories to test.";echo "tr 71 M=VLAN_SUBNET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 66 more memories to test.";echo "tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 65 more memories to test.";echo "tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 64 more memories to test.";echo "tr 71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 63 more memories to test.";echo "tr 71 M=VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 62 more memories to test.";echo "tr 71 M=VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 61 more memories to test.";echo "tr 71 M=VOQ_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VOQ_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 60 more memories to test.";echo "tr 71 M=VOQ_MOD_MAP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=VOQ_MOD_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 59 more memories to test.";echo "tr 71 M=VOQ_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VOQ_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 58 more memories to test.";echo "tr 71 M=VRF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VRF Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 57 more memories to test.";echo "tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 56 more memories to test.';echo 'tr 71 M=EARB_FLEX_OPCODE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EARB_FLEX_OPCODE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 55 more memories to test.';echo 'tr 71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0';tr
71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 54 more memories to test.';echo 'tr 71 M=EINITBUF_PACKET_BUFFER0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EINITBUF_PACKET_BUFFER0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 53 more memories to test.';echo 'tr 71 M=EINITBUF_PACKET_BUFFER1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EINITBUF_PACKET_BUFFER1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 52 more memories to test.';echo 'tr 71 M=EINITBUF_PACKET_BUFFER2 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EINITBUF_PACKET_BUFFER2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 51 more memories to test.';echo 'tr 71 M=EINITBUF_PACKET_BUFFER3 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EINITBUF_PACKET_BUFFER3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 50 more memories to test.';echo 'tr 71 M=EINITBUF_PACKET_BUFFER4 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EINITBUF_PACKET_BUFFER4 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 49 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 48 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 47 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 46 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 45 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 44 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 43 more memories to test.';echo 'tr 71 M=IARB_FLEX_OPCODE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_FLEX_OPCODE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_0_HI Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_0_HI Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_0_LO Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_0_LO Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
```

```
#echo 'there are 39 more memories to test.';echo 'tr 71 M=ING_SERVICE_PRI_MAP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_SERVICE_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER2 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER3 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER4 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER4 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0';tr
71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 71 M=LLS_S1_L0_LOOKUP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=LLS_S1_L0_LOOKUP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 71 M=LMEP Start=0 Count=1 SlamLowToHigh=0';tr 71
M=LMEP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 71 M=LMEP_DA Start=0 Count=1 SlamLowToHigh=0';tr 71
M=LMEP_DA Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 71 M=OAM_LM_COUNTERS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAM_LM_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28  more memories to test.';echo 'tr 71 M=DLB_HGT_MEMBER_HW_STATE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=DLB_HGT_MEMBER_HW_STATE Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 27  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 26  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 25  more memories to test.';echo 'tr 71 M=EGR_PBE_DEBUG_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PBE_DEBUG_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 24  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 23  more memories to test.';echo 'tr 71 M=IARB_IPAD_DEBUG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_IPAD_DEBUG Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 22  more memories to test.';echo 'tr 71 M=IARB_MH_DEBUG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_MH_DEBUG Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 21  more memories to test.';echo 'tr 71 M=LLS_S1_NEXT Start=0 Count=1 SlamLowToHigh=0';tr
71 M=LLS_S1_NEXT Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 20  more memories to test.';echo 'tr 71 M=MMU_MTRO_BUCKET_S1_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=MMU_MTRO_BUCKET_S1_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 19  more memories to test.';echo 'tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 18  more memories to test.';echo 'tr 71 M=RDB_BANK_0_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_0_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
```

```
#echo 'there are 17  more memories to test.';echo 'tr 71 M=RDB_BANK_0_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_0_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 16  more memories to test.';echo 'tr 71 M=RDB_BANK_1_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_1_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 15  more memories to test.';echo 'tr 71 M=RDB_BANK_1_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_1_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 14  more memories to test.';echo 'tr 71 M=RDB_BANK_2_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_2_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 13  more memories to test.';echo 'tr 71 M=RDB_BANK_2_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_2_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 12  more memories to test.';echo 'tr 71 M=RDB_BANK_3_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_3_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 11  more memories to test.';echo 'tr 71 M=RDB_BANK_3_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RDB_BANK_3_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 10  more memories to test.';echo 'tr 71 M=RDB_CEL Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_CEL Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 9  more memories to test.';echo 'tr 71 M=RDB_CONTEXT Start=0 Count=1 SlamLowToHigh=0';tr
71 M=RDB_CONTEXT Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 8  more memories to test.';echo 'tr 71 M=RDB_CXT_AB Start=0 Count=1 SlamLowToHigh=0';tr
71 M=RDB_CXT_AB Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 7  more memories to test.';echo 'tr 71 M=RDB_CXT_CD Start=0 Count=1 SlamLowToHigh=0';tr
71 M=RDB_CXT_CD Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 6  more memories to test.';echo 'tr 71 M=RDB_FCP_0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_FCP_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 5  more memories to test.';echo 'tr 71 M=RDB_FCP_1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_FCP_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 4  more memories to test.';echo 'tr 71 M=RDB_FCP_2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_FCP_2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 3  more memories to test.';echo 'tr 71 M=RDB_FCP_3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_FCP_3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 2  more memories to test.';echo 'tr 71 M=RDB_PKT Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_PKT Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 1  more memories to test.';echo 'tr 71 M=RDB_QUEUE Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RDB_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
echo "tr 71 done"
config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr71_bcm56560_a0.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_em.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_sim_em.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_em.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cmu.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_cmu.h : CMU defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_cmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_multicast.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/tx.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv4Console.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv4Console.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcie.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for PCIE modules.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pcie.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_test.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in Self Test for ARAD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/arad_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54640.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54640.h
*
* This driver applies to BCM54640.
* It support driving Copper or SERDES interfaces.
```

*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54640.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: README,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

This directory contains assembler code examples for the 5605 LED
processor. Contained herein are:

Directory Contents

  ex1.asm to ex5.asm --
 Progressively more complicated examples of LED driver programs.
 Note: Each example assumes a hypothetical LED scan chain length
 and configuration. These examples will run on the 5605 SDK, but
 will not light LEDs as expected.

  testasm.asm --
 Test source. Contains all legal instruction variations in
 numeric order. Assemble the source, look at the listing and
 make sure all opcodes are assigned properly.

  sdk5605.asm --
 Default LED program for the BCM5605 SDK.
 This program is correct for the BCM5605 SDK where there are
 104 bits in the LED scan chain, two per tri-color LED.
 Link up/down information is derived from special memory
 locations written by the main CPU.
 See comments in the source code for a description of LED functions.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/README
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_rif.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_rif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains mpls definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       debug.c
* Purpose: BCMX API Debug declarations
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stats.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    stats.c
* Purpose: cpu occupation stats.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/stats.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/stats.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/sal/core/linux/stats.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250_sbprof.c,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*  Copyright (c) 2002
*  Broadcom Corporation, Irvine, CA
*
*  BROADCOM PROPRIETARY AND CONFIDENTIAL
*
*  This software is furnished under a Broadcom license agreement
*  and may only be used in accordance with and subject to the terms
*  and conditions of such license.
*
* Author: Mark Vandevoorde
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250_sbprof.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC_PETRA STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_flex_init.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_mmu_flex_init.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_phy.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_phy.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proxy.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       proxy.c
* Purpose:     BCMX Proxy API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptp.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ptp.c
*
* Purpose:
*
* Functions:
*      bcm_esw_ptp_acceptable_master_add
*      bcm_esw_ptp_acceptable_master_enabled_get
*      bcm_esw_ptp_acceptable_master_enabled_set
*      bcm_esw_ptp_acceptable_master_list
*      bcm_esw_ptp_acceptable_master_remove
*      bcm_esw_ptp_acceptable_master_table_clear
*      bcm_esw_ptp_acceptable_master_table_size_get
*      bcm_esw_ptp_cb_register
*      bcm_esw_ptp_cb_unregister
*      bcm_esw_ptp_clock_accuracy_get
*      bcm_esw_ptp_clock_accuracy_set
*      bcm_esw_ptp_clock_create
*      bcm_esw_ptp_clock_current_dataset_get
```

* bcm_esw_ptp_clock_default_dataset_get
* bcm_esw_ptp_clock_domain_get
* bcm_esw_ptp_clock_domain_set
* bcm_esw_ptp_clock_get
* bcm_esw_ptp_clock_parent_dataset_get
* bcm_esw_ptp_clock_port_announce_receipt_timeout_get
* bcm_esw_ptp_clock_port_announce_receipt_timeout_set
* bcm_esw_ptp_clock_port_configure
* bcm_esw_ptp_clock_port_dataset_get
* bcm_esw_ptp_clock_port_delay_mechanism_get
* bcm_esw_ptp_clock_port_delay_mechanism_set
* bcm_esw_ptp_clock_port_disable
* bcm_esw_ptp_clock_port_enable
* bcm_esw_ptp_clock_port_identity_get
* bcm_esw_ptp_clock_port_info_get
* bcm_esw_ptp_clock_port_latency_get
* bcm_esw_ptp_clock_port_latency_set
* bcm_esw_ptp_clock_port_log_announce_interval_get
* bcm_esw_ptp_clock_port_log_announce_interval_set
* bcm_esw_ptp_clock_port_log_min_delay_req_interval_get
* bcm_esw_ptp_clock_port_log_min_delay_req_interval_set
* bcm_esw_ptp_clock_port_log_min_pdelay_req_interval_get
* bcm_esw_ptp_clock_port_log_min_pdelay_req_interval_set
* bcm_esw_ptp_clock_port_log_sync_interval_get
* bcm_esw_ptp_clock_port_log_sync_interval_set
* bcm_esw_ptp_clock_port_mac_get
* bcm_esw_ptp_clock_port_protocol_get
* bcm_esw_ptp_clock_port_type_get
* bcm_esw_ptp_clock_port_version_number_get
* bcm_esw_ptp_clock_priority1_get
* bcm_esw_ptp_clock_priority1_set
* bcm_esw_ptp_clock_priority2_get
* bcm_esw_ptp_clock_priority2_set
* bcm_esw_ptp_clock_slaveonly_get
* bcm_esw_ptp_clock_slaveonly_set
* bcm_esw_ptp_clock_time_get
* bcm_esw_ptp_clock_time_properties_get
* bcm_esw_ptp_clock_time_set
* bcm_esw_ptp_clock_timescale_get
* bcm_esw_ptp_clock_timescale_set
* bcm_esw_ptp_clock_traceability_get
* bcm_esw_ptp_clock_traceability_set
* bcm_esw_ptp_clock_user_description_set
* bcm_esw_ptp_clock_utc_get
* bcm_esw_ptp_clock_utc_set
* bcm_esw_ptp_ctdev_alarm_callback_register
* bcm_esw_ptp_ctdev_alarm_callback_unregister
* bcm_esw_ptp_ctdev_alpha_get

* bcm_esw_ptp_ctdev_alpha_set
* bcm_esw_ptp_ctdev_enable_get
* bcm_esw_ptp_ctdev_enable_set
* bcm_esw_ptp_ctdev_verbose_get
* bcm_esw_ptp_ctdev_verbose_set
* bcm_esw_ptp_detach
* bcm_esw_ptp_foreign_master_dataset_get
* bcm_esw_ptp_lock
* bcm_esw_ptp_unlock
* bcm_esw_ptp_init
* bcm_esw_ptp_input_channel_precedence_mode_set
* bcm_esw_ptp_input_channel_switching_mode_set
* bcm_esw_ptp_input_channels_get
* bcm_esw_ptp_input_channels_set
* bcm_esw_ptp_modular_enable_get
* bcm_esw_ptp_modular_enable_set
* bcm_esw_ptp_modular_phyts_get
* bcm_esw_ptp_modular_phyts_set
* bcm_esw_ptp_modular_portbitmap_get
* bcm_esw_ptp_modular_portbitmap_set
* bcm_esw_ptp_modular_verbose_get
* bcm_esw_ptp_modular_verbose_set
* bcm_esw_ptp_packet_counters_get
* bcm_esw_ptp_peer_dataset_get
* bcm_esw_ptp_primary_domain_get
* bcm_esw_ptp_primary_domain_set
* bcm_esw_ptp_servo_configuration_get
* bcm_esw_ptp_servo_configuration_set
* bcm_esw_ptp_servo_status_get
* bcm_esw_ptp_servo_threshold_get
* bcm_esw_ptp_servo_threshold_set
* bcm_esw_ptp_signal_output_get
* bcm_esw_ptp_signal_output_remove
* bcm_esw_ptp_signal_output_set
* bcm_esw_ptp_signaled_unicast_master_add
* bcm_esw_ptp_signaled_unicast_master_remove
* bcm_esw_ptp_signaled_unicast_slave_list
* bcm_esw_ptp_signaled_unicast_slave_table_clear
* bcm_esw_ptp_signaling_arbiter_register
* bcm_esw_ptp_signaling_arbiter_unregister
* bcm_esw_ptp_stack_create
* bcm_esw_ptp_static_unicast_master_add
* bcm_esw_ptp_static_unicast_master_list
* bcm_esw_ptp_static_unicast_master_table_clear
* bcm_esw_ptp_static_unicast_master_table_size_get
* bcm_esw_ptp_static_unicast_slave_add
* bcm_esw_ptp_static_unicast_slave_list
* bcm_esw_ptp_static_unicast_slave_remove

* bcm_esw_ptp_static_unicast_slave_table_clear
* bcm_esw_ptp_sync_phy
* bcm_esw_ptp_telecom_g8265_init
* bcm_esw_ptp_telecom_g8265_network_option_get
* bcm_esw_ptp_telecom_g8265_network_option_set
* bcm_esw_ptp_telecom_g8265_packet_master_add
* bcm_esw_ptp_telecom_g8265_packet_master_best_get
* bcm_esw_ptp_telecom_g8265_packet_master_get
* bcm_esw_ptp_telecom_g8265_packet_master_list
* bcm_esw_ptp_telecom_g8265_packet_master_lockout_set
* bcm_esw_ptp_telecom_g8265_packet_master_non_reversion_set
* bcm_esw_ptp_telecom_g8265_packet_master_priority_override
* bcm_esw_ptp_telecom_g8265_packet_master_priority_set
* bcm_esw_ptp_telecom_g8265_packet_master_remove
* bcm_esw_ptp_telecom_g8265_packet_master_wait_duration_set
* bcm_esw_ptp_telecom_g8265_pktstats_thresholds_get
* bcm_esw_ptp_telecom_g8265_pktstats_thresholds_set
* bcm_esw_ptp_telecom_g8265_quality_level_set
* bcm_esw_ptp_telecom_g8265_receipt_timeout_get
* bcm_esw_ptp_telecom_g8265_receipt_timeout_set
* bcm_esw_ptp_telecom_g8265_shutdown
* bcm_esw_ptp_time_format_set
* bcm_esw_ptp_timesource_input_status_get
* bcm_esw_ptp_tod_input_sources_get
* bcm_esw_ptp_tod_input_sources_set
* bcm_esw_ptp_tod_output_get
* bcm_esw_ptp_tod_output_remove
* bcm_esw_ptp_tod_output_set
* bcm_esw_ptp_transparent_clock_default_dataset_get
* bcm_esw_ptp_transparent_clock_port_dataset_get
* bcm_esw_ptp_unicast_request_duration_get
* bcm_esw_ptp_unicast_request_duration_max_get
* bcm_esw_ptp_unicast_request_duration_max_set
* bcm_esw_ptp_unicast_request_duration_min_get
* bcm_esw_ptp_unicast_request_duration_min_set
* bcm_esw_ptp_unicast_request_duration_set
* bcm_esw_esmc_tx
* bcm_esw_esmc_rx_callback_register
* bcm_esw_esmc_rx_callback_unregister
* bcm_esw_esmc_tunnel_get
* bcm_esw_esmc_tunnel_set
* bcm_esw_esmc_g781_option_get()
* bcm_esw_esmc_g781_option_set()
* bcm_esw_esmc_QL_SSM_map
* bcm_esw_esmc_SSM_QL_map
* bcm_esw_tdpll_dpll_bindings_get
* bcm_esw_tdpll_dpll_bindings_set
* bcm_esw_tdpll_dpll_reference_get

* bcm_esw_tdpll_dpll_bandwidth_get
* bcm_esw_tdpll_dpll_bandwidth_set
* bcm_esw_tdpll_dpll_phase_control_get
* bcm_esw_tdpll_dpll_phase_control_set
* bcm_esw_tdpll_input_clock_control
* bcm_esw_tdpll_input_clock_mac_get
* bcm_esw_tdpll_input_clock_mac_set
* bcm_esw_tdpll_input_clock_frequency_error_get
* bcm_esw_tdpll_input_clock_threshold_state_get
* bcm_esw_tdpll_input_clock_enable_get
* bcm_esw_tdpll_input_clock_enable_set
* bcm_esw_tdpll_input_clock_l1mux_get
* bcm_esw_tdpll_input_clock_l1mux_set
* bcm_esw_tdpll_input_clock_valid_get
* bcm_esw_tdpll_input_clock_valid_set
* bcm_esw_tdpll_input_clock_frequency_get
* bcm_esw_tdpll_input_clock_frequency_set
* bcm_esw_tdpll_input_clock_ql_get
* bcm_esw_tdpll_input_clock_ql_set
* bcm_esw_tdpll_input_clock_priority_get
* bcm_esw_tdpll_input_clock_priority_set
* bcm_esw_tdpll_input_clock_lockout_get
* bcm_esw_tdpll_input_clock_lockout_set
* bcm_esw_tdpll_input_clock_monitor_interval_get
* bcm_esw_tdpll_input_clock_monitor_interval_set
* bcm_esw_tdpll_input_clock_monitor_threshold_get
* bcm_esw_tdpll_input_clock_monitor_threshold_set
* bcm_esw_tdpll_input_clock_ql_enabled_get
* bcm_esw_tdpll_input_clock_ql_enabled_set
* bcm_esw_tdpll_input_clock_revertive_get
* bcm_esw_tdpll_input_clock_revertive_set
* bcm_esw_tdpll_input_clock_best_get
* bcm_esw_tdpll_input_clock_monitor_cb_register
* bcm_esw_tdpll_input_clock_monitor_cb_unregister
* bcm_esw_tdpll_input_clock_selector_cb_register
* bcm_esw_tdpll_input_clock_selector_cb_unregister
* bcm_esw_tdpll_output_clock_enable_get
* bcm_esw_tdpll_output_clock_enable_set
* bcm_esw_tdpll_output_clock_synth_frequency_get
* bcm_esw_tdpll_output_clock_synth_frequency_set
* bcm_esw_tdpll_output_clock_deriv_frequency_get
* bcm_esw_tdpll_output_clock_deriv_frequency_set
* bcm_esw_tdpll_output_clock_holdover_data_get
* bcm_esw_tdpll_output_clock_holdover_frequency_set
* bcm_esw_tdpll_output_clock_holdover_mode_get
* bcm_esw_tdpll_output_clock_holdover_mode_set
* bcm_esw_tdpll_output_clock_holdover_reset
* bcm_esw_tdpll_esmc_rx_state_machine

```
*      bcm_esw_tdpll_esmc_ql_get
*      bcm_esw_tdpll_esmc_ql_set
*      bcm_esw_tdpll_esmc_holdover_ql_get
*      bcm_esw_tdpll_esmc_holdover_ql_set
*      bcm_esw_tdpll_esmc_mac_get
*      bcm_esw_tdpll_esmc_mac_set
*      bcm_esw_tdpll_esmc_rx_enable_get
*      bcm_esw_tdpll_esmc_rx_enable_set
*      bcm_esw_tdpll_esmc_tx_enable_get
*      bcm_esw_tdpll_esmc_tx_enable_set
*      bcm_esw_tdpll_esmc_rx_portbitmap_get
*      bcm_esw_tdpll_esmc_rx_portbitmap_set
*      bcm_esw_tdpll_esmc_tx_portbitmap_get
*      bcm_esw_tdpll_esmc_tx_portbitmap_set
*
*      Private Interface functions
*     _bcm_esw_ptp_hw_clear(int unit)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ptp/ptp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv6.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv6.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  eagle_tsc_usr_includes.h                                    *
*  Created On    :  05/07/2014                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: eagle_tsc_usr_includes.h 898 2015-02-04 23:22:17Z eroes $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                     *
*      Broadcom Corporation                                                       *
*      5300 California Avenue                                                     *
```

```
*     Irvine, CA  92617                                        *
*                                                              *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pss.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_pss.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_mgmt.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_fdt.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_fdt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lock.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* This file contains locking definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/lock.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsLnaPortRemapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaPortRemapEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_intr.c,v 1.87 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_intr_init.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: tdm_ap_llist.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip linked list methods
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_llist.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!

* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dfe_dispatch.h
* Purpose: dfe driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe_dispatch.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibVRTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVRTConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_fifo_type.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FIFO TYPES H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/dfe_fifo_type.h
No license file was found, but licenses were detected in source scan.

/* $Id: sand_mem_access.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_mem_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_mem_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: custom.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Custom callouts
* Mostly useful for running customized composite apis over remote units.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/custom.c
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------
**
** $Id: sbDq.h,v 1.8 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbDq.h: doubly linked lists
**
** ----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbDq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_flow_control.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
```

* Copyright 2014-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License"). Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO
YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/demos/mem_test_demo.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  falcon_tsc_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: falcon_tsc_functions.h 1282 2015-12-04 12:20:52Z eroes $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_functions.h
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

FEATURE_LIST := CINT L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE TCL BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU ATPTRANS_SOCKET DUNE_UI INTR APIMODE PTP KBP

DEBUG_CFLAGS=-Wdeclaration-after-statement

BCM_PTL_SPT=1

ALL_DPP_CHIPS = 1
ALL_DFE_CHIPS = 1

KERN_VER=3.7.10

CFGFLAGS += -DSTATIC=static
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
```

```
CFGFLAGS += -DBCM_EASY_RELOAD_WB_COMPAT_SUPPORT
CFGFLAGS += -DBCM_CONTROL_API_TRACKING
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
CFGFLAGS += -DPHYS_ADDRS_ARE_64BITS -DSAL_BDE_32BIT_USER_64BIT_KERNEL
CFGFLAGS += -D_SIMPLE_MEMORY_ALLOCATION_=0 -DUSE_LINUX_BDE_MMAP=1
CFGFLAGS += -DSCACHE_CRC_CHECK

CFGFLAGS += -DSW_STATE_ISSU_TEST_WARMBOOT

CFGFLAGS += -DBROADCOM_SVK

KBP_DEVICE := KBP_ALG

VENDOR_LIST=CUSTOMER78 BROADCOM DNX
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/dnx/Make.custom.wrx_sw_state_issu
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.h,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.h
* Purpose:    Definitions for BFD.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bfd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fe1600_mbcm.c
* Purpose:    Init the bcm multiplexing function table for FE1600
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/mbcm.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_chip_defines.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_chip_defines.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etcgmac.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Gigabit Ethernet MAC defines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/etcgmac.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-4x10g_18x1g-ilkn50.bcm,v 1.1.2.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 4x10G+18x1G setup
#

## TBD: what's the laneswap and polarity for ge ports?
##

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

#
# ucode ports definition
# - how to define hg10 ports and channels on it
#
ucode_num_ports.0=22
ucode_port.port1.0=clport0.ge.0.0:il1.il50n.0.0
ucode_port.port2.0=clport0.ge.0.1:il1.il50n.0.1
```

```
ucode_port.port3.0=clport0.xe.0.2:il1.il50n.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il50n.0.3
ucode_port.port5.0=clport0.xe.1.0:il1.il50n.0.4
ucode_port.port6.0=clport0.xe.1.1:il1.il50n.0.5
ucode_port.port7.0=xtport1.ge.0.8:il1.il50n.0.6
ucode_port.port8.0=xtport1.ge.0.9:il1.il50n.0.7
ucode_port.port9.0=xtport1.ge.0.10:il1.il50n.0.8
ucode_port.port10.0=xtport1.ge.0.11:il1.il50n.0.9
ucode_port.port11.0=xtport2.ge.0.0:il1.il50n.0.10
ucode_port.port12.0=xtport2.ge.0.1:il1.il50n.0.11
ucode_port.port13.0=xtport2.ge.0.2:il1.il50n.0.12
ucode_port.port14.0=xtport2.ge.0.3:il1.il50n.0.13
ucode_port.port15.0=xtport2.ge.0.4:il1.il50n.0.14
ucode_port.port16.0=xtport2.ge.0.5:il1.il50n.0.15
ucode_port.port17.0=xtport2.ge.0.6:il1.il50n.0.16
ucode_port.port18.0=xtport2.ge.0.7:il1.il50n.0.17
ucode_port.port19.0=xtport2.ge.0.8:il1.il50n.0.18
ucode_port.port20.0=xtport2.ge.0.9:il1.il50n.0.19
ucode_port.port21.0=xtport2.ge.0.10:il1.il50n.0.20
ucode_port.port22.0=xtport2.ge.0.11:il1.il50n.0.21

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

#lane mapping for wc0
xgxs_rx_lane_map_hg0=0x1230
xgxs_tx_lane_map_hg0=0x1032

#lane mapping for wc1
xgxs_rx_lane_map_xe2=0x1032
xgxs_tx_lane_map_xe2=0x3210

#lane mapping for wc2
xgxs_rx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge0=0x3210

#polarity flip for 10G ports
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg1=0x0000
phy_xaui_rx_polarity_flip_xe0=0x0000
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg1=0x0001
phy_xaui_tx_polarity_flip_xe0=0x0000
```

```
phy_xaui_tx_polarity_flip_xe1=0x0000
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001

phy_xaui_rx_polarity_flip_ge=0x0001

serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2

phy_port_primary_and_offset_ge2=0x2000
phy_port_primary_and_offset_ge3=0x2001
phy_port_primary_and_offset_ge4=0x2002
phy_port_primary_and_offset_ge5=0x2003
phy_port_primary_and_offset_ge6=0x2004
phy_port_primary_and_offset_ge7=0x2005
phy_port_primary_and_offset_ge8=0x2006
phy_port_primary_and_offset_ge9=0x2007
phy_port_primary_and_offset_ge10=0x2800
phy_port_primary_and_offset_ge11=0x2801
phy_port_primary_and_offset_ge12=0x2802
phy_port_primary_and_offset_ge13=0x2803
phy_port_primary_and_offset_ge14=0x2804
phy_port_primary_and_offset_ge15=0x2805
phy_port_primary_and_offset_ge16=0x2806
phy_port_primary_and_offset_ge17=0x2807
phy_fiber_pref_ge=1
phy_automedium_ge=1

#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1
```

```
#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0

#
# ddr tuning result, auto-generated then saved
#
ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
```

ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2

ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_18x1g-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: multicast.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains multicast definitions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/multicast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/pkt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_eval_asts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_eval_asts.h
* Purpose: CINT AST evaluator interfaces
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_asts.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2cache.c,v 1.19 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 Cache - Layer 2 BPDU and overflow address cache
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/l2cache.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCBSEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPoliceCBSEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_drv.h,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DRV H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: appl_dcmn_intr.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dcmn/interrupts/dcmn_intr.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
```

```
* $Id: tefmod_diagnostics.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* Copyright: (c) 2012 Broadcom Corp.
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : tefmod_diagnostics.c
* Description: C sequences which utilize tier1s to build configurations
*              which target only the diagnostic features of the Serdes
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpBfPriTableAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
-------------------------------------------------------------------------------
    Notes on Configuration Properties
   Curt McDowell, Broadcom Corp. 12-12-02
    Last Updated: 12-12-02
-------------------------------------------------------------------------------

There are many configuration parameters called "properties" available to
the driver to customize its behavior.  These parameters have been
```

grouped into one place for two reasons:

* Have a common place to customize all aspects of driver operation without having the parameters sprinkled all around the driver code.

* Allow optional run-time modification of these parameters so the driver can be customized without recompiling an image.

A property is name=value pair where both name and value are strings. For most properties, the value is parsed as a numeric and can be formatted in decimal, or in hex with a '0x' prefix, similar to a constant in the C language. For example,

```
mmu_sdram_enable=1
```

Each property has a default value that is compiled into the driver and takes effect if the property is not customized.

To allow different property values for different units or chips, each property is looked up with the following suffixes in order:

Suffix	Example
.<unit-num>	mmu_sdram_enable.0
.<CHIP_TYPE>	mmu_sdram_enable.BCM5680_B0
.<CHIP_GROUP>	mmu_sdram_enable.BCM5680
<nothing>	mmu_sdram_enable

The per-port properties are looked up with various port related suffixes in the following order:

Suffix	Example
_<port_name>	phy_null_fe0
_<port_type>	phy_null_fe
_<port_number>	phy_null_port1
<nothing>	phy_null

Port numbers start are counted from 1 up to the number of enabled ports on the chip.

The per-port properties also have the unit or chip based suffixes described above added as well, so:

Example	Meaning
phy_null	applies to all ports on all units
phy_null_fe	applies to fast ethernet ports on all units

phy_null_fe3.1 applies to port fe3 on unit 1

All of the supported properties can be found in the file
$SDK/rc/config.bcm, along with a comment explaining the purpose of the
property and the default value of the property. Lines in config.bcm
that are preceded by a pound sign (#) are comments. In general, all of
the properties are commented out, so their default value will take
effect. They must be uncommented to change the value.

The values of properties are set in three ways:

* First, the Makefiles distributed with the SDK software allow the
 values of chosen properties to compiled into the driver so they are
 preset at the time of driver initialization.

* Second, if the appropriate support is provided in the User SAL,
 additional properties are then loaded from the file "flash:config.bcm"
 at runtime. This is great for customizing per platform or CPU board
 for testing.

* Third, if the BCM Diagnostics Shell is compiled in, property values
 may be changed from the command line using the "config" command:

 config <name>=<value> Set value of existing property
 config add <name>=<value> Must use 'add' if not already there
 config delete <name> Remove property (restore default)
 config save   Save changes to non-volatile storage

 If the value of a property is changed in this way, it may take effect
 immediately, or upon re-initializing (rc.soc), or upon rebooting the
 system. Which one is dependent on the particular property.

The Makefiles distributed with the SDK software provide a way to compile
into the application the default values of various properties. This is
also useful to permanently fix the properties will be never loaded at
runtime because there is no flash device to store the config.bcm file or
no user SAL support for file operations.

During the build process, the Makefile in $SDK/make/Make.vxworks
processes the contents of $SDK/rc/config.bcm through a PERL script found
in $SDK/tools/bcm2c.pl. Any properties that are NOT commented out are
converted to a C function call to set the property, for example

 sal_config_set("name", "value")

These function calls are placed in the routine
sal_config_init_defaults() in a file named platform_defines.c in the
build directory $SDK/build/vxworks-<platform>, and subsequently

compiled into platform_defines.o and linked in. The routine
sal_config_init_defaults() is called during SAL initialization.

It is also possible for the user to simply add calls to sal_config_set()
in the code where sal_config_init_defaults() would normally be called.

In the standard SDK, the soc_property routines, found in $SDK/src/drv.c,
are implemented using the SAL Config module and the routines
sal_config_set/reg found in the User SAL.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/properties.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmd.c,v 1.41.14.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    cmd.c
* Purpose: Caladan3 on TMU command manager
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/sbx/caladan3/tmu/cmd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th2_ovsb.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core oversub algorithms
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/esw/tdm/tomahawk2/tdm_th2_ovsb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tk371x.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     tk371x.h
```

* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: thread.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: thread.h
* Purpose: SAL thread definitions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/thread.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC JER INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_intr_db.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fap21v_acc_lbp.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_lbp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptp.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* Management message proprietary message TLV minimum payload size (octets). */
/* Management message proprietary message TLV indexed-get payload size (octets). */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/ptp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_vsi.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_vsi.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: ped_h.stg,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_ped.h: Guadalupe3k V1.0 PED configuration
*
* DO NOT EDIT THIS FILE!
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_ped.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/trunk.c
```

```
* Purpose: BCMX Trunk APIs
*
* BCMX trunking takes place on switch ports, not fabric ports.
* Fabric port trunking may be controlled by the stack/toppology
* code, so we are careful to skip any fabric devices and ports.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyctrl.c,v 1.160 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch PHY control API
* All access to PHY drivers should call the following soc functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/phyctrl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: if.c,v 1.77 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Network interface configuration routines and support utilities.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/if.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_egr_queuing.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ccmdma_test.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CCM DMA Test
*
* The CCM DMA test transfers a source memory to a destination memory with one
* or more CMC in parallel. The memories can be internal or external. First, the
* test initializes the source memory with random values. Then, it kicks off one
* or more CCM DMA transfer from the source memory to the destination memory.
* Data integrity check is done by comparing the source and destination
* memories. The CCM DMA performance in calculated by dividing the number of CCM
* DMA performed x the CCM DMA transfer size by the duration of the performance
* test.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ccmdma_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2u.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS3 L2 User Table Manipulation API routines.
*
* The L2 User Table (L2_USER_ENTRY) is used for various
* purposes including:
*
*  - L2 table overflow
*  - BPDU addresses
*  - 802.1 reserved addresses
*  - L2 address blocks (using MAC address mask)
*
* The table is segmented into two parts of which the
* first is referenced by index, and the second is not.
* This segmentation is implemented to facilitate
* different requirements from the BCM API functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/l2u.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c24LC128Eeprom.c,v 1.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2c24LC128Eeprom.c
No license file was found, but licenses were detected in source scan.

/* $Id: cop_ut.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/cop_ut.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: multicast.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Multicast API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/multicast.c
No license file was found, but licenses were detected in source scan.

/* $Id: romInit.s,v 1.5 2011/07/21 16:14:55 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/romInit.s
No license file was found, but licenses were detected in source scan.

#/*----------

```
# * $Id: 1g_6p25.soc  $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *----------------------------------------------------------------------
# * File       : 1g_6p25.soc
# * Description: 1g_6p25 cfg
# *----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
phy raw sbus $port 0.0 0x9010 0x0000
sleep 1;

phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010



# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x0002
phy raw sbus $port 1.0 0xd127

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.0 0xd0f4 0x2271
phy raw sbus $port 1.0 0xd0f4

# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.0 0xd080 0x8005
phy raw sbus $port 1.0 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.0 0xd081 0x0002
```

```
phy raw sbus $port 1.0 0xd081


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc113 0x01cb
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.0 0xc050 0x0003
phy raw sbus $port 0.0 0xc050

phy raw sbus $port 0.0 0xc050 0x0103
phy raw sbus $port 0.0 0xc050

# PMD LOOPBACK
#phy raw sbus $port 1.0 0xd0d2 0x7
#phy raw sbus $port 1.0 0xd0d2

sleep 2;

phy raw sbus $port 0.0 0xc154 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/1g_6p25.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_appl_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement CallBacks function for JER interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allenum.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allenum.h
* Purpose:     Enumerated types for fields, memories, registers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/allenum.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53115_a0.c
* Purpose: bcm53115_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53115_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_stat_if.h,v 1.5 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_stat_if.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbx.c,v 1.452.14.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sbx.c
* Purpose: First cut at some sbx commands
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbx.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_vmac_pon.c,v 1.1 xfei Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_field_vmac.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wcmod.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/***
* Copyright (c) 1999-2011, Broadcom Corporation
* All Rights Reserved
* Confidential Property of Broadcom Corporation
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE

```
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:         Generated on        Wed Mar 23 13:01:57 2011
*             MD5 Checksum        a433b61bdcdcc8e6907c47d873908d98
*
* Compiled with:  RDB Utility         5.0
*             RDB Parser          3.0
*             rdb2macro.pm        4.0
*             Perl Interpreter    5.008008
*             Operating System    linux
*
* Spec Versions:  BAM_NextPage        1
*             CL73_UserB0         1
*             EEEtimerB0          1
*             EEEuserB0           1
*             EEEuserB1           1
*             ETA                 1
*             GP2                 1
*             RemotePhy           1
*             aer                 1
*             cl49user            1
*             cl72_userBlk0       1
*             cl72_userBlk1       1
*             cl72ieee            1
*             cl82user            1
*             cl82user_b1         1
*             comboDigital        1
*             digital5            1
*             dsc_1               1
*             dsc_2               1
*             dsc_3               1
*             dsc_4               1
*             dsc_5               1
*             dsc_6               1
*             dummy               1
*             efecuser            1
```

```
*           fx100           1
*           ieee_an         1
*           ieee_cl22       1
*           ieee_dte        1
*           ieee_pcs        1
*           ieee_phy        1
*           ieee_pmd        1
*           micro           1
*           micro_Tmp1      1
*           micro_Tmp2      1
*           over1G          1
*           pat_gen0        1
*           pat_gen1        1
*           rx66            1
*           rx66b1          1
*           rxBert          1
*           tx66            1
*           txBert          1
*           xfi_bd0         1
*           xfi_bd1         1
*           xgxs            1
*           xgxsBlk0        1
*           xgxsBlk1        1
*           xgxsBlk10       1
*           xgxsBlk2        1
*           xgxsBlk3        1
*           xgxsBlk4        1
*           xgxsBlk5        1
*           xgxsBlk6        1
*           xgxsBlk7        1
*           xgxsBlk8        1
*           xgxsBlk9        1
*
* RDB Files:  /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/wc40_ALL.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieeeBlocks.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl22Regs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl45pmdRegs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/fecieee_common.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl45pcsRegs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl49ieee_common.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl82ieee_common.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl45phyRegs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl45dteRegs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ieee_cl45anRegs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl72_ieee_regs.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/wc40_userBlocks.rdb
*           /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock0_regs.rdb
```

```
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock1_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock2_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/TxBert_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/RxBert_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock3_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock4_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/gpStatus_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock5_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock6_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock7_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock8_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock9_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlock10_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsBlocks.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsPll_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/analogPll_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsTx_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/analogTx_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xgxsRx_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/analogRx_types.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/wc_IDregs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/micro_Tmp1_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/micro_Tmp2_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/GP2_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_1_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_2_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_3_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_4_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_5_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/dsc_6_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl72_userBlk0_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl72_userBlk1_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/comboDigital_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/over1G_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/RemotePhy_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/digital5_regs.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*       /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/BAM_NextPage_regs.rdb
```

```
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl49user_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl49user_common.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/CL73_UserB0_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/efecuser_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/EEEuserB0_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/EEEuserB1_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/tx66_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/rx66_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/rx66b1_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/fx100_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/EEEtimerB0_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl82_user_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl82user_common.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl82_user_b1_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/cl82user_common.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/ETA_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xfi_CD0Block_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/xfi_CD1Block_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/micro_regs.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/aerBlock.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_inc.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/pat_gen0_256.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/pat_gen1_256.rdb
*          /projects/SERDES_040_ext6/Revision/revC0/team/ravick/doc/rdb/common_userBlocks.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv4_test.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: driver.h,v 1.3 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       driver.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/driver.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_cnt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_cnt.h
*
* MODULE PREFIX:  soc_tmccnt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_cnt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enet.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This header file defines packet formats for Ethernet and Broadcom stacking.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/enet.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabWredParameters.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabWredParameters.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabWredParameters.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/cosq.c
* Purpose: BCMX Class of Service Queue APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tsc_functions.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/tsc_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_gen_err.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* This file includes the generation of fake error for partial init.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_gen_err.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmxdiag/port.c
* Purpose:    Implement bcmx port command
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: completion.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       completion.c
* Purpose:    API mode completion
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/completion.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: celldata.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       celldata.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/celldata.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop.c,v 1.33.24.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    cop.c
* Purpose: Caladan3 COP drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/cop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_dfe_cpu_packets.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE configure FIFOs example:
*
* This cint demonstrates how to use the CPU2CPU packets mechanism available in the fe3200:
* start function will register a callback function , and start the main thread for rx reception
* stop function will stop the thread, and unregister the callback function
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_dfe_cpu_packets.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-1x40g-8x10g-hg127.bcm,v 1.1.2.1 Broadcom SDK $
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

# run g3p1 ucode
diag_emulator_partial_init=0
```

```
#lrp_bypass=2
load_firmware=0x1

line_pr_buffer_profile=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# ucode port definition
ucode_num_ports.0=9
ucode_port.port1.0=clport0.xle.0.0:clport1.hg126.0.0
ucode_port.port5.0=clport0.xe.1.0:clport1.hg126.0.1
ucode_port.port6.0=clport0.xe.1.1:clport1.hg126.0.2
ucode_port.port7.0=clport0.xe.1.2:clport1.hg126.0.3
ucode_port.port8.0=clport0.xe.1.3:clport1.hg126.0.4
ucode_port.port9.0=clport0.xe.2.0:clport1.hg126.0.5
ucode_port.port10.0=clport0.xe.2.1:clport1.hg126.0.6
ucode_port.port11.0=clport0.xe.2.2:clport1.hg126.0.7
ucode_port.port12.0=clport0.xe.2.3:clport1.hg126.0.8


# C3 Line side
# 40G xe port lane map
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032
xgxs_rx_lane_map_xe5=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe5=0x1032

# 40G xe rx/tx polarity
phy_xaui_rx_polarity_flip_xe0=0x0009
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0000
phy_xaui_rx_polarity_flip_xe8=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0003
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
```

```
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0000
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0001

#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

higig2_hdr_mode_hg0=1

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
```

ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999
ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a

```
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1x40g_8x10g-hg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmPortsetInfoEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmPortsetInfoEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:           Generated on         Mon Jun  8 16:48:39 2015
*               MD5 Checksum         aa6f8a52532334e5d986d273d2283ed2
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.014001
*               Operating System     linux
*
* Spec Versions:  an_x1_control        1
*               an_x1_sw_mgmt        1
*               an_x1_timers         1
*               an_x4_abilities      1
*               an_x4_status         1
*               an_x4_sw_mgmt        1
*               cl82                 1
*               cl82_am              1
*               cl82_shared          1
*               ieee0_cl22           1
*               ilkn_x4_control0     1
*               ilkn_x4_status0      1
*               main0                1
*               pmd_x1               1
*               pmd_x4               1
```

```
*           rx_x1_control0      1
*           rx_x1_ecc           1
*           rx_x1_status0       1
*           rx_x2_control0      1
*           rx_x4_cl91_status0  1
*           rx_x4_cl91_status1  1
*           rx_x4_control0      1
*           rx_x4_ecc           1
*           rx_x4_fec_control   1
*           rx_x4_status0       1
*           rx_x4_status1       1
*           rx_x4_status2       1
*           rx_x4_status3       1
*           rx_x4_status4       1
*           rx_x4_status5       1
*           sc_x1_control       1
*           sc_x1_speed_override01
*           sc_x1_speed_override11
*           sc_x1_speed_override21
*           sc_x1_speed_override31
*           sc_x4_control       1
*           sc_x4_field_override_enable1
*           sc_x4_final_config_status1
*           test1               1
*           testshared0         1
*           testshared1         1
*           tx_x1_control0      1
*           tx_x2_control0      1
*           tx_x2_status0       1
*           tx_x4_control0      1
*           tx_x4_credit_gen0   1
*           tx_x4_status0       1
*
* RDB Files:  /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/WC4_TSC_ALL.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/ieee0_cl22_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/testshared0_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/testshared1_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/cl82_shared_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/cl82_am_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/test1_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/main0_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x1_control0_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x1_ecc_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x1_status0_regs.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*           /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/pmd_x1_regs.rdb
```

```
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/pmd_x4_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x1_control_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x4_abilities_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x1_timers_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x4_status_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x4_sw_mgmt_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/an_x1_sw_mgmt_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/cl82_user_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x2_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x2_status0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x2_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x4_credit_gen0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x4_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x4_status0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_fec_control_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status1_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status2_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status3_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status4_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_status5_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_cl91_status0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_cl91_status1_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/tx_x1_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/ilkn_x4_control0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/ilkn_x4_status0_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/rx_x4_ecc_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x4_control_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_control_regs.rdb
*	/projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override0_regs.rdb
```

```
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override1_regs.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override2_regs.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override3_regs.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x4_final_config_status_regs.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/sc_x4_field_override_enable_regs.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/WC4_ieeeBlockCL22.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/WC4_userBlocks1.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/WC4_userBlocks2.rdb
*          /projects/TSC_ext6/alaleedh/tscf_16nm/tscf_16nm/rtl/rdb/WC4_userBlocks4.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tf16PCSRegEnums.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemFifoControlEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemFifoControlEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* VXLAN API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     BCMX RX API implementation
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/rx.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: falcon2_madura_common.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes APIs        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_common.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pat_tree.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/SOC_SAND/Utils/include/soc_sand_pat_tree.c
*
* MODULE PREFIX:  soc_sand_pat_tree
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_pat_tree.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.277 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     BCM56624 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/field.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************************
*******************************************************************************************
*  File Name     :  phy8806x_tsc_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: phy8806x_tsc_field_access.h 925 2015-02-24 23:23:58Z kirand $ *
*                                                                                *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                  *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_field_access.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_group_member_list.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver\SOC_SAND\Utils\src\soc_sand_group_member_list.c
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_group_member_list.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
*/
VxWorks/iProc Support
1. 2013 Add Katana2 support based on VxWorks 6.8.3
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/README
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_old_mirror_tests.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: An example of how to use BCM APIs to implement mirror function.
* Used for tests: AT_Cint_mirror_tests_1, AT_Cint_mirror_vlan_tests_1.
*
* Purpose: An example of how to use BCM APIs to implement mirror function.
* The example uses both inbound mirroring (according to ingress port/vlan),
* and outbound mirroring (according to egress/outbound port/vlan).
*
* Mirror Service Model:
*     Port 1  <------------------------  CrossConnect  ------------> Port 3
*      SVLAN 100 <--------------------------------------------------> SVLAN 200
* To Activate Above Settings:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_old_mirror_tests.c
*      BCM> cint
*      cint> print mirror_service(unit, up_port, down_port, up_svlan, down_svlan);
*      cint> print mirror_run(unit, in_port, out_port, mirror_port)
*      cint> print mirror_run_cleanup(unit, in_port, out_port)
*      cint> print mirror_vlan_run(unit, vlan, in_port, out_port, mirror_port)
*      cint> print mirror_vlan_run_cleanup(unit, vlan, in_port, out_port)
*      cint> print mirror_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_old_mirror_tests.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_pp_em_ser.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_pp_em_ser.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/tx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_intr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPT.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPT.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_diag.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv4OnlyConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashIPv4OnlyConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredDropNPart1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_k.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_k.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84334.h,v 1.1 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84334.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_evpn.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_evpn.c
* Purpose: Example of a EVPN application.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_evpn.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy8727c_ucode.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8727c_ucode.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_scheduler_ports.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_ports.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwWstEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWstEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwWstEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkNetIf.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: TkNetIf.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkNetIf.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allregs_f.i
* Purpose: Independent register descriptions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_f.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200NextPriMemEntry.c,v 1.4 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NextPriMemEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200NextPriMemEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_parser.c,v 1.43 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_parser.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: t_util.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: t_util.h
* Purpose: Useful transport macros
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/t_util.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_fabric_status.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 WARM BOOT H
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_warm_boot.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sw_state_tests.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sw_state_tests.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
*
* $Id: proxy-service.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/proxy-service.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_int.h,v 1.99 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/field_int.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_sorted_list.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* NAME:
*     soc_sand_sorted_list_tests
* TYPE:
*   PROC
* DATE:
*   May 19 2015
* FUNCTION:
*     Tests the sorted list module
*
*INPUT:
*  SOC_SAND_DIRECT:
*    SOC_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  SOC_SAND_INDIRECT:
*    None.
*OUTPUT:
*  SOC_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  SOC_SAND_INDIRECT:
*    NON
*REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_sorted_list.h
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
* $Id: wc40.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $brcm_Workfile: $
* $brcm_Revision: $
```

```
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on         Tue Aug 24 14:06:06 2010
*               MD5 Checksum         a7188d6d4cf83e4a3e1e6fe73bb6de35
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  BAM_NextPage         1
*               CL73_UserB0          1
*               EEEtimerB0           1
*               EEEuserB0            1
*               EEEuserB1            1
*               GP2                  1
*               RemotePhy            1
*               aer                  1
*               cl49user             1
*               cl72_userBlk0        1
*               cl72_userBlk1        1
*               cl72ieee             1
*               cl82user             1
*               cl82user_b1          1
*               comboDigital         1
*               digital5             1
*               dsc_1                1
*               dsc_2                1
*               dsc_3                1
*               dsc_4                1
*               dsc_5                1
*               fecuser              1
*               fx100                1
*               ieee_an              1
*               ieee_cl22            1
*               ieee_dte             1
*               ieee_pcs             1
*               ieee_phy             1
*               ieee_pmd             1
*               micro                1
```

```
*           micro_Tmp1          1
*           micro_Tmp2          1
*           over1G              1
*           rx66                1
*           rx66b1              1
*           rxBert              1
*           tx66                1
*           txBert              1
*           xfi_bd0             1
*           xfi_bd1             1
*           xgxs                1
*           xgxsBlk0            1
*           xgxsBlk1            1
*           xgxsBlk10           1
*           xgxsBlk2            1
*           xgxsBlk3            1
*           xgxsBlk4            1
*           xgxsBlk5            1
*           xgxsBlk6            1
*           xgxsBlk7            1
*           xgxsBlk8            1
*           xgxsBlk9            1
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2_pstat.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk2_pstat.c
* Purpose: Maintains all the debug information for pstat
*          feature for tomahawk2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/pstat/tomahawk2_pstat.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_header.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/DNX_SAND/Utils/include/dnx_sand_header.h
*
* MODULE PREFIX:  DNX_SAND
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_header.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_vec.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM vector library for core scheduler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/core/tdm_vec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_oam.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_oam.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_cos.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_cos.h
*
* MODULE PREFIX:  soc_ppc_api_llp_cos
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_cos.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pat_tree.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_pat_tree.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_pat_tree.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trap.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/trap.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:         Generated on        Mon Dec 14 16:10:09 2015
*               MD5 Checksum        c90f927043e2811c767c86b727285e9c
*
* Compiled with:  RDB Utility         5.0
*               RDB Parser          3.0
*               rdb2macro.pm        4.0
*               Perl Interpreter    5.008008
*               Operating System    linux
*
* Spec Versions:  an_x1_control       1
*               an_x1_timers        1
*               an_x4_abilities     1
*               an_x4_hw_lp_pages   1
*               an_x4_sw_management 1
*               cl72_user           1
*               cl82                1
*               cl82_am             1
*               cl82_am_tsc_12      1
*               cl82_shared         1
*               digital             1
*               generic             1
*               ieee0_cl22          1
```

```
*           ilkn_control0       1
*           ilkn_status0        1
*           main0               1
*           mem_dbg             1
*           mem_ecc             1
*           misc                1
*           pmd_x1              1
*           pmd_x4              1
*           rx_x1_control0      1
*           rx_x1_control1      1
*           rx_x2_control0      1
*           rx_x2_status0       1
*           rx_x4_control0      1
*           rx_x4_control0_tsc_121
*           rx_x4_status0       1
*           rx_x4_status0_tsc_12 1
*           rx_x4_status1       1
*           sc_x1_control       1
*           sc_x1_speed_override01
*           sc_x1_speed_override11
*           sc_x1_speed_override21
*           sc_x1_speed_override31
*           sc_x4_control       1
*           sc_x4_field_override_enable1
*           sc_x4_final_config_status1
*           test1               1
*           testshared0         1
*           testshared1         1
*           tx_x1_control0      1
*           tx_x1_status0       1
*           tx_x2_control0      1
*           tx_x2_status0       1
*           tx_x4_control0      1
*           tx_x4_credit_gen0   1
*           tx_x4_status0       1
*
* RDB Files:  /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/WC4_TSC_ALL.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/ieee0_cl22_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/pmd_x1_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/testshared0_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/testshared1_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/mem_ecc_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/mem_dbg_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/misc_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/an_x1_timers_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/cl82_shared_regs.rdb
*           /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/cl82_am_regs.rdb
```

```
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/cl82_am_tsc_12_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/cl82_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/main0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x1_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x1_control1_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x1_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x1_status0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/an_x1_control_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x2_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x2_status0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x2_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x2_status0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/gen_per_lane_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/pmd_x4_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/test1_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x4_credit_gen0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x4_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/tx_x4_status0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x4_control0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x4_status0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x4_status1_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x4_control0_tsc_12_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/rx_x4_status0_tsc_12_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/an_x4_abilities_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/an_x4_hw_lp_pages_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/an_x4_sw_management_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/digital_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/cl72_user_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_control_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x4_control_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override0_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override_common.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override1_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override_common.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override2_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override_common.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override3_regs.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override_common.rdb
*       /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
```

```
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x4_final_config_status_regs.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/sc_x4_field_override_enable_regs.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/ilkn_control0_regs.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/ilkn_status0_regs.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/WC4_ieeeBlockCL22.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/WC4_userBlocks1.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/WC4_userBlocks2.rdb
*          /projects/TSC_ext8/amarachi/tsceg3/tsce_g3/rtl/rdb/WC4_userBlocks4.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/tedpll_PCSRegEnums.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv6.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmrangemgr_refapp2.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp2/nlmrangemgr_refapp2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $id cint_field_reflector_1pass.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* RFC2544 1-Pass Reflector:
* This is an example of how to use a single pass reflector with PMF programmable
* selection. This feature uses ingress PMF to identify and trap the reflected
* packets, egress PMF to identify these trapped packets and enable the DA/SA
* swapping before the packet leaves back to the port from which it arrived.
*
* This feature requires the soc property
* custom_feature_rfc2544_reflector_mac_swap_1pass=1
*
* In order to use this example, call:
* > cint utility/cint_utils_field.c
* > cint cint_field_programmable_reflector.c
* > cint
* > reflector_1pass_example(0, port, vlan);
*
* Packets sent to the egress device with Outer-VLAN=123 would be echoed
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_reflector_1pass.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: x1240RtcEeprom.c,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/x1240RtcEeprom.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pp_config2.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_pp_config2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredAvQlenTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredAvQlenTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Cint file to configure ingress chip to support connecting with NP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_connect_to_np_vpws.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassPortEnablesEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassPortEnablesEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: smm665.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Device Driver for Summit SMM665C Active DC Control
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/i2c/smm665.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_diagnostics.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_diagnostics.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_sweep_app_b.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_sweep_app_b.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/phymod_access_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_diag.h,v 1.2.12.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 DEFS H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_memory.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_memory.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2AEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2AEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STG definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/stg.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/phy8806x/src/phy8806x_tests.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/src/phy8806x_ctr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/src/phy8806x_funcs.c
No license file was found, but licenses were detected in source scan.

```
# $Id: scsanity.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Scorpion/Conqueror Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
```

```
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

echo "Running CPU Benchmarks ..."
tr 21
$done

init soc; init misc; init mmu;

if $?BCM56720_A0 || $?BCM56721_A0 || $?BCM56725_A0 || \
  $?BCM56720_B0 || $?BCM56721_B0 || $?BCM56725_B0 \
      'local fabric 1'

echo "Running Switching Memory Tests ..."
set rct=false
echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
```

```
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
```

```
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
```

```
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
```

```
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
```

```
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
echo " CBPPKTHEADERCPU";
tr 50 M=CBPPKTHEADERCPU;
tr 51 M=CBPPKTHEADERCPU;
tr 52 M=CBPPKTHEADERCPU;
echo " CBPPKTLENGTH";
tr 50 M=CBPPKTLENGTH;
tr 51 M=CBPPKTLENGTH;
tr 52 M=CBPPKTLENGTH;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
```

```
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
echo " IPMC_VLAN_MEM0";
tr 50 M=IPMC_VLAN_MEM0;
tr 51 M=IPMC_VLAN_MEM0;
tr 52 M=IPMC_VLAN_MEM0;
echo " IPMC_VLAN_MEM1";
tr 50 M=IPMC_VLAN_MEM1;
tr 51 M=IPMC_VLAN_MEM1;
tr 52 M=IPMC_VLAN_MEM1;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
```

```
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
```

```
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
```

```
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
echo " PORT";
tr 50 M=PORT;
```

```
tr 51 M=PORT;
tr 52 M=PORT;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
```

```
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
if !$?bypass \
    'echo " DSCP_TABLE"; \
    tr 50 M=DSCP_TABLE; \
    tr 51 M=DSCP_TABLE; \
    tr 52 M=DSCP_TABLE; \
    echo " EFP_COUNTER_TABLE"; \
    tr 50 M=EFP_COUNTER_TABLE; \
    tr 51 M=EFP_COUNTER_TABLE; \
    tr 52 M=EFP_COUNTER_TABLE; \
    echo " EFP_COUNTER_TABLE_X"; \
    tr 50 M=EFP_COUNTER_TABLE_X; \
    tr 51 M=EFP_COUNTER_TABLE_X; \
    tr 52 M=EFP_COUNTER_TABLE_X; \
    echo " EFP_COUNTER_TABLE_Y"; \
    tr 50 M=EFP_COUNTER_TABLE_Y; \
    tr 51 M=EFP_COUNTER_TABLE_Y; \
    tr 52 M=EFP_COUNTER_TABLE_Y; \
    echo " EFP_METER_TABLE"; \
    tr 50 M=EFP_METER_TABLE; \
    tr 51 M=EFP_METER_TABLE; \
    tr 52 M=EFP_METER_TABLE; \
    echo " EFP_METER_TABLE_X"; \
    tr 50 M=EFP_METER_TABLE_X; \
    tr 51 M=EFP_METER_TABLE_X; \
    tr 52 M=EFP_METER_TABLE_X; \
    echo " EFP_METER_TABLE_Y"; \
    tr 50 M=EFP_METER_TABLE_Y; \
    tr 51 M=EFP_METER_TABLE_Y; \
    tr 52 M=EFP_METER_TABLE_Y; \
    echo " EFP_POLICY_TABLE"; \
    tr 50 M=EFP_POLICY_TABLE; \
    tr 51 M=EFP_POLICY_TABLE; \
    tr 52 M=EFP_POLICY_TABLE; \
    echo " EFP_TCAM"; \
    tr 50 M=EFP_TCAM; \
    tr 51 M=EFP_TCAM; \
    tr 52 M=EFP_TCAM;'
if !$?bypass \
    'echo " EGR_DSCP_ECN_MAP"; \
    tr 50 M=EGR_DSCP_ECN_MAP; \
    tr 51 M=EGR_DSCP_ECN_MAP; \
    tr 52 M=EGR_DSCP_ECN_MAP; \
```

```
        echo " EGR_DSCP_TABLE"; \
        tr 50 M=EGR_DSCP_TABLE; \
        tr 51 M=EGR_DSCP_TABLE; \
        tr 52 M=EGR_DSCP_TABLE; \
        echo " EGR_EM_MTP_INDEX"; \
        tr 50 M=EGR_EM_MTP_INDEX; \
        tr 51 M=EGR_EM_MTP_INDEX; \
        tr 52 M=EGR_EM_MTP_INDEX; \
        echo " EGR_ERSPAN"; \
        tr 50 M=EGR_ERSPAN; \
        tr 51 M=EGR_ERSPAN; \
        tr 52 M=EGR_ERSPAN; \
        echo " EGR_IP_TUNNEL"; \
        tr 50 M=EGR_IP_TUNNEL; \
        tr 51 M=EGR_IP_TUNNEL; \
        tr 52 M=EGR_IP_TUNNEL; \
        echo " EGR_IP_TUNNEL_IPV6"; \
        tr 50 M=EGR_IP_TUNNEL_IPV6; \
        tr 51 M=EGR_IP_TUNNEL_IPV6; \
        tr 52 M=EGR_IP_TUNNEL_IPV6; \
        echo " EGR_L3_INTF"; \
        tr 50 M=EGR_L3_INTF; \
        tr 51 M=EGR_L3_INTF; \
        tr 52 M=EGR_L3_INTF; \
        echo " EGR_L3_NEXT_HOP"; \
        tr 50 M=EGR_L3_NEXT_HOP; \
        tr 51 M=EGR_L3_NEXT_HOP; \
        tr 52 M=EGR_L3_NEXT_HOP; \
        echo " EGR_PRI_CNG_MAP"; \
        tr 50 M=EGR_PRI_CNG_MAP; \
        tr 51 M=EGR_PRI_CNG_MAP; \
        tr 52 M=EGR_PRI_CNG_MAP; \
        echo " EGR_VLAN_XLATE"; \
        tr 50 M=EGR_VLAN_XLATE; \
        tr 51 M=EGR_VLAN_XLATE; \
        tr 52 M=EGR_VLAN_XLATE; \
        echo " EGR_VLAN_XLATE_SCRATCH"; \
        tr 50 M=EGR_VLAN_XLATE_SCRATCH;'
    if !$?bypass \
        'echo " FP_COUNTER_TABLE_X"; \
        tr 50 M=FP_COUNTER_TABLE_X; \
        tr 51 M=FP_COUNTER_TABLE_X; \
        tr 52 M=FP_COUNTER_TABLE_X; \
        echo " FP_COUNTER_TABLE_Y"; \
        tr 50 M=FP_COUNTER_TABLE_Y; \
        tr 51 M=FP_COUNTER_TABLE_Y; \
        tr 52 M=FP_COUNTER_TABLE_Y; \
        echo " FP_METER_TABLE"; \
```

```
        tr 50 M=FP_METER_TABLE; \
        tr 51 M=FP_METER_TABLE; \
        tr 52 M=FP_METER_TABLE; \
        echo " FP_POLICY_TABLE"; \
        tr 50 M=FP_POLICY_TABLE; \
        tr 51 M=FP_POLICY_TABLE; \
        tr 52 M=FP_POLICY_TABLE; \
        echo " FP_PORT_FIELD_SEL"; \
        tr 50 M=FP_PORT_FIELD_SEL; \
        tr 51 M=FP_PORT_FIELD_SEL; \
        tr 52 M=FP_PORT_FIELD_SEL; \
        echo " FP_RANGE_CHECK"; \
        tr 50 M=FP_RANGE_CHECK; \
        tr 51 M=FP_RANGE_CHECK; \
        tr 52 M=FP_RANGE_CHECK; \
        echo " FP_SLICE_KEY_CONTROL"; \
        tr 50 M=FP_SLICE_KEY_CONTROL; \
        echo " FP_SLICE_MAP"; \
        tr 50 M=FP_SLICE_MAP; \
        echo " FP_STORM_CONTROL_METERS"; \
        tr 50 M=FP_STORM_CONTROL_METERS; \
        tr 51 M=FP_STORM_CONTROL_METERS; \
        tr 52 M=FP_STORM_CONTROL_METERS; \
        echo " FP_TCAM_X"; \
        tr 50 M=FP_TCAM_X; \
        tr 51 M=FP_TCAM_X; \
        tr 52 M=FP_TCAM_X; \
        echo " FP_TCAM_Y"; \
        tr 50 M=FP_TCAM_Y; \
        tr 51 M=FP_TCAM_Y; \
        tr 52 M=FP_TCAM_Y; \
        echo " IFP_REDIRECTION_PROFILE"; \
        tr 50 M=IFP_REDIRECTION_PROFILE; \
        tr 51 M=IFP_REDIRECTION_PROFILE; \
        tr 52 M=IFP_REDIRECTION_PROFILE;'
    if !$?bypass \
        'echo " ING_L3_NEXT_HOP"; \
        tr 50 M=ING_L3_NEXT_HOP; \
        tr 51 M=ING_L3_NEXT_HOP; \
        tr 52 M=ING_L3_NEXT_HOP; \
        echo " ING_PRI_CNG_MAP"; \
        tr 50 M=ING_PRI_CNG_MAP; \
        tr 51 M=ING_PRI_CNG_MAP; \
        tr 52 M=ING_PRI_CNG_MAP; \
        echo " ING_VLAN_RANGE"; \
        tr 50 M=ING_VLAN_RANGE; \
        tr 51 M=ING_VLAN_RANGE; \
        tr 52 M=ING_VLAN_RANGE; \
```

```
        echo " ING_VLAN_TAG_ACTION_PROFILE"; \
        tr 50 M=ING_VLAN_TAG_ACTION_PROFILE; \
        tr 51 M=ING_VLAN_TAG_ACTION_PROFILE; \
        tr 52 M=ING_VLAN_TAG_ACTION_PROFILE; \
        echo " INITIAL_ING_L3_NEXT_HOP"; \
        tr 50 M=INITIAL_ING_L3_NEXT_HOP; \
        tr 51 M=INITIAL_ING_L3_NEXT_HOP; \
        tr 52 M=INITIAL_ING_L3_NEXT_HOP; \
        echo " INITIAL_L3_ECMP"; \
        tr 50 M=INITIAL_L3_ECMP; \
        tr 51 M=INITIAL_L3_ECMP; \
        tr 52 M=INITIAL_L3_ECMP; \
        echo " INITIAL_L3_ECMP_COUNT"; \
        tr 50 M=INITIAL_L3_ECMP_COUNT; \
        tr 51 M=INITIAL_L3_ECMP_COUNT; \
        tr 52 M=INITIAL_L3_ECMP_COUNT;'
    if !$?bypass \
        'echo " IPV4_IN_IPV6_PREFIX_MATCH"; \
        tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH; \
        tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH; \
        tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH; \
        echo " IPV6_PROXY_ENABLE"; \
        tr 50 M=IPV6_PROXY_ENABLE; \
        tr 51 M=IPV6_PROXY_ENABLE; \
        tr 52 M=IPV6_PROXY_ENABLE;'
    if !$?bypass \
        'echo " L3_DEFIP"; \
        tr 50 M=L3_DEFIP; \
        tr 51 M=L3_DEFIP; \
        tr 52 M=L3_DEFIP; \
        echo " L3_DEFIP_128"; \
        tr 50 M=L3_DEFIP_128; \
        tr 51 M=L3_DEFIP_128; \
        tr 52 M=L3_DEFIP_128; \
        echo " L3_DEFIP_128_DATA_ONLY"; \
        tr 50 M=L3_DEFIP_128_DATA_ONLY; \
        tr 51 M=L3_DEFIP_128_DATA_ONLY; \
        tr 52 M=L3_DEFIP_128_DATA_ONLY; \
        echo " L3_DEFIP_128_HIT_ONLY"; \
        tr 50 M=L3_DEFIP_128_HIT_ONLY; \
        tr 51 M=L3_DEFIP_128_HIT_ONLY; \
        tr 52 M=L3_DEFIP_128_HIT_ONLY; \
        echo " L3_DEFIP_128_ONLY"; \
        tr 50 M=L3_DEFIP_128_ONLY; \
        tr 51 M=L3_DEFIP_128_ONLY; \
        tr 52 M=L3_DEFIP_128_ONLY; \
        echo " L3_DEFIP_DATA_ONLY"; \
        tr 50 M=L3_DEFIP_DATA_ONLY; \
```

```
        tr 51 M=L3_DEFIP_DATA_ONLY; \
        tr 52 M=L3_DEFIP_DATA_ONLY; \
        echo " L3_DEFIP_HIT_ONLY"; \
        tr 50 M=L3_DEFIP_HIT_ONLY; \
        tr 51 M=L3_DEFIP_HIT_ONLY; \
        tr 52 M=L3_DEFIP_HIT_ONLY; \
        echo " L3_DEFIP_ONLY"; \
        tr 50 M=L3_DEFIP_ONLY; \
        tr 51 M=L3_DEFIP_ONLY; \
        tr 52 M=L3_DEFIP_ONLY;'
    if !$?bypass \
        'echo " L3_ECMP"; \
        tr 50 M=L3_ECMP; \
        tr 51 M=L3_ECMP; \
        tr 52 M=L3_ECMP; \
        echo " L3_ECMP_COUNT"; \
        tr 50 M=L3_ECMP_COUNT; \
        tr 51 M=L3_ECMP_COUNT; \
        tr 52 M=L3_ECMP_COUNT; \
        echo " L3_ENTRY_HIT_ONLY"; \
        tr 50 M=L3_ENTRY_HIT_ONLY; \
        tr 51 M=L3_ENTRY_HIT_ONLY; \
        tr 52 M=L3_ENTRY_HIT_ONLY; \
        echo " L3_ENTRY_IPV4_MULTICAST"; \
        tr 50 M=L3_ENTRY_IPV4_MULTICAST; \
        tr 51 M=L3_ENTRY_IPV4_MULTICAST; \
        tr 52 M=L3_ENTRY_IPV4_MULTICAST; \
        echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH"; \
        tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH; \
        echo " L3_ENTRY_IPV4_UNICAST"; \
        tr 50 M=L3_ENTRY_IPV4_UNICAST; \
        tr 51 M=L3_ENTRY_IPV4_UNICAST; \
        tr 52 M=L3_ENTRY_IPV4_UNICAST; \
        echo " L3_ENTRY_IPV4_UNICAST_SCRATCH"; \
        tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH; \
        echo " L3_ENTRY_IPV6_MULTICAST"; \
        tr 50 M=L3_ENTRY_IPV6_MULTICAST; \
        tr 51 M=L3_ENTRY_IPV6_MULTICAST; \
        tr 52 M=L3_ENTRY_IPV6_MULTICAST; \
        echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH"; \
        tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH; \
        echo " L3_ENTRY_IPV6_UNICAST"; \
        tr 50 M=L3_ENTRY_IPV6_UNICAST; \
        tr 51 M=L3_ENTRY_IPV6_UNICAST; \
        tr 52 M=L3_ENTRY_IPV6_UNICAST; \
        echo " L3_ENTRY_IPV6_UNICAST_SCRATCH"; \
        tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH; \
        echo " L3_ENTRY_ONLY"; \
```

```
        tr 50 M=L3_ENTRY_ONLY; \
        tr 51 M=L3_ENTRY_ONLY; \
        tr 52 M=L3_ENTRY_ONLY; \
        echo " L3_ENTRY_VALID_ONLY"; \
        tr 50 M=L3_ENTRY_VALID_ONLY; \
        tr 51 M=L3_ENTRY_VALID_ONLY; \
        tr 52 M=L3_ENTRY_VALID_ONLY;'
    if !$?bypass \
        'echo " L3_IPMC"; \
        tr 50 M=L3_IPMC; \
        tr 51 M=L3_IPMC; \
        tr 52 M=L3_IPMC; \
        echo " L3_TUNNEL"; \
        tr 50 M=L3_TUNNEL; \
        tr 51 M=L3_TUNNEL; \
        tr 52 M=L3_TUNNEL;'
    if !$?bypass \
        'echo " PORT_CBL_TABLE"; \
        tr 50 M=PORT_CBL_TABLE; \
        tr 51 M=PORT_CBL_TABLE; \
        tr 52 M=PORT_CBL_TABLE; \
        echo " TRUNK_CBL_TABLE"; \
        tr 50 M=TRUNK_CBL_TABLE; \
        tr 51 M=TRUNK_CBL_TABLE; \
        tr 52 M=TRUNK_CBL_TABLE;'
    if !$?bypass \
        'echo " VFP_POLICY_TABLE"; \
        tr 50 M=VFP_POLICY_TABLE; \
        tr 51 M=VFP_POLICY_TABLE; \
        tr 52 M=VFP_POLICY_TABLE; \
        echo " VFP_TCAM"; \
        tr 50 M=VFP_TCAM; \
        tr 51 M=VFP_TCAM; \
        tr 52 M=VFP_TCAM; \
        echo " VLAN_MAC"; \
        tr 50 M=VLAN_MAC; \
        tr 51 M=VLAN_MAC; \
        tr 52 M=VLAN_MAC; \
        echo " VLAN_MAC_SCRATCH"; \
        tr 50 M=VLAN_MAC_SCRATCH; \
        echo " VLAN_PROTOCOL"; \
        tr 50 M=VLAN_PROTOCOL; \
        tr 51 M=VLAN_PROTOCOL; \
        tr 52 M=VLAN_PROTOCOL; \
        echo " VLAN_PROTOCOL_DATA"; \
        tr 50 M=VLAN_PROTOCOL_DATA; \
        tr 51 M=VLAN_PROTOCOL_DATA; \
        tr 52 M=VLAN_PROTOCOL_DATA; \
```

```
        echo " VLAN_SUBNET"; \
        tr 50 M=VLAN_SUBNET; \
        tr 51 M=VLAN_SUBNET; \
        tr 52 M=VLAN_SUBNET; \
        echo " VLAN_SUBNET_DATA_ONLY"; \
        tr 50 M=VLAN_SUBNET_DATA_ONLY; \
        tr 51 M=VLAN_SUBNET_DATA_ONLY; \
        tr 52 M=VLAN_SUBNET_DATA_ONLY; \
        echo " VLAN_XLATE_SCRATCH"; \
        tr 50 M=VLAN_XLATE_SCRATCH;'
    if !$?bypass \
        'echo " EGR_IM_MTP_INDEX"; \
        tr 50 M=EGR_IM_MTP_INDEX; \
        tr 51 M=EGR_IM_MTP_INDEX; \
        tr 52 M=EGR_IM_MTP_INDEX; \
        echo " EGR_VLAN_TAG_ACTION_PROFILE"; \
        tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE; \
        tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE; \
        tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;'
    # These memories must be last
    echo " ARB_TDM_TABLE";
    tr 50 M=ARB_TDM_TABLE;
    tr 51 M=ARB_TDM_TABLE;
    tr 52 M=ARB_TDM_TABLE;
    echo " X_ARB_TDM_TABLE";
    tr 50 M=X_ARB_TDM_TABLE;
    tr 51 M=X_ARB_TDM_TABLE;
    tr 52 M=X_ARB_TDM_TABLE;
    echo " Y_ARB_TDM_TABLE";
    tr 50 M=Y_ARB_TDM_TABLE;
    tr 51 M=Y_ARB_TDM_TABLE;
    tr 52 M=Y_ARB_TDM_TABLE;
    set rct=true

    init soc; init misc; init mmu;

    #Table DMA/Table SLAM
    echo "Running Table DMA Tests ..."
    set rct=false

    echo " ALTERNATE_EMIRROR_BITMAP";
    tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
    tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
    tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
    echo " CPU_COS_MAP";
    tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
    tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
    tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
```

```
echo " CPU_COS_MAP_DATA_ONLY";
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPMC";
tr 71 M=EGR_IPMC S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN";
tr 71 M=EGR_VLAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
```

```
echo " IM_MTP_INDEX";
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " L2MC";
tr 71 M=L2MC S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY";
tr 71 M=L2_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=F SLTH=T;
echo " L2_ENTRY_SCRATCH";
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
```

```
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " LPORT";
tr 71 M=LPORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 71 M=MODPORT_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=F;
echo " COS_MAP";
tr 71 M=COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
echo " PORT";
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T;
```

```
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " VLAN_STG";
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " TCP_FN";
tr 71 M=TCP_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=F;
echo " TOS_FN";
tr 71 M=TOS_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F;
echo " TTL_FN";
tr 71 M=TTL_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " VLAN";
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T;
```

```
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F;
if !$?bypass \
    'echo " DSCP_TABLE"; \
    tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_COUNTER_TABLE"; \
    tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_COUNTER_TABLE_X"; \
    tr 71 M=EFP_COUNTER_TABLE_X S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_COUNTER_TABLE_Y"; \
    tr 71 M=EFP_COUNTER_TABLE_Y S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_METER_TABLE"; \
    tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_METER_TABLE_X"; \
    tr 71 M=EFP_METER_TABLE_X S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_METER_TABLE_X S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_METER_TABLE_X S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_METER_TABLE_Y"; \
    tr 71 M=EFP_METER_TABLE_Y S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_METER_TABLE_Y S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_METER_TABLE_Y S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_POLICY_TABLE"; \
    tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F; \
    echo " EFP_TCAM"; \
    tr 71 M=EFP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=F;'
if !$?bypass \
    'echo " EGR_DSCP_ECN_MAP"; \
    tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_DSCP_TABLE"; \
    tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=F; \
```

```
    echo " EGR_EM_MTP_INDEX"; \
    tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_ERSPAN"; \
    tr 71 M=EGR_ERSPAN S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_IM_MTP_INDEX"; \
    tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_IP_TUNNEL"; \
    tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_IP_TUNNEL_IPV6"; \
    tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_L3_INTF"; \
    tr 71 M=EGR_L3_INTF S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_L3_NEXT_HOP"; \
    tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_PRI_CNG_MAP"; \
    tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_VLAN_XLATE"; \
    tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_VLAN_XLATE_SCRATCH"; \
    tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F; \
    echo " EGR_VLAN_TAG_ACTION_PROFILE"; \
    tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;'
if !$?bypass \
    'echo " FP_COUNTER_TABLE_X"; \
    tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=T; \
```

```
        tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=F; \
        echo " FP_COUNTER_TABLE_Y"; \
        tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=F; \
        echo " FP_METER_TABLE"; \
        tr 71 M=FP_METER_TABLE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=F; \
        echo " FP_POLICY_TABLE"; \
        tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F; \
        echo " FP_PORT_FIELD_SEL"; \
        tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F; \
        echo " FP_RANGE_CHECK"; \
        tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F; \
        echo " FP_SLICE_KEY_CONTROL"; \
        tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=F; \
        echo " FP_SLICE_MAP"; \
        tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=F; \
        echo " FP_STORM_CONTROL_METERS"; \
        tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=F; \
        echo " FP_TCAM_X"; \
        tr 71 M=FP_TCAM_X S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_TCAM_X S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_TCAM_X S=0 C=0 TSE=T SLTH=F; \
        echo " FP_TCAM_Y"; \
        tr 71 M=FP_TCAM_Y S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=FP_TCAM_Y S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=FP_TCAM_Y S=0 C=0 TSE=T SLTH=F; \
        echo " IFP_REDIRECTION_PROFILE"; \
        tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=F;'
    if !$?bypass \
        'echo " ING_L3_NEXT_HOP"; \
        tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T; \
```

```
        tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F; \
        echo " ING_PRI_CNG_MAP"; \
        tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F; \
        echo " ING_VLAN_RANGE"; \
        tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=F; \
        echo " ING_VLAN_TAG_ACTION_PROFILE"; \
        tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F; \
        echo " INITIAL_ING_L3_NEXT_HOP"; \
        tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F; \
        echo " INITIAL_L3_ECMP"; \
        tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=F; \
        echo " INITIAL_L3_ECMP_COUNT"; \
        tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F;'
    if !$?bypass \
        'echo " IPV4_IN_IPV6_PREFIX_MATCH"; \
        tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=F; \
        echo " IPV6_PROXY_ENABLE"; \
        tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=F;'
    if !$?bypass \
        'echo " L3_DEFIP"; \
        tr 71 M=L3_DEFIP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_128"; \
        tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_128_DATA_ONLY"; \
        tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=F; \
```

```
        echo " L3_DEFIP_128_HIT_ONLY"; \
        tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_128_ONLY"; \
        tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_DATA_ONLY"; \
        tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_HIT_ONLY"; \
        tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=F; \
        echo " L3_DEFIP_ONLY"; \
        tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=F;'
    if !$?bypass \
        'echo " L3_ECMP"; \
        tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ECMP_COUNT"; \
        tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ENTRY_HIT_ONLY"; \
        tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ENTRY_IPV4_MULTICAST"; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH"; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ENTRY_IPV4_UNICAST"; \
        tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=F; \
        echo " L3_ENTRY_IPV4_UNICAST_SCRATCH"; \
        tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T; \
        tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_IPV6_MULTICAST"; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH"; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_IPV6_UNICAST"; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_IPV6_UNICAST_SCRATCH"; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_ONLY"; \
    tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F; \
    echo " L3_ENTRY_VALID_ONLY"; \
    tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=F;'
if !$?bypass \
    'echo " L3_IPMC"; \
    tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F; \
    echo " L3_TUNNEL"; \
    tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F;'
if !$?bypass \
    'echo " PORT_CBL_TABLE"; \
    tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=F; \
    echo " TRUNK_CBL_TABLE"; \
    tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=F;'
if !$?bypass \
    'echo " VFP_POLICY_TABLE"; \
    tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F; \
```

```
    echo " VFP_TCAM"; \
    tr 71 M=VFP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_MAC"; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_MAC_SCRATCH"; \
    tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_PROTOCOL"; \
    tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_PROTOCOL_DATA"; \
    tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_SUBNET"; \
    tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_SUBNET_DATA_ONLY"; \
    tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_SUBNET_ONLY"; \
    tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_XLATE"; \
    tr 71 M=VLAN_XLATE S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=F; \
    echo " VLAN_XLATE_SCRATCH"; \
    tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F;'

set rct=true

# Re-initialize to clean up of various read/wrires to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
```

```
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
if !$?fabric '\
echo "Running L2 insert/delete/lookup test ..."; \
tr 32; \
$done; \
\
echo "Running L2 overflow insert test ..."; \
tr 33; \
$done; \
\
echo "Running L2 hash test ..."; \
tr 34; \
$done; \
\
echo "Running L2 delete by port test ..."; \
tr 35; \
$done; \
\
echo "Running L2 delete by vlan test ..."; \
tr 36; \
$done; \
'

if !$?bypass && !$?fabric \
    'echo "Running IPV4 overflow insert test ..."; \
    tr 87 IPMCEnable=False; \
    tr 87 IPMCEnable=True; \
    $done'

if !$?bypass && !$?fabric \
    'echo "Running IPV6 hash test ..."; \
    tr 88 IPMCEnable=False; \
    tr 88 IPMCEnable=True; \
    $done'

if !$?bypass && !$?fabric \
    'echo "Running IPV6 overflow insert test ..."; \
    tr 85 IPMCEnable=False; \
    tr 85 IPMCEnable=True; \
    $done'
```

```
if !$?bypass && !$?fabric \
    'echo "Running IPV6 hash test ..."; \
    tr 86 IPMCEnable=False; \
    tr 86 IPMCEnable=True; \
    $done'

if !$?bypass && !$?fabric \
    'echo "Running VLAN translate overflow insert test ..."; \
    tr 100'

if !$?bypass && !$?fabric \
    'echo "Running VLAN translate hash tests ..."; \
    tr 101 hash=0; \
    tr 101 hash=1; \
    tr 101 hash=2; \
    tr 101 hash=3; \
    tr 101 hash=4; \
    tr 101 hash=5'

if !$?bypass && !$?fabric \
    'echo "Running Egress VLAN translate overflow insert test ..."; \
    tr 102'

if !$?bypass && !$?fabric \
    'echo "Running Egress VLAN translate hash tests ..."; \
    tr 103 hash=0; \
    tr 103 hash=1; \
    tr 103 hash=2; \
    tr 103 hash=3; \
    tr 103 hash=4; \
    tr 103 hash=5'

#Temporary, until HL ports resolved in MDIO test
if !$?fabric \
    'echo "Running MDIO Linkscan test"; \
    tr 60 readcount=10000; \
    $done'

if !$?fabric \
    'echo "Testing CPU DMA loopback ..."; \
    tr 17 c=5; \
    $done'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
```

```
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

# Bitmap support switches

if $?BCM56820_A0 && "expr $BCM956820K24C + 0" \
   "local pbm10g 0x1ffffe;"
if $?BCM56820_A0 && !"expr $BCM956820K24C + 0" \
   "local pbm10g 0x1e00000;"
if $?BCM56820_B0 && "expr $BCM956820K24C + 0" \
   "local pbm10g 0x1ffffe;"
if $?BCM56820_B0 && !"expr $BCM956820K24C + 0" \
   "local pbm10g 0x1e00000;"

if $?BCM56821_A0 && "expr $bcm56821_20x12 + 0" \
   "local pbm10g 0x1f87fe; local pbm16g 0x01e0001e;"
if $?BCM56821_A0 && !"expr $bcm56821_20x12 + 0" \
   "local pbm10g 0x1f87fe; local pbm12g 0x1f87fe;"
if $?BCM56821_B0 && "expr $bcm56821_20x12 + 0" \
   "local pbm10g 0x1f87fe; local pbm16g 0x01e0001e;"
if $?BCM56821_B0 && !"expr $bcm56821_20x12 + 0" \
   "local pbm10g 0x1f87fe; local pbm12g 0x1f87fe;"

if $?BCM56822_A0 && "expr $bcm56822_8x16 + 0" \
   "local pbm10g 0x1ffe00; local pbm16g 0x00001f10; local pbm21g 0x00001e00"
if $?BCM56822_B0 && "expr $bcm56822_8x16 + 0" \
   "local pbm10g 0x1ffe00; local pbm16g 0x00001f10; local pbm21g 0x00001e00"
if $?BCM56822_A0 && !"expr $bcm56822_8x16 + 0" \
   "local pbm10g 0x1ffe00; local pbm16g 0x00001fe0;"
if $?BCM56822_B0 && !"expr $bcm56822_8x16 + 0" \
   "local pbm10g 0x1ffe00; local pbm16g 0x00001fe0;"

if $?BCM56823_A0 || $?BCM56823_B0 \
   "local pbm10g 0x1ffffe; local pbm16g 0x0007ff80; local pbm21g 0x0001fe00"

if $?BCM56825_A0 || $?BCM56825_B0 \
   "local pbm10g 0x1fffffe; local pbm16g 0x0001fe00; local pbm21g 0x0001fe00"

if $?BCM56720_A0 || $?BCM56720_B0 \
   "local pbm10g 0x1fffe0; local pbm16g 0x1fffe0;"

if $?BCM56721_A0 || $?BCM56721_B0 \
   "local pbm10g 0x7ff80; local pbm16g 07ff80;"
```

```
if $?BCM56725_A0 && "expr $bcm56725_16x16 + 0" \
   "local pbm10g 0x7ff80; local pbm16g 0x7ff80; local pbm21g 0x1fe00"
if $?BCM56725_A0 && !"expr $bcm56725_16x16 + 0" \
   "local pbm10g 0x1fffe0; local pbm16g 0x1fffe0;"
if $?BCM56725_B0 && "expr $bcm56725_16x16 + 0" \
   "local pbm10g 0x7ff80; local pbm16g 0x7ff80; local pbm21g 0x1fe00"
if $?BCM56725_B0 && !"expr $bcm56725_16x16 + 0" \
   "local pbm10g 0x1fffe0; local pbm16g 0x1fffe0;"

#MAC Loopback
if $?BCM56820_A0 || $?BCM56821_A0 || $?BCM56822_A0 || \
      $?BCM56823_A0 || $?BCM56825_A0 || \
  $?BCM56820_B0 || $?BCM56821_B0 || $?BCM56822_B0 || \
      $?BCM56823_B0  || $?BCM56825_B0 \
      'echo "Testing MAC Loopback - 1000 Mb/s all GE ports"; \
       tr 18 pbm=ge speed=1000'

if !"expr $pbm10g + 0" \
      'echo "Testing MAC Loopback - 10000 Mb/s all XE/HG ports"; \
      tr 18 pbm=$pbm10g speed=10G'

if !"expr $pbm12g + 0" \
      'echo "Testing MAC Loopback - 12000 Mb/s all HG ports"; \
      tr 18 pbm=$pbm12g speed=12G'

if !"expr $pbm16g + 0" \
      'echo "Testing MAC Loopback - 12000 Mb/s all HG ports"; \
      tr 18 pbm=$pbm16g speed=12G; \
      echo "Testing MAC Loopback - 16000 Mb/s all HG ports"; \
      tr 18 pbm=$pbm16g speed=16G'

if !"expr $pbm21g + 0" \
      'echo "Testing MAC Loopback - 21000 Mb/s HG ports"; \
      tr 18 pbm=$pbm21g speed=21G'

$done

#PHY Loopback
if $?BCM56820_A0 || $?BCM56821_A0 || $?BCM56822_A0 || \
      $?BCM56823_A0 || $?BCM56825_A0 || \
  $?BCM56820_B0 || $?BCM56821_B0 || $?BCM56822_B0 || \
      $?BCM56823_B0  || $?BCM56825_B0 \
      'echo "Testing PHY Loopback - 1000 Mb/s all GE ports"; \
       tr 19 pbm=ge speed=1000'

if !"expr $pbm10g + 0" \
      'echo "Testing PHY Loopback - 10000 Mb/s all XE/HG ports"; \
      tr 19 pbm=$pbm10g speed=10G'
```

```
if !"expr $pbm12g + 0" \
      'echo "Testing PHY Loopback - 12000 Mb/s all HG ports"; \
      tr 19 pbm=$pbm12g speed=12G'

if !"expr $pbm16g + 0" \
      'echo "Testing PHY Loopback - 12000 Mb/s all HG ports"; \
      tr 19 pbm=$pbm16g speed=12G; \
      echo "Testing PHY Loopback - 16000 Mb/s all HG ports"; \
      tr 19 pbm=$pbm16g speed=16G'

if !"expr $pbm21g + 0" \
      'echo "Testing PHY Loopback - 21000 Mb/s HG ports"; \
      tr 19 pbm=$pbm21g speed=21G'

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
if $?BCM56820_A0 || $?BCM56820_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=xe; \
    tr 39 loopbackmode=mac snakepath=two PBM=ge'
if $?BCM56821_A0 && "expr $bcm56821_20x12 + 0" \
   'tr 39 loopbackmode=mac snakepath=two PBM=xe0-xe11' \
if $?BCM56821_B0 && "expr $bcm56821_20x12 + 0" \
   'tr 39 loopbackmode=mac snakepath=two PBM=xe0-xe11' \
if $?BCM56821_A0 || $?BCM56821_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=ge0-ge3'
if $?BCM56822_A0 || $?BCM56822_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=ge0-ge3'
if $?BCM56823_A0 || $?BCM56823_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=ge0-ge3'
if $?BCM56825_A0 || $?BCM56825_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=xe0-xe15'
if $?BCM56720_A0 || $?BCM56721_A0 || $?BCM56725_A0 || \
  $?BCM56720_B0 || $?BCM56721_B0 || $?BCM56725_B0 \
   'tr 39 loopbackmode=mac snakepath=two PBM=hg'
$done

echo "Running internal snake on all ports, PHY loopback ..."
if $?BCM56820_A0 || $?BCM56820_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=xe; \
```

```
    tr 39 loopbackmode=phy snakepath=two PBM=ge'
if $?BCM56821_A0 && "expr $bcm56821_20x12 + 0" \
   'tr 39 loopbackmode=phy snakepath=two PBM=xe0-xe11' \
if $?BCM56821_B0 && "expr $bcm56821_20x12 + 0" \
   'tr 39 loopbackmode=phy snakepath=two PBM=xe0-xe11' \
if $?BCM56821_A0 || $?BCM56821_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=ge0-ge3'
if $?BCM56822_A0 || $?BCM56822_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=ge0-ge3'
if $?BCM56823_A0 || $?BCM56823_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=ge0-ge3'
if $?BCM56825_A0 || $?BCM56825_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=xe0-xe15'
if $?BCM56720_A0 || $?BCM56721_A0 || $?BCM56725_A0 || \
  $?BCM56720_B0 || $?BCM56721_B0 || $?BCM56725_B0 \
   'tr 39 loopbackmode=phy snakepath=two PBM=hg'
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e,hg c=5
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e,hg c=5
$done


#External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10,  11-12
#       13-14, 15-16, 17-18, 19-20, 21-22, 23-24
#       25-26, 27-28
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext1000 1
#       setenv ext10G  1
#       setenv ext12G  1
#       setenv ext16G  1
#       setenv ext21G  1
# or
#       setenv extall  1

#External Loopback on GE ports
if $?BCM56821_A0 || $?BCM56822_A0 || $?BCM56823_A0 || \
  $?BCM56821_B0 || $?BCM56822_B0 || $?BCM56823_B0 \
   'local ge_fwd 0xa000000; \
    local ge_bwd 0x14000000'
```

```
if $?BCM56820_A0 && "expr $BCM956820K24C + 0" \
   'local ge_fwd 0xa000000; \
    local ge_bwd 0x14000000'
if $?BCM56820_A0 && !"expr $BCM956820K24C + 0" \
   'local ge_fwd 0xaaaaaa; \
    local ge_bwd 0x14155554'
if $?BCM56820_B0 && "expr $BCM956820K24C + 0" \
   'local ge_fwd 0xa000000; \
    local ge_bwd 0x14000000'
if $?BCM56820_B0 && !"expr $BCM956820K24C + 0" \
   'local ge_fwd 0xaaaaaa; \
    local ge_bwd 0x14155554'

#External Loopback on XE/HG ports
if $?BCM56820_A0 && "expr $BCM956820K24C + 0" \
   'local xe_fwd 0xaaaaaa; \
    local xe_bwd 0x1555554'
if $?BCM56820_A0 && !"expr $BCM956820K24C + 0" \
   'local xe_fwd 0x0a00000; \
    local xe_bwd 0x1400000'
if $?BCM56820_B0 && "expr $BCM956820K24C + 0" \
   'local xe_fwd 0xaaaaaa; \
    local xe_bwd 0x1555554'
if $?BCM56820_B0 && !"expr $BCM956820K24C + 0" \
   'local xe_fwd 0x0a00000; \
    local xe_bwd 0x1400000'
if $?BCM56821_A0 && "expr $bcm56821_20x12 + 0" \
   'local xe_fwd 0xaa82aa; \
    local xe_bwd 0x1550554; \
    local hg_fwd 0xa0000a; \
    local hg_bwd 0x1400014'
if $?BCM56821_A0 && !"expr $bcm56821_20x12 + 0" \
   'local hg12_fwd 0xaa82aa; \
    local hg12_bwd 0x1550554'
if $?BCM56821_B0 && "expr $bcm56821_20x12 + 0" \
   'local xe_fwd 0xaa82aa; \
    local xe_bwd 0x1550554; \
    local hg_fwd 0xa0000a; \
    local hg_bwd 0x1400014'
if $?BCM56821_B0 && !"expr $bcm56821_20x12 + 0" \
   'local hg12_fwd 0xaa82aa; \
    local hg12_bwd 0x1550554'
if $?BCM56822_A0 && "expr $bcm56822_8x16 + 0" \
   'local xe_fwd 0xaaa000; \
    local xe_bwd 0x1554000; \
    local hg_fwd 0x0080; \
    local hg_bwd 0x0100; \
    local hg21_fwd 0x0a00; \
```

```
    local hg21_bwd 0x1400'
if $?BCM56822_A0 && !"expr $bcm56822_8x16 + 0" \
   'local xe_fwd 0xaaa000; \
    local xe_bwd 0x1554000; \
    local hg_fwd 0x0aa0; \
    local hg_bwd 0x1540'
if $?BCM56822_B0 && "expr $bcm56822_8x16 + 0" \
   'local xe_fwd 0xaaa000; \
    local xe_bwd 0x1554000; \
    local hg_fwd 0x0080; \
    local hg_bwd 0x0100; \
    local hg21_fwd 0x0a00; \
    local hg21_bwd 0x1400'
if $?BCM56822_B0 && !"expr $bcm56822_8x16 + 0" \
   'local xe_fwd 0xaaa000; \
    local xe_bwd 0x1554000; \
    local hg_fwd 0x0aa0; \
    local hg_bwd 0x1540'
if $?BCM56823_A0 || $?BCM56823_B0 \
   'local hg_fwd 0x02aa80; \
    local hg_bwd 0x055500; \
    local hg21_fwd 0x00aa00; \
    local hg21_bwd 0x015400'
if $?BCM56825_A0 || $?BCM56825_B0 \
   'local xe_fwd 0xaa00aa; \
    local xe_bwd 0x1540154; \
    local hg_fwd 0x00aa00; \
    local hg_bwd 0x015400; \
    local hg21_fwd 0x00aa00; \
    local hg21_bwd 0x015400'

if $?BCM56720_A0 || $?BCM56720_B0 \
   'local hg_fwd 0x0aaaa0; \
    local hg_bwd 0x0155540'
if $?BCM56721_A0 || $?BCM56721_B0 \
   'local hg_fwd 0x02aa80; \
    local hg_bwd 0x0055500'
if $?BCM56725_A0 && "expr $bcm56725_16x16 + 0" \
   'local hg_fwd 0x02aa80; \
    local hg_bwd 0x0055500; \
    local hg21_fwd 0x00aa00; \
    local hg21_bwd 0x0015400'
if $?BCM56725_A0 && !"expr $bcm56725_16x16 + 0" \
   'local hg_fwd 0x0aaaa0; \
    local hg_bwd 0x0155540'
if $?BCM56725_B0 && "expr $bcm56725_16x16 + 0" \
   'local hg_fwd 0x02aa80; \
    local hg_bwd 0x0055500; \
```

```
    local hg21_fwd 0x00aa00; \
    local hg21_bwd 0x0015400'
if $?BCM56725_B0 && !"expr $bcm56725_16x16 + 0" \
   'local hg_fwd 0x0aaaa0; \
    local hg_bwd 0x0155540'

if $?extall \
       "local ext1000 1; local ext10G 1; local ext12G 1; \
       local ext16G 1; local ext21G 1"

if $?ext1000  && !"expr $ge_fwd + 0" \
       "echo Testing External Loopback - 1000 MB/s forward; \
              tr 20 tpbm=$ge_fwd di=1 speed=1000 count=10; \
        echo Testing External Loopback - 1000 MB/s reverse; \
              tr 20 tpbm=$ge_bwd di=-1 speed=1000 count=10"

if $?ext10G && !"expr $xe_fwd + 0" \
       "echo Testing External Loopback - 10 GB/s forward; \
              tr 20 tpbm=$xe_fwd di=1 speed=10G count=10; \
        echo Testing External Loopback - 10 GB/s reverse; \
              tr 20 tpbm=$xe_bwd di=-1 speed=10G count=10"

if $?ext10G && !"expr $hg12_fwd + 0" \
       "echo Testing External Loopback - 10 GB/s forward; \
              tr 20 tpbm=$hg12_fwd di=1 speed=10G count=10; \
        echo Testing External Loopback - 10 GB/s reverse; \
              tr 20 tpbm=$hg12_bwd di=-1 speed=10G count=10"

if $?ext12G && !"expr $hg12_fwd + 0" \
       "echo Testing External Loopback - 12 GB/s forward; \
              tr 20 tpbm=$hg12_fwd di=1 speed=12G count=10; \
        echo Testing External Loopback - 12 GB/s reverse; \
              tr 20 tpbm=$hg12_bwd di=-1 speed=12G count=10"

if $?ext10G && !"expr $hg_fwd + 0" \
       "echo Testing External Loopback - 10 GB/s forward; \
              tr 20 tpbm=$hg_fwd di=1 speed=10G count=10; \
        echo Testing External Loopback - 10 GB/s reverse; \
              tr 20 tpbm=$hg_bwd di=-1 speed=10G count=10"

if $?ext12G && !"expr $hg_fwd + 0" \
       "echo Testing External Loopback - 12 GB/s forward; \
              tr 20 tpbm=$hg_fwd di=1 speed=12G count=10; \
        echo Testing External Loopback - 12 GB/s reverse; \
              tr 20 tpbm=$hg_bwd di=-1 speed=12G count=10"

if $?ext16G && !"expr $hg_fwd + 0" \
       "echo Testing External Loopback - 16 GB/s forward; \
```

```
            tr 20 tpbm=$hg_fwd di=1 speed=16G count=10; \
        echo Testing External Loopback - 16 GB/s reverse; \
            tr 20 tpbm=$hg_bwd di=-1 speed=16G count=10"

if $?ext21G && !"expr $hg21_fwd + 0" \
        "echo Testing External Loopback - 21 GB/s forward; \
            tr 20 tpbm=$hg21_fwd di=1 speed=21G count=10 an=f; \
        echo Testing External Loopback - 21 GB/s reverse; \
            tr 20 tpbm=$hg21_bwd di=-1 speed=21G count=10 an=f"

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/scsanity.soc
No license file was found, but licenses were detected in source scan.

```
#$Id: ktsanity_ecc_off.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana (BCM56440) ECC config
#
# Script to disable ECC specific to Katana.
#

if $?BCM56440_A0 || $?BCM56441_A0 || $?BCM56443_A0 || $?BCM56249_A0 || $?BCM56449_A0 ||
$?BCM56240_A0 || \
  $?BCM55440_A0 || $?BCM55441_A0 \
   'local BCM56440 1'
if $?BCM56445_A0 || $?BCM56444_A0 || $?BCM56448_A0 || $?BCM56241_A0 \
   'local BCM56445 1'

if $?BCM56440_B0 || $?BCM56441_B0 || $?BCM56443_B0 || $?BCM56249_B0 || $?BCM56449_B0 ||
$?BCM56240_B0 || \
  $?BCM55440_B0 || $?BCM55441_B0 || $?BCM56242_B0 || $?BCM56243_B0 || \
  $?BCM56245_B0 || $?BCM56246_B0 \
```

```
   'local BCM56440 1'
if $?BCM56445_B0 || $?BCM56444_B0 || $?BCM56448_B0 || $?BCM56241_B0 \
   'local BCM56445 1'

m ING_BYPASS_CTRL ING_SW_ENC_DEC_TCAM=1
m EGR_BYPASS_CTRL EFP_SW_ENC_DEC_TCAM=1

s lls_soft_reset 0
s ctr_ecc_debug 0
s aging_ctr_ecc_control_ext 0
s aging_ctr_ecc_control_int 0
s aging_exp_ecc_control_ext 0
s aging_exp_ecc_control_int 0
s aging_lmt_ecc_control_ext 0
s aging_lmt_ecc_control_int 0
s ccpe_memdebug 0
s ccpi_memdebug 0
s cfape_ecc_debug 0
s cfapi_ecc_debug 0
s intfi_ecc_debug 0
s rqe_global_config 0
s thdo_miscconfig 0
s lls_l0_ecc_debug 0
s lls_l0_ecc_debug1 0
s lls_l1_ecc_debug1 0
s lls_l2_ecc_debug1 0
s lls_l2_ecc_debug2 0
s lls_l2_ecc_debug3 0
s lls_error_ecc_debug 0
s lls_config0 0
m lls_fc_config fc_cfg_disable_l2_normal_xoff_47_0=0 fc_cfg_disable_l2_cosmask_xoff=1
s DEQ_ECC_DEBUG 0

if $?BCM56440 \
's EMC_ECC_DEBUG 0; \
s CELLLINKEMEMDEBUG 0;'
$done

s CELLLINKIMEMDEBUG 0
s MMU_ENQ_CFG_ECC_DEBUG_0 0
s MMU_ENQ_FAP_ECC_DEBUG_0 0
s TOQ_ECC_DEBUG 0
s MMU_ITE_CFG_ECC_DEBUG_0 0
s QSTRUCT_QENTRY_LOWER_ECC_DEBUG 0
s QSTRUCT_QENTRY_UPPER_ECC_DEBUG 0
s QSTRUCT_QBLOCK_NEXT_ECC_DEBUG 0
s QSTRUCT_FAP_STACK_ECC_DEBUG 0
s QSTRUCT_FAP_BITMAP_ECC_DEBUG 0
```

```
s wred_miscconfig 0
s miscconfig 0
m l3_entry_parity_control PARITY_EN=0
m l3_defip_data_parity_control PARITY_EN=0
m  MODPORT_MAP_MIRROR_PARITY_CONTROL PARITY_EN=0
m MY_STATION_DATA_PARITY_CONTROL PARITY_EN=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ktsanity_ecc_off.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/rate.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/rate.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_link.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ism.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	ism.h
```

```
* Purpose:     Include file for ISM memory access functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/ism.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_lif.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_lif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: libc.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  libc.h
* Purpose:  Some C library functions to remove dependencies
*  of the driver on external libraries.
*
* The compile-time flag -DRTOS_STRINGS should be used if your RTOS
* supports the standard <string.h> routines.  The RTOS library or
* built-in versions of these routines are likely to be much more
* efficient than the stand-in versions below.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/libc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_fap_config3.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tm_fap_config3.c
* Purpose: Example of WFQ Validation
*
* Environment
```

```
*    - Default Egress queue mapping in play.
*    - Default Egress Port Scheduler hierarchy in play.
*    - Default Ingress Scheduling Discipline (delay tolerance), queues sizes
*    - Packet Size 1500
*
* - Port Scheduler
*   - CL Scheduler (WFQ Independent Mode)
*     - 4 FQ Schedulers
*       - 1 Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers
*       - 2nd Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers - Created by specifying BCM_COSQ_GPORT_TM_FLOW_ID flag.
* - Input
*   - Queue - Cos 0
*     Input 500 Mbps
*   - Queue - Cos 1
*     Input 500 Mbps
*
* - Expected Output
*   - Queue - Cos 0
*     Expected Output 333 Mbps
*     Observed 400 Mbps (NOTE: ratios are correct)
*   - Queue - Cos 1
*     Expected Output 166 Mbps
*     Observed 200 Mbps (NOTE: ratios are correct)
*
*  ~~~
```

```
* |              /     |     |     \                  |
* |             SPR      SPR    SPR     SPR                  |
* |           (500 Mbps)(500 Mbps)(500 Mbps)(500 Mbps)                |
* |            /        |     |       \                |
* |           |/        |/    \/       \/               |
* |         +------+  +------+  +------+  +------+              |
* |        /  FQ  \ /  FQ  \ /  FQ  \ /  FQ  \             |
* |       +----------+----------+----------+----------+             |
* |         \        |       |       /                |
* |          \       |       |       /                |
* |          SPR       SPR       SPR      SPR                |
* |        (500 Mbps) (500 Mbps) (500 Mbps) (500 Mbps)                |
* |            \      |       |    /                  |
* |            \/     \/       \/   \/                  |
* |          |   | |   | |   | |   |                |
* |          |   | |   | |   | |   |                |
* |          |   | |   | |   | |   |                |
* |          |   | |   | |   | |   |                |
* |          |   | |   | |   | |   |                |
* |          +-----+ +-----+  +-----+ +-----+    +----------------+ |
* |          Input:    Input:                  |     KEY      | |
* |          500 Mbps  500 Mbps                 +----------------+ |
* |                                     |SPR- Rate Shaper| |
* |                                     |            | |
* |                                     +----------------+ |
* |                +~~~~~~~~~~~~~~~~~~~~+                      |
* |                |  Figure 6: WFQ  |                       |
* ~~~~~~~~~~~~~~~~~~~
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv4.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_petra_api.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_petra_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DPP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/dpp_eyescan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_interrupts.h,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 INTERRUPTS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_interrupts.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_proc.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_proc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_test.h,v 1.60 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       c3hppc_test.h
* Purpose:     Extern declarations for test functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3hppc_test.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_mact.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_mact.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G + 2xHG10 setup
#

ddr3_auto_tune=0
```

```
# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=30

ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3
ucode_port.port5.0=clport0.xe.1.0:clport1.hg126.0.4
ucode_port.port6.0=clport0.xe.1.1:clport1.hg126.0.5
ucode_port.port7.0=clport0.xe.1.2:clport1.hg126.0.6
ucode_port.port8.0=clport0.xe.1.3:clport1.hg126.0.7
ucode_port.port9.0=clport0.xe.2.0:clport1.hg126.0.8
ucode_port.port10.0=clport0.xe.2.1:clport1.hg126.0.9

ucode_port.port11.0=clport0.hg10.2.2-1:clport1.hg126.0.10-1
ucode_port.port12.0=clport0.hg10.2.2-1:clport1.hg126.0.11-1
ucode_port.port13.0=clport0.hg10.2.2-1:clport1.hg126.0.12-1
ucode_port.port14.0=clport0.hg10.2.2-1:clport1.hg126.0.13-1
ucode_port.port15.0=clport0.hg10.2.2-1:clport1.hg126.0.14-1
ucode_port.port16.0=clport0.hg10.2.2-1:clport1.hg126.0.15-1
ucode_port.port17.0=clport0.hg10.2.2-1:clport1.hg126.0.16-1
ucode_port.port18.0=clport0.hg10.2.2-1:clport1.hg126.0.17-1
ucode_port.port19.0=clport0.hg10.2.2-1:clport1.hg126.0.18-1
ucode_port.port20.0=clport0.hg10.2.2-1:clport1.hg126.0.19-1

ucode_port.port21.0=clport0.hg10.2.3-1:clport1.hg126.0.20-1
ucode_port.port22.0=clport0.hg10.2.3-1:clport1.hg126.0.21-1
ucode_port.port23.0=clport0.hg10.2.3-1:clport1.hg126.0.22-1
ucode_port.port24.0=clport0.hg10.2.3-1:clport1.hg126.0.23-1
ucode_port.port25.0=clport0.hg10.2.3-1:clport1.hg126.0.24-1
ucode_port.port26.0=clport0.hg10.2.3-1:clport1.hg126.0.25-1
ucode_port.port27.0=clport0.hg10.2.3-1:clport1.hg126.0.26-1
ucode_port.port28.0=clport0.hg10.2.3-1:clport1.hg126.0.27-1
ucode_port.port29.0=clport0.hg10.2.3-1:clport1.hg126.0.28-1
ucode_port.port30.0=clport0.hg10.2.3-1:clport1.hg126.0.29-1


higig2_hdr_mode=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1
```

```
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0000
phy_xaui_rx_polarity_flip_hg10=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg20=0x1032
xgxs_rx_lane_map_core1_hg20=0x3210
xgxs_rx_lane_map_core2_hg20=0x1032

xgxs_tx_lane_map_core0_hg20=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

port_init_speed_hg20=10312
```

```
# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
```

ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404

```
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

fc_ingress_xoff_thresh=0x283c
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-10x10g_2xhg10-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_ports.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dmaOps.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/dmaOps.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-100g.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100G setup
```

```
#

ddr3_auto_tune=0

load_firmware=1
#lrp_bypass=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_port_override.0=1


ucode_num_ports.0=54

# Single port and channel with multi COS -- reference only.
#ucode_port.port1.0=il0.il100.0.0-10/0/192/10:clport1.hg126.0.0-10/64/128/10

ucode_port.port1.0=il0.il100.0.0:clport1.hg126.0.0
ucode_port.port2.0=il0.il100.0.1:clport1.hg126.0.1
ucode_port.port3.0=il0.il100.0.2:clport1.hg126.0.2
ucode_port.port4.0=il0.il100.0.3:clport1.hg126.0.3
ucode_port.port5.0=il0.il100.0.4:clport1.hg126.0.4
ucode_port.port6.0=il0.il100.0.5:clport1.hg126.0.5
ucode_port.port7.0=il0.il100.0.6:clport1.hg126.0.6
ucode_port.port8.0=il0.il100.0.7:clport1.hg126.0.7
ucode_port.port9.0=il0.il100.0.8:clport1.hg126.0.8
ucode_port.port10.0=il0.il100.0.9:clport1.hg126.0.9

ucode_port.port11.0=il0.il100.0.10:clport1.hg126.0.10
ucode_port.port12.0=il0.il100.0.11:clport1.hg126.0.11
ucode_port.port13.0=il0.il100.0.12:clport1.hg126.0.12
ucode_port.port14.0=il0.il100.0.13:clport1.hg126.0.13
ucode_port.port15.0=il0.il100.0.14:clport1.hg126.0.14
ucode_port.port16.0=il0.il100.0.15:clport1.hg126.0.15
ucode_port.port17.0=il0.il100.0.16:clport1.hg126.0.16
ucode_port.port18.0=il0.il100.0.17:clport1.hg126.0.17
ucode_port.port19.0=il0.il100.0.18:clport1.hg126.0.18

ucode_port.port20.0=il0.il100.0.19:clport1.hg126.0.19
ucode_port.port21.0=il0.il100.0.20:clport1.hg126.0.20
ucode_port.port22.0=il0.il100.0.21:clport1.hg126.0.21
ucode_port.port23.0=il0.il100.0.22:clport1.hg126.0.22
ucode_port.port24.0=il0.il100.0.23:clport1.hg126.0.23
ucode_port.port25.0=il0.il100.0.24:clport1.hg126.0.24
ucode_port.port26.0=il0.il100.0.25:clport1.hg126.0.25
```

```
ucode_port.port27.0=il0.il100.0.26:clport1.hg126.0.26
ucode_port.port28.0=il0.il100.0.27:clport1.hg126.0.27
ucode_port.port29.0=il0.il100.0.28:clport1.hg126.0.28

ucode_port.port30.0=il0.il100.0.29:clport1.hg126.0.29
ucode_port.port31.0=il0.il100.0.30:clport1.hg126.0.30
ucode_port.port32.0=il0.il100.0.31:clport1.hg126.0.31
ucode_port.port33.0=il0.il100.0.32:clport1.hg126.0.32
ucode_port.port34.0=il0.il100.0.33:clport1.hg126.0.33
ucode_port.port35.0=il0.il100.0.34:clport1.hg126.0.34
ucode_port.port36.0=il0.il100.0.35:clport1.hg126.0.35
ucode_port.port37.0=il0.il100.0.36:clport1.hg126.0.36
ucode_port.port38.0=il0.il100.0.37:clport1.hg126.0.37
ucode_port.port39.0=il0.il100.0.38:clport1.hg126.0.38

ucode_port.port40.0=il0.il100.0.39:clport1.hg126.0.39
ucode_port.port41.0=il0.il100.0.40:clport1.hg126.0.40
ucode_port.port42.0=il0.il100.0.41:clport1.hg126.0.41
ucode_port.port43.0=il0.il100.0.42:clport1.hg126.0.42
ucode_port.port44.0=il0.il100.0.43:clport1.hg126.0.43
ucode_port.port45.0=il0.il100.0.44:clport1.hg126.0.44
ucode_port.port46.0=il0.il100.0.45:clport1.hg126.0.45
ucode_port.port47.0=il0.il100.0.46:clport1.hg126.0.46
ucode_port.port48.0=il0.il100.0.47:clport1.hg126.0.47

ucode_port.port49.0=il0.il100.0.48:clport1.hg126.0.48
ucode_port.port50.0=il0.il100.0.49:clport1.hg126.0.49
ucode_port.port51.0=il0.il100.0.50:clport1.hg126.0.50
ucode_port.port52.0=il0.il100.0.51:clport1.hg126.0.51
ucode_port.port53.0=il0.il100.0.52:clport1.hg126.0.52
ucode_port.port54.0=il0.il100.0.53:clport1.hg126.0.53


# ORIG From Trup
xgxs_rx_lane_map_core0_il0=0x1230
xgxs_rx_lane_map_core1_il0=0x1032
xgxs_rx_lane_map_core2_il0=0x1230


xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312
```

```
phy_rx_polarity_flip_il0=0x0bf9

phy_tx_polarity_flip_il0=0x0cf3


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

higig2_hdr_mode_hg0=1

#C3 Fabric side no pority swap

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# For system ".132"
#ddr3_tune_addrc_ci14=0x000000ae
#ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci14=0x80808080
#ddr3_tune_vref_ci14=0x00000820
#ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
#ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
#ddr3_tune_rd_data_dly_ci14=0x00000404
#ddr3_tune_addrc_ci12=0x000000b1
#ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci12=0x80808080
#ddr3_tune_vref_ci12=0x0000079e
#ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
#ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
```

```
#ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
#ddr3_tune_rd_data_dly_ci12=0x00000404
#ddr3_tune_addrc_ci10=0x000000af
#ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
#ddr3_tune_wr_dq_ci10=0x80808080
#ddr3_tune_vref_ci10=0x000007df
#ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
#ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
#ddr3_tune_rd_data_dly_ci10=0x00000404
#ddr3_tune_addrc_ci8=0x000000b1
#ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci8=0x80808080
#ddr3_tune_vref_ci8=0x0000079e

#ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
#ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
#ddr3_tune_rd_data_dly_ci8=0x00000404
#ddr3_tune_addrc_ci6=0x000000b3
#ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
#ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci6=0x80808080
#ddr3_tune_vref_ci6=0x0000079e
#ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
#ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
#ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
#ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
#ddr3_tune_rd_data_dly_ci6=0x00000404
#ddr3_tune_addrc_ci4=0x000000b2
#ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci4=0x80808080
#ddr3_tune_vref_ci4=0x0000079e
#ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
#ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
```

```
#ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
#ddr3_tune_rd_data_dly_ci4=0x00000404
#ddr3_tune_addrc_ci2=0x000000b2
#ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci2=0x80808080
#ddr3_tune_vref_ci2=0x000007df
#ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
#ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
#ddr3_tune_rd_data_dly_ci2=0x00000404
#ddr3_tune_addrc_ci0=0x000000b2
#ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci0=0x80808080
#ddr3_tune_vref_ci0=0x000007df
#ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
#ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
#ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
#ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
#ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
#ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
#ddr3_tune_rd_data_dly_ci0=0x00000404
```

```
# For system ".133"
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_wl0_ci4.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x99999797,0x96969292
ddr3_tune_vref_ci6.0=0x0000075d
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10.0=0x00a2a4a0,0x009d9f9b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
```

ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x97979797
ddr3_tune_rd_en_ci2.0=0x009c9d9c,0x00a0a39d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000af
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000075d
ddr3_tune_rd_en_ci12.0=0x009a9a9b,0x00969895
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci12.0=0x92929494,0x97979898
ddr3_tune_rd_dqs_ci0.0=0x92929a9a,0x99999696
ddr3_tune_rd_en_ci4.0=0x009b9a9c,0x00989a96
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000af
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00999a99,0x009b9e98
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x98989a9a,0x9a9a9797
ddr3_tune_rd_dqs_ci2.0=0x98989797,0x98989797
ddr3_tune_rd_en_ci6.0=0x00999a98,0x00959793
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b0

ddr3_tune_rd_dq_wl1_rn_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dqs_ci4.0=0x97979797,0x98989898
ddr3_tune_rd_en_ci8.0=0x00979797,0x00989b96
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci6.0=0x98989191,0x9a9a9999
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a09fa2,0x009c9f99
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1xilkn100_1xhg127.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: mim.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*

```
* Mac-in-Mac initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: device_cosq.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       device_cosq.h
* Purpose:    Implement Hybrid resource allocation algorithm. This is
*             shared across devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/device_cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53020_a0.c
* Purpose: bcm53020_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53020_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utilex_str.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/utilex/utilex_str.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mac_flexport.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_mac_flexport.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyegphy28.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyegphy28.h
*
* This driver applies to BCMEGPHY28.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_egphy28.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_reset.c, v1 21/09/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_reset.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
```

```
*  Created On    :  18/09/2013                                    *
*  Created By    :  Kiran Divakar                                 *
*  Description   :  Header file with Error Code enums             *
*  Revision      :  $Id: srds_api_err_code.h 1357 2016-02-22 17:34:25Z kirand $ *
*                                                                 *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                     *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                          *
*                                                                 *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                 *
*                                                                 *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common2/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: alpm.c$
* File:    alpm.c
* Purpose: Tomahawk Primitives for LPM management in ALPM - Mode.
* Requires:
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/alpm/alpm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_api_ssr.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       dnx_sand_api_ssr.h
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_api_ssr.h
No license file was found, but licenses were detected in source scan.

```
# $Id: Exp $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# This script runs the tr 19 test for all the 12 10GE ports and 4 HiGig
# ports of the Firebolt 12 port CX4 platform. There are 4 firebolt
# devices and 1 hercules device on the platform.

#Set the duration argument as a variable
if !$?1 'local count 10'
if $?1 'local count $1'

if !$?lmfb12p "echo rc: config variable lmfb12p not set; exit"

testmode run

echo "Starting TR 19 test on device 0"
1:modreg mac_ctrl.hg0 RMTLOOP=1
```

```
2:modreg mac_ctrl.hg0 RMTLOOP=1
3:modreg mac_ctrl.hg0 RMTLOOP=1
4:modreg mac_ctrl.hg0 RMTLOOP=1
0: tr 19 ExtselfloopPBM=hg count=$count

1:modreg mac_ctrl.hg0 RMTLOOP=0
2:modreg mac_ctrl.hg0 RMTLOOP=0
3:modreg mac_ctrl.hg0 RMTLOOP=0
4:modreg mac_ctrl.hg0 RMTLOOP=0

echo "Starting TR 19 test on device 1"
0:modreg mac_ctrl.hg6 RMTLOOP=1
1: tr 19 ExtselfloopPBM=xe,hg0 count=$count
0:modreg mac_ctrl.hg6 RMTLOOP=0

echo "Starting TR 19 test on device 2"
0:modreg mac_ctrl.hg7 RMTLOOP=1
2: tr 19 ExtselfloopPBM=xe,hg0 count=$count
0:modreg mac_ctrl.hg7 RMTLOOP=0

echo "Starting TR 19 test on device 3"
0:modreg mac_ctrl.hg0 RMTLOOP=1
3: tr 19 ExtselfloopPBM=xe,hg0 count=$count
0:modreg mac_ctrl.hg0 RMTLOOP=0

echo "Starting TR 19 test on device 4"
0:modreg mac_ctrl.hg1 RMTLOOP=1
4: tr 19 ExtselfloopPBM=xe,hg0 count=$count
0:modreg mac_ctrl.hg1 RMTLOOP=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lmfb12p.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.14 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field - Broadcom StrataSwitch Field Processor switch common API.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/field.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_ip_route.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_route.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: gport_mgmt.h,v 1.71 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: gport_mgmt.h
* Purpose: GPORT Management internal definitions to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/gport_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/gport_mgmt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: vxlan.c,v 1.94 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VXLAN API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/trident2/vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbextif.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific External Interface I/O core definitions
* for the BCM47xx family of SiliconBackplane-based chips.
*
* The External Interface core supports a total of three external chip selects
* supporting external interfaces. One of the external chip selects is
* used for Flash, one is used for PCMCIA, and the other may be
* programmed to support either a synchronous interface or an
* asynchronous interface. The asynchronous interface can be used to
* support external devices such as UARTs and the BCM2019 Bluetooth
* baseband processor.
* The external interface core also contains 2 on-chip 16550 UARTs, clock
* frequency control, a watchdog interrupt timer, and a GPIO interface.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbextif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpInstruction.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpInstruction.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proxy.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nat.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* NAT - Broadcom StrataSwitch NAT API internal definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/nat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_trap_mgmt.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_trap_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_rif.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_rif.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_rif.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_tcam.c,v 1.111 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_tcam.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: niv.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains NIV definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/niv.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: vlan.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: vlan.c
* Purpose: Manages VLAN virtual port functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/vlan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: time.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Time Interface definitions internal to the BCM library.
*
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/time.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blackbird_service.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/blackbird_service.h
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc

echo "there are 3623 more memories to test.";echo "tr 50 M=AGM_MONITOR_TABLE IS=min IE=max ";tr 50 M=AGM_MONITOR_TABLE IS=min IE=max;echo 'done';
echo "there are 3622 more memories to test.";echo "tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ";tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max;echo 'done';
echo "there are 3621 more memories to test.";echo "tr 50 M=BCAST_BLOCK_MASK IS=min IE=max ";tr 50 M=BCAST_BLOCK_MASK IS=min IE=max;echo 'done';
#echo "there are 3620 more memories to test.";echo "tr 50 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max ";tr 50 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max;echo 'done';
#echo "there are 3619 more memories to test.";echo "tr 50 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ";tr 50 M=CLPORT_WC_UCMEM_DATA IS=min IE=max;echo 'done';
echo "there are 3618 more memories to test.";echo "tr 50 M=PORT_COS_MAP IS=min IE=max ";tr 50 M=PORT_COS_MAP IS=min IE=max;echo 'done';
echo "there are 3617 more memories to test.";echo "tr 50 M=COS_MAP_SEL IS=min IE=max ";tr 50 M=COS_MAP_SEL IS=min IE=max;echo 'done';
echo "there are 3616 more memories to test.";echo "tr 50 M=CPU_COS_MAP IS=min IE=max ";tr 50 M=CPU_COS_MAP IS=min IE=max;echo 'done';
echo "there are 3615 more memories to test.";echo "tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ";tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 3614 more memories to test.";echo "tr 50 M=CPU_COS_MAP_ONLY IS=min IE=max ";tr 50 M=CPU_COS_MAP_ONLY IS=min IE=max;echo 'done';
echo "there are 3613 more memories to test.";echo "tr 50 M=CPU_PBM IS=min IE=max ";tr 50 M=CPU_PBM IS=min IE=max;echo 'done';
```

```
echo "there are 3612 more memories to test.";echo "tr 50 M=CPU_PBM_2 IS=min IE=max ";tr 50
M=CPU_PBM_2 IS=min IE=max;echo 'done';
echo "there are 3611 more memories to test.";echo "tr 50 M=CPU_TS_MAP IS=min IE=max ";tr 50
M=CPU_TS_MAP IS=min IE=max;echo 'done';
echo "there are 3610 more memories to test.";echo "tr 50 M=DEST_TRUNK_BITMAP IS=min IE=max ";tr 50
M=DEST_TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 3609 more memories to test.";echo "tr 50 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min
IE=max ";tr 50 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min IE=max;echo 'done';
echo "there are 3608 more memories to test.";echo "tr 50 M=DLB_ECMP_EEM_CONFIGURATION IS=min
IE=max ";tr 50 M=DLB_ECMP_EEM_CONFIGURATION IS=min IE=max;echo 'done';
echo "there are 3607 more memories to test.";echo "tr 50 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ";tr 50 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 3606 more memories to test.";echo "tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3605 more memories to test.";echo "tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3604 more memories to test.";echo "tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3603 more memories to test.";echo "tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3602 more memories to test.";echo "tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3601 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET IS=min IE=max ";tr 50
M=DLB_ECMP_FLOWSET IS=min IE=max;echo 'done';
echo "there are 3600 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max
";tr 50 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max;echo 'done';
echo "there are 3599 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min
IE=max ";tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3598 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min
IE=max ";tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3597 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min
IE=max ";tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3596 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min
IE=max ";tr 50 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3595 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max ";tr
50 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3594 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max ";tr
50 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3593 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max ";tr
50 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3592 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max ";tr
50 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3591 more memories to test.";echo "tr 50 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE
```

```
IS=min IE=max ";tr 50 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE IS=min IE=max;echo 'done';
echo "there are 3590 more memories to test.";echo "tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3589 more memories to test.";echo "tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ";tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3588 more memories to test.";echo "tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3587 more memories to test.";echo "tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3586 more memories to test.";echo "tr 50 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD
IS=min IE=max ";tr 50 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD IS=min IE=max;echo 'done';
echo "there are 3585 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max
";tr 50 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max;echo 'done';
echo "there are 3584 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 3583 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min IE=max;echo 'done';
echo "there are 3582 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_STATS IS=min IE=max ";tr 50
M=DLB_ECMP_GROUP_STATS IS=min IE=max;echo 'done';
echo "there are 3581 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3580 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3579 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3578 more memories to test.";echo "tr 50 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min
IE=max ";tr 50 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3577 more memories to test.";echo "tr 50 M=DLB_ECMP_LINK_CONTROL IS=min IE=max ";tr
50 M=DLB_ECMP_LINK_CONTROL IS=min IE=max;echo 'done';
echo "there are 3576 more memories to test.";echo "tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min
IE=max ";tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min IE=max;echo 'done';
echo "there are 3575 more memories to test.";echo "tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ";tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3574 more memories to test.";echo "tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ";tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3573 more memories to test.";echo "tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ";tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3572 more memories to test.";echo "tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ";tr 50 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3571 more memories to test.";echo "tr 50 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE
IS=min IE=max ";tr 50 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3570 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
```

```
echo "there are 3569 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3568 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3567 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3566 more memories to test.";echo "tr 50 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE
IS=min IE=max ";tr 50 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3565 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3564 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3563 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3562 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3561 more memories to test.";echo "tr 50 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min
IE=max ";tr 50 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min IE=max;echo 'done';
echo "there are 3560 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max;echo 'done';
echo "there are 3559 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3558 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3557 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3556 more memories to test.";echo "tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3555 more memories to test.";echo "tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3554 more memories to test.";echo "tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3553 more memories to test.";echo "tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
```

```
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3552 more memories to test.";echo "tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3551 more memories to test.";echo "tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3550 more memories to test.";echo "tr 50 M=DLB_ECMP_QUANTIZE_CONTROL IS=min
IE=max ";tr 50 M=DLB_ECMP_QUANTIZE_CONTROL IS=min IE=max;echo 'done';
echo "there are 3549 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min IE=max;echo 'done';
echo "there are 3548 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max ";tr 50
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 3547 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3546 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3545 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3544 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3543 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3542 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FLOWSET IS=min IE=max;echo 'done';
echo "there are 3541 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max
";tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3540 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max
";tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3539 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max
";tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3538 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max
";tr 50 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3537 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE IS=min IE=max;echo 'done';
echo "there are 3536 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3535 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3534 more memories to test.";echo "tr 50
```

```
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3533 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3532 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD IS=min IE=max;echo 'done';
echo "there are 3531 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_CONTROL IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_CONTROL IS=min IE=max;echo 'done';
echo "there are 3530 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 3529 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max
";tr 50 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max;echo 'done';
echo "there are 3528 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3527 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3526 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3525 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3524 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_LINK_CONTROL IS=min IE=max
";tr 50 M=DLB_HGT_LAG_LINK_CONTROL IS=min IE=max;echo 'done';
echo "there are 3523 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min
IE=max ";tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min IE=max;echo 'done';
echo "there are 3522 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3521 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3520 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3519 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3518 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3517 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3516 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3515 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3514 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
```

```
echo "there are 3513 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3512 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3511 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3510 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3509 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3508 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING
IS=min IE=max ";tr 50 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING IS=min IE=max;echo 'done';
echo "there are 3507 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max;echo 'done';
echo "there are 3506 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3505 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3504 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3503 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3502 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ";tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max;echo 'done';
echo "there are 3501 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3500 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3499 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3498 more memories to test.";echo "tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ";tr 50
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3497 more memories to test.";echo "tr 50 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min
```

```
IE=max ";tr 50 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min IE=max;echo 'done';
echo "there are 3496 more memories to test.";echo "tr 50 M=DSCP_TABLE IS=min IE=max ";tr 50
M=DSCP_TABLE IS=min IE=max;echo 'done';
echo "there are 3495 more memories to test.";echo "tr 50 M=DST_COMPRESSION IS=min IE=max ";tr 50
M=DST_COMPRESSION IS=min IE=max;echo 'done';
echo "there are 3494 more memories to test.";echo "tr 50 M=DST_COMPRESSION_DATA_ONLY IS=min
IE=max ";tr 50 M=DST_COMPRESSION_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 3493 more memories to test.";echo "tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min
IE=max ";tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3492 more memories to test.";echo "tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min
IE=max ";tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3491 more memories to test.";echo "tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ";tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3490 more memories to test.";echo "tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ";tr 50 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3489 more memories to test.";echo "tr 50 M=DST_COMPRESSION_PIPE0 IS=min IE=max ";tr 50
M=DST_COMPRESSION_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3488 more memories to test.";echo "tr 50 M=DST_COMPRESSION_PIPE1 IS=min IE=max ";tr 50
M=DST_COMPRESSION_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3487 more memories to test.";echo "tr 50 M=DST_COMPRESSION_PIPE2 IS=min IE=max ";tr 50
M=DST_COMPRESSION_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3486 more memories to test.";echo "tr 50 M=DST_COMPRESSION_PIPE3 IS=min IE=max ";tr 50
M=DST_COMPRESSION_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3485 more memories to test.";echo "tr 50 M=DST_COMPRESSION_TCAM_ONLY IS=min
IE=max ";tr 50 M=DST_COMPRESSION_TCAM_ONLY IS=min IE=max;echo 'done';
echo "there are 3484 more memories to test.";echo "tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE0
IS=min IE=max ";tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3483 more memories to test.";echo "tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE1
IS=min IE=max ";tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3482 more memories to test.";echo "tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE2
IS=min IE=max ";tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3481 more memories to test.";echo "tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE3
IS=min IE=max ";tr 50 M=DST_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3480 more memories to test.";echo "tr 50 M=ECMP_DLB_CONTROL IS=min IE=max ";tr 50
M=ECMP_DLB_CONTROL IS=min IE=max;echo 'done';
echo "there are 3479 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE IS=min IE=max ";tr 50
M=EFP_COUNTER_TABLE IS=min IE=max;echo 'done';
echo "there are 3478 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max ";tr
50 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3477 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max ";tr
50 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3476 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max ";tr
50 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3475 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max ";tr
50 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3474 more memories to test.";echo "tr 50 M=EFP_METER_TABLE IS=min IE=max ";tr 50
M=EFP_METER_TABLE IS=min IE=max;echo 'done';
echo "there are 3473 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_PIPE0 IS=min IE=max ";tr 50
```

```
M=EFP_METER_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3472 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_PIPE1 IS=min IE=max ";tr 50
M=EFP_METER_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3471 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_PIPE2 IS=min IE=max ";tr 50
M=EFP_METER_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3470 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_PIPE3 IS=min IE=max ";tr 50
M=EFP_METER_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3469 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 3468 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3467 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3466 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3465 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3464 more memories to test.";echo "tr 50 M=EFP_TCAM IS=min IE=max ";tr 50 M=EFP_TCAM
IS=min IE=max;echo 'done';
echo "there are 3463 more memories to test.";echo "tr 50 M=EFP_TCAM_PIPE0 IS=min IE=max ";tr 50
M=EFP_TCAM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3462 more memories to test.";echo "tr 50 M=EFP_TCAM_PIPE1 IS=min IE=max ";tr 50
M=EFP_TCAM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3461 more memories to test.";echo "tr 50 M=EFP_TCAM_PIPE2 IS=min IE=max ";tr 50
M=EFP_TCAM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3460 more memories to test.";echo "tr 50 M=EFP_TCAM_PIPE3 IS=min IE=max ";tr 50
M=EFP_TCAM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3459 more memories to test.";echo "tr 50 M=EGR_1588_SA IS=min IE=max ";tr 50
M=EGR_1588_SA IS=min IE=max;echo 'done';
echo "there are 3458 more memories to test.";echo "tr 50 M=EGR_DSCP_TABLE IS=min IE=max ";tr 50
M=EGR_DSCP_TABLE IS=min IE=max;echo 'done';
echo "there are 3457 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE IS=min IE=max ";tr 50
M=EGR_DVP_ATTRIBUTE IS=min IE=max;echo 'done';
echo "there are 3456 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ";tr 50
M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max;echo 'done';
echo "there are 3455 more memories to test.";echo "tr 50 M=EGR_EM_MTP_INDEX IS=min IE=max ";tr 50
M=EGR_EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 3454 more memories to test.";echo "tr 50 M=EGR_ENABLE IS=min IE=max ";tr 50
M=EGR_ENABLE IS=min IE=max;echo 'done';
echo "there are 3453 more memories to test.";echo "tr 50 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ";tr 50
M=EGR_ETAG_PCP_MAPPING IS=min IE=max;echo 'done';
echo "there are 3452 more memories to test.";echo "tr 50 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min
IE=max ";tr 50 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 3451 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COS_MAP IS=min IE=max ";tr 50
M=EGR_FLEX_CTR_COS_MAP IS=min IE=max;echo 'done';
echo "there are 3450 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 3449 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0
```

```
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3448 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3447 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3446 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3445 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 3444 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3443 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3442 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3441 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3440 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 3439 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3438 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3437 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3436 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3435 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 3434 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3433 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3432 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3431 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3
IS=min IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3430 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 3429 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 3428 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 3427 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 3426 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
";tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 3425 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max
```

```
";tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max;echo 'done';
echo "there are 3424 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ";tr
50 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 3423 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
";tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 3422 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ";tr 50
M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max;echo 'done';
echo "there are 3421 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ";tr
50 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max;echo 'done';
echo "there are 3420 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min
IE=max ";tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3419 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min
IE=max ";tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3418 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min
IE=max ";tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3417 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min
IE=max ";tr 50 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3416 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES IS=min IE=max ";tr 50
M=EGR_GPP_ATTRIBUTES IS=min IE=max;echo 'done';
echo "there are 3415 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=max ";tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max;echo 'done';
echo "there are 3414 more memories to test.";echo "tr 50 M=EGR_IM_MTP_INDEX IS=min IE=max ";tr 50
M=EGR_IM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 3413 more memories to test.";echo "tr 50 M=EGR_ING_PORT IS=min IE=max ";tr 50
M=EGR_ING_PORT IS=min IE=max;echo 'done';
echo "there are 3412 more memories to test.";echo "tr 50 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min
IE=max ";tr 50 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 3411 more memories to test.";echo "tr 50 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max
";tr 50 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max;echo 'done';
echo "there are 3410 more memories to test.";echo "tr 50 M=EGR_INT_CN_UPDATE IS=min IE=max ";tr 50
M=EGR_INT_CN_UPDATE IS=min IE=max;echo 'done';
echo "there are 3409 more memories to test.";echo "tr 50 M=EGR_IPMC IS=min IE=max ";tr 50 M=EGR_IPMC
IS=min IE=max;echo 'done';
echo "there are 3408 more memories to test.";echo "tr 50 M=EGR_IP_CUT_THRU_CLASS IS=min IE=max ";tr 50
M=EGR_IP_CUT_THRU_CLASS IS=min IE=max;echo 'done';
echo "there are 3407 more memories to test.";echo "tr 50 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min
IE=max ";tr 50 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 3406 more memories to test.";echo "tr 50 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max
";tr 50 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max;echo 'done';
echo "there are 3405 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL IS=min IE=max;echo 'done';
echo "there are 3404 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL_IPV6 IS=min IE=max;echo 'done';
echo "there are 3403 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL_MPLS IS=min IE=max;echo 'done';
echo "there are 3402 more memories to test.";echo "tr 50 M=EGR_L3_INTF IS=min IE=max ";tr 50
M=EGR_L3_INTF IS=min IE=max;echo 'done';
echo "there are 3401 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP IS=min IE=max ";tr 50
```

```
M=EGR_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 3400 more memories to test.";echo "tr 50 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ";tr
50 M=EGR_MACDA_OUI_PROFILE IS=min IE=max;echo 'done';
echo "there are 3399 more memories to test.";echo "tr 50 M=EGR_MAC_DA_PROFILE IS=min IE=max ";tr 50
M=EGR_MAC_DA_PROFILE IS=min IE=max;echo 'done';
echo "there are 3398 more memories to test.";echo "tr 50 M=EGR_MAP_MH IS=min IE=max ";tr 50
M=EGR_MAP_MH IS=min IE=max;echo 'done';
echo "there are 3397 more memories to test.";echo "tr 50 M=EGR_MASK IS=min IE=max ";tr 50 M=EGR_MASK
IS=min IE=max;echo 'done';
echo "there are 3396 more memories to test.";echo "tr 50 M=EGR_MASK_MODBASE IS=min IE=max ";tr 50
M=EGR_MASK_MODBASE IS=min IE=max;echo 'done';
echo "there are 3395 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
";tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max;echo 'done';
echo "there are 3394 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max
";tr 50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max;echo 'done';
echo "there are 3393 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max
";tr 50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max;echo 'done';
echo "there are 3392 more memories to test.";echo "tr 50 M=EGR_MMU_CELL_CREDIT IS=min IE=max ";tr 50
M=EGR_MMU_CELL_CREDIT IS=min IE=max;echo 'done';
echo "there are 3391 more memories to test.";echo "tr 50 M=EGR_MOD_MAP_TABLE IS=min IE=max ";tr 50
M=EGR_MOD_MAP_TABLE IS=min IE=max;echo 'done';
echo "there are 3390 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ";tr
50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max;echo 'done';
echo "there are 3389 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ";tr
50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max;echo 'done';
echo "there are 3388 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
";tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 3387 more memories to test.";echo "tr 50 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ";tr 50
M=EGR_MPLS_PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 3386 more memories to test.";echo "tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ";tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max;echo 'done';
echo "there are 3385 more memories to test.";echo "tr 50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
";tr 50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max;echo 'done';
echo "there are 3384 more memories to test.";echo "tr 50 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS
IS=min IE=max ";tr 50 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS IS=min IE=max;echo 'done';
echo "there are 3383 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ";tr
50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max;echo 'done';
echo "there are 3382 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min
IE=max ";tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3381 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min
IE=max ";tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3380 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min
IE=max ";tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3379 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min
IE=max ";tr 50 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3378 more memories to test.";echo "tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ";tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max;echo 'done';
echo "there are 3377 more memories to test.";echo "tr 50 M=EGR_PORT IS=min IE=max ";tr 50 M=EGR_PORT
```

```
IS=min IE=max;echo 'done';
echo "there are 3376 more memories to test.";echo "tr 50 M=EGR_PORT_CREDIT_RESET IS=min IE=max ";tr 50
M=EGR_PORT_CREDIT_RESET IS=min IE=max;echo 'done';
echo "there are 3375 more memories to test.";echo "tr 50 M=EGR_PRI_CNG_MAP IS=min IE=max ";tr 50
M=EGR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 3374 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS IS=min IE=max ";tr 50
M=EGR_PW_INIT_COUNTERS IS=min IE=max;echo 'done';
echo "there are 3373 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max
";tr 50 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3372 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max
";tr 50 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3371 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max
";tr 50 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3370 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max
";tr 50 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 3369 more memories to test.";echo "tr 50 M=EGR_SER_FIFO IS=min IE=max ";tr 50
M=EGR_SER_FIFO IS=min IE=max;echo 'done';
#echo "there are 3368 more memories to test.";echo "tr 50 M=EGR_SER_FIFO_PIPE0 IS=min IE=max ";tr 50
M=EGR_SER_FIFO_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 3367 more memories to test.";echo "tr 50 M=EGR_SER_FIFO_PIPE1 IS=min IE=max ";tr 50
M=EGR_SER_FIFO_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 3366 more memories to test.";echo "tr 50 M=EGR_SER_FIFO_PIPE2 IS=min IE=max ";tr 50
M=EGR_SER_FIFO_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 3365 more memories to test.";echo "tr 50 M=EGR_SER_FIFO_PIPE3 IS=min IE=max ";tr 50
M=EGR_SER_FIFO_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3364 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max
";tr 50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 3363 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max
";tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max;echo 'done';
echo "there are 3362 more memories to test.";echo "tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=max ";tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max;echo 'done';
echo "there are 3361 more memories to test.";echo "tr 50 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ";tr
50 M=EGR_TRILL_TREE_PROFILE IS=min IE=max;echo 'done';
echo "there are 3360 more memories to test.";echo "tr 50 M=EGR_TS_ING_PORT_MAP IS=min IE=max ";tr 50
M=EGR_TS_ING_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 3359 more memories to test.";echo "tr 50 M=EGR_TS_UTC_CONVERSION IS=min IE=max ";tr
50 M=EGR_TS_UTC_CONVERSION IS=min IE=max;echo 'done';
echo "there are 3358 more memories to test.";echo "tr 50 M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max ";tr 50
M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max;echo 'done';
echo "there are 3357 more memories to test.";echo "tr 50 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max ";tr
50 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max;echo 'done';
echo "there are 3356 more memories to test.";echo "tr 50 M=EGR_VFI IS=min IE=max ";tr 50 M=EGR_VFI
IS=min IE=max;echo 'done';
echo "there are 3355 more memories to test.";echo "tr 50 M=EGR_VLAN IS=min IE=max ";tr 50 M=EGR_VLAN
IS=min IE=max;echo 'done';
echo "there are 3354 more memories to test.";echo "tr 50 M=EGR_VLAN_STG IS=min IE=max ";tr 50
M=EGR_VLAN_STG IS=min IE=max;echo 'done';
echo "there are 3353 more memories to test.";echo "tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
```

```
IE=max ";tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 3352 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE IS=min IE=max;echo 'done';
echo "there are 3351 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_ECC IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE_ECC IS=min IE=max;echo 'done';
echo "there are 3350 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_LP IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE_LP IS=min IE=max;echo 'done';
echo "there are 3349 more memories to test.";echo "tr 50 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max ";tr
50 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max;echo 'done';
echo "there are 3348 more memories to test.";echo "tr 50 M=EGR_VPLAG_GROUP IS=min IE=max ";tr 50
M=EGR_VPLAG_GROUP IS=min IE=max;echo 'done';
echo "there are 3347 more memories to test.";echo "tr 50 M=EGR_VPLAG_MEMBER IS=min IE=max ";tr 50
M=EGR_VPLAG_MEMBER IS=min IE=max;echo 'done';
echo "there are 3346 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max
";tr 50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 3345 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max;echo 'done';
echo "there are 3344 more memories to test.";echo "tr 50 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max
";tr 50 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max;echo 'done';
echo "there are 3343 more memories to test.";echo "tr 50 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max
";tr 50 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max;echo 'done';
echo "there are 3342 more memories to test.";echo "tr 50 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max
";tr 50 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max;echo 'done';
echo "there are 3341 more memories to test.";echo "tr 50 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max ";tr
50 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max;echo 'done';
echo "there are 3340 more memories to test.";echo "tr 50 M=EGR_XMIT_START_COUNT IS=min IE=max ";tr 50
M=EGR_XMIT_START_COUNT IS=min IE=max;echo 'done';
echo "there are 3339 more memories to test.";echo "tr 50 M=EGR_XMIT_START_COUNT_PIPE0 IS=min
IE=max ";tr 50 M=EGR_XMIT_START_COUNT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3338 more memories to test.";echo "tr 50 M=EGR_XMIT_START_COUNT_PIPE1 IS=min
IE=max ";tr 50 M=EGR_XMIT_START_COUNT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3337 more memories to test.";echo "tr 50 M=EGR_XMIT_START_COUNT_PIPE2 IS=min
IE=max ";tr 50 M=EGR_XMIT_START_COUNT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3336 more memories to test.";echo "tr 50 M=EGR_XMIT_START_COUNT_PIPE3 IS=min
IE=max ";tr 50 M=EGR_XMIT_START_COUNT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3335 more memories to test.";echo "tr 50 M=EH_MASK_PROFILE IS=min IE=max ";tr 50
M=EH_MASK_PROFILE IS=min IE=max;echo 'done';
echo "there are 3334 more memories to test.";echo "tr 50 M=EH_MASK_PROFILE_PIPE0 IS=min IE=max ";tr 50
M=EH_MASK_PROFILE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3333 more memories to test.";echo "tr 50 M=EH_MASK_PROFILE_PIPE1 IS=min IE=max ";tr 50
M=EH_MASK_PROFILE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3332 more memories to test.";echo "tr 50 M=EH_MASK_PROFILE_PIPE2 IS=min IE=max ";tr 50
M=EH_MASK_PROFILE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3331 more memories to test.";echo "tr 50 M=EH_MASK_PROFILE_PIPE3 IS=min IE=max ";tr 50
M=EH_MASK_PROFILE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3330 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL IS=min IE=max ";tr 50
M=EMIRROR_CONTROL IS=min IE=max;echo 'done';
echo "there are 3329 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL1 IS=min IE=max ";tr 50
```

```
M=EMIRROR_CONTROL1 IS=min IE=max;echo 'done';
echo "there are 3328 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL2 IS=min IE=max ";tr 50
M=EMIRROR_CONTROL2 IS=min IE=max;echo 'done';
echo "there are 3327 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL3 IS=min IE=max ";tr 50
M=EMIRROR_CONTROL3 IS=min IE=max;echo 'done';
echo "there are 3326 more memories to test.";echo "tr 50 M=EM_MTP_INDEX IS=min IE=max ";tr 50
M=EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 3325 more memories to test.";echo "tr 50 M=EPC_LINK_BMAP IS=min IE=max ";tr 50
M=EPC_LINK_BMAP IS=min IE=max;echo 'done';
if $?fpem_mem_entries 'echo "there are 3324 more memories to test.";echo "tr 50 M=EXACT_MATCH_2 IS=min
IE=max ";tr 50 M=EXACT_MATCH_2 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3323 more memories to test.";echo "tr 50
M=EXACT_MATCH_2_ENTRY_ONLY IS=min IE=max ";tr 50 M=EXACT_MATCH_2_ENTRY_ONLY
IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3322 more memories to test.";echo "tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3321 more memories to test.";echo "tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3320 more memories to test.";echo "tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3319 more memories to test.";echo "tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3318 more memories to test.";echo "tr 50 M=EXACT_MATCH_2_PIPE0
IS=min IE=max ";tr 50 M=EXACT_MATCH_2_PIPE0 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3317 more memories to test.";echo "tr 50 M=EXACT_MATCH_2_PIPE1
IS=min IE=max ";tr 50 M=EXACT_MATCH_2_PIPE1 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3316 more memories to test.";echo "tr 50 M=EXACT_MATCH_2_PIPE2
IS=min IE=max ";tr 50 M=EXACT_MATCH_2_PIPE2 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3315 more memories to test.";echo "tr 50 M=EXACT_MATCH_2_PIPE3
IS=min IE=max ";tr 50 M=EXACT_MATCH_2_PIPE3 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3314 more memories to test.";echo "tr 50 M=EXACT_MATCH_4 IS=min
IE=max ";tr 50 M=EXACT_MATCH_4 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3313 more memories to test.";echo "tr 50
M=EXACT_MATCH_4_ENTRY_ONLY IS=min IE=max ";tr 50 M=EXACT_MATCH_4_ENTRY_ONLY
IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3312 more memories to test.";echo "tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3311 more memories to test.";echo "tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3310 more memories to test.";echo "tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max;echo 'done';'
```

```
if $?fpem_mem_entries 'echo "there are 3309 more memories to test.";echo "tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3308 more memories to test.";echo "tr 50 M=EXACT_MATCH_4_PIPE0
IS=min IE=max ";tr 50 M=EXACT_MATCH_4_PIPE0 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3307 more memories to test.";echo "tr 50 M=EXACT_MATCH_4_PIPE1
IS=min IE=max ";tr 50 M=EXACT_MATCH_4_PIPE1 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3306 more memories to test.";echo "tr 50 M=EXACT_MATCH_4_PIPE2
IS=min IE=max ";tr 50 M=EXACT_MATCH_4_PIPE2 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3305 more memories to test.";echo "tr 50 M=EXACT_MATCH_4_PIPE3
IS=min IE=max ";tr 50 M=EXACT_MATCH_4_PIPE3 IS=min IE=max;echo 'done';'
echo "there are 3304 more memories to test.";echo "tr 50 M=EXACT_MATCH_ACTION_PROFILE IS=min
IE=max ";tr 50 M=EXACT_MATCH_ACTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 3303 more memories to test.";echo "tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE0
IS=min IE=max ";tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3302 more memories to test.";echo "tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE1
IS=min IE=max ";tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3301 more memories to test.";echo "tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE2
IS=min IE=max ";tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3300 more memories to test.";echo "tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE3
IS=min IE=max ";tr 50 M=EXACT_MATCH_ACTION_PROFILE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3299 more memories to test.";echo "tr 50 M=EXACT_MATCH_DEFAULT_POLICY IS=min
IE=max ";tr 50 M=EXACT_MATCH_DEFAULT_POLICY IS=min IE=max;echo 'done';
echo "there are 3298 more memories to test.";echo "tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0
IS=min IE=max ";tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3297 more memories to test.";echo "tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1
IS=min IE=max ";tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3296 more memories to test.";echo "tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2
IS=min IE=max ";tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3295 more memories to test.";echo "tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3
IS=min IE=max ";tr 50 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3 IS=min IE=max;echo 'done';
if $?fpem_mem_entries 'echo "there are 3294 more memories to test.";echo "tr 50
M=EXACT_MATCH_HIT_ONLY IS=min IE=max ";tr 50 M=EXACT_MATCH_HIT_ONLY IS=min
IE=max;echo 'done';'
echo "there are 3293 more memories to test.";echo "tr 50 M=EXACT_MATCH_KEY_GEN_MASK IS=min
IE=max ";tr 50 M=EXACT_MATCH_KEY_GEN_MASK IS=min IE=max;echo 'done';
echo "there are 3292 more memories to test.";echo "tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min
IE=max ";tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3291 more memories to test.";echo "tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min
IE=max ";tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3290 more memories to test.";echo "tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min
IE=max ";tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3289 more memories to test.";echo "tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min
IE=max ";tr 50 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3288 more memories to test.";echo "tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ";tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max;echo 'done';
echo "there are 3287 more memories to test.";echo "tr 50
```

```
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3286 more memories to test.";echo "tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3285 more memories to test.";echo "tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3284 more memories to test.";echo "tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3283 more memories to test.";echo "tr 50 M=EXACT_MATCH_LOGICAL_TABLE_SELECT
IS=min IE=max ";tr 50 M=EXACT_MATCH_LOGICAL_TABLE_SELECT IS=min IE=max;echo 'done';
echo "there are 3282 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 3281 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3280 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3279 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3278 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3277 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3276 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3275 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3274 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3273 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max;echo 'done';
echo "there are 3272 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3271 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ";tr 50
```

```
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3270 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3269 more memories to test.";echo "tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3268 more memories to test.";echo "tr 50 M=EXACT_MATCH_QOS_ACTIONS_PROFILE
IS=min IE=max ";tr 50 M=EXACT_MATCH_QOS_ACTIONS_PROFILE IS=min IE=max;echo 'done';
echo "there are 3267 more memories to test.";echo "tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max ";tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3266 more memories to test.";echo "tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max ";tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3265 more memories to test.";echo "tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max ";tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3264 more memories to test.";echo "tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max ";tr 50
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3263 more memories to test.";echo "tr 50 M=FAST_TRUNK_GROUP IS=min IE=max ";tr 50
M=FAST_TRUNK_GROUP IS=min IE=max;echo 'done';
if $?fpem_mem_entries 'echo "there are 3262 more memories to test.";echo "tr 50 M=FPEM_ECC IS=min IE=max
";tr 50 M=FPEM_ECC IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3261 more memories to test.";echo "tr 50 M=FPEM_ECC_PIPE0 IS=min
IE=max ";tr 50 M=FPEM_ECC_PIPE0 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3260 more memories to test.";echo "tr 50 M=FPEM_ECC_PIPE1 IS=min
IE=max ";tr 50 M=FPEM_ECC_PIPE1 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3259 more memories to test.";echo "tr 50 M=FPEM_ECC_PIPE2 IS=min
IE=max ";tr 50 M=FPEM_ECC_PIPE2 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3258 more memories to test.";echo "tr 50 M=FPEM_ECC_PIPE3 IS=min
IE=max ";tr 50 M=FPEM_ECC_PIPE3 IS=min IE=max;echo 'done';'
if $?fpem_mem_entries 'echo "there are 3257 more memories to test.";echo "tr 50 M=FPEM_LP IS=min IE=max
";tr 50 M=FPEM_LP IS=min IE=max;echo 'done';'
echo "there are 3256 more memories to test.";echo "tr 50 M=GTP_PORT_TABLE IS=min IE=max ";tr 50
M=GTP_PORT_TABLE IS=min IE=max;echo 'done';
echo "there are 3255 more memories to test.";echo "tr 50 M=HGT_DLB_CONTROL IS=min IE=max ";tr 50
M=HGT_DLB_CONTROL IS=min IE=max;echo 'done';
echo "there are 3254 more memories to test.";echo "tr 50 M=HG_TRUNK_BITMAP IS=min IE=max ";tr 50
M=HG_TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 3253 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max
";tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max;echo 'done';
echo "there are 3252 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ";tr
50 M=HG_TRUNK_FAILOVER_SET IS=min IE=max;echo 'done';
echo "there are 3251 more memories to test.";echo "tr 50 M=HG_TRUNK_GROUP IS=min IE=max ";tr 50
M=HG_TRUNK_GROUP IS=min IE=max;echo 'done';
echo "there are 3250 more memories to test.";echo "tr 50 M=HG_TRUNK_RR_CNT IS=min IE=max ";tr 50
```

```
M=HG_TRUNK_RR_CNT IS=min IE=max;echo 'done';
echo "there are 3249 more memories to test.";echo "tr 50 M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max ";tr 50
M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3248 more memories to test.";echo "tr 50 M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max ";tr 50
M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3247 more memories to test.";echo "tr 50 M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max ";tr 50
M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3246 more memories to test.";echo "tr 50 M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max ";tr 50
M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3245 more memories to test.";echo "tr 50 M=HG_TRUNK_MEMBER IS=min IE=max ";tr 50
M=HG_TRUNK_MEMBER IS=min IE=max;echo 'done';
echo "there are 3244 more memories to test.";echo "tr 50 M=HG_TRUNK_MODE IS=min IE=max ";tr 50
M=HG_TRUNK_MODE IS=min IE=max;echo 'done';
echo "there are 3243 more memories to test.";echo "tr 50 M=HIGIG_TRUNK_CONTROL IS=min IE=max ";tr 50
M=HIGIG_TRUNK_CONTROL IS=min IE=max;echo 'done';
echo "there are 3242 more memories to test.";echo "tr 50 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ";tr
50 M=ICONTROL_OPCODE_BITMAP IS=min IE=max;echo 'done';
echo "there are 3241 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3240 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3239 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3238 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3237 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3236 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3235 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3234 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3233 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3232 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3231 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3230 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3229 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3228 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3227 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3226 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3225 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3224 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3223 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3222 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3221 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3220 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3219 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3218 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3217 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3216 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3215 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3214 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3213 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3212 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3211 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3210 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3209 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3208 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3207 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3206 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3205 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3204 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3203 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3202 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min
```

IE=max ";tr 50 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3201 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3200 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3199 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3198 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3197 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3196 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3195 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3194 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3193 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3192 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3191 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3190 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3189 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3188 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3187 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3186 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3185 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3184 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3183 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3182 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3181 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3180 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3179 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3178 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min

```
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3177 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3176 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3175 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3174 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3173 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3172 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3171 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3170 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3169 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3168 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3167 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3166 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3165 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3164 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3163 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3162 more memories to test.";echo "tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3161 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3160 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3159 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3158 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3157 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3156 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3155 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3154 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3153 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3152 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3151 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3150 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3149 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3148 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3147 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3146 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3145 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3144 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3143 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3142 more memories to test.";echo "tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3141 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3140 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3139 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3138 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3137 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3136 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3135 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3134 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3133 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3132 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3131 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3130 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3129 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3128 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3127 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3126 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3125 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3124 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3123 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3122 more memories to test.";echo "tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3121 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3120 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3119 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3118 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3117 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3116 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3115 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3114 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3113 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3112 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3111 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3110 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3109 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3108 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3107 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3106 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3105 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3104 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3103 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3102 more memories to test.";echo "tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3101 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3100 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3099 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3098 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3097 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3096 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3095 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3094 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3093 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3092 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3091 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3090 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3089 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3088 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3087 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3086 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3085 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3084 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3083 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3082 more memories to test.";echo "tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min
```

IE=max ";tr 50 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3081 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3080 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3079 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3078 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3077 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3076 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3075 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3074 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3073 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3072 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3071 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3070 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3069 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3068 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3067 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3066 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3065 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3064 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3063 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3062 more memories to test.";echo "tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3061 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3060 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3059 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3058 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min

```
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3057 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3056 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3055 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3054 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3053 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3052 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3051 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3050 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3049 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3048 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3047 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3046 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3045 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3044 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3043 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3042 more memories to test.";echo "tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3041 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3040 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3039 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3038 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3037 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3036 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3035 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3034 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3033 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3032 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3031 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3030 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3029 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3028 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3027 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3026 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3025 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3024 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3023 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3022 more memories to test.";echo "tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3021 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3020 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3019 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3018 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3017 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3016 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 3015 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3014 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3013 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3012 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3011 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 3010 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3009 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3008 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3007 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3006 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 3005 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 3004 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 3003 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 3002 more memories to test.";echo "tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 3001 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 3000 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2999 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2998 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2997 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2996 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2995 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2994 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2993 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2992 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2991 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2990 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2989 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2988 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2987 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2986 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2985 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2984 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2983 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2982 more memories to test.";echo "tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2981 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2980 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2979 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2978 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2977 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2976 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2975 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2974 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2973 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2972 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2971 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2970 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2969 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2968 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2967 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2966 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2965 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2964 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2963 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2962 more memories to test.";echo "tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min
```

IE=max ";tr 50 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2961 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2960 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2959 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2958 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2957 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2956 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2955 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2954 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2953 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2952 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2951 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2950 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2949 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2948 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2947 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2946 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2945 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2944 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2943 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2942 more memories to test.";echo "tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2941 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2940 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2939 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2938 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min

```
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2937 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2936 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2935 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2934 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2933 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2932 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2931 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2930 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2929 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2928 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2927 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2926 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2925 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2924 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2923 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2922 more memories to test.";echo "tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2921 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2920 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2919 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2918 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2917 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2916 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2915 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2914 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2913 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2912 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2911 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2910 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2909 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2908 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2907 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2906 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2905 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2904 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2903 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2902 more memories to test.";echo "tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2901 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2900 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2899 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2898 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2897 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2896 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2895 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2894 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2893 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2892 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2891 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2890 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min
```

IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2889 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2888 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2887 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2886 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2885 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2884 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2883 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2882 more memories to test.";echo "tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2881 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2880 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2879 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2878 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2877 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2876 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2875 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2874 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2873 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2872 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2871 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2870 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2869 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2868 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2867 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2866 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max

```
";tr 50 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2865 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2864 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2863 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2862 more memories to test.";echo "tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2861 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2860 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2859 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2858 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2857 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2856 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2855 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2854 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2853 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2852 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2851 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2850 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2849 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2848 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2847 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2846 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2845 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2844 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2843 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2842 more memories to test.";echo "tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min
```

IE=max ";tr 50 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2841 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2840 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2839 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2838 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2837 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2836 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2835 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2834 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2833 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2832 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2831 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2830 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2829 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2828 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2827 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2826 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2825 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2824 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2823 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2822 more memories to test.";echo "tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2821 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2820 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2819 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2818 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min

IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2817 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2816 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2815 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2814 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2813 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2812 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2811 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2810 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2809 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2808 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2807 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2806 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2805 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2804 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2803 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2802 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2801 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2800 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2799 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2798 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2797 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2796 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2795 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2794 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min

```
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2793 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2792 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2791 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2790 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2789 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2788 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2787 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2786 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2785 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2784 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2783 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2782 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2781 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2780 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2779 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2778 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2777 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2776 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2775 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2774 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2773 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2772 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2771 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2770 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2769 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2768 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2767 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2766 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2765 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2764 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2763 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2762 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2761 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2760 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2759 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2758 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2757 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2756 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2755 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2754 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2753 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2752 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2751 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2750 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2749 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2748 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2747 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2746 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2745 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2744 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2743 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2742 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2741 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2740 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2739 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2738 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2737 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2736 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2735 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2734 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2733 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2732 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2731 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2730 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2729 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2728 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2727 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2726 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2725 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2724 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2723 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2722 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2721 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2720 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2719 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2718 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2717 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2716 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2715 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2714 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2713 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2712 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2711 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2710 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2709 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2708 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2707 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2706 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2705 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2704 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2703 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2702 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2701 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2700 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2699 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2698 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min
```

IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2697 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2696 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2695 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2694 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2693 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2692 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2691 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2690 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2689 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2688 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2687 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2686 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2685 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2684 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2683 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2682 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2681 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2680 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2679 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2678 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2677 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2676 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2675 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2674 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min

```
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2673 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2672 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2671 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2670 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2669 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2668 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2667 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2666 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2665 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2664 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2663 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2662 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2661 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2660 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2659 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2658 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2657 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2656 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2655 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2654 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2653 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2652 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2651 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2650 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2649 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2648 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2647 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2646 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2645 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2644 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2643 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2642 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2641 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2640 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2639 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2638 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2637 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2636 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2635 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2634 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2633 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2632 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2631 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2630 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2629 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2628 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2627 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2626 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2625 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2624 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2623 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2622 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2621 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2620 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2619 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2618 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2617 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2616 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2615 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2614 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2613 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2612 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2611 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2610 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2609 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2608 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2607 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2606 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2605 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2604 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2603 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2602 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min
```

IE=max ";tr 50 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2601 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2600 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2599 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2598 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2597 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2596 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2595 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2594 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2593 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2592 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2591 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2590 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2589 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2588 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2587 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2586 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2585 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2584 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2583 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2582 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2581 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2580 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2579 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2578 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min

IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2577 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2576 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2575 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2574 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2573 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2572 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2571 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2570 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2569 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2568 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2567 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2566 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2565 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2564 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2563 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2562 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2561 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2560 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2559 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2558 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2557 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2556 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2555 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2554 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min

```
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2553 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2552 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2551 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2550 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2549 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2548 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2547 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2546 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2545 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2544 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2543 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2542 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2541 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2540 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2539 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2538 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2537 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2536 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2535 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2534 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2533 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2532 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2531 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2530 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2529 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2528 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2527 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2526 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2525 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2524 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2523 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2522 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2521 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2520 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2519 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2518 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2517 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2516 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2515 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2514 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2513 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2512 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2511 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2510 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2509 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2508 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2507 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2506 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2505 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2504 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2503 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2502 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2501 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2500 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2499 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2498 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2497 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2496 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2495 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2494 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2493 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2492 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2491 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2490 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2489 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2488 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2487 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2486 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2485 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2484 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2483 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2482 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2481 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2480 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2479 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2478 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2477 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2476 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2475 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2474 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2473 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2472 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2471 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2470 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2469 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2468 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2467 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2466 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2465 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2464 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2463 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2462 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2461 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2460 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2459 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2458 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min
```

IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2457 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2456 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2455 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2454 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2453 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2452 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2451 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2450 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2449 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2448 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2447 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2446 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2445 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2444 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2443 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2442 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2441 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2440 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2439 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2438 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2437 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2436 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2435 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2434 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min

```
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2433 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2432 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2431 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2430 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2429 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2428 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2427 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2426 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2425 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2424 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2423 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2422 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2421 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2420 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2419 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2418 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2417 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2416 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2415 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2414 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2413 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2412 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2411 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2410 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2409 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2408 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2407 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2406 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2405 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2404 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2403 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2402 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2401 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2400 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2399 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2398 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2397 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2396 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2395 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2394 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2393 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2392 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2391 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2390 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2389 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2388 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2387 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2386 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max
```

```
";tr 50 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2385 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2384 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2383 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2382 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2381 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2380 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2379 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2378 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2377 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2376 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2375 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2374 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2373 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2372 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2371 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2370 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2369 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2368 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2367 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2366 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2365 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2364 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2363 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2362 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2361 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2360 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2359 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2358 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2357 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2356 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2355 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2354 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2353 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2352 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2351 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2350 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2349 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2348 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2347 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2346 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2345 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2344 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2343 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2342 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2341 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2340 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2339 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2338 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2337 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2336 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2335 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2334 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2333 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2332 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2331 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2330 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2329 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2328 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2327 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2326 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2325 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2324 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2323 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2322 more memories to test.";echo "tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2321 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max
";tr 50 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2320 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2319 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2318 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2317 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2316 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max
";tr 50 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2315 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2314 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2313 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2312 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2311 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max
";tr 50 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2310 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2309 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2308 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2307 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2306 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max
";tr 50 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2305 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2304 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2303 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2302 more memories to test.";echo "tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2301 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 2300 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2299 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2298 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2297 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2296 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 2295 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2294 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2293 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2292 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2291 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 2290 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min
```

```
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2289 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2288 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2287 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2286 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 2285 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2284 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2283 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2282 more memories to test.";echo "tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ";tr 50 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2281 more memories to test.";echo "tr 50 M=IFP_COS_MAP IS=min IE=max ";tr 50
M=IFP_COS_MAP IS=min IE=max;echo 'done';
echo "there are 2280 more memories to test.";echo "tr 50 M=IFP_HG_CLASSID_SELECT IS=min IE=max ";tr 50
M=IFP_HG_CLASSID_SELECT IS=min IE=max;echo 'done';
echo "there are 2279 more memories to test.";echo "tr 50 M=IFP_I2E_CLASSID_SELECT IS=min IE=max ";tr 50
M=IFP_I2E_CLASSID_SELECT IS=min IE=max;echo 'done';
echo "there are 2278 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min
IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min IE=max;echo 'done';
echo "there are 2277 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min
IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min IE=max;echo 'done';
echo "there are 2276 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2275 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2274 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2273 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2272 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2271 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2270 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2269 more memories to test.";echo "tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3
IS=min IE=max ";tr 50 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2268 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY
IS=min IE=max ";tr 50 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY IS=min IE=max;echo 'done';
echo "there are 2267 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max;echo 'done';
```

```
echo "there are 2266 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2265 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2264 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2263 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max
";tr 50 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max;echo 'done';
echo "there are 2262 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY
IS=min IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 2261 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2260 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2259 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2258 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2257 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min
IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2256 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min
IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2255 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min
IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2254 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min
IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2253 more memories to test.";echo "tr 50 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY
IS=min IE=max ";tr 50 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max;echo 'done';
echo "there are 2252 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2251 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2250 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2249 more memories to test.";echo "tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ";tr 50
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2248 more memories to test.";echo "tr 50 M=IFP_METER_TABLE IS=min IE=max ";tr 50
```

```
M=IFP_METER_TABLE IS=min IE=max;echo 'done';
echo "there are 2247 more memories to test.";echo "tr 50 M=IFP_METER_TABLE_PIPE0 IS=min IE=max ";tr 50
M=IFP_METER_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2246 more memories to test.";echo "tr 50 M=IFP_METER_TABLE_PIPE1 IS=min IE=max ";tr 50
M=IFP_METER_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2245 more memories to test.";echo "tr 50 M=IFP_METER_TABLE_PIPE2 IS=min IE=max ";tr 50
M=IFP_METER_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2244 more memories to test.";echo "tr 50 M=IFP_METER_TABLE_PIPE3 IS=min IE=max ";tr 50
M=IFP_METER_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2243 more memories to test.";echo "tr 50 M=IFP_POLICY_TABLE IS=min IE=max ";tr 50
M=IFP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 2242 more memories to test.";echo "tr 50 M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max ";tr 50
M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2241 more memories to test.";echo "tr 50 M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max ";tr 50
M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2240 more memories to test.";echo "tr 50 M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max ";tr 50
M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2239 more memories to test.";echo "tr 50 M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max ";tr 50
M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2238 more memories to test.";echo "tr 50 M=IFP_PORT_METER_MAP IS=min IE=max ";tr 50
M=IFP_PORT_METER_MAP IS=min IE=max;echo 'done';
echo "there are 2237 more memories to test.";echo "tr 50 M=IFP_RANGE_CHECK IS=min IE=max ";tr 50
M=IFP_RANGE_CHECK IS=min IE=max;echo 'done';
echo "there are 2236 more memories to test.";echo "tr 50 M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max ";tr 50
M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2235 more memories to test.";echo "tr 50 M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max ";tr 50
M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2234 more memories to test.";echo "tr 50 M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max ";tr 50
M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2233 more memories to test.";echo "tr 50 M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max ";tr 50
M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2232 more memories to test.";echo "tr 50 M=IFP_REDIRECTION_PROFILE IS=min IE=max ";tr
50 M=IFP_REDIRECTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 2231 more memories to test.";echo "tr 50 M=IFP_STORM_CONTROL_METERS IS=min IE=max
";tr 50 M=IFP_STORM_CONTROL_METERS IS=min IE=max;echo 'done';
echo "there are 2230 more memories to test.";echo "tr 50 M=IFP_TCAM IS=min IE=max ";tr 50 M=IFP_TCAM
IS=min IE=max;echo 'done';
echo "there are 2229 more memories to test.";echo "tr 50 M=IFP_TCAM_PIPE0 IS=min IE=max ";tr 50
M=IFP_TCAM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2228 more memories to test.";echo "tr 50 M=IFP_TCAM_PIPE1 IS=min IE=max ";tr 50
M=IFP_TCAM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2227 more memories to test.";echo "tr 50 M=IFP_TCAM_PIPE2 IS=min IE=max ";tr 50
M=IFP_TCAM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2226 more memories to test.";echo "tr 50 M=IFP_TCAM_PIPE3 IS=min IE=max ";tr 50
M=IFP_TCAM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2225 more memories to test.";echo "tr 50 M=IFP_TCAM_WIDE IS=min IE=max ";tr 50
M=IFP_TCAM_WIDE IS=min IE=max;echo 'done';
echo "there are 2224 more memories to test.";echo "tr 50 M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max ";tr 50
```

```
M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2223 more memories to test.";echo "tr 50 M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max ";tr 50
M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2222 more memories to test.";echo "tr 50 M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max ";tr 50
M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2221 more memories to test.";echo "tr 50 M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max ";tr 50
M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2220 more memories to test.";echo "tr 50 M=IMIRROR_BITMAP IS=min IE=max ";tr 50
M=IMIRROR_BITMAP IS=min IE=max;echo 'done';
echo "there are 2219 more memories to test.";echo "tr 50 M=IM_MTP_INDEX IS=min IE=max ";tr 50
M=IM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 2218 more memories to test.";echo "tr 50 M=ING_1588_INGRESS_CTRL IS=min IE=max ";tr 50
M=ING_1588_INGRESS_CTRL IS=min IE=max;echo 'done';
echo "there are 2217 more memories to test.";echo "tr 50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ";tr
50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max;echo 'done';
echo "there are 2216 more memories to test.";echo "tr 50 M=ING_DEST_PORT_ENABLE IS=min IE=max ";tr 50
M=ING_DEST_PORT_ENABLE IS=min IE=max;echo 'done';
echo "there are 2215 more memories to test.";echo "tr 50 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ";tr
50 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max;echo 'done';
echo "there are 2214 more memories to test.";echo "tr 50 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max
";tr 50 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max;echo 'done';
echo "there are 2213 more memories to test.";echo "tr 50 M=ING_DVP_2_TABLE IS=min IE=max ";tr 50
M=ING_DVP_2_TABLE IS=min IE=max;echo 'done';
echo "there are 2212 more memories to test.";echo "tr 50 M=ING_DVP_TABLE IS=min IE=max ";tr 50
M=ING_DVP_TABLE IS=min IE=max;echo 'done';
echo "there are 2211 more memories to test.";echo "tr 50 M=ING_EGRMSKBMAP IS=min IE=max ";tr 50
M=ING_EGRMSKBMAP IS=min IE=max;echo 'done';
echo "there are 2210 more memories to test.";echo "tr 50 M=ING_EN_EFILTER_BITMAP IS=min IE=max ";tr 50
M=ING_EN_EFILTER_BITMAP IS=min IE=max;echo 'done';
echo "there are 2209 more memories to test.";echo "tr 50 M=ING_ETAG_PCP_MAPPING IS=min IE=max ";tr 50
M=ING_ETAG_PCP_MAPPING IS=min IE=max;echo 'done';
echo "there are 2208 more memories to test.";echo "tr 50 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max
";tr 50 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max;echo 'done';
echo "there are 2207 more memories to test.";echo "tr 50 M=ING_FC_HEADER_TYPE IS=min IE=max ";tr 50
M=ING_FC_HEADER_TYPE IS=min IE=max;echo 'done';
echo "there are 2206 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 2205 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2204 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2203 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2202 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2201 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 2200 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min
```

```
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min IE=max;echo 'done';
echo "there are 2199 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2198 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2197 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2196 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2195 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min IE=max;echo 'done';
echo "there are 2194 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2193 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2192 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2191 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2190 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min IE=max;echo 'done';
echo "there are 2189 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2188 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2187 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2186 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2185 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min IE=max;echo 'done';
echo "there are 2184 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2183 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2182 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2181 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2180 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min IE=max;echo 'done';
echo "there are 2179 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2178 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2177 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2176 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3
```

```
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2175 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min IE=max;echo 'done';
echo "there are 2174 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2173 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2172 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2171 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2170 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min IE=max;echo 'done';
echo "there are 2169 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2168 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2167 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2166 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2165 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min IE=max;echo 'done';
echo "there are 2164 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2163 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2162 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2161 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2160 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min IE=max;echo 'done';
echo "there are 2159 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2158 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2157 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2156 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2155 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min IE=max;echo 'done';
echo "there are 2154 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2153 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2152 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2
```

```
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2151 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2150 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2149 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2148 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2147 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2146 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 2145 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2144 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2143 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2142 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2141 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 2140 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2139 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2138 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2137 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2136 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max;echo 'done';
echo "there are 2135 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2134 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2133 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2132 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2131 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max;echo 'done';
echo "there are 2130 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2129 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2128 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2
```

```
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2127 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2126 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max;echo 'done';
echo "there are 2125 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2124 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2123 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2122 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2121 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max;echo 'done';
echo "there are 2120 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2119 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2118 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2117 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2116 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min IE=max;echo 'done';
echo "there are 2115 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2114 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2113 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2112 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2111 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min IE=max;echo 'done';
echo "there are 2110 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2109 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2108 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2107 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3
IS=min IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2106 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 2105 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 2104 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min
```

```
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min IE=max;echo 'done';
echo "there are 2103 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min IE=max;echo 'done';
echo "there are 2102 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min IE=max;echo 'done';
echo "there are 2101 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min IE=max;echo 'done';
echo "there are 2100 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min IE=max;echo 'done';
echo "there are 2099 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min IE=max;echo 'done';
echo "there are 2098 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min IE=max;echo 'done';
echo "there are 2097 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min IE=max;echo 'done';
echo "there are 2096 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min IE=max;echo 'done';
echo "there are 2095 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min IE=max;echo 'done';
echo "there are 2094 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 2093 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 2092 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max;echo 'done';
echo "there are 2091 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max;echo 'done';
echo "there are 2090 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max;echo 'done';
echo "there are 2089 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max;echo 'done';
echo "there are 2088 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min IE=max;echo 'done';
echo "there are 2087 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min IE=max;echo 'done';
echo "there are 2086 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
";tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 2085 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
";tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max;echo 'done';
echo "there are 2084 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ";tr
50 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 2083 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
";tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 2082 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ";tr 50
M=ING_FLEX_CTR_TOS_MAP IS=min IE=max;echo 'done';
echo "there are 2081 more memories to test.";echo "tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE
IS=min IE=max ";tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max;echo 'done';
echo "there are 2080 more memories to test.";echo "tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
```

```
IE=max ";tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=max;echo 'done';
echo "there are 2079 more memories to test.";echo "tr 50 M=ING_L3_NEXT_HOP IS=min IE=max ";tr 50
M=ING_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 2078 more memories to test.";echo "tr 50 M=ING_MOD_MAP_TABLE IS=min IE=max ";tr 50
M=ING_MOD_MAP_TABLE IS=min IE=max;echo 'done';
echo "there are 2077 more memories to test.";echo "tr 50 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min
IE=max ";tr 50 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min IE=max;echo 'done';
echo "there are 2076 more memories to test.";echo "tr 50 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min
IE=max ";tr 50 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min IE=max;echo 'done';
echo "there are 2075 more memories to test.";echo "tr 50 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min
IE=max ";tr 50 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min IE=max;echo 'done';
echo "there are 2074 more memories to test.";echo "tr 50 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min
IE=max ";tr 50 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min IE=max;echo 'done';
echo "there are 2073 more memories to test.";echo "tr 50 M=ING_MPLS_EXP_MAPPING IS=min IE=max ";tr 50
M=ING_MPLS_EXP_MAPPING IS=min IE=max;echo 'done';
echo "there are 2072 more memories to test.";echo "tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ";tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 2071 more memories to test.";echo "tr 50 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max
";tr 50 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 2070 more memories to test.";echo "tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min
IE=max ";tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2069 more memories to test.";echo "tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min
IE=max ";tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2068 more memories to test.";echo "tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min
IE=max ";tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2067 more memories to test.";echo "tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min
IE=max ";tr 50 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2066 more memories to test.";echo "tr 50 M=ING_PRI_CNG_MAP IS=min IE=max ";tr 50
M=ING_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 2065 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ";tr 50
M=ING_PW_TERM_SEQ_NUM IS=min IE=max;echo 'done';
echo "there are 2064 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max
";tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2063 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max
";tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2062 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max
";tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2061 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max
";tr 50 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2060 more memories to test.";echo "tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
";tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max;echo 'done';
#echo "there are 2059 more memories to test.";echo "tr 50 M=ING_SER_FIFO IS=min IE=max ";tr 50
M=ING_SER_FIFO IS=min IE=max;echo 'done';
#echo "there are 2058 more memories to test.";echo "tr 50 M=ING_SER_FIFO_PIPE0 IS=min IE=max ";tr 50
M=ING_SER_FIFO_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 2057 more memories to test.";echo "tr 50 M=ING_SER_FIFO_PIPE1 IS=min IE=max ";tr 50
M=ING_SER_FIFO_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 2056 more memories to test.";echo "tr 50 M=ING_SER_FIFO_PIPE2 IS=min IE=max ";tr 50
```

```
M=ING_SER_FIFO_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 2055 more memories to test.";echo "tr 50 M=ING_SER_FIFO_PIPE3 IS=min IE=max ";tr 50
M=ING_SER_FIFO_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2054 more memories to test.";echo "tr 50 M=ING_SNAT IS=min IE=max ";tr 50 M=ING_SNAT
IS=min IE=max;echo 'done';
echo "there are 2053 more memories to test.";echo "tr 50 M=ING_SNAT_DATA_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 2052 more memories to test.";echo "tr 50 M=ING_SNAT_HIT_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 2051 more memories to test.";echo "tr 50 M=ING_SNAT_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_ONLY IS=min IE=max;echo 'done';
echo "there are 2050 more memories to test.";echo "tr 50 M=ING_TRILL_ADJACENCY IS=min IE=max ";tr 50
M=ING_TRILL_ADJACENCY IS=min IE=max;echo 'done';
echo "there are 2049 more memories to test.";echo "tr 50 M=ING_TRILL_PARSE_CONTROL IS=min IE=max ";tr
50 M=ING_TRILL_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 2048 more memories to test.";echo "tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=max ";tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 2047 more memories to test.";echo "tr 50 M=ING_TUNNEL_ECN_DECAP IS=min IE=max ";tr 50
M=ING_TUNNEL_ECN_DECAP IS=min IE=max;echo 'done';
echo "there are 2046 more memories to test.";echo "tr 50 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max ";tr
50 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max;echo 'done';
echo "there are 2045 more memories to test.";echo "tr 50 M=ING_UNTAGGED_PHB IS=min IE=max ";tr 50
M=ING_UNTAGGED_PHB IS=min IE=max;echo 'done';
echo "there are 2044 more memories to test.";echo "tr 50 M=ING_VLAN_RANGE IS=min IE=max ";tr 50
M=ING_VLAN_RANGE IS=min IE=max;echo 'done';
echo "there are 2043 more memories to test.";echo "tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ";tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 2042 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ";tr
50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 2041 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max;echo 'done';
echo "there are 2040 more memories to test.";echo "tr 50 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max
";tr 50 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max;echo 'done';
echo "there are 2039 more memories to test.";echo "tr 50 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max
";tr 50 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max;echo 'done';
echo "there are 2038 more memories to test.";echo "tr 50 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max ";tr
50 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max;echo 'done';
echo "there are 2037 more memories to test.";echo "tr 50 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max ";tr
50 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max;echo 'done';
echo "there are 2036 more memories to test.";echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ";tr
50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 2035 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP IS=min IE=max ";tr 50
M=INITIAL_L3_ECMP IS=min IE=max;echo 'done';
echo "there are 2034 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ";tr 50
M=INITIAL_L3_ECMP_GROUP IS=min IE=max;echo 'done';
echo "there are 2033 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ";tr 50
M=INITIAL_PROT_NHI_TABLE IS=min IE=max;echo 'done';
echo "there are 2032 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ";tr
```

```
50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 2031 more memories to test.";echo "tr 50 M=INSTRUMENTATION_TRIGGERS_ENABLE
IS=min IE=max ";tr 50 M=INSTRUMENTATION_TRIGGERS_ENABLE IS=min IE=max;echo 'done';
echo "there are 2030 more memories to test.";echo "tr 50 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max
";tr 50 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max;echo 'done';
echo "there are 2029 more memories to test.";echo "tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ";tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max;echo 'done';
echo "there are 2028 more memories to test.";echo "tr 50 M=IP_MULTICAST_TCAM IS=min IE=max ";tr 50
M=IP_MULTICAST_TCAM IS=min IE=max;echo 'done';
echo "there are 2027 more memories to test.";echo "tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ";tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max;echo 'done';
echo "there are 2026 more memories to test.";echo "tr 50 M=IP_PROTO_MAP IS=min IE=max ";tr 50
M=IP_PROTO_MAP IS=min IE=max;echo 'done';
echo "there are 2025 more memories to test.";echo "tr 50 M=IP_PROTO_MAP_PIPE0 IS=min IE=max ";tr 50
M=IP_PROTO_MAP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 2024 more memories to test.";echo "tr 50 M=IP_PROTO_MAP_PIPE1 IS=min IE=max ";tr 50
M=IP_PROTO_MAP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 2023 more memories to test.";echo "tr 50 M=IP_PROTO_MAP_PIPE2 IS=min IE=max ";tr 50
M=IP_PROTO_MAP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 2022 more memories to test.";echo "tr 50 M=IP_PROTO_MAP_PIPE3 IS=min IE=max ";tr 50
M=IP_PROTO_MAP_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2021 more memories to test.";echo "tr 50 M=IP_TO_INT_CN_MAPPING IS=min IE=max ";tr 50
M=IP_TO_INT_CN_MAPPING IS=min IE=max;echo 'done';
#echo "there are 2020 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR0 IS=min IE=max ";tr 50
M=IS_TDM_CALENDAR0 IS=min IE=max;echo 'done';
#echo "there are 2019 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 2018 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 2017 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 2016 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 2015 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR1 IS=min IE=max ";tr 50
M=IS_TDM_CALENDAR1 IS=min IE=max;echo 'done';
#echo "there are 2014 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 2013 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 2012 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 2011 more memories to test.";echo "tr 50 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max ";tr
50 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 2010 more memories to test.";echo "tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
";tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 2009 more memories to test.";echo "tr 50 M=L2MC IS=min IE=max ";tr 50 M=L2MC IS=min
IE=max;echo 'done';
echo "there are 2008 more memories to test.";echo "tr 50 M=L2_BULK IS=min IE=max ";tr 50 M=L2_BULK
```

```
IS=min IE=max;echo 'done';
echo "there are 2007 more memories to test.";echo "tr 50 M=L2X IS=min IE=max ";tr 50 M=L2X IS=min
IE=max;echo 'done';
#echo "there are 2006 more memories to test.";echo "tr 50 M=L2_ENTRY_ISS_LP IS=min IE=max ";tr 50
M=L2_ENTRY_ISS_LP IS=min IE=max;echo 'done';
echo "there are 2005 more memories to test.";echo "tr 50 M=L2_ENTRY_LP IS=min IE=max ";tr 50
M=L2_ENTRY_LP IS=min IE=max;echo 'done';
echo "there are 2004 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY_ECC IS=min IE=max ";tr 50
M=L2_ENTRY_ONLY_ECC IS=min IE=max;echo 'done';
echo "there are 2003 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY_TILE IS=min IE=max ";tr 50
M=L2_ENTRY_ONLY_TILE IS=min IE=max;echo 'done';
echo "there are 2002 more memories to test.";echo "tr 50 M=L2_ENTRY_TILE IS=min IE=max ";tr 50
M=L2_ENTRY_TILE IS=min IE=max;echo 'done';
echo "there are 2001 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY IS=min IE=max ";tr 50
M=L2_HITDA_ONLY IS=min IE=max;echo 'done';
echo "there are 2000 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY IS=min IE=max ";tr 50
M=L2_HITSA_ONLY IS=min IE=max;echo 'done';
echo "there are 1999 more memories to test.";echo "tr 50 M=L2_LEARN_INSERT_FAILURE IS=min IE=max ";tr
50 M=L2_LEARN_INSERT_FAILURE IS=min IE=max;echo 'done';
#echo "there are 1998 more memories to test.";echo "tr 50 M=L2_MGMT_SER_FIFO IS=min IE=max ";tr 50
M=L2_MGMT_SER_FIFO IS=min IE=max;echo 'done';
echo "there are 1997 more memories to test.";echo "tr 50 M=L2_MOD_FIFO IS=min IE=max ";tr 50
M=L2_MOD_FIFO IS=min IE=max;echo 'done';
echo "there are 1996 more memories to test.";echo "tr 50 M=L2_USER_ENTRY IS=min IE=max ";tr 50
M=L2_USER_ENTRY IS=min IE=max;echo 'done';
echo "there are 1995 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
";tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 1994 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=max ";tr 50
M=L2_USER_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 1993 more memories to test.";echo "tr 50 M=L3_DEFIP IS=min IE=max ";tr 50 M=L3_DEFIP
IS=min IE=max;echo 'done';
if $?l3_alpm_enable 'echo "there are 1992 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_ECC IS=min
IE=max ";tr 50 M=L3_DEFIP_ALPM_ECC IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1991 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_HIT_ONLY
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1990 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4 IS=min
IE=max ";tr 50 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1989 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4_1
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1988 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_128
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1987 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1986 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64_1
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1985 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_RAW
IS=min IE=max ";tr 50 M=L3_DEFIP_ALPM_RAW IS=min IE=max;echo 'done';'
echo "there are 1984 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
```

```
";tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max;echo 'done';
echo "there are 1983 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max ";tr 50
M=L3_DEFIP_AUX_SCRATCH IS=min IE=max;echo 'done';
echo "there are 1982 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_TABLE IS=min IE=max ";tr 50
M=L3_DEFIP_AUX_TABLE IS=min IE=max;echo 'done';
echo "there are 1981 more memories to test.";echo "tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 1980 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 1979 more memories to test.";echo "tr 50 M=L3_DEFIP_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_ONLY IS=min IE=max;echo 'done';
if $?l3_alpm_enable 'echo "there are 1978 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128 IS=min
IE=max ";tr 50 M=L3_DEFIP_PAIR_128 IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1977 more memories to test.";echo "tr 50
M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ";tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY
IS=min IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1976 more memories to test.";echo "tr 50
M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ";tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min
IE=max;echo 'done';'
if $?l3_alpm_enable 'echo "there are 1975 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_ONLY
IS=min IE=max ";tr 50 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max;echo 'done';'
echo "there are 1974 more memories to test.";echo "tr 50 M=L3_ECMP IS=min IE=max ";tr 50 M=L3_ECMP
IS=min IE=max;echo 'done';
echo "there are 1973 more memories to test.";echo "tr 50 M=L3_ECMP_COUNT IS=min IE=max ";tr 50
M=L3_ECMP_COUNT IS=min IE=max;echo 'done';
echo "there are 1972 more memories to test.";echo "tr 50 M=L3_ECMP_RRLB_CNT IS=min IE=max ";tr 50
M=L3_ECMP_RRLB_CNT IS=min IE=max;echo 'done';
echo "there are 1971 more memories to test.";echo "tr 50 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max ";tr
50 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1970 more memories to test.";echo "tr 50 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max ";tr
50 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1969 more memories to test.";echo "tr 50 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max ";tr
50 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1968 more memories to test.";echo "tr 50 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max ";tr
50 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1967 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=max ";tr 50
M=L3_ENTRY_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 1966 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ";tr
50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max;echo 'done';
echo "there are 1965 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ";tr 50
M=L3_ENTRY_IPV4_UNICAST IS=min IE=max;echo 'done';
echo "there are 1964 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ";tr
50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max;echo 'done';
echo "there are 1963 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ";tr 50
M=L3_ENTRY_IPV6_UNICAST IS=min IE=max;echo 'done';
#echo "there are 1962 more memories to test.";echo "tr 50 M=L3_ENTRY_ISS_LP IS=min IE=max ";tr 50
M=L3_ENTRY_ISS_LP IS=min IE=max;echo 'done';
echo "there are 1961 more memories to test.";echo "tr 50 M=L3_ENTRY_LP IS=min IE=max ";tr 50
```

```
M=L3_ENTRY_LP IS=min IE=max;echo 'done';
echo "there are 1960 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY IS=min IE=max ";tr 50
M=L3_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 1959 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY_ECC IS=min IE=max ";tr 50
M=L3_ENTRY_ONLY_ECC IS=min IE=max;echo 'done';
echo "there are 1958 more memories to test.";echo "tr 50 M=L3_IIF IS=min IE=max ";tr 50 M=L3_IIF IS=min
IE=max;echo 'done';
echo "there are 1957 more memories to test.";echo "tr 50 M=L3_IIF_PROFILE IS=min IE=max ";tr 50
M=L3_IIF_PROFILE IS=min IE=max;echo 'done';
echo "there are 1956 more memories to test.";echo "tr 50 M=L3_IPMC IS=min IE=max ";tr 50 M=L3_IPMC
IS=min IE=max;echo 'done';
echo "there are 1955 more memories to test.";echo "tr 50 M=L3_IPMC_REMAP IS=min IE=max ";tr 50
M=L3_IPMC_REMAP IS=min IE=max;echo 'done';
echo "there are 1954 more memories to test.";echo "tr 50 M=L3_MTU_VALUES IS=min IE=max ";tr 50
M=L3_MTU_VALUES IS=min IE=max;echo 'done';
echo "there are 1953 more memories to test.";echo "tr 50 M=L3_TUNNEL IS=min IE=max ";tr 50
M=L3_TUNNEL IS=min IE=max;echo 'done';
echo "there are 1952 more memories to test.";echo "tr 50 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ";tr 50
M=L3_TUNNEL_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 1951 more memories to test.";echo "tr 50 M=L3_TUNNEL_ONLY IS=min IE=max ";tr 50
M=L3_TUNNEL_ONLY IS=min IE=max;echo 'done';
echo "there are 1950 more memories to test.";echo "tr 50 M=LAG_DLB_CONTROL IS=min IE=max ";tr 50
M=LAG_DLB_CONTROL IS=min IE=max;echo 'done';
echo "there are 1949 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max;echo 'done';
echo "there are 1948 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max;echo 'done';
echo "there are 1947 more memories to test.";echo "tr 50 M=LPORT_TAB IS=min IE=max ";tr 50
M=LPORT_TAB IS=min IE=max;echo 'done';
echo "there are 1946 more memories to test.";echo "tr 50 M=MAC_BLOCK IS=min IE=max ";tr 50
M=MAC_BLOCK IS=min IE=max;echo 'done';
echo "there are 1945 more memories to test.";echo "tr 50 M=MIRROR_CONTROL IS=min IE=max ";tr 50
M=MIRROR_CONTROL IS=min IE=max;echo 'done';
#echo "there are 1944 more memories to test.";echo "tr 50 M=MMU_CBPData0 IS=min IE=max ";tr 50
M=MMU_CBPData0 IS=min IE=max;echo 'done';
echo "there are 1943 more memories to test.";echo "tr 50 M=MMU_CBPData0_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData0_XPE0 IS=min IE=max;echo 'done';
echo "there are 1942 more memories to test.";echo "tr 50 M=MMU_CBPData0_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData0_XPE1 IS=min IE=max;echo 'done';
echo "there are 1941 more memories to test.";echo "tr 50 M=MMU_CBPData0_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData0_XPE2 IS=min IE=max;echo 'done';
echo "there are 1940 more memories to test.";echo "tr 50 M=MMU_CBPData0_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData0_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1939 more memories to test.";echo "tr 50 M=MMU_CBPData1 IS=min IE=max ";tr 50
M=MMU_CBPData1 IS=min IE=max;echo 'done';
#echo "there are 1938 more memories to test.";echo "tr 50 M=MMU_CBPData10 IS=min IE=max ";tr 50
M=MMU_CBPData10 IS=min IE=max;echo 'done';
#echo "there are 1937 more memories to test.";echo "tr 50 M=MMU_CBPData100 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData100 IS=min IE=max;echo 'done';
echo "there are 1936 more memories to test.";echo "tr 50 M=MMU_CBPData100_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData100_XPE0 IS=min IE=max;echo 'done';
echo "there are 1935 more memories to test.";echo "tr 50 M=MMU_CBPData100_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData100_XPE1 IS=min IE=max;echo 'done';
echo "there are 1934 more memories to test.";echo "tr 50 M=MMU_CBPData100_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData100_XPE2 IS=min IE=max;echo 'done';
echo "there are 1933 more memories to test.";echo "tr 50 M=MMU_CBPData100_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData100_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1932 more memories to test.";echo "tr 50 M=MMU_CBPData101 IS=min IE=max ";tr 50
M=MMU_CBPData101 IS=min IE=max;echo 'done';
echo "there are 1931 more memories to test.";echo "tr 50 M=MMU_CBPData101_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData101_XPE0 IS=min IE=max;echo 'done';
echo "there are 1930 more memories to test.";echo "tr 50 M=MMU_CBPData101_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData101_XPE1 IS=min IE=max;echo 'done';
echo "there are 1929 more memories to test.";echo "tr 50 M=MMU_CBPData101_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData101_XPE2 IS=min IE=max;echo 'done';
echo "there are 1928 more memories to test.";echo "tr 50 M=MMU_CBPData101_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData101_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1927 more memories to test.";echo "tr 50 M=MMU_CBPData102 IS=min IE=max ";tr 50
M=MMU_CBPData102 IS=min IE=max;echo 'done';
echo "there are 1926 more memories to test.";echo "tr 50 M=MMU_CBPData102_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData102_XPE0 IS=min IE=max;echo 'done';
echo "there are 1925 more memories to test.";echo "tr 50 M=MMU_CBPData102_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData102_XPE1 IS=min IE=max;echo 'done';
echo "there are 1924 more memories to test.";echo "tr 50 M=MMU_CBPData102_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData102_XPE2 IS=min IE=max;echo 'done';
echo "there are 1923 more memories to test.";echo "tr 50 M=MMU_CBPData102_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData102_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1922 more memories to test.";echo "tr 50 M=MMU_CBPData103 IS=min IE=max ";tr 50
M=MMU_CBPData103 IS=min IE=max;echo 'done';
echo "there are 1921 more memories to test.";echo "tr 50 M=MMU_CBPData103_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData103_XPE0 IS=min IE=max;echo 'done';
echo "there are 1920 more memories to test.";echo "tr 50 M=MMU_CBPData103_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData103_XPE1 IS=min IE=max;echo 'done';
echo "there are 1919 more memories to test.";echo "tr 50 M=MMU_CBPData103_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData103_XPE2 IS=min IE=max;echo 'done';
echo "there are 1918 more memories to test.";echo "tr 50 M=MMU_CBPData103_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData103_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1917 more memories to test.";echo "tr 50 M=MMU_CBPData104 IS=min IE=max ";tr 50
M=MMU_CBPData104 IS=min IE=max;echo 'done';
echo "there are 1916 more memories to test.";echo "tr 50 M=MMU_CBPData104_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData104_XPE0 IS=min IE=max;echo 'done';
echo "there are 1915 more memories to test.";echo "tr 50 M=MMU_CBPData104_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData104_XPE1 IS=min IE=max;echo 'done';
echo "there are 1914 more memories to test.";echo "tr 50 M=MMU_CBPData104_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData104_XPE2 IS=min IE=max;echo 'done';
echo "there are 1913 more memories to test.";echo "tr 50 M=MMU_CBPData104_XPE3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData104_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1912 more memories to test.";echo "tr 50 M=MMU_CBPData105 IS=min IE=max ";tr 50
M=MMU_CBPData105 IS=min IE=max;echo 'done';
echo "there are 1911 more memories to test.";echo "tr 50 M=MMU_CBPData105_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData105_XPE0 IS=min IE=max;echo 'done';
echo "there are 1910 more memories to test.";echo "tr 50 M=MMU_CBPData105_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData105_XPE1 IS=min IE=max;echo 'done';
echo "there are 1909 more memories to test.";echo "tr 50 M=MMU_CBPData105_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData105_XPE2 IS=min IE=max;echo 'done';
echo "there are 1908 more memories to test.";echo "tr 50 M=MMU_CBPData105_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData105_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1907 more memories to test.";echo "tr 50 M=MMU_CBPData106 IS=min IE=max ";tr 50
M=MMU_CBPData106 IS=min IE=max;echo 'done';
echo "there are 1906 more memories to test.";echo "tr 50 M=MMU_CBPData106_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData106_XPE0 IS=min IE=max;echo 'done';
echo "there are 1905 more memories to test.";echo "tr 50 M=MMU_CBPData106_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData106_XPE1 IS=min IE=max;echo 'done';
echo "there are 1904 more memories to test.";echo "tr 50 M=MMU_CBPData106_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData106_XPE2 IS=min IE=max;echo 'done';
echo "there are 1903 more memories to test.";echo "tr 50 M=MMU_CBPData106_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData106_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1902 more memories to test.";echo "tr 50 M=MMU_CBPData107 IS=min IE=max ";tr 50
M=MMU_CBPData107 IS=min IE=max;echo 'done';
echo "there are 1901 more memories to test.";echo "tr 50 M=MMU_CBPData107_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData107_XPE0 IS=min IE=max;echo 'done';
echo "there are 1900 more memories to test.";echo "tr 50 M=MMU_CBPData107_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData107_XPE1 IS=min IE=max;echo 'done';
echo "there are 1899 more memories to test.";echo "tr 50 M=MMU_CBPData107_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData107_XPE2 IS=min IE=max;echo 'done';
echo "there are 1898 more memories to test.";echo "tr 50 M=MMU_CBPData107_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData107_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1897 more memories to test.";echo "tr 50 M=MMU_CBPData108 IS=min IE=max ";tr 50
M=MMU_CBPData108 IS=min IE=max;echo 'done';
echo "there are 1896 more memories to test.";echo "tr 50 M=MMU_CBPData108_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData108_XPE0 IS=min IE=max;echo 'done';
echo "there are 1895 more memories to test.";echo "tr 50 M=MMU_CBPData108_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData108_XPE1 IS=min IE=max;echo 'done';
echo "there are 1894 more memories to test.";echo "tr 50 M=MMU_CBPData108_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData108_XPE2 IS=min IE=max;echo 'done';
echo "there are 1893 more memories to test.";echo "tr 50 M=MMU_CBPData108_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData108_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1892 more memories to test.";echo "tr 50 M=MMU_CBPData109 IS=min IE=max ";tr 50
M=MMU_CBPData109 IS=min IE=max;echo 'done';
echo "there are 1891 more memories to test.";echo "tr 50 M=MMU_CBPData109_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData109_XPE0 IS=min IE=max;echo 'done';
echo "there are 1890 more memories to test.";echo "tr 50 M=MMU_CBPData109_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData109_XPE1 IS=min IE=max;echo 'done';
echo "there are 1889 more memories to test.";echo "tr 50 M=MMU_CBPData109_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData109_XPE2 IS=min IE=max;echo 'done';
echo "there are 1888 more memories to test.";echo "tr 50 M=MMU_CBPData109_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData109_XPE3 IS=min IE=max;echo 'done';
echo "there are 1887 more memories to test.";echo "tr 50 M=MMU_CBPData10_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData10_XPE0 IS=min IE=max;echo 'done';
echo "there are 1886 more memories to test.";echo "tr 50 M=MMU_CBPData10_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData10_XPE1 IS=min IE=max;echo 'done';
echo "there are 1885 more memories to test.";echo "tr 50 M=MMU_CBPData10_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData10_XPE2 IS=min IE=max;echo 'done';
echo "there are 1884 more memories to test.";echo "tr 50 M=MMU_CBPData10_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData10_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1883 more memories to test.";echo "tr 50 M=MMU_CBPData11 IS=min IE=max ";tr 50
M=MMU_CBPData11 IS=min IE=max;echo 'done';
#echo "there are 1882 more memories to test.";echo "tr 50 M=MMU_CBPData110 IS=min IE=max ";tr 50
M=MMU_CBPData110 IS=min IE=max;echo 'done';
echo "there are 1881 more memories to test.";echo "tr 50 M=MMU_CBPData110_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData110_XPE0 IS=min IE=max;echo 'done';
echo "there are 1880 more memories to test.";echo "tr 50 M=MMU_CBPData110_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData110_XPE1 IS=min IE=max;echo 'done';
echo "there are 1879 more memories to test.";echo "tr 50 M=MMU_CBPData110_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData110_XPE2 IS=min IE=max;echo 'done';
echo "there are 1878 more memories to test.";echo "tr 50 M=MMU_CBPData110_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData110_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1877 more memories to test.";echo "tr 50 M=MMU_CBPData111 IS=min IE=max ";tr 50
M=MMU_CBPData111 IS=min IE=max;echo 'done';
echo "there are 1876 more memories to test.";echo "tr 50 M=MMU_CBPData111_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData111_XPE0 IS=min IE=max;echo 'done';
echo "there are 1875 more memories to test.";echo "tr 50 M=MMU_CBPData111_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData111_XPE1 IS=min IE=max;echo 'done';
echo "there are 1874 more memories to test.";echo "tr 50 M=MMU_CBPData111_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData111_XPE2 IS=min IE=max;echo 'done';
echo "there are 1873 more memories to test.";echo "tr 50 M=MMU_CBPData111_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData111_XPE3 IS=min IE=max;echo 'done';
echo "there are 1872 more memories to test.";echo "tr 50 M=MMU_CBPData11_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData11_XPE0 IS=min IE=max;echo 'done';
echo "there are 1871 more memories to test.";echo "tr 50 M=MMU_CBPData11_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData11_XPE1 IS=min IE=max;echo 'done';
echo "there are 1870 more memories to test.";echo "tr 50 M=MMU_CBPData11_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData11_XPE2 IS=min IE=max;echo 'done';
echo "there are 1869 more memories to test.";echo "tr 50 M=MMU_CBPData11_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData11_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1868 more memories to test.";echo "tr 50 M=MMU_CBPData12 IS=min IE=max ";tr 50
M=MMU_CBPData12 IS=min IE=max;echo 'done';
echo "there are 1867 more memories to test.";echo "tr 50 M=MMU_CBPData12_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData12_XPE0 IS=min IE=max;echo 'done';
echo "there are 1866 more memories to test.";echo "tr 50 M=MMU_CBPData12_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData12_XPE1 IS=min IE=max;echo 'done';
echo "there are 1865 more memories to test.";echo "tr 50 M=MMU_CBPData12_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData12_XPE2 IS=min IE=max;echo 'done';
echo "there are 1864 more memories to test.";echo "tr 50 M=MMU_CBPData12_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData12_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1863 more memories to test.";echo "tr 50 M=MMU_CBPData13 IS=min IE=max ";tr 50
M=MMU_CBPData13 IS=min IE=max;echo 'done';
echo "there are 1862 more memories to test.";echo "tr 50 M=MMU_CBPData13_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData13_XPE0 IS=min IE=max;echo 'done';
echo "there are 1861 more memories to test.";echo "tr 50 M=MMU_CBPData13_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData13_XPE1 IS=min IE=max;echo 'done';
echo "there are 1860 more memories to test.";echo "tr 50 M=MMU_CBPData13_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData13_XPE2 IS=min IE=max;echo 'done';
echo "there are 1859 more memories to test.";echo "tr 50 M=MMU_CBPData13_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData13_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1858 more memories to test.";echo "tr 50 M=MMU_CBPData14 IS=min IE=max ";tr 50
M=MMU_CBPData14 IS=min IE=max;echo 'done';
echo "there are 1857 more memories to test.";echo "tr 50 M=MMU_CBPData14_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData14_XPE0 IS=min IE=max;echo 'done';
echo "there are 1856 more memories to test.";echo "tr 50 M=MMU_CBPData14_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData14_XPE1 IS=min IE=max;echo 'done';
echo "there are 1855 more memories to test.";echo "tr 50 M=MMU_CBPData14_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData14_XPE2 IS=min IE=max;echo 'done';
echo "there are 1854 more memories to test.";echo "tr 50 M=MMU_CBPData14_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData14_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1853 more memories to test.";echo "tr 50 M=MMU_CBPData15 IS=min IE=max ";tr 50
M=MMU_CBPData15 IS=min IE=max;echo 'done';
echo "there are 1852 more memories to test.";echo "tr 50 M=MMU_CBPData15_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData15_XPE0 IS=min IE=max;echo 'done';
echo "there are 1851 more memories to test.";echo "tr 50 M=MMU_CBPData15_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData15_XPE1 IS=min IE=max;echo 'done';
echo "there are 1850 more memories to test.";echo "tr 50 M=MMU_CBPData15_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData15_XPE2 IS=min IE=max;echo 'done';
echo "there are 1849 more memories to test.";echo "tr 50 M=MMU_CBPData15_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData15_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1848 more memories to test.";echo "tr 50 M=MMU_CBPData16 IS=min IE=max ";tr 50
M=MMU_CBPData16 IS=min IE=max;echo 'done';
echo "there are 1847 more memories to test.";echo "tr 50 M=MMU_CBPData16_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData16_XPE0 IS=min IE=max;echo 'done';
echo "there are 1846 more memories to test.";echo "tr 50 M=MMU_CBPData16_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData16_XPE1 IS=min IE=max;echo 'done';
echo "there are 1845 more memories to test.";echo "tr 50 M=MMU_CBPData16_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData16_XPE2 IS=min IE=max;echo 'done';
echo "there are 1844 more memories to test.";echo "tr 50 M=MMU_CBPData16_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData16_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1843 more memories to test.";echo "tr 50 M=MMU_CBPData17 IS=min IE=max ";tr 50
M=MMU_CBPData17 IS=min IE=max;echo 'done';
echo "there are 1842 more memories to test.";echo "tr 50 M=MMU_CBPData17_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData17_XPE0 IS=min IE=max;echo 'done';
echo "there are 1841 more memories to test.";echo "tr 50 M=MMU_CBPData17_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData17_XPE1 IS=min IE=max;echo 'done';
echo "there are 1840 more memories to test.";echo "tr 50 M=MMU_CBPData17_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData17_XPE2 IS=min IE=max;echo 'done';
echo "there are 1839 more memories to test.";echo "tr 50 M=MMU_CBPData17_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData17_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1838 more memories to test.";echo "tr 50 M=MMU_CBPData18 IS=min IE=max ";tr 50
M=MMU_CBPData18 IS=min IE=max;echo 'done';
echo "there are 1837 more memories to test.";echo "tr 50 M=MMU_CBPData18_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData18_XPE0 IS=min IE=max;echo 'done';
echo "there are 1836 more memories to test.";echo "tr 50 M=MMU_CBPData18_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData18_XPE1 IS=min IE=max;echo 'done';
echo "there are 1835 more memories to test.";echo "tr 50 M=MMU_CBPData18_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData18_XPE2 IS=min IE=max;echo 'done';
echo "there are 1834 more memories to test.";echo "tr 50 M=MMU_CBPData18_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData18_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1833 more memories to test.";echo "tr 50 M=MMU_CBPData19 IS=min IE=max ";tr 50
M=MMU_CBPData19 IS=min IE=max;echo 'done';
echo "there are 1832 more memories to test.";echo "tr 50 M=MMU_CBPData19_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData19_XPE0 IS=min IE=max;echo 'done';
echo "there are 1831 more memories to test.";echo "tr 50 M=MMU_CBPData19_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData19_XPE1 IS=min IE=max;echo 'done';
echo "there are 1830 more memories to test.";echo "tr 50 M=MMU_CBPData19_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData19_XPE2 IS=min IE=max;echo 'done';
echo "there are 1829 more memories to test.";echo "tr 50 M=MMU_CBPData19_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData19_XPE3 IS=min IE=max;echo 'done';
echo "there are 1828 more memories to test.";echo "tr 50 M=MMU_CBPData1_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData1_XPE0 IS=min IE=max;echo 'done';
echo "there are 1827 more memories to test.";echo "tr 50 M=MMU_CBPData1_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData1_XPE1 IS=min IE=max;echo 'done';
echo "there are 1826 more memories to test.";echo "tr 50 M=MMU_CBPData1_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData1_XPE2 IS=min IE=max;echo 'done';
echo "there are 1825 more memories to test.";echo "tr 50 M=MMU_CBPData1_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData1_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1824 more memories to test.";echo "tr 50 M=MMU_CBPData2 IS=min IE=max ";tr 50
M=MMU_CBPData2 IS=min IE=max;echo 'done';
#echo "there are 1823 more memories to test.";echo "tr 50 M=MMU_CBPData20 IS=min IE=max ";tr 50
M=MMU_CBPData20 IS=min IE=max;echo 'done';
echo "there are 1822 more memories to test.";echo "tr 50 M=MMU_CBPData20_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData20_XPE0 IS=min IE=max;echo 'done';
echo "there are 1821 more memories to test.";echo "tr 50 M=MMU_CBPData20_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData20_XPE1 IS=min IE=max;echo 'done';
echo "there are 1820 more memories to test.";echo "tr 50 M=MMU_CBPData20_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData20_XPE2 IS=min IE=max;echo 'done';
echo "there are 1819 more memories to test.";echo "tr 50 M=MMU_CBPData20_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData20_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1818 more memories to test.";echo "tr 50 M=MMU_CBPData21 IS=min IE=max ";tr 50
M=MMU_CBPData21 IS=min IE=max;echo 'done';
echo "there are 1817 more memories to test.";echo "tr 50 M=MMU_CBPData21_XPE0 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData21_XPE0 IS=min IE=max;echo 'done';
echo "there are 1816 more memories to test.";echo "tr 50 M=MMU_CBPData21_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData21_XPE1 IS=min IE=max;echo 'done';
echo "there are 1815 more memories to test.";echo "tr 50 M=MMU_CBPData21_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData21_XPE2 IS=min IE=max;echo 'done';
echo "there are 1814 more memories to test.";echo "tr 50 M=MMU_CBPData21_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData21_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1813 more memories to test.";echo "tr 50 M=MMU_CBPData22 IS=min IE=max ";tr 50
M=MMU_CBPData22 IS=min IE=max;echo 'done';
echo "there are 1812 more memories to test.";echo "tr 50 M=MMU_CBPData22_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData22_XPE0 IS=min IE=max;echo 'done';
echo "there are 1811 more memories to test.";echo "tr 50 M=MMU_CBPData22_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData22_XPE1 IS=min IE=max;echo 'done';
echo "there are 1810 more memories to test.";echo "tr 50 M=MMU_CBPData22_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData22_XPE2 IS=min IE=max;echo 'done';
echo "there are 1809 more memories to test.";echo "tr 50 M=MMU_CBPData22_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData22_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1808 more memories to test.";echo "tr 50 M=MMU_CBPData23 IS=min IE=max ";tr 50
M=MMU_CBPData23 IS=min IE=max;echo 'done';
echo "there are 1807 more memories to test.";echo "tr 50 M=MMU_CBPData23_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData23_XPE0 IS=min IE=max;echo 'done';
echo "there are 1806 more memories to test.";echo "tr 50 M=MMU_CBPData23_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData23_XPE1 IS=min IE=max;echo 'done';
echo "there are 1805 more memories to test.";echo "tr 50 M=MMU_CBPData23_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData23_XPE2 IS=min IE=max;echo 'done';
echo "there are 1804 more memories to test.";echo "tr 50 M=MMU_CBPData23_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData23_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1803 more memories to test.";echo "tr 50 M=MMU_CBPData24 IS=min IE=max ";tr 50
M=MMU_CBPData24 IS=min IE=max;echo 'done';
echo "there are 1802 more memories to test.";echo "tr 50 M=MMU_CBPData24_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData24_XPE0 IS=min IE=max;echo 'done';
echo "there are 1801 more memories to test.";echo "tr 50 M=MMU_CBPData24_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData24_XPE1 IS=min IE=max;echo 'done';
echo "there are 1800 more memories to test.";echo "tr 50 M=MMU_CBPData24_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData24_XPE2 IS=min IE=max;echo 'done';
echo "there are 1799 more memories to test.";echo "tr 50 M=MMU_CBPData24_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData24_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1798 more memories to test.";echo "tr 50 M=MMU_CBPData25 IS=min IE=max ";tr 50
M=MMU_CBPData25 IS=min IE=max;echo 'done';
echo "there are 1797 more memories to test.";echo "tr 50 M=MMU_CBPData25_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData25_XPE0 IS=min IE=max;echo 'done';
echo "there are 1796 more memories to test.";echo "tr 50 M=MMU_CBPData25_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData25_XPE1 IS=min IE=max;echo 'done';
echo "there are 1795 more memories to test.";echo "tr 50 M=MMU_CBPData25_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData25_XPE2 IS=min IE=max;echo 'done';
echo "there are 1794 more memories to test.";echo "tr 50 M=MMU_CBPData25_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData25_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1793 more memories to test.";echo "tr 50 M=MMU_CBPData26 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData26 IS=min IE=max;echo 'done';
echo "there are 1792 more memories to test.";echo "tr 50 M=MMU_CBPData26_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData26_XPE0 IS=min IE=max;echo 'done';
echo "there are 1791 more memories to test.";echo "tr 50 M=MMU_CBPData26_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData26_XPE1 IS=min IE=max;echo 'done';
echo "there are 1790 more memories to test.";echo "tr 50 M=MMU_CBPData26_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData26_XPE2 IS=min IE=max;echo 'done';
echo "there are 1789 more memories to test.";echo "tr 50 M=MMU_CBPData26_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData26_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1788 more memories to test.";echo "tr 50 M=MMU_CBPData27 IS=min IE=max ";tr 50
M=MMU_CBPData27 IS=min IE=max;echo 'done';
echo "there are 1787 more memories to test.";echo "tr 50 M=MMU_CBPData27_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData27_XPE0 IS=min IE=max;echo 'done';
echo "there are 1786 more memories to test.";echo "tr 50 M=MMU_CBPData27_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData27_XPE1 IS=min IE=max;echo 'done';
echo "there are 1785 more memories to test.";echo "tr 50 M=MMU_CBPData27_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData27_XPE2 IS=min IE=max;echo 'done';
echo "there are 1784 more memories to test.";echo "tr 50 M=MMU_CBPData27_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData27_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1783 more memories to test.";echo "tr 50 M=MMU_CBPData28 IS=min IE=max ";tr 50
M=MMU_CBPData28 IS=min IE=max;echo 'done';
echo "there are 1782 more memories to test.";echo "tr 50 M=MMU_CBPData28_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData28_XPE0 IS=min IE=max;echo 'done';
echo "there are 1781 more memories to test.";echo "tr 50 M=MMU_CBPData28_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData28_XPE1 IS=min IE=max;echo 'done';
echo "there are 1780 more memories to test.";echo "tr 50 M=MMU_CBPData28_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData28_XPE2 IS=min IE=max;echo 'done';
echo "there are 1779 more memories to test.";echo "tr 50 M=MMU_CBPData28_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData28_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1778 more memories to test.";echo "tr 50 M=MMU_CBPData29 IS=min IE=max ";tr 50
M=MMU_CBPData29 IS=min IE=max;echo 'done';
echo "there are 1777 more memories to test.";echo "tr 50 M=MMU_CBPData29_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData29_XPE0 IS=min IE=max;echo 'done';
echo "there are 1776 more memories to test.";echo "tr 50 M=MMU_CBPData29_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData29_XPE1 IS=min IE=max;echo 'done';
echo "there are 1775 more memories to test.";echo "tr 50 M=MMU_CBPData29_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData29_XPE2 IS=min IE=max;echo 'done';
echo "there are 1774 more memories to test.";echo "tr 50 M=MMU_CBPData29_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData29_XPE3 IS=min IE=max;echo 'done';
echo "there are 1773 more memories to test.";echo "tr 50 M=MMU_CBPData2_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData2_XPE0 IS=min IE=max;echo 'done';
echo "there are 1772 more memories to test.";echo "tr 50 M=MMU_CBPData2_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData2_XPE1 IS=min IE=max;echo 'done';
echo "there are 1771 more memories to test.";echo "tr 50 M=MMU_CBPData2_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData2_XPE2 IS=min IE=max;echo 'done';
echo "there are 1770 more memories to test.";echo "tr 50 M=MMU_CBPData2_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData2_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1769 more memories to test.";echo "tr 50 M=MMU_CBPData3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData3 IS=min IE=max;echo 'done';
#echo "there are 1768 more memories to test.";echo "tr 50 M=MMU_CBPData30 IS=min IE=max ";tr 50
M=MMU_CBPData30 IS=min IE=max;echo 'done';
echo "there are 1767 more memories to test.";echo "tr 50 M=MMU_CBPData30_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData30_XPE0 IS=min IE=max;echo 'done';
echo "there are 1766 more memories to test.";echo "tr 50 M=MMU_CBPData30_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData30_XPE1 IS=min IE=max;echo 'done';
echo "there are 1765 more memories to test.";echo "tr 50 M=MMU_CBPData30_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData30_XPE2 IS=min IE=max;echo 'done';
echo "there are 1764 more memories to test.";echo "tr 50 M=MMU_CBPData30_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData30_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1763 more memories to test.";echo "tr 50 M=MMU_CBPData31 IS=min IE=max ";tr 50
M=MMU_CBPData31 IS=min IE=max;echo 'done';
echo "there are 1762 more memories to test.";echo "tr 50 M=MMU_CBPData31_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData31_XPE0 IS=min IE=max;echo 'done';
echo "there are 1761 more memories to test.";echo "tr 50 M=MMU_CBPData31_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData31_XPE1 IS=min IE=max;echo 'done';
echo "there are 1760 more memories to test.";echo "tr 50 M=MMU_CBPData31_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData31_XPE2 IS=min IE=max;echo 'done';
echo "there are 1759 more memories to test.";echo "tr 50 M=MMU_CBPData31_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData31_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1758 more memories to test.";echo "tr 50 M=MMU_CBPData32 IS=min IE=max ";tr 50
M=MMU_CBPData32 IS=min IE=max;echo 'done';
echo "there are 1757 more memories to test.";echo "tr 50 M=MMU_CBPData32_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData32_XPE0 IS=min IE=max;echo 'done';
echo "there are 1756 more memories to test.";echo "tr 50 M=MMU_CBPData32_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData32_XPE1 IS=min IE=max;echo 'done';
echo "there are 1755 more memories to test.";echo "tr 50 M=MMU_CBPData32_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData32_XPE2 IS=min IE=max;echo 'done';
echo "there are 1754 more memories to test.";echo "tr 50 M=MMU_CBPData32_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData32_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1753 more memories to test.";echo "tr 50 M=MMU_CBPData33 IS=min IE=max ";tr 50
M=MMU_CBPData33 IS=min IE=max;echo 'done';
echo "there are 1752 more memories to test.";echo "tr 50 M=MMU_CBPData33_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData33_XPE0 IS=min IE=max;echo 'done';
echo "there are 1751 more memories to test.";echo "tr 50 M=MMU_CBPData33_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData33_XPE1 IS=min IE=max;echo 'done';
echo "there are 1750 more memories to test.";echo "tr 50 M=MMU_CBPData33_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData33_XPE2 IS=min IE=max;echo 'done';
echo "there are 1749 more memories to test.";echo "tr 50 M=MMU_CBPData33_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData33_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1748 more memories to test.";echo "tr 50 M=MMU_CBPData34 IS=min IE=max ";tr 50
M=MMU_CBPData34 IS=min IE=max;echo 'done';
echo "there are 1747 more memories to test.";echo "tr 50 M=MMU_CBPData34_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData34_XPE0 IS=min IE=max;echo 'done';
echo "there are 1746 more memories to test.";echo "tr 50 M=MMU_CBPData34_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData34_XPE1 IS=min IE=max;echo 'done';
echo "there are 1745 more memories to test.";echo "tr 50 M=MMU_CBPData34_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData34_XPE2 IS=min IE=max;echo 'done';
echo "there are 1744 more memories to test.";echo "tr 50 M=MMU_CBPData34_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData34_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1743 more memories to test.";echo "tr 50 M=MMU_CBPData35 IS=min IE=max ";tr 50
M=MMU_CBPData35 IS=min IE=max;echo 'done';
echo "there are 1742 more memories to test.";echo "tr 50 M=MMU_CBPData35_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData35_XPE0 IS=min IE=max;echo 'done';
echo "there are 1741 more memories to test.";echo "tr 50 M=MMU_CBPData35_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData35_XPE1 IS=min IE=max;echo 'done';
echo "there are 1740 more memories to test.";echo "tr 50 M=MMU_CBPData35_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData35_XPE2 IS=min IE=max;echo 'done';
echo "there are 1739 more memories to test.";echo "tr 50 M=MMU_CBPData35_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData35_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1738 more memories to test.";echo "tr 50 M=MMU_CBPData36 IS=min IE=max ";tr 50
M=MMU_CBPData36 IS=min IE=max;echo 'done';
echo "there are 1737 more memories to test.";echo "tr 50 M=MMU_CBPData36_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData36_XPE0 IS=min IE=max;echo 'done';
echo "there are 1736 more memories to test.";echo "tr 50 M=MMU_CBPData36_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData36_XPE1 IS=min IE=max;echo 'done';
echo "there are 1735 more memories to test.";echo "tr 50 M=MMU_CBPData36_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData36_XPE2 IS=min IE=max;echo 'done';
echo "there are 1734 more memories to test.";echo "tr 50 M=MMU_CBPData36_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData36_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1733 more memories to test.";echo "tr 50 M=MMU_CBPData37 IS=min IE=max ";tr 50
M=MMU_CBPData37 IS=min IE=max;echo 'done';
echo "there are 1732 more memories to test.";echo "tr 50 M=MMU_CBPData37_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData37_XPE0 IS=min IE=max;echo 'done';
echo "there are 1731 more memories to test.";echo "tr 50 M=MMU_CBPData37_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData37_XPE1 IS=min IE=max;echo 'done';
echo "there are 1730 more memories to test.";echo "tr 50 M=MMU_CBPData37_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData37_XPE2 IS=min IE=max;echo 'done';
echo "there are 1729 more memories to test.";echo "tr 50 M=MMU_CBPData37_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData37_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1728 more memories to test.";echo "tr 50 M=MMU_CBPData38 IS=min IE=max ";tr 50
M=MMU_CBPData38 IS=min IE=max;echo 'done';
echo "there are 1727 more memories to test.";echo "tr 50 M=MMU_CBPData38_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData38_XPE0 IS=min IE=max;echo 'done';
echo "there are 1726 more memories to test.";echo "tr 50 M=MMU_CBPData38_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData38_XPE1 IS=min IE=max;echo 'done';
echo "there are 1725 more memories to test.";echo "tr 50 M=MMU_CBPData38_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData38_XPE2 IS=min IE=max;echo 'done';
echo "there are 1724 more memories to test.";echo "tr 50 M=MMU_CBPData38_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData38_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1723 more memories to test.";echo "tr 50 M=MMU_CBPData39 IS=min IE=max ";tr 50
M=MMU_CBPData39 IS=min IE=max;echo 'done';
echo "there are 1722 more memories to test.";echo "tr 50 M=MMU_CBPData39_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData39_XPE0 IS=min IE=max;echo 'done';
echo "there are 1721 more memories to test.";echo "tr 50 M=MMU_CBPData39_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData39_XPE1 IS=min IE=max;echo 'done';
echo "there are 1720 more memories to test.";echo "tr 50 M=MMU_CBPData39_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData39_XPE2 IS=min IE=max;echo 'done';
echo "there are 1719 more memories to test.";echo "tr 50 M=MMU_CBPData39_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData39_XPE3 IS=min IE=max;echo 'done';
echo "there are 1718 more memories to test.";echo "tr 50 M=MMU_CBPData3_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData3_XPE0 IS=min IE=max;echo 'done';
echo "there are 1717 more memories to test.";echo "tr 50 M=MMU_CBPData3_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData3_XPE1 IS=min IE=max;echo 'done';
echo "there are 1716 more memories to test.";echo "tr 50 M=MMU_CBPData3_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData3_XPE2 IS=min IE=max;echo 'done';
echo "there are 1715 more memories to test.";echo "tr 50 M=MMU_CBPData3_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData3_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1714 more memories to test.";echo "tr 50 M=MMU_CBPData4 IS=min IE=max ";tr 50
M=MMU_CBPData4 IS=min IE=max;echo 'done';
#echo "there are 1713 more memories to test.";echo "tr 50 M=MMU_CBPData40 IS=min IE=max ";tr 50
M=MMU_CBPData40 IS=min IE=max;echo 'done';
echo "there are 1712 more memories to test.";echo "tr 50 M=MMU_CBPData40_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData40_XPE0 IS=min IE=max;echo 'done';
echo "there are 1711 more memories to test.";echo "tr 50 M=MMU_CBPData40_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData40_XPE1 IS=min IE=max;echo 'done';
echo "there are 1710 more memories to test.";echo "tr 50 M=MMU_CBPData40_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData40_XPE2 IS=min IE=max;echo 'done';
echo "there are 1709 more memories to test.";echo "tr 50 M=MMU_CBPData40_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData40_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1708 more memories to test.";echo "tr 50 M=MMU_CBPData41 IS=min IE=max ";tr 50
M=MMU_CBPData41 IS=min IE=max;echo 'done';
echo "there are 1707 more memories to test.";echo "tr 50 M=MMU_CBPData41_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData41_XPE0 IS=min IE=max;echo 'done';
echo "there are 1706 more memories to test.";echo "tr 50 M=MMU_CBPData41_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData41_XPE1 IS=min IE=max;echo 'done';
echo "there are 1705 more memories to test.";echo "tr 50 M=MMU_CBPData41_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData41_XPE2 IS=min IE=max;echo 'done';
echo "there are 1704 more memories to test.";echo "tr 50 M=MMU_CBPData41_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData41_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1703 more memories to test.";echo "tr 50 M=MMU_CBPData42 IS=min IE=max ";tr 50
M=MMU_CBPData42 IS=min IE=max;echo 'done';
echo "there are 1702 more memories to test.";echo "tr 50 M=MMU_CBPData42_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData42_XPE0 IS=min IE=max;echo 'done';
echo "there are 1701 more memories to test.";echo "tr 50 M=MMU_CBPData42_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData42_XPE1 IS=min IE=max;echo 'done';
echo "there are 1700 more memories to test.";echo "tr 50 M=MMU_CBPData42_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData42_XPE2 IS=min IE=max;echo 'done';
echo "there are 1699 more memories to test.";echo "tr 50 M=MMU_CBPData42_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData42_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1698 more memories to test.";echo "tr 50 M=MMU_CBPData43 IS=min IE=max ";tr 50
M=MMU_CBPData43 IS=min IE=max;echo 'done';
echo "there are 1697 more memories to test.";echo "tr 50 M=MMU_CBPData43_XPE0 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData43_XPE0 IS=min IE=max;echo 'done';
echo "there are 1696 more memories to test.";echo "tr 50 M=MMU_CBPData43_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData43_XPE1 IS=min IE=max;echo 'done';
echo "there are 1695 more memories to test.";echo "tr 50 M=MMU_CBPData43_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData43_XPE2 IS=min IE=max;echo 'done';
echo "there are 1694 more memories to test.";echo "tr 50 M=MMU_CBPData43_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData43_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1693 more memories to test.";echo "tr 50 M=MMU_CBPData44 IS=min IE=max ";tr 50
M=MMU_CBPData44 IS=min IE=max;echo 'done';
echo "there are 1692 more memories to test.";echo "tr 50 M=MMU_CBPData44_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData44_XPE0 IS=min IE=max;echo 'done';
echo "there are 1691 more memories to test.";echo "tr 50 M=MMU_CBPData44_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData44_XPE1 IS=min IE=max;echo 'done';
echo "there are 1690 more memories to test.";echo "tr 50 M=MMU_CBPData44_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData44_XPE2 IS=min IE=max;echo 'done';
echo "there are 1689 more memories to test.";echo "tr 50 M=MMU_CBPData44_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData44_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1688 more memories to test.";echo "tr 50 M=MMU_CBPData45 IS=min IE=max ";tr 50
M=MMU_CBPData45 IS=min IE=max;echo 'done';
echo "there are 1687 more memories to test.";echo "tr 50 M=MMU_CBPData45_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData45_XPE0 IS=min IE=max;echo 'done';
echo "there are 1686 more memories to test.";echo "tr 50 M=MMU_CBPData45_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData45_XPE1 IS=min IE=max;echo 'done';
echo "there are 1685 more memories to test.";echo "tr 50 M=MMU_CBPData45_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData45_XPE2 IS=min IE=max;echo 'done';
echo "there are 1684 more memories to test.";echo "tr 50 M=MMU_CBPData45_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData45_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1683 more memories to test.";echo "tr 50 M=MMU_CBPData46 IS=min IE=max ";tr 50
M=MMU_CBPData46 IS=min IE=max;echo 'done';
echo "there are 1682 more memories to test.";echo "tr 50 M=MMU_CBPData46_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData46_XPE0 IS=min IE=max;echo 'done';
echo "there are 1681 more memories to test.";echo "tr 50 M=MMU_CBPData46_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData46_XPE1 IS=min IE=max;echo 'done';
echo "there are 1680 more memories to test.";echo "tr 50 M=MMU_CBPData46_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData46_XPE2 IS=min IE=max;echo 'done';
echo "there are 1679 more memories to test.";echo "tr 50 M=MMU_CBPData46_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData46_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1678 more memories to test.";echo "tr 50 M=MMU_CBPData47 IS=min IE=max ";tr 50
M=MMU_CBPData47 IS=min IE=max;echo 'done';
echo "there are 1677 more memories to test.";echo "tr 50 M=MMU_CBPData47_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData47_XPE0 IS=min IE=max;echo 'done';
echo "there are 1676 more memories to test.";echo "tr 50 M=MMU_CBPData47_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData47_XPE1 IS=min IE=max;echo 'done';
echo "there are 1675 more memories to test.";echo "tr 50 M=MMU_CBPData47_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData47_XPE2 IS=min IE=max;echo 'done';
echo "there are 1674 more memories to test.";echo "tr 50 M=MMU_CBPData47_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData47_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1673 more memories to test.";echo "tr 50 M=MMU_CBPData48 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData48 IS=min IE=max;echo 'done';
echo "there are 1672 more memories to test.";echo "tr 50 M=MMU_CBPData48_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData48_XPE0 IS=min IE=max;echo 'done';
echo "there are 1671 more memories to test.";echo "tr 50 M=MMU_CBPData48_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData48_XPE1 IS=min IE=max;echo 'done';
echo "there are 1670 more memories to test.";echo "tr 50 M=MMU_CBPData48_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData48_XPE2 IS=min IE=max;echo 'done';
echo "there are 1669 more memories to test.";echo "tr 50 M=MMU_CBPData48_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData48_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1668 more memories to test.";echo "tr 50 M=MMU_CBPData49 IS=min IE=max ";tr 50
M=MMU_CBPData49 IS=min IE=max;echo 'done';
echo "there are 1667 more memories to test.";echo "tr 50 M=MMU_CBPData49_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData49_XPE0 IS=min IE=max;echo 'done';
echo "there are 1666 more memories to test.";echo "tr 50 M=MMU_CBPData49_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData49_XPE1 IS=min IE=max;echo 'done';
echo "there are 1665 more memories to test.";echo "tr 50 M=MMU_CBPData49_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData49_XPE2 IS=min IE=max;echo 'done';
echo "there are 1664 more memories to test.";echo "tr 50 M=MMU_CBPData49_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData49_XPE3 IS=min IE=max;echo 'done';
echo "there are 1663 more memories to test.";echo "tr 50 M=MMU_CBPData4_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData4_XPE0 IS=min IE=max;echo 'done';
echo "there are 1662 more memories to test.";echo "tr 50 M=MMU_CBPData4_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData4_XPE1 IS=min IE=max;echo 'done';
echo "there are 1661 more memories to test.";echo "tr 50 M=MMU_CBPData4_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData4_XPE2 IS=min IE=max;echo 'done';
echo "there are 1660 more memories to test.";echo "tr 50 M=MMU_CBPData4_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData4_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1659 more memories to test.";echo "tr 50 M=MMU_CBPData5 IS=min IE=max ";tr 50
M=MMU_CBPData5 IS=min IE=max;echo 'done';
#echo "there are 1658 more memories to test.";echo "tr 50 M=MMU_CBPData50 IS=min IE=max ";tr 50
M=MMU_CBPData50 IS=min IE=max;echo 'done';
echo "there are 1657 more memories to test.";echo "tr 50 M=MMU_CBPData50_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData50_XPE0 IS=min IE=max;echo 'done';
echo "there are 1656 more memories to test.";echo "tr 50 M=MMU_CBPData50_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData50_XPE1 IS=min IE=max;echo 'done';
echo "there are 1655 more memories to test.";echo "tr 50 M=MMU_CBPData50_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData50_XPE2 IS=min IE=max;echo 'done';
echo "there are 1654 more memories to test.";echo "tr 50 M=MMU_CBPData50_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData50_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1653 more memories to test.";echo "tr 50 M=MMU_CBPData51 IS=min IE=max ";tr 50
M=MMU_CBPData51 IS=min IE=max;echo 'done';
echo "there are 1652 more memories to test.";echo "tr 50 M=MMU_CBPData51_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData51_XPE0 IS=min IE=max;echo 'done';
echo "there are 1651 more memories to test.";echo "tr 50 M=MMU_CBPData51_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData51_XPE1 IS=min IE=max;echo 'done';
echo "there are 1650 more memories to test.";echo "tr 50 M=MMU_CBPData51_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData51_XPE2 IS=min IE=max;echo 'done';
echo "there are 1649 more memories to test.";echo "tr 50 M=MMU_CBPData51_XPE3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData51_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1648 more memories to test.";echo "tr 50 M=MMU_CBPData52 IS=min IE=max ";tr 50
M=MMU_CBPData52 IS=min IE=max;echo 'done';
echo "there are 1647 more memories to test.";echo "tr 50 M=MMU_CBPData52_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData52_XPE0 IS=min IE=max;echo 'done';
echo "there are 1646 more memories to test.";echo "tr 50 M=MMU_CBPData52_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData52_XPE1 IS=min IE=max;echo 'done';
echo "there are 1645 more memories to test.";echo "tr 50 M=MMU_CBPData52_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData52_XPE2 IS=min IE=max;echo 'done';
echo "there are 1644 more memories to test.";echo "tr 50 M=MMU_CBPData52_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData52_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1643 more memories to test.";echo "tr 50 M=MMU_CBPData53 IS=min IE=max ";tr 50
M=MMU_CBPData53 IS=min IE=max;echo 'done';
echo "there are 1642 more memories to test.";echo "tr 50 M=MMU_CBPData53_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData53_XPE0 IS=min IE=max;echo 'done';
echo "there are 1641 more memories to test.";echo "tr 50 M=MMU_CBPData53_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData53_XPE1 IS=min IE=max;echo 'done';
echo "there are 1640 more memories to test.";echo "tr 50 M=MMU_CBPData53_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData53_XPE2 IS=min IE=max;echo 'done';
echo "there are 1639 more memories to test.";echo "tr 50 M=MMU_CBPData53_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData53_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1638 more memories to test.";echo "tr 50 M=MMU_CBPData54 IS=min IE=max ";tr 50
M=MMU_CBPData54 IS=min IE=max;echo 'done';
echo "there are 1637 more memories to test.";echo "tr 50 M=MMU_CBPData54_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData54_XPE0 IS=min IE=max;echo 'done';
echo "there are 1636 more memories to test.";echo "tr 50 M=MMU_CBPData54_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData54_XPE1 IS=min IE=max;echo 'done';
echo "there are 1635 more memories to test.";echo "tr 50 M=MMU_CBPData54_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData54_XPE2 IS=min IE=max;echo 'done';
echo "there are 1634 more memories to test.";echo "tr 50 M=MMU_CBPData54_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData54_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1633 more memories to test.";echo "tr 50 M=MMU_CBPData55 IS=min IE=max ";tr 50
M=MMU_CBPData55 IS=min IE=max;echo 'done';
echo "there are 1632 more memories to test.";echo "tr 50 M=MMU_CBPData55_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData55_XPE0 IS=min IE=max;echo 'done';
echo "there are 1631 more memories to test.";echo "tr 50 M=MMU_CBPData55_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData55_XPE1 IS=min IE=max;echo 'done';
echo "there are 1630 more memories to test.";echo "tr 50 M=MMU_CBPData55_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData55_XPE2 IS=min IE=max;echo 'done';
echo "there are 1629 more memories to test.";echo "tr 50 M=MMU_CBPData55_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData55_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1628 more memories to test.";echo "tr 50 M=MMU_CBPData56 IS=min IE=max ";tr 50
M=MMU_CBPData56 IS=min IE=max;echo 'done';
echo "there are 1627 more memories to test.";echo "tr 50 M=MMU_CBPData56_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData56_XPE0 IS=min IE=max;echo 'done';
echo "there are 1626 more memories to test.";echo "tr 50 M=MMU_CBPData56_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData56_XPE1 IS=min IE=max;echo 'done';
echo "there are 1625 more memories to test.";echo "tr 50 M=MMU_CBPData56_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData56_XPE2 IS=min IE=max;echo 'done';
echo "there are 1624 more memories to test.";echo "tr 50 M=MMU_CBPData56_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData56_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1623 more memories to test.";echo "tr 50 M=MMU_CBPData57 IS=min IE=max ";tr 50
M=MMU_CBPData57 IS=min IE=max;echo 'done';
echo "there are 1622 more memories to test.";echo "tr 50 M=MMU_CBPData57_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData57_XPE0 IS=min IE=max;echo 'done';
echo "there are 1621 more memories to test.";echo "tr 50 M=MMU_CBPData57_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData57_XPE1 IS=min IE=max;echo 'done';
echo "there are 1620 more memories to test.";echo "tr 50 M=MMU_CBPData57_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData57_XPE2 IS=min IE=max;echo 'done';
echo "there are 1619 more memories to test.";echo "tr 50 M=MMU_CBPData57_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData57_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1618 more memories to test.";echo "tr 50 M=MMU_CBPData58 IS=min IE=max ";tr 50
M=MMU_CBPData58 IS=min IE=max;echo 'done';
echo "there are 1617 more memories to test.";echo "tr 50 M=MMU_CBPData58_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData58_XPE0 IS=min IE=max;echo 'done';
echo "there are 1616 more memories to test.";echo "tr 50 M=MMU_CBPData58_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData58_XPE1 IS=min IE=max;echo 'done';
echo "there are 1615 more memories to test.";echo "tr 50 M=MMU_CBPData58_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData58_XPE2 IS=min IE=max;echo 'done';
echo "there are 1614 more memories to test.";echo "tr 50 M=MMU_CBPData58_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData58_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1613 more memories to test.";echo "tr 50 M=MMU_CBPData59 IS=min IE=max ";tr 50
M=MMU_CBPData59 IS=min IE=max;echo 'done';
echo "there are 1612 more memories to test.";echo "tr 50 M=MMU_CBPData59_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData59_XPE0 IS=min IE=max;echo 'done';
echo "there are 1611 more memories to test.";echo "tr 50 M=MMU_CBPData59_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData59_XPE1 IS=min IE=max;echo 'done';
echo "there are 1610 more memories to test.";echo "tr 50 M=MMU_CBPData59_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData59_XPE2 IS=min IE=max;echo 'done';
echo "there are 1609 more memories to test.";echo "tr 50 M=MMU_CBPData59_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData59_XPE3 IS=min IE=max;echo 'done';
echo "there are 1608 more memories to test.";echo "tr 50 M=MMU_CBPData5_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData5_XPE0 IS=min IE=max;echo 'done';
echo "there are 1607 more memories to test.";echo "tr 50 M=MMU_CBPData5_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData5_XPE1 IS=min IE=max;echo 'done';
echo "there are 1606 more memories to test.";echo "tr 50 M=MMU_CBPData5_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData5_XPE2 IS=min IE=max;echo 'done';
echo "there are 1605 more memories to test.";echo "tr 50 M=MMU_CBPData5_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData5_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1604 more memories to test.";echo "tr 50 M=MMU_CBPData6 IS=min IE=max ";tr 50
M=MMU_CBPData6 IS=min IE=max;echo 'done';
#echo "there are 1603 more memories to test.";echo "tr 50 M=MMU_CBPData60 IS=min IE=max ";tr 50
M=MMU_CBPData60 IS=min IE=max;echo 'done';
echo "there are 1602 more memories to test.";echo "tr 50 M=MMU_CBPData60_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData60_XPE0 IS=min IE=max;echo 'done';
echo "there are 1601 more memories to test.";echo "tr 50 M=MMU_CBPData60_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData60_XPE1 IS=min IE=max;echo 'done';
echo "there are 1600 more memories to test.";echo "tr 50 M=MMU_CBPData60_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData60_XPE2 IS=min IE=max;echo 'done';
echo "there are 1599 more memories to test.";echo "tr 50 M=MMU_CBPData60_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData60_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1598 more memories to test.";echo "tr 50 M=MMU_CBPData61 IS=min IE=max ";tr 50
M=MMU_CBPData61 IS=min IE=max;echo 'done';
echo "there are 1597 more memories to test.";echo "tr 50 M=MMU_CBPData61_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData61_XPE0 IS=min IE=max;echo 'done';
echo "there are 1596 more memories to test.";echo "tr 50 M=MMU_CBPData61_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData61_XPE1 IS=min IE=max;echo 'done';
echo "there are 1595 more memories to test.";echo "tr 50 M=MMU_CBPData61_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData61_XPE2 IS=min IE=max;echo 'done';
echo "there are 1594 more memories to test.";echo "tr 50 M=MMU_CBPData61_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData61_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1593 more memories to test.";echo "tr 50 M=MMU_CBPData62 IS=min IE=max ";tr 50
M=MMU_CBPData62 IS=min IE=max;echo 'done';
echo "there are 1592 more memories to test.";echo "tr 50 M=MMU_CBPData62_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData62_XPE0 IS=min IE=max;echo 'done';
echo "there are 1591 more memories to test.";echo "tr 50 M=MMU_CBPData62_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData62_XPE1 IS=min IE=max;echo 'done';
echo "there are 1590 more memories to test.";echo "tr 50 M=MMU_CBPData62_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData62_XPE2 IS=min IE=max;echo 'done';
echo "there are 1589 more memories to test.";echo "tr 50 M=MMU_CBPData62_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData62_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1588 more memories to test.";echo "tr 50 M=MMU_CBPData63 IS=min IE=max ";tr 50
M=MMU_CBPData63 IS=min IE=max;echo 'done';
echo "there are 1587 more memories to test.";echo "tr 50 M=MMU_CBPData63_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData63_XPE0 IS=min IE=max;echo 'done';
echo "there are 1586 more memories to test.";echo "tr 50 M=MMU_CBPData63_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData63_XPE1 IS=min IE=max;echo 'done';
echo "there are 1585 more memories to test.";echo "tr 50 M=MMU_CBPData63_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData63_XPE2 IS=min IE=max;echo 'done';
echo "there are 1584 more memories to test.";echo "tr 50 M=MMU_CBPData63_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData63_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1583 more memories to test.";echo "tr 50 M=MMU_CBPData64 IS=min IE=max ";tr 50
M=MMU_CBPData64 IS=min IE=max;echo 'done';
echo "there are 1582 more memories to test.";echo "tr 50 M=MMU_CBPData64_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData64_XPE0 IS=min IE=max;echo 'done';
echo "there are 1581 more memories to test.";echo "tr 50 M=MMU_CBPData64_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData64_XPE1 IS=min IE=max;echo 'done';
echo "there are 1580 more memories to test.";echo "tr 50 M=MMU_CBPData64_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData64_XPE2 IS=min IE=max;echo 'done';
echo "there are 1579 more memories to test.";echo "tr 50 M=MMU_CBPData64_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData64_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1578 more memories to test.";echo "tr 50 M=MMU_CBPData65 IS=min IE=max ";tr 50
M=MMU_CBPData65 IS=min IE=max;echo 'done';
echo "there are 1577 more memories to test.";echo "tr 50 M=MMU_CBPData65_XPE0 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData65_XPE0 IS=min IE=max;echo 'done';
echo "there are 1576 more memories to test.";echo "tr 50 M=MMU_CBPData65_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData65_XPE1 IS=min IE=max;echo 'done';
echo "there are 1575 more memories to test.";echo "tr 50 M=MMU_CBPData65_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData65_XPE2 IS=min IE=max;echo 'done';
echo "there are 1574 more memories to test.";echo "tr 50 M=MMU_CBPData65_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData65_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1573 more memories to test.";echo "tr 50 M=MMU_CBPData66 IS=min IE=max ";tr 50
M=MMU_CBPData66 IS=min IE=max;echo 'done';
echo "there are 1572 more memories to test.";echo "tr 50 M=MMU_CBPData66_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData66_XPE0 IS=min IE=max;echo 'done';
echo "there are 1571 more memories to test.";echo "tr 50 M=MMU_CBPData66_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData66_XPE1 IS=min IE=max;echo 'done';
echo "there are 1570 more memories to test.";echo "tr 50 M=MMU_CBPData66_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData66_XPE2 IS=min IE=max;echo 'done';
echo "there are 1569 more memories to test.";echo "tr 50 M=MMU_CBPData66_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData66_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1568 more memories to test.";echo "tr 50 M=MMU_CBPData67 IS=min IE=max ";tr 50
M=MMU_CBPData67 IS=min IE=max;echo 'done';
echo "there are 1567 more memories to test.";echo "tr 50 M=MMU_CBPData67_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData67_XPE0 IS=min IE=max;echo 'done';
echo "there are 1566 more memories to test.";echo "tr 50 M=MMU_CBPData67_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData67_XPE1 IS=min IE=max;echo 'done';
echo "there are 1565 more memories to test.";echo "tr 50 M=MMU_CBPData67_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData67_XPE2 IS=min IE=max;echo 'done';
echo "there are 1564 more memories to test.";echo "tr 50 M=MMU_CBPData67_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData67_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1563 more memories to test.";echo "tr 50 M=MMU_CBPData68 IS=min IE=max ";tr 50
M=MMU_CBPData68 IS=min IE=max;echo 'done';
echo "there are 1562 more memories to test.";echo "tr 50 M=MMU_CBPData68_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData68_XPE0 IS=min IE=max;echo 'done';
echo "there are 1561 more memories to test.";echo "tr 50 M=MMU_CBPData68_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData68_XPE1 IS=min IE=max;echo 'done';
echo "there are 1560 more memories to test.";echo "tr 50 M=MMU_CBPData68_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData68_XPE2 IS=min IE=max;echo 'done';
echo "there are 1559 more memories to test.";echo "tr 50 M=MMU_CBPData68_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData68_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1558 more memories to test.";echo "tr 50 M=MMU_CBPData69 IS=min IE=max ";tr 50
M=MMU_CBPData69 IS=min IE=max;echo 'done';
echo "there are 1557 more memories to test.";echo "tr 50 M=MMU_CBPData69_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData69_XPE0 IS=min IE=max;echo 'done';
echo "there are 1556 more memories to test.";echo "tr 50 M=MMU_CBPData69_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData69_XPE1 IS=min IE=max;echo 'done';
echo "there are 1555 more memories to test.";echo "tr 50 M=MMU_CBPData69_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData69_XPE2 IS=min IE=max;echo 'done';
echo "there are 1554 more memories to test.";echo "tr 50 M=MMU_CBPData69_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData69_XPE3 IS=min IE=max;echo 'done';
echo "there are 1553 more memories to test.";echo "tr 50 M=MMU_CBPData6_XPE0 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData6_XPE0 IS=min IE=max;echo 'done';
echo "there are 1552 more memories to test.";echo "tr 50 M=MMU_CBPData6_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData6_XPE1 IS=min IE=max;echo 'done';
echo "there are 1551 more memories to test.";echo "tr 50 M=MMU_CBPData6_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData6_XPE2 IS=min IE=max;echo 'done';
echo "there are 1550 more memories to test.";echo "tr 50 M=MMU_CBPData6_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData6_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1549 more memories to test.";echo "tr 50 M=MMU_CBPData7 IS=min IE=max ";tr 50
M=MMU_CBPData7 IS=min IE=max;echo 'done';
#echo "there are 1548 more memories to test.";echo "tr 50 M=MMU_CBPData70 IS=min IE=max ";tr 50
M=MMU_CBPData70 IS=min IE=max;echo 'done';
echo "there are 1547 more memories to test.";echo "tr 50 M=MMU_CBPData70_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData70_XPE0 IS=min IE=max;echo 'done';
echo "there are 1546 more memories to test.";echo "tr 50 M=MMU_CBPData70_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData70_XPE1 IS=min IE=max;echo 'done';
echo "there are 1545 more memories to test.";echo "tr 50 M=MMU_CBPData70_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData70_XPE2 IS=min IE=max;echo 'done';
echo "there are 1544 more memories to test.";echo "tr 50 M=MMU_CBPData70_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData70_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1543 more memories to test.";echo "tr 50 M=MMU_CBPData71 IS=min IE=max ";tr 50
M=MMU_CBPData71 IS=min IE=max;echo 'done';
echo "there are 1542 more memories to test.";echo "tr 50 M=MMU_CBPData71_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData71_XPE0 IS=min IE=max;echo 'done';
echo "there are 1541 more memories to test.";echo "tr 50 M=MMU_CBPData71_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData71_XPE1 IS=min IE=max;echo 'done';
echo "there are 1540 more memories to test.";echo "tr 50 M=MMU_CBPData71_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData71_XPE2 IS=min IE=max;echo 'done';
echo "there are 1539 more memories to test.";echo "tr 50 M=MMU_CBPData71_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData71_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1538 more memories to test.";echo "tr 50 M=MMU_CBPData72 IS=min IE=max ";tr 50
M=MMU_CBPData72 IS=min IE=max;echo 'done';
echo "there are 1537 more memories to test.";echo "tr 50 M=MMU_CBPData72_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData72_XPE0 IS=min IE=max;echo 'done';
echo "there are 1536 more memories to test.";echo "tr 50 M=MMU_CBPData72_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData72_XPE1 IS=min IE=max;echo 'done';
echo "there are 1535 more memories to test.";echo "tr 50 M=MMU_CBPData72_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData72_XPE2 IS=min IE=max;echo 'done';
echo "there are 1534 more memories to test.";echo "tr 50 M=MMU_CBPData72_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData72_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1533 more memories to test.";echo "tr 50 M=MMU_CBPData73 IS=min IE=max ";tr 50
M=MMU_CBPData73 IS=min IE=max;echo 'done';
echo "there are 1532 more memories to test.";echo "tr 50 M=MMU_CBPData73_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData73_XPE0 IS=min IE=max;echo 'done';
echo "there are 1531 more memories to test.";echo "tr 50 M=MMU_CBPData73_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData73_XPE1 IS=min IE=max;echo 'done';
echo "there are 1530 more memories to test.";echo "tr 50 M=MMU_CBPData73_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData73_XPE2 IS=min IE=max;echo 'done';
echo "there are 1529 more memories to test.";echo "tr 50 M=MMU_CBPData73_XPE3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData73_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1528 more memories to test.";echo "tr 50 M=MMU_CBPData74 IS=min IE=max ";tr 50
M=MMU_CBPData74 IS=min IE=max;echo 'done';
echo "there are 1527 more memories to test.";echo "tr 50 M=MMU_CBPData74_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData74_XPE0 IS=min IE=max;echo 'done';
echo "there are 1526 more memories to test.";echo "tr 50 M=MMU_CBPData74_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData74_XPE1 IS=min IE=max;echo 'done';
echo "there are 1525 more memories to test.";echo "tr 50 M=MMU_CBPData74_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData74_XPE2 IS=min IE=max;echo 'done';
echo "there are 1524 more memories to test.";echo "tr 50 M=MMU_CBPData74_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData74_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1523 more memories to test.";echo "tr 50 M=MMU_CBPData75 IS=min IE=max ";tr 50
M=MMU_CBPData75 IS=min IE=max;echo 'done';
echo "there are 1522 more memories to test.";echo "tr 50 M=MMU_CBPData75_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData75_XPE0 IS=min IE=max;echo 'done';
echo "there are 1521 more memories to test.";echo "tr 50 M=MMU_CBPData75_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData75_XPE1 IS=min IE=max;echo 'done';
echo "there are 1520 more memories to test.";echo "tr 50 M=MMU_CBPData75_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData75_XPE2 IS=min IE=max;echo 'done';
echo "there are 1519 more memories to test.";echo "tr 50 M=MMU_CBPData75_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData75_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1518 more memories to test.";echo "tr 50 M=MMU_CBPData76 IS=min IE=max ";tr 50
M=MMU_CBPData76 IS=min IE=max;echo 'done';
echo "there are 1517 more memories to test.";echo "tr 50 M=MMU_CBPData76_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData76_XPE0 IS=min IE=max;echo 'done';
echo "there are 1516 more memories to test.";echo "tr 50 M=MMU_CBPData76_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData76_XPE1 IS=min IE=max;echo 'done';
echo "there are 1515 more memories to test.";echo "tr 50 M=MMU_CBPData76_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData76_XPE2 IS=min IE=max;echo 'done';
echo "there are 1514 more memories to test.";echo "tr 50 M=MMU_CBPData76_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData76_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1513 more memories to test.";echo "tr 50 M=MMU_CBPData77 IS=min IE=max ";tr 50
M=MMU_CBPData77 IS=min IE=max;echo 'done';
echo "there are 1512 more memories to test.";echo "tr 50 M=MMU_CBPData77_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData77_XPE0 IS=min IE=max;echo 'done';
echo "there are 1511 more memories to test.";echo "tr 50 M=MMU_CBPData77_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData77_XPE1 IS=min IE=max;echo 'done';
echo "there are 1510 more memories to test.";echo "tr 50 M=MMU_CBPData77_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData77_XPE2 IS=min IE=max;echo 'done';
echo "there are 1509 more memories to test.";echo "tr 50 M=MMU_CBPData77_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData77_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1508 more memories to test.";echo "tr 50 M=MMU_CBPData78 IS=min IE=max ";tr 50
M=MMU_CBPData78 IS=min IE=max;echo 'done';
echo "there are 1507 more memories to test.";echo "tr 50 M=MMU_CBPData78_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData78_XPE0 IS=min IE=max;echo 'done';
echo "there are 1506 more memories to test.";echo "tr 50 M=MMU_CBPData78_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData78_XPE1 IS=min IE=max;echo 'done';
echo "there are 1505 more memories to test.";echo "tr 50 M=MMU_CBPData78_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData78_XPE2 IS=min IE=max;echo 'done';
echo "there are 1504 more memories to test.";echo "tr 50 M=MMU_CBPData78_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData78_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1503 more memories to test.";echo "tr 50 M=MMU_CBPData79 IS=min IE=max ";tr 50
M=MMU_CBPData79 IS=min IE=max;echo 'done';
echo "there are 1502 more memories to test.";echo "tr 50 M=MMU_CBPData79_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData79_XPE0 IS=min IE=max;echo 'done';
echo "there are 1501 more memories to test.";echo "tr 50 M=MMU_CBPData79_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData79_XPE1 IS=min IE=max;echo 'done';
echo "there are 1500 more memories to test.";echo "tr 50 M=MMU_CBPData79_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData79_XPE2 IS=min IE=max;echo 'done';
echo "there are 1499 more memories to test.";echo "tr 50 M=MMU_CBPData79_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData79_XPE3 IS=min IE=max;echo 'done';
echo "there are 1498 more memories to test.";echo "tr 50 M=MMU_CBPData7_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData7_XPE0 IS=min IE=max;echo 'done';
echo "there are 1497 more memories to test.";echo "tr 50 M=MMU_CBPData7_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData7_XPE1 IS=min IE=max;echo 'done';
echo "there are 1496 more memories to test.";echo "tr 50 M=MMU_CBPData7_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData7_XPE2 IS=min IE=max;echo 'done';
echo "there are 1495 more memories to test.";echo "tr 50 M=MMU_CBPData7_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData7_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1494 more memories to test.";echo "tr 50 M=MMU_CBPData8 IS=min IE=max ";tr 50
M=MMU_CBPData8 IS=min IE=max;echo 'done';
#echo "there are 1493 more memories to test.";echo "tr 50 M=MMU_CBPData80 IS=min IE=max ";tr 50
M=MMU_CBPData80 IS=min IE=max;echo 'done';
echo "there are 1492 more memories to test.";echo "tr 50 M=MMU_CBPData80_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData80_XPE0 IS=min IE=max;echo 'done';
echo "there are 1491 more memories to test.";echo "tr 50 M=MMU_CBPData80_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData80_XPE1 IS=min IE=max;echo 'done';
echo "there are 1490 more memories to test.";echo "tr 50 M=MMU_CBPData80_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData80_XPE2 IS=min IE=max;echo 'done';
echo "there are 1489 more memories to test.";echo "tr 50 M=MMU_CBPData80_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData80_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1488 more memories to test.";echo "tr 50 M=MMU_CBPData81 IS=min IE=max ";tr 50
M=MMU_CBPData81 IS=min IE=max;echo 'done';
echo "there are 1487 more memories to test.";echo "tr 50 M=MMU_CBPData81_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData81_XPE0 IS=min IE=max;echo 'done';
echo "there are 1486 more memories to test.";echo "tr 50 M=MMU_CBPData81_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData81_XPE1 IS=min IE=max;echo 'done';
echo "there are 1485 more memories to test.";echo "tr 50 M=MMU_CBPData81_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData81_XPE2 IS=min IE=max;echo 'done';
echo "there are 1484 more memories to test.";echo "tr 50 M=MMU_CBPData81_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData81_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1483 more memories to test.";echo "tr 50 M=MMU_CBPData82 IS=min IE=max ";tr 50
M=MMU_CBPData82 IS=min IE=max;echo 'done';
echo "there are 1482 more memories to test.";echo "tr 50 M=MMU_CBPData82_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData82_XPE0 IS=min IE=max;echo 'done';
echo "there are 1481 more memories to test.";echo "tr 50 M=MMU_CBPData82_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData82_XPE1 IS=min IE=max;echo 'done';
echo "there are 1480 more memories to test.";echo "tr 50 M=MMU_CBPData82_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData82_XPE2 IS=min IE=max;echo 'done';
echo "there are 1479 more memories to test.";echo "tr 50 M=MMU_CBPData82_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData82_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1478 more memories to test.";echo "tr 50 M=MMU_CBPData83 IS=min IE=max ";tr 50
M=MMU_CBPData83 IS=min IE=max;echo 'done';
echo "there are 1477 more memories to test.";echo "tr 50 M=MMU_CBPData83_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData83_XPE0 IS=min IE=max;echo 'done';
echo "there are 1476 more memories to test.";echo "tr 50 M=MMU_CBPData83_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData83_XPE1 IS=min IE=max;echo 'done';
echo "there are 1475 more memories to test.";echo "tr 50 M=MMU_CBPData83_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData83_XPE2 IS=min IE=max;echo 'done';
echo "there are 1474 more memories to test.";echo "tr 50 M=MMU_CBPData83_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData83_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1473 more memories to test.";echo "tr 50 M=MMU_CBPData84 IS=min IE=max ";tr 50
M=MMU_CBPData84 IS=min IE=max;echo 'done';
echo "there are 1472 more memories to test.";echo "tr 50 M=MMU_CBPData84_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData84_XPE0 IS=min IE=max;echo 'done';
echo "there are 1471 more memories to test.";echo "tr 50 M=MMU_CBPData84_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData84_XPE1 IS=min IE=max;echo 'done';
echo "there are 1470 more memories to test.";echo "tr 50 M=MMU_CBPData84_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData84_XPE2 IS=min IE=max;echo 'done';
echo "there are 1469 more memories to test.";echo "tr 50 M=MMU_CBPData84_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData84_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1468 more memories to test.";echo "tr 50 M=MMU_CBPData85 IS=min IE=max ";tr 50
M=MMU_CBPData85 IS=min IE=max;echo 'done';
echo "there are 1467 more memories to test.";echo "tr 50 M=MMU_CBPData85_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData85_XPE0 IS=min IE=max;echo 'done';
echo "there are 1466 more memories to test.";echo "tr 50 M=MMU_CBPData85_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData85_XPE1 IS=min IE=max;echo 'done';
echo "there are 1465 more memories to test.";echo "tr 50 M=MMU_CBPData85_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData85_XPE2 IS=min IE=max;echo 'done';
echo "there are 1464 more memories to test.";echo "tr 50 M=MMU_CBPData85_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData85_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1463 more memories to test.";echo "tr 50 M=MMU_CBPData86 IS=min IE=max ";tr 50
M=MMU_CBPData86 IS=min IE=max;echo 'done';
echo "there are 1462 more memories to test.";echo "tr 50 M=MMU_CBPData86_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData86_XPE0 IS=min IE=max;echo 'done';
echo "there are 1461 more memories to test.";echo "tr 50 M=MMU_CBPData86_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData86_XPE1 IS=min IE=max;echo 'done';
echo "there are 1460 more memories to test.";echo "tr 50 M=MMU_CBPData86_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData86_XPE2 IS=min IE=max;echo 'done';
echo "there are 1459 more memories to test.";echo "tr 50 M=MMU_CBPData86_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData86_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1458 more memories to test.";echo "tr 50 M=MMU_CBPData87 IS=min IE=max ";tr 50
M=MMU_CBPData87 IS=min IE=max;echo 'done';
echo "there are 1457 more memories to test.";echo "tr 50 M=MMU_CBPData87_XPE0 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData87_XPE0 IS=min IE=max;echo 'done';
echo "there are 1456 more memories to test.";echo "tr 50 M=MMU_CBPData87_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData87_XPE1 IS=min IE=max;echo 'done';
echo "there are 1455 more memories to test.";echo "tr 50 M=MMU_CBPData87_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData87_XPE2 IS=min IE=max;echo 'done';
echo "there are 1454 more memories to test.";echo "tr 50 M=MMU_CBPData87_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData87_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1453 more memories to test.";echo "tr 50 M=MMU_CBPData88 IS=min IE=max ";tr 50
M=MMU_CBPData88 IS=min IE=max;echo 'done';
echo "there are 1452 more memories to test.";echo "tr 50 M=MMU_CBPData88_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData88_XPE0 IS=min IE=max;echo 'done';
echo "there are 1451 more memories to test.";echo "tr 50 M=MMU_CBPData88_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData88_XPE1 IS=min IE=max;echo 'done';
echo "there are 1450 more memories to test.";echo "tr 50 M=MMU_CBPData88_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData88_XPE2 IS=min IE=max;echo 'done';
echo "there are 1449 more memories to test.";echo "tr 50 M=MMU_CBPData88_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData88_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1448 more memories to test.";echo "tr 50 M=MMU_CBPData89 IS=min IE=max ";tr 50
M=MMU_CBPData89 IS=min IE=max;echo 'done';
echo "there are 1447 more memories to test.";echo "tr 50 M=MMU_CBPData89_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData89_XPE0 IS=min IE=max;echo 'done';
echo "there are 1446 more memories to test.";echo "tr 50 M=MMU_CBPData89_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData89_XPE1 IS=min IE=max;echo 'done';
echo "there are 1445 more memories to test.";echo "tr 50 M=MMU_CBPData89_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData89_XPE2 IS=min IE=max;echo 'done';
echo "there are 1444 more memories to test.";echo "tr 50 M=MMU_CBPData89_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData89_XPE3 IS=min IE=max;echo 'done';
echo "there are 1443 more memories to test.";echo "tr 50 M=MMU_CBPData8_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData8_XPE0 IS=min IE=max;echo 'done';
echo "there are 1442 more memories to test.";echo "tr 50 M=MMU_CBPData8_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData8_XPE1 IS=min IE=max;echo 'done';
echo "there are 1441 more memories to test.";echo "tr 50 M=MMU_CBPData8_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData8_XPE2 IS=min IE=max;echo 'done';
echo "there are 1440 more memories to test.";echo "tr 50 M=MMU_CBPData8_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData8_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1439 more memories to test.";echo "tr 50 M=MMU_CBPData9 IS=min IE=max ";tr 50
M=MMU_CBPData9 IS=min IE=max;echo 'done';
#echo "there are 1438 more memories to test.";echo "tr 50 M=MMU_CBPData90 IS=min IE=max ";tr 50
M=MMU_CBPData90 IS=min IE=max;echo 'done';
echo "there are 1437 more memories to test.";echo "tr 50 M=MMU_CBPData90_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData90_XPE0 IS=min IE=max;echo 'done';
echo "there are 1436 more memories to test.";echo "tr 50 M=MMU_CBPData90_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData90_XPE1 IS=min IE=max;echo 'done';
echo "there are 1435 more memories to test.";echo "tr 50 M=MMU_CBPData90_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData90_XPE2 IS=min IE=max;echo 'done';
echo "there are 1434 more memories to test.";echo "tr 50 M=MMU_CBPData90_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData90_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1433 more memories to test.";echo "tr 50 M=MMU_CBPData91 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData91 IS=min IE=max;echo 'done';
echo "there are 1432 more memories to test.";echo "tr 50 M=MMU_CBPData91_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData91_XPE0 IS=min IE=max;echo 'done';
echo "there are 1431 more memories to test.";echo "tr 50 M=MMU_CBPData91_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData91_XPE1 IS=min IE=max;echo 'done';
echo "there are 1430 more memories to test.";echo "tr 50 M=MMU_CBPData91_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData91_XPE2 IS=min IE=max;echo 'done';
echo "there are 1429 more memories to test.";echo "tr 50 M=MMU_CBPData91_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData91_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1428 more memories to test.";echo "tr 50 M=MMU_CBPData92 IS=min IE=max ";tr 50
M=MMU_CBPData92 IS=min IE=max;echo 'done';
echo "there are 1427 more memories to test.";echo "tr 50 M=MMU_CBPData92_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData92_XPE0 IS=min IE=max;echo 'done';
echo "there are 1426 more memories to test.";echo "tr 50 M=MMU_CBPData92_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData92_XPE1 IS=min IE=max;echo 'done';
echo "there are 1425 more memories to test.";echo "tr 50 M=MMU_CBPData92_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData92_XPE2 IS=min IE=max;echo 'done';
echo "there are 1424 more memories to test.";echo "tr 50 M=MMU_CBPData92_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData92_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1423 more memories to test.";echo "tr 50 M=MMU_CBPData93 IS=min IE=max ";tr 50
M=MMU_CBPData93 IS=min IE=max;echo 'done';
echo "there are 1422 more memories to test.";echo "tr 50 M=MMU_CBPData93_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData93_XPE0 IS=min IE=max;echo 'done';
echo "there are 1421 more memories to test.";echo "tr 50 M=MMU_CBPData93_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData93_XPE1 IS=min IE=max;echo 'done';
echo "there are 1420 more memories to test.";echo "tr 50 M=MMU_CBPData93_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData93_XPE2 IS=min IE=max;echo 'done';
echo "there are 1419 more memories to test.";echo "tr 50 M=MMU_CBPData93_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData93_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1418 more memories to test.";echo "tr 50 M=MMU_CBPData94 IS=min IE=max ";tr 50
M=MMU_CBPData94 IS=min IE=max;echo 'done';
echo "there are 1417 more memories to test.";echo "tr 50 M=MMU_CBPData94_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData94_XPE0 IS=min IE=max;echo 'done';
echo "there are 1416 more memories to test.";echo "tr 50 M=MMU_CBPData94_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData94_XPE1 IS=min IE=max;echo 'done';
echo "there are 1415 more memories to test.";echo "tr 50 M=MMU_CBPData94_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData94_XPE2 IS=min IE=max;echo 'done';
echo "there are 1414 more memories to test.";echo "tr 50 M=MMU_CBPData94_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData94_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1413 more memories to test.";echo "tr 50 M=MMU_CBPData95 IS=min IE=max ";tr 50
M=MMU_CBPData95 IS=min IE=max;echo 'done';
echo "there are 1412 more memories to test.";echo "tr 50 M=MMU_CBPData95_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData95_XPE0 IS=min IE=max;echo 'done';
echo "there are 1411 more memories to test.";echo "tr 50 M=MMU_CBPData95_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData95_XPE1 IS=min IE=max;echo 'done';
echo "there are 1410 more memories to test.";echo "tr 50 M=MMU_CBPData95_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData95_XPE2 IS=min IE=max;echo 'done';
echo "there are 1409 more memories to test.";echo "tr 50 M=MMU_CBPData95_XPE3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData95_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1408 more memories to test.";echo "tr 50 M=MMU_CBPData96 IS=min IE=max ";tr 50
M=MMU_CBPData96 IS=min IE=max;echo 'done';
echo "there are 1407 more memories to test.";echo "tr 50 M=MMU_CBPData96_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData96_XPE0 IS=min IE=max;echo 'done';
echo "there are 1406 more memories to test.";echo "tr 50 M=MMU_CBPData96_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData96_XPE1 IS=min IE=max;echo 'done';
echo "there are 1405 more memories to test.";echo "tr 50 M=MMU_CBPData96_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData96_XPE2 IS=min IE=max;echo 'done';
echo "there are 1404 more memories to test.";echo "tr 50 M=MMU_CBPData96_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData96_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1403 more memories to test.";echo "tr 50 M=MMU_CBPData97 IS=min IE=max ";tr 50
M=MMU_CBPData97 IS=min IE=max;echo 'done';
echo "there are 1402 more memories to test.";echo "tr 50 M=MMU_CBPData97_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData97_XPE0 IS=min IE=max;echo 'done';
echo "there are 1401 more memories to test.";echo "tr 50 M=MMU_CBPData97_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData97_XPE1 IS=min IE=max;echo 'done';
echo "there are 1400 more memories to test.";echo "tr 50 M=MMU_CBPData97_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData97_XPE2 IS=min IE=max;echo 'done';
echo "there are 1399 more memories to test.";echo "tr 50 M=MMU_CBPData97_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData97_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1398 more memories to test.";echo "tr 50 M=MMU_CBPData98 IS=min IE=max ";tr 50
M=MMU_CBPData98 IS=min IE=max;echo 'done';
echo "there are 1397 more memories to test.";echo "tr 50 M=MMU_CBPData98_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData98_XPE0 IS=min IE=max;echo 'done';
echo "there are 1396 more memories to test.";echo "tr 50 M=MMU_CBPData98_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData98_XPE1 IS=min IE=max;echo 'done';
echo "there are 1395 more memories to test.";echo "tr 50 M=MMU_CBPData98_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData98_XPE2 IS=min IE=max;echo 'done';
echo "there are 1394 more memories to test.";echo "tr 50 M=MMU_CBPData98_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData98_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1393 more memories to test.";echo "tr 50 M=MMU_CBPData99 IS=min IE=max ";tr 50
M=MMU_CBPData99 IS=min IE=max;echo 'done';
echo "there are 1392 more memories to test.";echo "tr 50 M=MMU_CBPData99_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData99_XPE0 IS=min IE=max;echo 'done';
echo "there are 1391 more memories to test.";echo "tr 50 M=MMU_CBPData99_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData99_XPE1 IS=min IE=max;echo 'done';
echo "there are 1390 more memories to test.";echo "tr 50 M=MMU_CBPData99_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData99_XPE2 IS=min IE=max;echo 'done';
echo "there are 1389 more memories to test.";echo "tr 50 M=MMU_CBPData99_XPE3 IS=min IE=max ";tr 50
M=MMU_CBPData99_XPE3 IS=min IE=max;echo 'done';
echo "there are 1388 more memories to test.";echo "tr 50 M=MMU_CBPData9_XPE0 IS=min IE=max ";tr 50
M=MMU_CBPData9_XPE0 IS=min IE=max;echo 'done';
echo "there are 1387 more memories to test.";echo "tr 50 M=MMU_CBPData9_XPE1 IS=min IE=max ";tr 50
M=MMU_CBPData9_XPE1 IS=min IE=max;echo 'done';
echo "there are 1386 more memories to test.";echo "tr 50 M=MMU_CBPData9_XPE2 IS=min IE=max ";tr 50
M=MMU_CBPData9_XPE2 IS=min IE=max;echo 'done';
echo "there are 1385 more memories to test.";echo "tr 50 M=MMU_CBPData9_XPE3 IS=min IE=max ";tr 50
```

```
M=MMU_CBPData9_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1384 more memories to test.";echo "tr 50 M=MMU_CCP_MEM IS=min IE=max ";tr 50
M=MMU_CCP_MEM IS=min IE=max;echo 'done';
echo "there are 1383 more memories to test.";echo "tr 50 M=MMU_CCP_MEM_XPE0 IS=min IE=max ";tr 50
M=MMU_CCP_MEM_XPE0 IS=min IE=max;echo 'done';
echo "there are 1382 more memories to test.";echo "tr 50 M=MMU_CCP_MEM_XPE1 IS=min IE=max ";tr 50
M=MMU_CCP_MEM_XPE1 IS=min IE=max;echo 'done';
echo "there are 1381 more memories to test.";echo "tr 50 M=MMU_CCP_MEM_XPE2 IS=min IE=max ";tr 50
M=MMU_CCP_MEM_XPE2 IS=min IE=max;echo 'done';
echo "there are 1380 more memories to test.";echo "tr 50 M=MMU_CCP_MEM_XPE3 IS=min IE=max ";tr 50
M=MMU_CCP_MEM_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1379 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM IS=min IE=max ";tr 50
M=MMU_CCP_RESEQ_MEM IS=min IE=max;echo 'done';
echo "there are 1378 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1377 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1376 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1375 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1374 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1373 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1372 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1371 more memories to test.";echo "tr 50 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1370 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK0 IS=min IE=max;echo 'done';
echo "there are 1369 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK0_XPE0 IS=min IE=max;echo 'done';
echo "there are 1368 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK0_XPE1 IS=min IE=max;echo 'done';
echo "there are 1367 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK0_XPE2 IS=min IE=max;echo 'done';
echo "there are 1366 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK0_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1365 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK1 IS=min IE=max;echo 'done';
#echo "there are 1364 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK10 IS=min IE=max;echo 'done';
echo "there are 1363 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK10_XPE0 IS=min IE=max;echo 'done';
echo "there are 1362 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK10_XPE1 IS=min IE=max;echo 'done';
echo "there are 1361 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CFAP_BANK10_XPE2 IS=min IE=max;echo 'done';
echo "there are 1360 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK10_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1359 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK11 IS=min IE=max;echo 'done';
echo "there are 1358 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK11_XPE0 IS=min IE=max;echo 'done';
echo "there are 1357 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK11_XPE1 IS=min IE=max;echo 'done';
echo "there are 1356 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK11_XPE2 IS=min IE=max;echo 'done';
echo "there are 1355 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK11_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1354 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK12 IS=min IE=max;echo 'done';
echo "there are 1353 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK12_XPE0 IS=min IE=max;echo 'done';
echo "there are 1352 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK12_XPE1 IS=min IE=max;echo 'done';
echo "there are 1351 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK12_XPE2 IS=min IE=max;echo 'done';
echo "there are 1350 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK12_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1349 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK13 IS=min IE=max;echo 'done';
echo "there are 1348 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK13_XPE0 IS=min IE=max;echo 'done';
echo "there are 1347 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK13_XPE1 IS=min IE=max;echo 'done';
echo "there are 1346 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK13_XPE2 IS=min IE=max;echo 'done';
echo "there are 1345 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK13_XPE3 IS=min IE=max;echo 'done';
echo "there are 1344 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK1_XPE0 IS=min IE=max;echo 'done';
echo "there are 1343 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK1_XPE1 IS=min IE=max;echo 'done';
echo "there are 1342 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK1_XPE2 IS=min IE=max;echo 'done';
echo "there are 1341 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK1_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1340 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK2 IS=min IE=max;echo 'done';
echo "there are 1339 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK2_XPE0 IS=min IE=max;echo 'done';
echo "there are 1338 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK2_XPE1 IS=min IE=max;echo 'done';
echo "there are 1337 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2_XPE2 IS=min IE=max ";tr 50
```

```
M=MMU_CFAP_BANK2_XPE2 IS=min IE=max;echo 'done';
echo "there are 1336 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK2_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1335 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK3 IS=min IE=max;echo 'done';
echo "there are 1334 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK3_XPE0 IS=min IE=max;echo 'done';
echo "there are 1333 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK3_XPE1 IS=min IE=max;echo 'done';
echo "there are 1332 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK3_XPE2 IS=min IE=max;echo 'done';
echo "there are 1331 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK3_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1330 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK4 IS=min IE=max;echo 'done';
echo "there are 1329 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK4_XPE0 IS=min IE=max;echo 'done';
echo "there are 1328 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK4_XPE1 IS=min IE=max;echo 'done';
echo "there are 1327 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK4_XPE2 IS=min IE=max;echo 'done';
echo "there are 1326 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK4_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1325 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK5 IS=min IE=max;echo 'done';
echo "there are 1324 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK5_XPE0 IS=min IE=max;echo 'done';
echo "there are 1323 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK5_XPE1 IS=min IE=max;echo 'done';
echo "there are 1322 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK5_XPE2 IS=min IE=max;echo 'done';
echo "there are 1321 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK5_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1320 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK6 IS=min IE=max;echo 'done';
echo "there are 1319 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK6_XPE0 IS=min IE=max;echo 'done';
echo "there are 1318 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK6_XPE1 IS=min IE=max;echo 'done';
echo "there are 1317 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK6_XPE2 IS=min IE=max;echo 'done';
echo "there are 1316 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK6_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1315 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK7 IS=min IE=max;echo 'done';
echo "there are 1314 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK7_XPE0 IS=min IE=max;echo 'done';
echo "there are 1313 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_CFAP_BANK7_XPE1 IS=min IE=max;echo 'done';
echo "there are 1312 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK7_XPE2 IS=min IE=max;echo 'done';
echo "there are 1311 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK7_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1310 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK8 IS=min IE=max;echo 'done';
echo "there are 1309 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK8_XPE0 IS=min IE=max;echo 'done';
echo "there are 1308 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK8_XPE1 IS=min IE=max;echo 'done';
echo "there are 1307 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK8_XPE2 IS=min IE=max;echo 'done';
echo "there are 1306 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK8_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1305 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK9 IS=min IE=max;echo 'done';
echo "there are 1304 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9_XPE0 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK9_XPE0 IS=min IE=max;echo 'done';
echo "there are 1303 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9_XPE1 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK9_XPE1 IS=min IE=max;echo 'done';
echo "there are 1302 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9_XPE2 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK9_XPE2 IS=min IE=max;echo 'done';
echo "there are 1301 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9_XPE3 IS=min IE=max ";tr 50
M=MMU_CFAP_BANK9_XPE3 IS=min IE=max;echo 'done';
echo "there are 1300 more memories to test.";echo "tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
";tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max;echo 'done';
#echo "there are 1299 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
";tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 1298 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1297 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1296 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1295 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1294 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1293 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1292 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1291 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1290 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ";tr
50 M=MMU_CTR_ING_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 1289 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0
```

```
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1288 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1287 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1286 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1285 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1284 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1283 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1282 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 1281 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM IS=min IE=max ";tr
50 M=MMU_CTR_MC_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 1280 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1279 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1278 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1277 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1276 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1275 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1274 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1273 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1272 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ";tr
50 M=MMU_CTR_UC_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 1271 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1270 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1269 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1268 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1267 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1266 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1265 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min
```

```
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1264 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1263 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max
";tr 50 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 1262 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1261 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1260 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1259 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1258 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1257 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1256 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1255 more memories to test.";echo "tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1254 more memories to test.";echo "tr 50 M=MMU_ENQS_CT_FIFO IS=min IE=max ";tr 50
M=MMU_ENQS_CT_FIFO IS=min IE=max;echo 'done';
echo "there are 1253 more memories to test.";echo "tr 50 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max ";tr
50 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1252 more memories to test.";echo "tr 50 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max ";tr
50 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1251 more memories to test.";echo "tr 50 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max ";tr
50 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1250 more memories to test.";echo "tr 50 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max ";tr
50 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1249 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB IS=min IE=max ";tr 50
M=MMU_ENQS_PBI_DB IS=min IE=max;echo 'done';
echo "there are 1248 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1247 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1246 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1245 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1244 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1243 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1242 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max
";tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1241 more memories to test.";echo "tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max
```

```
";tr 50 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1240 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min
IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min IE=max;echo 'done';
echo "there are 1239 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1238 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1237 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1236 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1235 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1234 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1233 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1232 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 1231 more memories to test.";echo "tr 50 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min
IE=max ";tr 50 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min IE=max;echo 'done';
echo "there are 1230 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1229 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1228 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1227 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1226 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1225 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1224 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1223 more memories to test.";echo "tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 1222 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI IS=min IE=max ";tr 50
M=MMU_ENQX_PIPEMEM_HI IS=min IE=max;echo 'done';
echo "there are 1221 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min
```

```
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1220 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1219 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1218 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1217 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1216 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1215 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1214 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 1213 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max ";tr
50 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max;echo 'done';
echo "there are 1212 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1211 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1210 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1209 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1208 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1207 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1206 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1205 more memories to test.";echo "tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 1204 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM IS=min IE=max ";tr 50
M=MMU_EPRG_MEM IS=min IE=max;echo 'done';
echo "there are 1203 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM_XPE0 IS=min IE=max ";tr 50
M=MMU_EPRG_MEM_XPE0 IS=min IE=max;echo 'done';
echo "there are 1202 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM_XPE1 IS=min IE=max ";tr 50
M=MMU_EPRG_MEM_XPE1 IS=min IE=max;echo 'done';
echo "there are 1201 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM_XPE2 IS=min IE=max ";tr 50
M=MMU_EPRG_MEM_XPE2 IS=min IE=max;echo 'done';
echo "there are 1200 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM_XPE3 IS=min IE=max ";tr 50
M=MMU_EPRG_MEM_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1199 more memories to test.";echo "tr 50 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ";tr 50 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min IE=max;echo 'done';
echo "there are 1198 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 1197 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max
```

```
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max;echo 'done';
echo "there are 1196 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max;echo 'done';
echo "there are 1195 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max;echo 'done';
echo "there are 1194 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max;echo 'done';
#echo "there are 1193 more memories to test.";echo "tr 50 M=MMU_INTFO_TIMESTAMP IS=min IE=max ";tr 50
M=MMU_INTFO_TIMESTAMP IS=min IE=max;echo 'done';
echo "there are 1192 more memories to test.";echo "tr 50 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max
";tr 50 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max;echo 'done';
#echo "there are 1191 more memories to test.";echo "tr 50 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max
";tr 50 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max;echo 'done';
#echo "there are 1190 more memories to test.";echo "tr 50 M=MMU_LINK_MEM IS=min IE=max ";tr 50
M=MMU_LINK_MEM IS=min IE=max;echo 'done';
echo "there are 1189 more memories to test.";echo "tr 50 M=MMU_LINK_MEM_XPE0 IS=min IE=max ";tr 50
M=MMU_LINK_MEM_XPE0 IS=min IE=max;echo 'done';
echo "there are 1188 more memories to test.";echo "tr 50 M=MMU_LINK_MEM_XPE1 IS=min IE=max ";tr 50
M=MMU_LINK_MEM_XPE1 IS=min IE=max;echo 'done';
echo "there are 1187 more memories to test.";echo "tr 50 M=MMU_LINK_MEM_XPE2 IS=min IE=max ";tr 50
M=MMU_LINK_MEM_XPE2 IS=min IE=max;echo 'done';
echo "there are 1186 more memories to test.";echo "tr 50 M=MMU_LINK_MEM_XPE3 IS=min IE=max ";tr 50
M=MMU_LINK_MEM_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1185 more memories to test.";echo "tr 50 M=MMU_MCFP IS=min IE=max ";tr 50
M=MMU_MCFP IS=min IE=max;echo 'done';
echo "there are 1184 more memories to test.";echo "tr 50 M=MMU_MCFP_XPE0 IS=min IE=max ";tr 50
M=MMU_MCFP_XPE0 IS=min IE=max;echo 'done';
echo "there are 1183 more memories to test.";echo "tr 50 M=MMU_MCFP_XPE1 IS=min IE=max ";tr 50
M=MMU_MCFP_XPE1 IS=min IE=max;echo 'done';
echo "there are 1182 more memories to test.";echo "tr 50 M=MMU_MCFP_XPE2 IS=min IE=max ";tr 50
M=MMU_MCFP_XPE2 IS=min IE=max;echo 'done';
echo "there are 1181 more memories to test.";echo "tr 50 M=MMU_MCFP_XPE3 IS=min IE=max ";tr 50
M=MMU_MCFP_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1180 more memories to test.";echo "tr 50 M=MMU_MCQDB_X IS=min IE=max ";tr 50
M=MMU_MCQDB_X IS=min IE=max;echo 'done';
echo "there are 1179 more memories to test.";echo "tr 50 M=MMU_MCQDB_X_XPE0 IS=min IE=max ";tr 50
M=MMU_MCQDB_X_XPE0 IS=min IE=max;echo 'done';
echo "there are 1178 more memories to test.";echo "tr 50 M=MMU_MCQDB_X_XPE1 IS=min IE=max ";tr 50
M=MMU_MCQDB_X_XPE1 IS=min IE=max;echo 'done';
echo "there are 1177 more memories to test.";echo "tr 50 M=MMU_MCQDB_X_XPE2 IS=min IE=max ";tr 50
M=MMU_MCQDB_X_XPE2 IS=min IE=max;echo 'done';
echo "there are 1176 more memories to test.";echo "tr 50 M=MMU_MCQDB_X_XPE3 IS=min IE=max ";tr 50
M=MMU_MCQDB_X_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1175 more memories to test.";echo "tr 50 M=MMU_MCQDB_Y IS=min IE=max ";tr 50
M=MMU_MCQDB_Y IS=min IE=max;echo 'done';
echo "there are 1174 more memories to test.";echo "tr 50 M=MMU_MCQDB_Y_XPE0 IS=min IE=max ";tr 50
M=MMU_MCQDB_Y_XPE0 IS=min IE=max;echo 'done';
echo "there are 1173 more memories to test.";echo "tr 50 M=MMU_MCQDB_Y_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_MCQDB_Y_XPE1 IS=min IE=max;echo 'done';
echo "there are 1172 more memories to test.";echo "tr 50 M=MMU_MCQDB_Y_XPE2 IS=min IE=max ";tr 50
M=MMU_MCQDB_Y_XPE2 IS=min IE=max;echo 'done';
echo "there are 1171 more memories to test.";echo "tr 50 M=MMU_MCQDB_Y_XPE3 IS=min IE=max ";tr 50
M=MMU_MCQDB_Y_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1170 more memories to test.";echo "tr 50 M=MMU_MCQE IS=min IE=max ";tr 50
M=MMU_MCQE IS=min IE=max;echo 'done';
#echo "there are 1169 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_X IS=min IE=max ";tr
50 M=MMU_MCQE_PREFETCH_X IS=min IE=max;echo 'done';
echo "there are 1168 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max;echo 'done';
echo "there are 1167 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max;echo 'done';
echo "there are 1166 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max;echo 'done';
echo "there are 1165 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1164 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_Y IS=min IE=max ";tr
50 M=MMU_MCQE_PREFETCH_Y IS=min IE=max;echo 'done';
echo "there are 1163 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max;echo 'done';
echo "there are 1162 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max;echo 'done';
echo "there are 1161 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max;echo 'done';
echo "there are 1160 more memories to test.";echo "tr 50 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max
";tr 50 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max;echo 'done';
echo "there are 1159 more memories to test.";echo "tr 50 M=MMU_MCQE_XPE0 IS=min IE=max ";tr 50
M=MMU_MCQE_XPE0 IS=min IE=max;echo 'done';
echo "there are 1158 more memories to test.";echo "tr 50 M=MMU_MCQE_XPE1 IS=min IE=max ";tr 50
M=MMU_MCQE_XPE1 IS=min IE=max;echo 'done';
echo "there are 1157 more memories to test.";echo "tr 50 M=MMU_MCQE_XPE2 IS=min IE=max ";tr 50
M=MMU_MCQE_XPE2 IS=min IE=max;echo 'done';
echo "there are 1156 more memories to test.";echo "tr 50 M=MMU_MCQE_XPE3 IS=min IE=max ";tr 50
M=MMU_MCQE_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1155 more memories to test.";echo "tr 50 M=MMU_MCQN IS=min IE=max ";tr 50
M=MMU_MCQN IS=min IE=max;echo 'done';
echo "there are 1154 more memories to test.";echo "tr 50 M=MMU_MCQN_XPE0 IS=min IE=max ";tr 50
M=MMU_MCQN_XPE0 IS=min IE=max;echo 'done';
echo "there are 1153 more memories to test.";echo "tr 50 M=MMU_MCQN_XPE1 IS=min IE=max ";tr 50
M=MMU_MCQN_XPE1 IS=min IE=max;echo 'done';
echo "there are 1152 more memories to test.";echo "tr 50 M=MMU_MCQN_XPE2 IS=min IE=max ";tr 50
M=MMU_MCQN_XPE2 IS=min IE=max;echo 'done';
echo "there are 1151 more memories to test.";echo "tr 50 M=MMU_MCQN_XPE3 IS=min IE=max ";tr 50
M=MMU_MCQN_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1150 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max;echo 'done';
echo "there are 1149 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min
```

```
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1148 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1147 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1146 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1145 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max;echo 'done';
echo "there are 1144 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1143 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1142 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1141 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min
IE=max ";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1140 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM
IS=min IE=max ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM IS=min IE=max;echo 'done';
#echo "there are 1139 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A
IS=min IE=max ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A IS=min IE=max;echo 'done';
echo "there are 1138 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1137 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1136 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1135 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1134 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B
IS=min IE=max ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B IS=min IE=max;echo 'done';
echo "there are 1133 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1132 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1131 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1130 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1129 more memories to test.";echo "tr 50
```

```
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1128 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1127 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1126 more memories to test.";echo "tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max ";tr 50
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1125 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM IS=min IE=max ";tr 50
M=MMU_MTRO_L0_MEM IS=min IE=max;echo 'done';
#echo "there are 1124 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_A IS=min IE=max ";tr 50
M=MMU_MTRO_L0_MEM_A IS=min IE=max;echo 'done';
echo "there are 1123 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1122 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1121 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1120 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1119 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_B IS=min IE=max ";tr 50
M=MMU_MTRO_L0_MEM_B IS=min IE=max;echo 'done';
echo "there are 1118 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1117 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1116 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1115 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max
";tr 50 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1114 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max ";tr
50 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1113 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max ";tr
50 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1112 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max ";tr
50 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1111 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max ";tr
50 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1110 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM IS=min IE=max ";tr 50
M=MMU_MTRO_L1_MEM IS=min IE=max;echo 'done';
#echo "there are 1109 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_A IS=min IE=max ";tr 50
M=MMU_MTRO_L1_MEM_A IS=min IE=max;echo 'done';
echo "there are 1108 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1107 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max
```

```
";tr 50 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1106 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1105 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1104 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_B IS=min IE=max ";tr 50
M=MMU_MTRO_L1_MEM_B IS=min IE=max;echo 'done';
echo "there are 1103 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1102 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1101 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1100 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max
";tr 50 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1099 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max ";tr
50 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1098 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max ";tr
50 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1097 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max ";tr
50 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1096 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max ";tr
50 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1095 more memories to test.";echo "tr 50 M=MMU_PDB_X IS=min IE=max ";tr 50
M=MMU_PDB_X IS=min IE=max;echo 'done';
echo "there are 1094 more memories to test.";echo "tr 50 M=MMU_PDB_X_XPE0 IS=min IE=max ";tr 50
M=MMU_PDB_X_XPE0 IS=min IE=max;echo 'done';
echo "there are 1093 more memories to test.";echo "tr 50 M=MMU_PDB_X_XPE1 IS=min IE=max ";tr 50
M=MMU_PDB_X_XPE1 IS=min IE=max;echo 'done';
echo "there are 1092 more memories to test.";echo "tr 50 M=MMU_PDB_X_XPE2 IS=min IE=max ";tr 50
M=MMU_PDB_X_XPE2 IS=min IE=max;echo 'done';
echo "there are 1091 more memories to test.";echo "tr 50 M=MMU_PDB_X_XPE3 IS=min IE=max ";tr 50
M=MMU_PDB_X_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1090 more memories to test.";echo "tr 50 M=MMU_PDB_Y IS=min IE=max ";tr 50
M=MMU_PDB_Y IS=min IE=max;echo 'done';
echo "there are 1089 more memories to test.";echo "tr 50 M=MMU_PDB_Y_XPE0 IS=min IE=max ";tr 50
M=MMU_PDB_Y_XPE0 IS=min IE=max;echo 'done';
echo "there are 1088 more memories to test.";echo "tr 50 M=MMU_PDB_Y_XPE1 IS=min IE=max ";tr 50
M=MMU_PDB_Y_XPE1 IS=min IE=max;echo 'done';
echo "there are 1087 more memories to test.";echo "tr 50 M=MMU_PDB_Y_XPE2 IS=min IE=max ";tr 50
M=MMU_PDB_Y_XPE2 IS=min IE=max;echo 'done';
echo "there are 1086 more memories to test.";echo "tr 50 M=MMU_PDB_Y_XPE3 IS=min IE=max ";tr 50
M=MMU_PDB_Y_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1085 more memories to test.";echo "tr 50 M=MMU_PKTHDR IS=min IE=max ";tr 50
M=MMU_PKTHDR IS=min IE=max;echo 'done';
echo "there are 1084 more memories to test.";echo "tr 50 M=MMU_PKTHDR_XPE0 IS=min IE=max ";tr 50
M=MMU_PKTHDR_XPE0 IS=min IE=max;echo 'done';
echo "there are 1083 more memories to test.";echo "tr 50 M=MMU_PKTHDR_XPE1 IS=min IE=max ";tr 50
```

```
M=MMU_PKTHDR_XPE1 IS=min IE=max;echo 'done';
echo "there are 1082 more memories to test.";echo "tr 50 M=MMU_PKTHDR_XPE2 IS=min IE=max ";tr 50
M=MMU_PKTHDR_XPE2 IS=min IE=max;echo 'done';
echo "there are 1081 more memories to test.";echo "tr 50 M=MMU_PKTHDR_XPE3 IS=min IE=max ";tr 50
M=MMU_PKTHDR_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1080 more memories to test.";echo "tr 50 M=MMU_PORTCNT IS=min IE=max ";tr 50
M=MMU_PORTCNT IS=min IE=max;echo 'done';
echo "there are 1079 more memories to test.";echo "tr 50 M=MMU_PORTCNT_XPE0 IS=min IE=max ";tr 50
M=MMU_PORTCNT_XPE0 IS=min IE=max;echo 'done';
echo "there are 1078 more memories to test.";echo "tr 50 M=MMU_PORTCNT_XPE1 IS=min IE=max ";tr 50
M=MMU_PORTCNT_XPE1 IS=min IE=max;echo 'done';
echo "there are 1077 more memories to test.";echo "tr 50 M=MMU_PORTCNT_XPE2 IS=min IE=max ";tr 50
M=MMU_PORTCNT_XPE2 IS=min IE=max;echo 'done';
echo "there are 1076 more memories to test.";echo "tr 50 M=MMU_PORTCNT_XPE3 IS=min IE=max ";tr 50
M=MMU_PORTCNT_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1075 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM IS=min IE=max ";tr 50
M=MMU_PQE0_MEM IS=min IE=max;echo 'done';
echo "there are 1074 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM_XPE0 IS=min IE=max ";tr 50
M=MMU_PQE0_MEM_XPE0 IS=min IE=max;echo 'done';
echo "there are 1073 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM_XPE1 IS=min IE=max ";tr 50
M=MMU_PQE0_MEM_XPE1 IS=min IE=max;echo 'done';
echo "there are 1072 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM_XPE2 IS=min IE=max ";tr 50
M=MMU_PQE0_MEM_XPE2 IS=min IE=max;echo 'done';
echo "there are 1071 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM_XPE3 IS=min IE=max ";tr 50
M=MMU_PQE0_MEM_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1070 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM IS=min IE=max ";tr 50
M=MMU_PQE1_MEM IS=min IE=max;echo 'done';
echo "there are 1069 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM_XPE0 IS=min IE=max ";tr 50
M=MMU_PQE1_MEM_XPE0 IS=min IE=max;echo 'done';
echo "there are 1068 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM_XPE1 IS=min IE=max ";tr 50
M=MMU_PQE1_MEM_XPE1 IS=min IE=max;echo 'done';
echo "there are 1067 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM_XPE2 IS=min IE=max ";tr 50
M=MMU_PQE1_MEM_XPE2 IS=min IE=max;echo 'done';
echo "there are 1066 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM_XPE3 IS=min IE=max ";tr 50
M=MMU_PQE1_MEM_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1065 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max
";tr 50 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max;echo 'done';
echo "there are 1064 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min
IE=max ";tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1063 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min
IE=max ";tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1062 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min
IE=max ";tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1061 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min
IE=max ";tr 50 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1060 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ";tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max;echo 'done';
#echo "there are 1059 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0
```

```
IS=min IE=max ";tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0 IS=min IE=max;echo 'done';
echo "there are 1058 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max;echo 'done';
echo "there are 1057 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max;echo 'done';
#echo "there are 1056 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1
IS=min IE=max ";tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1 IS=min IE=max;echo 'done';
echo "there are 1055 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max;echo 'done';
echo "there are 1054 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max;echo 'done';
echo "there are 1053 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max;echo 'done';
echo "there are 1052 more memories to test.";echo "tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max;echo 'done';
#echo "there are 1051 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL IS=min IE=max ";tr 50
M=MMU_REPL_HEAD_TBL IS=min IE=max;echo 'done';
echo "there are 1050 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max
";tr 50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1049 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max
";tr 50 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1048 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max
";tr 50 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1047 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max
";tr 50 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1046 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL IS=min IE=max ";tr 50
M=MMU_REPL_LIST_TBL IS=min IE=max;echo 'done';
echo "there are 1045 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ";tr
50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1044 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max ";tr
50 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1043 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max ";tr
50 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1042 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max ";tr
50 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1041 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL IS=min IE=max ";tr 50
M=MMU_REPL_STATE_TBL IS=min IE=max;echo 'done';
echo "there are 1040 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max
";tr 50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1039 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max
";tr 50 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1038 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max
```

```
";tr 50 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1037 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max
";tr 50 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1036 more memories to test.";echo "tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ";tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min IE=max;echo 'done';
#echo "there are 1035 more memories to test.";echo "tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min
IE=max ";tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max;echo 'done';
#echo "there are 1034 more memories to test.";echo "tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min
IE=max ";tr 50 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max;echo 'done';
#echo "there are 1033 more memories to test.";echo "tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ";tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min IE=max;echo 'done';
#echo "there are 1032 more memories to test.";echo "tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0
IS=min IE=max ";tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max;echo 'done';
#echo "there are 1031 more memories to test.";echo "tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1
IS=min IE=max ";tr 50 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max;echo 'done';
#echo "there are 1030 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_LOWER
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_LOWER IS=min IE=max;echo 'done';
echo "there are 1029 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max;echo 'done';
echo "there are 1028 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max;echo 'done';
echo "there are 1027 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max;echo 'done';
echo "there are 1026 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1025 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max;echo 'done';
echo "there are 1024 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1023 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1022 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1021 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1020 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1019 more memories to test.";echo "tr 50
```

```
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1018 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1017 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1016 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max;echo 'done';
echo "there are 1015 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1014 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1013 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1012 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 1011 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 1010 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 1009 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 1008 more memories to test.";echo "tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max ";tr 50
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 1007 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER IS=min IE=max;echo 'done';
echo "there are 1006 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0 IS=min IE=max;echo 'done';
echo "there are 1005 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1 IS=min IE=max;echo 'done';
echo "there are 1004 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2 IS=min IE=max;echo 'done';
echo "there are 1003 more memories to test.";echo "tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3
IS=min IE=max ";tr 50 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3 IS=min IE=max;echo 'done';
#echo "there are 1002 more memories to test.";echo "tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT
IS=min IE=max ";tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT IS=min IE=max;echo 'done';
echo "there are 1001 more memories to test.";echo "tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0
```

```
IS=min IE=max ";tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0 IS=min IE=max;echo 'done';
echo "there are 1000 more memories to test.";echo "tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1 IS=min IE=max;echo 'done';
echo "there are 999 more memories to test.";echo "tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2 IS=min IE=max;echo 'done';
echo "there are 998 more memories to test.";echo "tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3 IS=min IE=max;echo 'done';
#echo "there are 997 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max
";tr 50 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max;echo 'done';
echo "there are 996 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 995 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 994 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 993 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 992 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 991 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 990 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 989 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 988 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG IS=min IE=max;echo 'done';
#echo "there are 987 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min IE=max;echo 'done';
echo "there are 986 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 985 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 984 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 983 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 982 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min IE=max;echo 'done';
echo "there are 981 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 980 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 979 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 978 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 977 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min IE=max;echo 'done';
echo "there are 976 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 975 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 974 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 973 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 972 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 971 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 970 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 969 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 968 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max
";tr 50 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max;echo 'done';
echo "there are 967 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 966 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 965 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 964 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 963 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 962 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 961 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 960 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 959 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG IS=min IE=max;echo 'done';
#echo "there are 958 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min IE=max;echo 'done';
echo "there are 957 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 956 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 955 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 954 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 953 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min IE=max;echo 'done';
echo "there are 952 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 951 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 950 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 949 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 948 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min IE=max;echo 'done';
echo "there are 947 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 946 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 945 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 944 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 943 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 942 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 941 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 940 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 939 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT IS=min IE=max;echo 'done';
echo "there are 938 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 937 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 936 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 935 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 934 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 933 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 932 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 931 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 930 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET IS=min IE=max;echo 'done';
#echo "there are 929 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min IE=max;echo 'done';
echo "there are 928 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 927 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 926 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 925 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 924 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min IE=max;echo 'done';
echo "there are 923 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 922 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 921 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 920 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 919 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min IE=max;echo 'done';
echo "there are 918 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 917 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 916 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 915 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 914 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min IE=max;echo 'done';
echo "there are 913 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min IE=max;echo 'done';
echo "there are 912 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min IE=max;echo 'done';
echo "there are 911 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 910 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME IS=min IE=max;echo 'done';
echo "there are 909 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 908 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 907 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 906 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 905 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0
```

```
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 904 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 903 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 902 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 901 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST IS=min IE=max;echo 'done';
echo "there are 900 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 899 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 898 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 897 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 896 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 895 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 894 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 893 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 892 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min IE=max;echo 'done';
#echo "there are 891 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min IE=max;echo 'done';
echo "there are 890 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 889 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 888 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 887 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 886 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min IE=max;echo 'done';
echo "there are 885 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 884 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 883 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 882 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 881 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min IE=max;echo 'done';
echo "there are 880 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 879 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 878 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 877 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 876 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 875 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 874 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 873 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 872 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max
";tr 50 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max;echo 'done';
echo "there are 871 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 870 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 869 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 868 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 867 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 866 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 865 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 864 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 863 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min IE=max;echo 'done';
#echo "there are 862 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min IE=max;echo 'done';
echo "there are 861 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 860 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 859 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 858 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 857 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min IE=max;echo 'done';
echo "there are 856 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 855 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 854 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 853 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 852 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min IE=max;echo 'done';
echo "there are 851 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 850 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 849 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 848 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 847 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 846 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 845 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 844 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 843 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min IE=max;echo 'done';
echo "there are 842 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 841 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 840 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 839 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 838 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 837 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 836 more memories to test.";echo "tr 50
```

```
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 835 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 834 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min IE=max;echo 'done';
#echo "there are 833 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min IE=max;echo 'done';
echo "there are 832 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0 IS=min IE=max;echo 'done';
echo "there are 831 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1 IS=min IE=max;echo 'done';
echo "there are 830 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2 IS=min IE=max;echo 'done';
echo "there are 829 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 828 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min IE=max;echo 'done';
echo "there are 827 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0 IS=min IE=max;echo 'done';
echo "there are 826 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1 IS=min IE=max;echo 'done';
echo "there are 825 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2 IS=min IE=max;echo 'done';
echo "there are 824 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 823 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min IE=max;echo 'done';
echo "there are 822 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0 IS=min IE=max;echo 'done';
echo "there are 821 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1 IS=min IE=max;echo 'done';
echo "there are 820 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2 IS=min IE=max;echo 'done';
echo "there are 819 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3 IS=min IE=max;echo 'done';
echo "there are 818 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0 IS=min IE=max;echo 'done';
echo "there are 817 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1 IS=min IE=max;echo 'done';
echo "there are 816 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2 IS=min IE=max;echo 'done';
echo "there are 815 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 814 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min IE=max;echo 'done';
echo "there are 813 more memories to test.";echo "tr 50
```

```
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 812 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 811 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 810 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 809 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 808 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 807 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 806 more memories to test.";echo "tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 805 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT IS=min IE=max ";tr 50
M=MMU_THDU_BST_PORT IS=min IE=max;echo 'done';
echo "there are 804 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 803 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 802 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 801 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 800 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 799 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 798 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 797 more memories to test.";echo "tr 50 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 796 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP IS=min IE=max ";tr 50
M=MMU_THDU_BST_QGROUP IS=min IE=max;echo 'done';
echo "there are 795 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 794 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 793 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 792 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 791 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 790 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 789 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 788 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 787 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE IS=min IE=max ";tr 50
M=MMU_THDU_BST_QUEUE IS=min IE=max;echo 'done';
echo "there are 786 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 785 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 784 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 783 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 782 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 781 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 780 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 779 more memories to test.";echo "tr 50 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 778 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT IS=min IE=max ";tr
50 M=MMU_THDU_CONFIG_PORT IS=min IE=max;echo 'done';
#echo "there are 777 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max ";tr
50 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max;echo 'done';
echo "there are 776 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 775 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 774 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 773 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 772 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max ";tr
50 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max;echo 'done';
echo "there are 771 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 770 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 769 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 768 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 767 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 766 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 765 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 764 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 763 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max
";tr 50 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max;echo 'done';
#echo "there are 762 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max
";tr 50 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max;echo 'done';
echo "there are 761 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 760 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 759 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 758 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 757 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max
";tr 50 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max;echo 'done';
echo "there are 756 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 755 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 754 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 753 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 752 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 751 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 750 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 749 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 748 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max ";tr
50 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max;echo 'done';
#echo "there are 747 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max
";tr 50 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max;echo 'done';
echo "there are 746 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 745 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 744 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 743 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 742 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max
";tr 50 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max;echo 'done';
echo "there are 741 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 740 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 739 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 738 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 737 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 736 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 735 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 734 more memories to test.";echo "tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 733 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT IS=min IE=max
";tr 50 M=MMU_THDU_COUNTER_PORT IS=min IE=max;echo 'done';
echo "there are 732 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 731 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 730 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 729 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 728 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 727 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 726 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 725 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 724 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP IS=min
IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP IS=min IE=max;echo 'done';
echo "there are 723 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 722 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 721 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2
```

```
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 720 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 719 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 718 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 717 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 716 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 715 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max
";tr 50 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max;echo 'done';
echo "there are 714 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 713 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 712 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 711 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 710 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 709 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 708 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 707 more memories to test.";echo "tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 706 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max
";tr 50 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max;echo 'done';
#echo "there are 705 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max
";tr 50 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max;echo 'done';
echo "there are 704 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 703 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 702 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 701 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 700 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max
";tr 50 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max;echo 'done';
echo "there are 699 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 698 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 697 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 696 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 695 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 694 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 693 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 692 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 691 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max ";tr
50 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max;echo 'done';
#echo "there are 690 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max
";tr 50 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max;echo 'done';
echo "there are 689 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 688 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 687 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 686 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 685 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max
";tr 50 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max;echo 'done';
echo "there are 684 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 683 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 682 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 681 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 680 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 679 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 678 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 677 more memories to test.";echo "tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 676 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max
";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max;echo 'done';
#echo "there are 675 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max
";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max;echo 'done';
echo "there are 674 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 673 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 672 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 671 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 670 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max
";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max;echo 'done';
echo "there are 669 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 668 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 667 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 666 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 665 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max
";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max;echo 'done';
echo "there are 664 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 663 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 662 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 661 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 660 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 659 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 658 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 657 more memories to test.";echo "tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 656 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT IS=min IE=max ";tr
50 M=MMU_THDU_RESUME_PORT IS=min IE=max;echo 'done';
#echo "there are 655 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT0 IS=min IE=max ";tr
50 M=MMU_THDU_RESUME_PORT0 IS=min IE=max;echo 'done';
echo "there are 654 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 653 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 652 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 651 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 650 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT1 IS=min IE=max ";tr
50 M=MMU_THDU_RESUME_PORT1 IS=min IE=max;echo 'done';
echo "there are 649 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 648 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 647 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 646 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 645 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT2 IS=min IE=max ";tr
50 M=MMU_THDU_RESUME_PORT2 IS=min IE=max;echo 'done';
echo "there are 644 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 643 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 642 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 641 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 640 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 639 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min IE=max;echo 'done';
echo "there are 638 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 637 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 636 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP IS=min IE=max
";tr 50 M=MMU_THDU_RESUME_QGROUP IS=min IE=max;echo 'done';
echo "there are 635 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 634 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 633 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 632 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 631 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 630 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 629 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 628 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 627 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE IS=min IE=max
";tr 50 M=MMU_THDU_RESUME_QUEUE IS=min IE=max;echo 'done';
echo "there are 626 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 625 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1
```

```
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 624 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 623 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 622 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 621 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 620 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 619 more memories to test.";echo "tr 50 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 618 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS IS=min IE=max ";tr 50
M=MMU_THDU_UCQ_STATS IS=min IE=max;echo 'done';
#echo "there are 617 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE IS=min IE=max;echo 'done';
#echo "there are 616 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 615 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 614 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 613 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 612 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 611 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 610 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 609 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 608 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 607 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 606 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 605 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 604 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 603 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 602 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 601 more memories to test.";echo "tr 50 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min
```

```
IE=max ";tr 50 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 600 more memories to test.";echo "tr 50 M=MMU_UCQDB_X IS=min IE=max ";tr 50
M=MMU_UCQDB_X IS=min IE=max;echo 'done';
echo "there are 599 more memories to test.";echo "tr 50 M=MMU_UCQDB_X_XPE0 IS=min IE=max ";tr 50
M=MMU_UCQDB_X_XPE0 IS=min IE=max;echo 'done';
echo "there are 598 more memories to test.";echo "tr 50 M=MMU_UCQDB_X_XPE1 IS=min IE=max ";tr 50
M=MMU_UCQDB_X_XPE1 IS=min IE=max;echo 'done';
echo "there are 597 more memories to test.";echo "tr 50 M=MMU_UCQDB_X_XPE2 IS=min IE=max ";tr 50
M=MMU_UCQDB_X_XPE2 IS=min IE=max;echo 'done';
echo "there are 596 more memories to test.";echo "tr 50 M=MMU_UCQDB_X_XPE3 IS=min IE=max ";tr 50
M=MMU_UCQDB_X_XPE3 IS=min IE=max;echo 'done';
#echo "there are 595 more memories to test.";echo "tr 50 M=MMU_UCQDB_Y IS=min IE=max ";tr 50
M=MMU_UCQDB_Y IS=min IE=max;echo 'done';
echo "there are 594 more memories to test.";echo "tr 50 M=MMU_UCQDB_Y_XPE0 IS=min IE=max ";tr 50
M=MMU_UCQDB_Y_XPE0 IS=min IE=max;echo 'done';
echo "there are 593 more memories to test.";echo "tr 50 M=MMU_UCQDB_Y_XPE1 IS=min IE=max ";tr 50
M=MMU_UCQDB_Y_XPE1 IS=min IE=max;echo 'done';
echo "there are 592 more memories to test.";echo "tr 50 M=MMU_UCQDB_Y_XPE2 IS=min IE=max ";tr 50
M=MMU_UCQDB_Y_XPE2 IS=min IE=max;echo 'done';
echo "there are 591 more memories to test.";echo "tr 50 M=MMU_UCQDB_Y_XPE3 IS=min IE=max ";tr 50
M=MMU_UCQDB_Y_XPE3 IS=min IE=max;echo 'done';
#echo "there are 590 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE IS=min IE=max ";tr 50
M=MMU_WRED_AVG_QSIZE IS=min IE=max;echo 'done';
echo "there are 589 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 588 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 587 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 586 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 585 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 584 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 583 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 582 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 581 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG IS=min IE=max ";tr 50
M=MMU_WRED_CONFIG IS=min IE=max;echo 'done';
echo "there are 580 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 579 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 578 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 577 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min
```

```
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 576 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 575 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 574 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 573 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min
IE=max ";tr 50 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 572 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=max;echo 'done';
echo "there are 571 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_A IS=min IE=max;echo 'done';
echo "there are 570 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_B IS=min IE=max;echo 'done';
echo "there are 569 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=max;echo 'done';
echo "there are 568 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_A IS=min IE=max;echo 'done';
echo "there are 567 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_B IS=min IE=max;echo 'done';
echo "there are 566 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=max;echo 'done';
echo "there are 565 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_A IS=min IE=max;echo 'done';
echo "there are 564 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_B IS=min IE=max;echo 'done';
echo "there are 563 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=max;echo 'done';
echo "there are 562 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_A IS=min IE=max;echo 'done';
echo "there are 561 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_B IS=min IE=max;echo 'done';
echo "there are 560 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=max;echo 'done';
echo "there are 559 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_A IS=min IE=max;echo 'done';
echo "there are 558 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_B IS=min IE=max;echo 'done';
echo "there are 557 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=max;echo 'done';
echo "there are 556 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_A IS=min IE=max;echo 'done';
echo "there are 555 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_B IS=min IE=max;echo 'done';
echo "there are 554 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min IE=max;echo 'done';
echo "there are 553 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6_A
```

```
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6_A IS=min IE=max;echo 'done';
echo "there are 552 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_6_B IS=min IE=max;echo 'done';
echo "there are 551 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min IE=max;echo 'done';
echo "there are 550 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7_A IS=min IE=max;echo 'done';
echo "there are 549 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_7_B IS=min IE=max;echo 'done';
echo "there are 548 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min
IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min IE=max;echo 'done';
echo "there are 547 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8_A
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8_A IS=min IE=max;echo 'done';
echo "there are 546 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8_B
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_8_B IS=min IE=max;echo 'done';
#echo "there are 545 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD IS=min
IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD IS=min IE=max;echo 'done';
#echo "there are 544 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_MARK
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_MARK IS=min IE=max;echo 'done';
echo "there are 543 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 542 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 541 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 540 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 539 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 538 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 537 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 536 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max;echo 'done';
echo "there are 535 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 534 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 533 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2
```

```
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 532 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 531 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 530 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 529 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 528 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 527 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min
IE=max ";tr 50 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min IE=max;echo 'done';
echo "there are 526 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 525 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 524 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 523 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 522 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 521 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 520 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 519 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 518 more memories to test.";echo "tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min
IE=max ";tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min IE=max;echo 'done';
echo "there are 517 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 516 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 515 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max;echo 'done';
```

```
echo "there are 514 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 513 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 512 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 511 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 510 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 509 more memories to test.";echo "tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min
IE=max ";tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min IE=max;echo 'done';
echo "there are 508 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 507 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 506 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 505 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 504 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 503 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 502 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 501 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 500 more memories to test.";echo "tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK
IS=min IE=max ";tr 50 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK IS=min IE=max;echo 'done';
echo "there are 499 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 498 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ";tr 50
```

```
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 497 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 496 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 495 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 494 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 493 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 492 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 491 more memories to test.";echo "tr 50 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT
IS=min IE=max ";tr 50 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT IS=min IE=max;echo 'done';
#echo "there are 490 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max;echo 'done';
echo "there are 489 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 488 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 487 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 486 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 485 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 484 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 483 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 482 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min IE=max;echo 'done';
```

```
echo "there are 481 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 480 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 479 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 478 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 477 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 476 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 475 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max;echo 'done';
echo "there are 474 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 473 more memories to test.";echo "tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ";tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min IE=max;echo 'done';
#echo "there are 472 more memories to test.";echo "tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min
IE=max ";tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min IE=max;echo 'done';
#echo "there are 471 more memories to test.";echo "tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min
IE=max ";tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min IE=max;echo 'done';
#echo "there are 470 more memories to test.";echo "tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min
IE=max ";tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min IE=max;echo 'done';
#echo "there are 469 more memories to test.";echo "tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min
IE=max ";tr 50 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min IE=max;echo 'done';
echo "there are 468 more memories to test.";echo "tr 50 M=MODPORT_MAP_M0 IS=min IE=max ";tr 50
M=MODPORT_MAP_M0 IS=min IE=max;echo 'done';
echo "there are 467 more memories to test.";echo "tr 50 M=MODPORT_MAP_M1 IS=min IE=max ";tr 50
M=MODPORT_MAP_M1 IS=min IE=max;echo 'done';
echo "there are 466 more memories to test.";echo "tr 50 M=MODPORT_MAP_M2 IS=min IE=max ";tr 50
M=MODPORT_MAP_M2 IS=min IE=max;echo 'done';
echo "there are 465 more memories to test.";echo "tr 50 M=MODPORT_MAP_M3 IS=min IE=max ";tr 50
M=MODPORT_MAP_M3 IS=min IE=max;echo 'done';
echo "there are 464 more memories to test.";echo "tr 50 M=MODPORT_MAP_MIRROR IS=min IE=max ";tr 50
M=MODPORT_MAP_MIRROR IS=min IE=max;echo 'done';
echo "there are 463 more memories to test.";echo "tr 50 M=MODPORT_MAP_SW IS=min IE=max ";tr 50
M=MODPORT_MAP_SW IS=min IE=max;echo 'done';
echo "there are 462 more memories to test.";echo "tr 50 M=MPLS_ENTRY IS=min IE=max ";tr 50
M=MPLS_ENTRY IS=min IE=max;echo 'done';
```

```
echo "there are 461 more memories to test.";echo "tr 50 M=MPLS_ENTRY_ECC IS=min IE=max ";tr 50
M=MPLS_ENTRY_ECC IS=min IE=max;echo 'done';
echo "there are 460 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max
";tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max;echo 'done';
echo "there are 459 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min
IE=max ";tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 458 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min
IE=max ";tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 457 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min
IE=max ";tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 456 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min
IE=max ";tr 50 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min IE=max;echo 'done';
echo "there are 455 more memories to test.";echo "tr 50 M=MY_STATION_TCAM IS=min IE=max ";tr 50
M=MY_STATION_TCAM IS=min IE=max;echo 'done';
echo "there are 454 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 453 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 452 more memories to test.";echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ";tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 451 more memories to test.";echo "tr 50 M=PHB2_COS_MAP IS=min IE=max ";tr 50
M=PHB2_COS_MAP IS=min IE=max;echo 'done';
#echo "there are 450 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR0 IS=min IE=max ";tr 50
M=PKT_SCH_CALENDAR0 IS=min IE=max;echo 'done';
#echo "there are 449 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 448 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 447 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 446 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 445 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR1 IS=min IE=max ";tr 50
M=PKT_SCH_CALENDAR1 IS=min IE=max;echo 'done';
#echo "there are 444 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max;echo 'done';
#echo "there are 443 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max;echo 'done';
#echo "there are 442 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 441 more memories to test.";echo "tr 50 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max ";tr
50 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 440 more memories to test.";echo "tr 50 M=PORT_BRIDGE_BMAP IS=min IE=max ";tr 50
M=PORT_BRIDGE_BMAP IS=min IE=max;echo 'done';
echo "there are 439 more memories to test.";echo "tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max
";tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max;echo 'done';
echo "there are 438 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE IS=min IE=max ";tr 50
M=PORT_CBL_TABLE IS=min IE=max;echo 'done';
```

```
echo "there are 437 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ";tr
50 M=PORT_CBL_TABLE_MODBASE IS=min IE=max;echo 'done';
echo "there are 436 more memories to test.";echo "tr 50 M=PORT_LAG_FAILOVER_SET IS=min IE=max ";tr 50
M=PORT_LAG_FAILOVER_SET IS=min IE=max;echo 'done';
echo "there are 435 more memories to test.";echo "tr 50 M=PORT_TAB IS=min IE=max ";tr 50 M=PORT_TAB
IS=min IE=max;echo 'done';
echo "there are 434 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max ";tr
50 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max;echo 'done';
echo "there are 433 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 432 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 431 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 430 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 429 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max ";tr
50 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max;echo 'done';
echo "there are 428 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 427 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 426 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 425 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 424 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_IVP IS=min IE=max ";tr 50
M=PTR_RESULTS_BUFFER_IVP IS=min IE=max;echo 'done';
echo "there are 423 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min IE=max;echo 'done';
echo "there are 422 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min IE=max;echo 'done';
echo "there are 421 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min IE=max;echo 'done';
echo "there are 420 more memories to test.";echo "tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min
IE=max ";tr 50 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 419 more memories to test.";echo "tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min
IE=max ";tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min IE=max;echo 'done';
echo "there are 418 more memories to test.";echo "tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 417 more memories to test.";echo "tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 416 more memories to test.";echo "tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 415 more memories to test.";echo "tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 414 more memories to test.";echo "tr 50 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max ";tr
50 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max;echo 'done';
```

```
echo "there are 413 more memories to test.";echo "tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 412 more memories to test.";echo "tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 411 more memories to test.";echo "tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 410 more memories to test.";echo "tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 409 more memories to test.";echo "tr 50 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max ";tr
50 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max;echo 'done';
echo "there are 408 more memories to test.";echo "tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 407 more memories to test.";echo "tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 406 more memories to test.";echo "tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 405 more memories to test.";echo "tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 404 more memories to test.";echo "tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min
IE=max ";tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min IE=max;echo 'done';
echo "there are 403 more memories to test.";echo "tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 402 more memories to test.";echo "tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 401 more memories to test.";echo "tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 400 more memories to test.";echo "tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 399 more memories to test.";echo "tr 50 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max ";tr
50 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max;echo 'done';
echo "there are 398 more memories to test.";echo "tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 397 more memories to test.";echo "tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 396 more memories to test.";echo "tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 395 more memories to test.";echo "tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 394 more memories to test.";echo "tr 50 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max ";tr
50 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max;echo 'done';
echo "there are 393 more memories to test.";echo "tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 392 more memories to test.";echo "tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 391 more memories to test.";echo "tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 390 more memories to test.";echo "tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min IE=max;echo 'done';
```

```
#echo "there are 389 more memories to test.";echo "tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min
IE=max ";tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min IE=max;echo 'done';
echo "there are 388 more memories to test.";echo "tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 387 more memories to test.";echo "tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 386 more memories to test.";echo "tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 385 more memories to test.";echo "tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 384 more memories to test.";echo "tr 50 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max ";tr
50 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max;echo 'done';
echo "there are 383 more memories to test.";echo "tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 382 more memories to test.";echo "tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 381 more memories to test.";echo "tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 380 more memories to test.";echo "tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min
IE=max ";tr 50 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 379 more memories to test.";echo "tr 50 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min
IE=max ";tr 50 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min IE=max;echo 'done';
#echo "there are 378 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0 IS=min IE=max ";tr
50 M=REPLICATION_FIFO_BANK0 IS=min IE=max;echo 'done';
echo "there are 377 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max;echo 'done';
echo "there are 376 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max;echo 'done';
echo "there are 375 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max;echo 'done';
echo "there are 374 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max;echo 'done';
#echo "there are 373 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1 IS=min IE=max ";tr
50 M=REPLICATION_FIFO_BANK1 IS=min IE=max;echo 'done';
echo "there are 372 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max;echo 'done';
echo "there are 371 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max;echo 'done';
echo "there are 370 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max;echo 'done';
echo "there are 369 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max
";tr 50 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max;echo 'done';
echo "there are 368 more memories to test.";echo "tr 50 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max
";tr 50 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max;echo 'done';
#echo "there are 367 more memories to test.";echo "tr 50 M=RQE_FREE_LIST IS=min IE=max ";tr 50
M=RQE_FREE_LIST IS=min IE=max;echo 'done';
echo "there are 366 more memories to test.";echo "tr 50 M=RQE_FREE_LIST_XPE0 IS=min IE=max ";tr 50
M=RQE_FREE_LIST_XPE0 IS=min IE=max;echo 'done';
```

```
echo "there are 365 more memories to test.";echo "tr 50 M=RQE_FREE_LIST_XPE1 IS=min IE=max ";tr 50
M=RQE_FREE_LIST_XPE1 IS=min IE=max;echo 'done';
echo "there are 364 more memories to test.";echo "tr 50 M=RQE_FREE_LIST_XPE2 IS=min IE=max ";tr 50
M=RQE_FREE_LIST_XPE2 IS=min IE=max;echo 'done';
echo "there are 363 more memories to test.";echo "tr 50 M=RQE_FREE_LIST_XPE3 IS=min IE=max ";tr 50
M=RQE_FREE_LIST_XPE3 IS=min IE=max;echo 'done';
#echo "there are 362 more memories to test.";echo "tr 50 M=RQE_LINK_LIST IS=min IE=max ";tr 50
M=RQE_LINK_LIST IS=min IE=max;echo 'done';
echo "there are 361 more memories to test.";echo "tr 50 M=RQE_LINK_LIST_XPE0 IS=min IE=max ";tr 50
M=RQE_LINK_LIST_XPE0 IS=min IE=max;echo 'done';
echo "there are 360 more memories to test.";echo "tr 50 M=RQE_LINK_LIST_XPE1 IS=min IE=max ";tr 50
M=RQE_LINK_LIST_XPE1 IS=min IE=max;echo 'done';
echo "there are 359 more memories to test.";echo "tr 50 M=RQE_LINK_LIST_XPE2 IS=min IE=max ";tr 50
M=RQE_LINK_LIST_XPE2 IS=min IE=max;echo 'done';
echo "there are 358 more memories to test.";echo "tr 50 M=RQE_LINK_LIST_XPE3 IS=min IE=max ";tr 50
M=RQE_LINK_LIST_XPE3 IS=min IE=max;echo 'done';
echo "there are 357 more memories to test.";echo "tr 50 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ";tr
50 M=RTAG7_FLOW_BASED_HASH IS=min IE=max;echo 'done';
echo "there are 356 more memories to test.";echo "tr 50 M=RTAG7_PORT_BASED_HASH IS=min IE=max ";tr 50
M=RTAG7_PORT_BASED_HASH IS=min IE=max;echo 'done';
echo "there are 355 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE IS=min IE=max ";tr 50
M=RX_PROT_GROUP_TABLE IS=min IE=max;echo 'done';
echo "there are 354 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ";tr 50
M=RX_PROT_GROUP_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 353 more memories to test.";echo "tr 50 M=SER_ACC_TYPE_MAP IS=min IE=max ";tr 50
M=SER_ACC_TYPE_MAP IS=min IE=max;echo 'done';
echo "there are 352 more memories to test.";echo "tr 50 M=SER_MEMORY IS=min IE=max ";tr 50
M=SER_MEMORY IS=min IE=max;echo 'done';
echo "there are 351 more memories to test.";echo "tr 50 M=SER_RESULT_0 IS=min IE=max ";tr 50
M=SER_RESULT_0 IS=min IE=max;echo 'done';
echo "there are 350 more memories to test.";echo "tr 50 M=SER_RESULT_1 IS=min IE=max ";tr 50
M=SER_RESULT_1 IS=min IE=max;echo 'done';
echo "there are 349 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_0 IS=min IE=max ";tr 50
M=SER_RESULT_DATA_0 IS=min IE=max;echo 'done';
echo "there are 348 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_1 IS=min IE=max ";tr 50
M=SER_RESULT_DATA_1 IS=min IE=max;echo 'done';
echo "there are 347 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_0 IS=min IE=max ";tr 50
M=SER_RESULT_EXPECTED_0 IS=min IE=max;echo 'done';
echo "there are 346 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_1 IS=min IE=max ";tr 50
M=SER_RESULT_EXPECTED_1 IS=min IE=max;echo 'done';
echo "there are 345 more memories to test.";echo "tr 50 M=SFLOW_ING_DATA_SOURCE IS=min IE=max ";tr
50 M=SFLOW_ING_DATA_SOURCE IS=min IE=max;echo 'done';
echo "there are 344 more memories to test.";echo "tr 50 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min
IE=max ";tr 50 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min IE=max;echo 'done';
echo "there are 343 more memories to test.";echo "tr 50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ";tr
50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max;echo 'done';
echo "there are 342 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ";tr
50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max;echo 'done';
```

```
echo "there are 341 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
";tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max;echo 'done';
echo "there are 340 more memories to test.";echo "tr 50 M=SOURCE_VP IS=min IE=max ";tr 50 M=SOURCE_VP
IS=min IE=max;echo 'done';
echo "there are 339 more memories to test.";echo "tr 50 M=SOURCE_VP_2 IS=min IE=max ";tr 50
M=SOURCE_VP_2 IS=min IE=max;echo 'done';
echo "there are 338 more memories to test.";echo "tr 50 M=SRC_COMPRESSION IS=min IE=max ";tr 50
M=SRC_COMPRESSION IS=min IE=max;echo 'done';
echo "there are 337 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max
";tr 50 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 336 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 335 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 334 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 333 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 332 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_PIPE0 IS=min IE=max ";tr 50
M=SRC_COMPRESSION_PIPE0 IS=min IE=max;echo 'done';
echo "there are 331 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_PIPE1 IS=min IE=max ";tr 50
M=SRC_COMPRESSION_PIPE1 IS=min IE=max;echo 'done';
echo "there are 330 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_PIPE2 IS=min IE=max ";tr 50
M=SRC_COMPRESSION_PIPE2 IS=min IE=max;echo 'done';
echo "there are 329 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_PIPE3 IS=min IE=max ";tr 50
M=SRC_COMPRESSION_PIPE3 IS=min IE=max;echo 'done';
echo "there are 328 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max
";tr 50 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max;echo 'done';
echo "there are 327 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max;echo 'done';
echo "there are 326 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max;echo 'done';
echo "there are 325 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max;echo 'done';
echo "there are 324 more memories to test.";echo "tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min
IE=max ";tr 50 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max;echo 'done';
echo "there are 323 more memories to test.";echo "tr 50 M=SRC_MODID_EGRESS IS=min IE=max ";tr 50
M=SRC_MODID_EGRESS IS=min IE=max;echo 'done';
echo "there are 322 more memories to test.";echo "tr 50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ";tr
50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max;echo 'done';
echo "there are 321 more memories to test.";echo "tr 50 M=STATS_INTF_QUEUE_LIST IS=min IE=max ";tr 50
M=STATS_INTF_QUEUE_LIST IS=min IE=max;echo 'done';
echo "there are 320 more memories to test.";echo "tr 50 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max ";tr
50 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max;echo 'done';
echo "there are 319 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE IS=min IE=max ";tr 50
M=SYSTEM_CONFIG_TABLE IS=min IE=max;echo 'done';
echo "there are 318 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ";tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max;echo 'done';
```

```
echo "there are 317 more memories to test.";echo "tr 50 M=SYS_PORTMAP IS=min IE=max ";tr 50
M=SYS_PORTMAP IS=min IE=max;echo 'done';
#echo "there are 316 more memories to test.";echo "tr 50 M=TCB_BUFFER_METADATA IS=min IE=max ";tr 50
M=TCB_BUFFER_METADATA IS=min IE=max;echo 'done';
echo "there are 315 more memories to test.";echo "tr 50 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max
";tr 50 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max;echo 'done';
echo "there are 314 more memories to test.";echo "tr 50 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max
";tr 50 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max;echo 'done';
echo "there are 313 more memories to test.";echo "tr 50 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max
";tr 50 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max;echo 'done';
echo "there are 312 more memories to test.";echo "tr 50 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max
";tr 50 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max;echo 'done';
#echo "there are 311 more memories to test.";echo "tr 50 M=TCB_EVENT_BUFFER IS=min IE=max ";tr 50
M=TCB_EVENT_BUFFER IS=min IE=max;echo 'done';
echo "there are 310 more memories to test.";echo "tr 50 M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max ";tr 50
M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max;echo 'done';
echo "there are 309 more memories to test.";echo "tr 50 M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max ";tr 50
M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max;echo 'done';
echo "there are 308 more memories to test.";echo "tr 50 M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max ";tr 50
M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max;echo 'done';
echo "there are 307 more memories to test.";echo "tr 50 M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max ";tr 50
M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max;echo 'done';
#echo "there are 306 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER IS=min IE=max ";tr 50
M=TCB_SCRATCH_BUFFER IS=min IE=max;echo 'done';
echo "there are 305 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 304 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 303 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 302 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 301 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 300 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 299 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 298 more memories to test.";echo "tr 50 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 297 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP IS=min IE=max;echo 'done';
#echo "there are 296 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min IE=max;echo 'done';
echo "there are 295 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0 IS=min IE=max;echo 'done';
echo "there are 294 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1 IS=min IE=max;echo 'done';
```

```
echo "there are 293 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2 IS=min IE=max;echo 'done';
echo "there are 292 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3 IS=min IE=max;echo 'done';
#echo "there are 291 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min IE=max;echo 'done';
echo "there are 290 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0 IS=min IE=max;echo 'done';
echo "there are 289 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1 IS=min IE=max;echo 'done';
echo "there are 288 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2 IS=min IE=max;echo 'done';
echo "there are 287 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3
IS=min IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3 IS=min IE=max;echo 'done';
echo "there are 286 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min IE=max;echo 'done';
echo "there are 285 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min IE=max;echo 'done';
echo "there are 284 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min IE=max;echo 'done';
echo "there are 283 more memories to test.";echo "tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min
IE=max ";tr 50 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min IE=max;echo 'done';
echo "there are 282 more memories to test.";echo "tr 50 M=TCP_FN IS=min IE=max ";tr 50 M=TCP_FN IS=min
IE=max;echo 'done';
echo "there are 281 more memories to test.";echo "tr 50 M=TCP_FN_PIPE0 IS=min IE=max ";tr 50
M=TCP_FN_PIPE0 IS=min IE=max;echo 'done';
echo "there are 280 more memories to test.";echo "tr 50 M=TCP_FN_PIPE1 IS=min IE=max ";tr 50
M=TCP_FN_PIPE1 IS=min IE=max;echo 'done';
echo "there are 279 more memories to test.";echo "tr 50 M=TCP_FN_PIPE2 IS=min IE=max ";tr 50
M=TCP_FN_PIPE2 IS=min IE=max;echo 'done';
echo "there are 278 more memories to test.";echo "tr 50 M=TCP_FN_PIPE3 IS=min IE=max ";tr 50
M=TCP_FN_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 277 more memories to test.";echo "tr 50 M=TDM_CALENDAR0 IS=min IE=max ";tr 50
M=TDM_CALENDAR0 IS=min IE=max;echo 'done';
echo "there are 276 more memories to test.";echo "tr 50 M=TDM_CALENDAR0_PIPE0 IS=min IE=max ";tr 50
M=TDM_CALENDAR0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 275 more memories to test.";echo "tr 50 M=TDM_CALENDAR0_PIPE1 IS=min IE=max ";tr 50
M=TDM_CALENDAR0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 274 more memories to test.";echo "tr 50 M=TDM_CALENDAR0_PIPE2 IS=min IE=max ";tr 50
M=TDM_CALENDAR0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 273 more memories to test.";echo "tr 50 M=TDM_CALENDAR0_PIPE3 IS=min IE=max ";tr 50
M=TDM_CALENDAR0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 272 more memories to test.";echo "tr 50 M=TDM_CALENDAR1 IS=min IE=max ";tr 50
M=TDM_CALENDAR1 IS=min IE=max;echo 'done';
echo "there are 271 more memories to test.";echo "tr 50 M=TDM_CALENDAR1_PIPE0 IS=min IE=max ";tr 50
M=TDM_CALENDAR1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 270 more memories to test.";echo "tr 50 M=TDM_CALENDAR1_PIPE1 IS=min IE=max ";tr 50
M=TDM_CALENDAR1_PIPE1 IS=min IE=max;echo 'done';
```

```
echo "there are 269 more memories to test.";echo "tr 50 M=TDM_CALENDAR1_PIPE2 IS=min IE=max ";tr 50
M=TDM_CALENDAR1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 268 more memories to test.";echo "tr 50 M=TDM_CALENDAR1_PIPE3 IS=min IE=max ";tr 50
M=TDM_CALENDAR1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 267 more memories to test.";echo "tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min
IE=max ";tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min IE=max;echo 'done';
echo "there are 266 more memories to test.";echo "tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0
IS=min IE=max ";tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0 IS=min IE=max;echo 'done';
echo "there are 265 more memories to test.";echo "tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1
IS=min IE=max ";tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1 IS=min IE=max;echo 'done';
echo "there are 264 more memories to test.";echo "tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2
IS=min IE=max ";tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2 IS=min IE=max;echo 'done';
echo "there are 263 more memories to test.";echo "tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3
IS=min IE=max ";tr 50 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3 IS=min IE=max;echo 'done';
#echo "there are 262 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST IS=min IE=max ";tr 50
M=THDI_PORT_PG_BST IS=min IE=max;echo 'done';
echo "there are 261 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 260 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 259 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 258 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 257 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 256 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 255 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 254 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 253 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max;echo 'done';
echo "there are 252 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 251 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 250 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 249 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 248 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 247 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 246 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min IE=max;echo 'done';
```

```
echo "there are 245 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 244 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max;echo 'done';
echo "there are 243 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 242 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 241 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 240 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 239 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 238 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 237 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 236 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 235 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max;echo 'done';
echo "there are 234 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 233 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 232 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 231 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 230 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 229 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 228 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 227 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 226 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max;echo 'done';
echo "there are 225 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 224 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 223 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 222 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min IE=max;echo 'done';
```

```
echo "there are 221 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 220 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 219 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 218 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 217 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG IS=min IE=max ";tr 50
M=THDI_PORT_PG_CONFIG IS=min IE=max;echo 'done';
echo "there are 216 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 215 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 214 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 213 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max ";tr
50 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 212 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST IS=min IE=max ";tr 50
M=THDI_PORT_SP_BST IS=min IE=max;echo 'done';
echo "there are 211 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 210 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 209 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 208 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 207 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 206 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 205 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 204 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 203 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT IS=min IE=max ";tr 50
M=THDI_PORT_SP_CNTRS_RT IS=min IE=max;echo 'done';
echo "there are 202 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 201 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 200 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 199 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 198 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min IE=max;echo 'done';
```

```
echo "there are 197 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 196 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 195 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 194 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH IS=min IE=max ";tr 50
M=THDI_PORT_SP_CNTRS_SH IS=min IE=max;echo 'done';
echo "there are 193 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 192 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min IE=max;echo 'done';
echo "there are 191 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 190 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min IE=max;echo 'done';
echo "there are 189 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 188 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 187 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min IE=max;echo 'done';
echo "there are 186 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min
IE=max ";tr 50 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min IE=max;echo 'done';
#echo "there are 185 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG IS=min IE=max;echo 'done';
#echo "there are 184 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0 IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG0 IS=min IE=max;echo 'done';
echo "there are 183 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max;echo 'done';
echo "there are 182 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max;echo 'done';
echo "there are 181 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max;echo 'done';
echo "there are 180 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 179 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1 IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG1 IS=min IE=max;echo 'done';
echo "there are 178 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max;echo 'done';
echo "there are 177 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max;echo 'done';
echo "there are 176 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max;echo 'done';
echo "there are 175 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max;echo 'done';
#echo "there are 174 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2 IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG2 IS=min IE=max;echo 'done';
```

```
echo "there are 173 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max;echo 'done';
echo "there are 172 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max;echo 'done';
echo "there are 171 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max;echo 'done';
echo "there are 170 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max
";tr 50 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max;echo 'done';
echo "there are 169 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max ";tr
50 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max;echo 'done';
echo "there are 168 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max ";tr
50 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max;echo 'done';
echo "there are 167 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max ";tr
50 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max;echo 'done';
echo "there are 166 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max ";tr
50 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max;echo 'done';
echo "there are 165 more memories to test.";echo "tr 50 M=TOS_FN IS=min IE=max ";tr 50 M=TOS_FN IS=min
IE=max;echo 'done';
echo "there are 164 more memories to test.";echo "tr 50 M=TOS_FN_PIPE0 IS=min IE=max ";tr 50
M=TOS_FN_PIPE0 IS=min IE=max;echo 'done';
echo "there are 163 more memories to test.";echo "tr 50 M=TOS_FN_PIPE1 IS=min IE=max ";tr 50
M=TOS_FN_PIPE1 IS=min IE=max;echo 'done';
echo "there are 162 more memories to test.";echo "tr 50 M=TOS_FN_PIPE2 IS=min IE=max ";tr 50
M=TOS_FN_PIPE2 IS=min IE=max;echo 'done';
echo "there are 161 more memories to test.";echo "tr 50 M=TOS_FN_PIPE3 IS=min IE=max ";tr 50
M=TOS_FN_PIPE3 IS=min IE=max;echo 'done';
echo "there are 160 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS IS=min IE=max ";tr 50
M=TRILL_DROP_STATS IS=min IE=max;echo 'done';
echo "there are 159 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_PIPE0 IS=min IE=max ";tr 50
M=TRILL_DROP_STATS_PIPE0 IS=min IE=max;echo 'done';
echo "there are 158 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_PIPE1 IS=min IE=max ";tr 50
M=TRILL_DROP_STATS_PIPE1 IS=min IE=max;echo 'done';
echo "there are 157 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_PIPE2 IS=min IE=max ";tr 50
M=TRILL_DROP_STATS_PIPE2 IS=min IE=max;echo 'done';
echo "there are 156 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_PIPE3 IS=min IE=max ";tr 50
M=TRILL_DROP_STATS_PIPE3 IS=min IE=max;echo 'done';
echo "there are 155 more memories to test.";echo "tr 50 M=TRUNK_BITMAP IS=min IE=max ";tr 50
M=TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 154 more memories to test.";echo "tr 50 M=TRUNK_CBL_TABLE IS=min IE=max ";tr 50
M=TRUNK_CBL_TABLE IS=min IE=max;echo 'done';
echo "there are 153 more memories to test.";echo "tr 50 M=TRUNK_GROUP IS=min IE=max ";tr 50
M=TRUNK_GROUP IS=min IE=max;echo 'done';
echo "there are 152 more memories to test.";echo "tr 50 M=TRUNK_RR_CNT IS=min IE=max ";tr 50
M=TRUNK_RR_CNT IS=min IE=max;echo 'done';
echo "there are 151 more memories to test.";echo "tr 50 M=TRUNK_RR_CNT_PIPE0 IS=min IE=max ";tr 50
M=TRUNK_RR_CNT_PIPE0 IS=min IE=max;echo 'done';
echo "there are 150 more memories to test.";echo "tr 50 M=TRUNK_RR_CNT_PIPE1 IS=min IE=max ";tr 50
M=TRUNK_RR_CNT_PIPE1 IS=min IE=max;echo 'done';
```

```
echo "there are 149 more memories to test.";echo "tr 50 M=TRUNK_RR_CNT_PIPE2 IS=min IE=max ";tr 50
M=TRUNK_RR_CNT_PIPE2 IS=min IE=max;echo 'done';
echo "there are 148 more memories to test.";echo "tr 50 M=TRUNK_RR_CNT_PIPE3 IS=min IE=max ";tr 50
M=TRUNK_RR_CNT_PIPE3 IS=min IE=max;echo 'done';
echo "there are 147 more memories to test.";echo "tr 50 M=TRUNK_MEMBER IS=min IE=max ";tr 50
M=TRUNK_MEMBER IS=min IE=max;echo 'done';
echo "there are 146 more memories to test.";echo "tr 50 M=TTL_FN IS=min IE=max ";tr 50 M=TTL_FN IS=min
IE=max;echo 'done';
echo "there are 145 more memories to test.";echo "tr 50 M=TTL_FN_PIPE0 IS=min IE=max ";tr 50
M=TTL_FN_PIPE0 IS=min IE=max;echo 'done';
echo "there are 144 more memories to test.";echo "tr 50 M=TTL_FN_PIPE1 IS=min IE=max ";tr 50
M=TTL_FN_PIPE1 IS=min IE=max;echo 'done';
echo "there are 143 more memories to test.";echo "tr 50 M=TTL_FN_PIPE2 IS=min IE=max ";tr 50
M=TTL_FN_PIPE2 IS=min IE=max;echo 'done';
echo "there are 142 more memories to test.";echo "tr 50 M=TTL_FN_PIPE3 IS=min IE=max ";tr 50
M=TTL_FN_PIPE3 IS=min IE=max;echo 'done';
echo "there are 141 more memories to test.";echo "tr 50 M=TX_INITIAL_PROT_GROUP_TABLE IS=min
IE=max ";tr 50 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=max;echo 'done';
echo "there are 140 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM
IS=min IE=max ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max;echo 'done';
echo "there are 139 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM
IS=min IE=max ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max;echo 'done';
echo "there are 138 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1
IS=min IE=max ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1 IS=min IE=max;echo 'done';
echo "there are 137 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET IS=min IE=max ";tr 50
M=FP_UDF_OFFSET IS=min IE=max;echo 'done';
echo "there are 136 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET_PIPE0 IS=min IE=max ";tr 50
M=FP_UDF_OFFSET_PIPE0 IS=min IE=max;echo 'done';
echo "there are 135 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET_PIPE1 IS=min IE=max ";tr 50
M=FP_UDF_OFFSET_PIPE1 IS=min IE=max;echo 'done';
echo "there are 134 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET_PIPE2 IS=min IE=max ";tr 50
M=FP_UDF_OFFSET_PIPE2 IS=min IE=max;echo 'done';
echo "there are 133 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET_PIPE3 IS=min IE=max ";tr 50
M=FP_UDF_OFFSET_PIPE3 IS=min IE=max;echo 'done';
echo "there are 132 more memories to test.";echo "tr 50 M=FP_UDF_TCAM IS=min IE=max ";tr 50
M=FP_UDF_TCAM IS=min IE=max;echo 'done';
echo "there are 131 more memories to test.";echo "tr 50 M=FP_UDF_TCAM_PIPE0 IS=min IE=max ";tr 50
M=FP_UDF_TCAM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 130 more memories to test.";echo "tr 50 M=FP_UDF_TCAM_PIPE1 IS=min IE=max ";tr 50
M=FP_UDF_TCAM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 129 more memories to test.";echo "tr 50 M=FP_UDF_TCAM_PIPE2 IS=min IE=max ";tr 50
M=FP_UDF_TCAM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 128 more memories to test.";echo "tr 50 M=FP_UDF_TCAM_PIPE3 IS=min IE=max ";tr 50
M=FP_UDF_TCAM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 127 more memories to test.";echo "tr 50 M=UNKNOWN_HGI_BITMAP IS=min IE=max ";tr 50
M=UNKNOWN_HGI_BITMAP IS=min IE=max;echo 'done';
echo "there are 126 more memories to test.";echo "tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min
IE=max ";tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max;echo 'done';
```

```
echo "there are 125 more memories to test.";echo "tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min
IE=max ";tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 124 more memories to test.";echo "tr 50 M=VFI IS=min IE=max ";tr 50 M=VFI IS=min
IE=max;echo 'done';
echo "there are 123 more memories to test.";echo "tr 50 M=VFI_1 IS=min IE=max ";tr 50 M=VFI_1 IS=min
IE=max;echo 'done';
echo "there are 122 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max;echo 'done';
echo "there are 121 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max;echo 'done';
echo "there are 120 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 119 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max;echo 'done';
echo "there are 118 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max;echo 'done';
echo "there are 117 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max;echo 'done';
echo "there are 116 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max;echo 'done';
echo "there are 115 more memories to test.";echo "tr 50 M=VFP_TCAM IS=min IE=max ";tr 50 M=VFP_TCAM
IS=min IE=max;echo 'done';
echo "there are 114 more memories to test.";echo "tr 50 M=VFP_TCAM_PIPE0 IS=min IE=max ";tr 50
M=VFP_TCAM_PIPE0 IS=min IE=max;echo 'done';
echo "there are 113 more memories to test.";echo "tr 50 M=VFP_TCAM_PIPE1 IS=min IE=max ";tr 50
M=VFP_TCAM_PIPE1 IS=min IE=max;echo 'done';
echo "there are 112 more memories to test.";echo "tr 50 M=VFP_TCAM_PIPE2 IS=min IE=max ";tr 50
M=VFP_TCAM_PIPE2 IS=min IE=max;echo 'done';
echo "there are 111 more memories to test.";echo "tr 50 M=VFP_TCAM_PIPE3 IS=min IE=max ";tr 50
M=VFP_TCAM_PIPE3 IS=min IE=max;echo 'done';
echo "there are 110 more memories to test.";echo "tr 50 M=VLAN_TAB IS=min IE=max ";tr 50 M=VLAN_TAB
IS=min IE=max;echo 'done';
echo "there are 109 more memories to test.";echo "tr 50 M=VLAN_2_TAB IS=min IE=max ";tr 50
M=VLAN_2_TAB IS=min IE=max;echo 'done';
echo "there are 108 more memories to test.";echo "tr 50 M=VLAN_MAC IS=min IE=max ";tr 50 M=VLAN_MAC
IS=min IE=max;echo 'done';
echo "there are 107 more memories to test.";echo "tr 50 M=VLAN_MPLS IS=min IE=max ";tr 50
M=VLAN_MPLS IS=min IE=max;echo 'done';
echo "there are 106 more memories to test.";echo "tr 50 M=VLAN_PROFILE_TAB IS=min IE=max ";tr 50
M=VLAN_PROFILE_TAB IS=min IE=max;echo 'done';
echo "there are 105 more memories to test.";echo "tr 50 M=VLAN_PROFILE_2 IS=min IE=max ";tr 50
M=VLAN_PROFILE_2 IS=min IE=max;echo 'done';
echo "there are 104 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL IS=min IE=max ";tr 50
M=VLAN_PROTOCOL IS=min IE=max;echo 'done';
echo "there are 103 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=max ";tr 50
M=VLAN_PROTOCOL_DATA IS=min IE=max;echo 'done';
echo "there are 102 more memories to test.";echo "tr 50 M=STG_TAB IS=min IE=max ";tr 50 M=STG_TAB
IS=min IE=max;echo 'done';
```

```
echo "there are 101 more memories to test.";echo "tr 50 M=VLAN_SUBNET IS=min IE=max ";tr 50
M=VLAN_SUBNET IS=min IE=max;echo 'done';
echo "there are 100 more memories to test.";echo "tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ";tr
50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 99 more memories to test.";echo "tr 50 M=VLAN_SUBNET_ONLY IS=min IE=max ";tr 50
M=VLAN_SUBNET_ONLY IS=min IE=max;echo 'done';
echo "there are 98 more memories to test.";echo "tr 50 M=VLAN_XLATE IS=min IE=max ";tr 50
M=VLAN_XLATE IS=min IE=max;echo 'done';
echo "there are 97 more memories to test.";echo "tr 50 M=VLAN_XLATE_ECC IS=min IE=max ";tr 50
M=VLAN_XLATE_ECC IS=min IE=max;echo 'done';
echo "there are 96 more memories to test.";echo "tr 50 M=VLAN_XLATE_LP IS=min IE=max ";tr 50
M=VLAN_XLATE_LP IS=min IE=max;echo 'done';
echo "there are 95 more memories to test.";echo "tr 50 M=VRF IS=min IE=max ";tr 50 M=VRF IS=min
IE=max;echo 'done';
#echo "there are 94 more memories to test.";echo "tr 50 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ";tr
50 M=XLPORT_WC_UCMEM_DATA IS=min IE=max;echo 'done';
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 93  more memories to test.';echo 'tr 50  M=EDB_1DBG_B IS=min IE=min';tr 50
M=EDB_1DBG_B IS=min IE=min; echo 'done';
#echo 'there are 92  more memories to test.';echo 'tr 50  M=LINK_STATUS IS=min IE=min';tr 50
M=LINK_STATUS IS=min IE=min; echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 91 more memories to test.';echo 'tr 50 M=DLB_ECMP_PORT_STATE IS=min IE=min';tr 50
M=DLB_ECMP_PORT_STATE IS=min IE=min;echo 'done';
#echo 'there are 90 more memories to test.';echo 'tr 50 M=DLB_HGT_LAG_PORT_STATE IS=min IE=min';tr 50
M=DLB_HGT_LAG_PORT_STATE IS=min IE=min;echo 'done';
#echo 'there are 89 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES IS=min IE=min';tr 50
M=EGR_MAX_USED_ENTRIES IS=min IE=min;echo 'done';
#echo 'there are 88 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS IS=min IE=min';tr 50
M=EGR_MMU_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 87 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS IS=min IE=min';tr 50
M=EGR_PORT_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 86 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM
IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM IS=min IE=min;echo 'done';
#echo 'there are 85 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0
IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 84 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1
IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 83 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2
IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 82 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3
IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3 IS=min IE=min;echo 'done';
#---------------------------- VENDOR memories-----------------------------------------------------------------
#echo 'there are 81 more memories to test.';echo 'tr 50 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 80 more memories to test.';echo 'tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
```

```
#echo 'there are 79 more memories to test.';echo 'tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 78 more memories to test.';echo 'tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 77 more memories to test.';echo 'tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 76 more memories to test.';echo 'tr 50 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 75 more memories to test.';echo 'tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 74 more memories to test.';echo 'tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 73 more memories to test.';echo 'tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 72 more memories to test.';echo 'tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 71 more memories to test.';echo 'tr 50 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 70 more memories to test.';echo 'tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 69 more memories to test.';echo 'tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 68 more memories to test.';echo 'tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 67 more memories to test.';echo 'tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 66 more memories to test.';echo 'tr 50 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 65 more memories to test.';echo 'tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 64 more memories to test.';echo 'tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 63 more memories to test.';echo 'tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
```

```
#echo 'there are 62 more memories to test.';echo 'tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 61 more memories to test.';echo 'tr 50 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 60 more memories to test.';echo 'tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 59 more memories to test.';echo 'tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 58 more memories to test.';echo 'tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 57 more memories to test.';echo 'tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 56 more memories to test.';echo 'tr 50 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 55 more memories to test.';echo 'tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 54 more memories to test.';echo 'tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 53 more memories to test.';echo 'tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 52 more memories to test.';echo 'tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 51 more memories to test.';echo 'tr 50 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 50 more memories to test.';echo 'tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 49 more memories to test.';echo 'tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 48 more memories to test.';echo 'tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 47 more memories to test.';echo 'tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 46 more memories to test.';echo 'tr 50 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 45 more memories to test.';echo 'tr 50
```

```
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 44 more memories to test.';echo 'tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 50 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 39 more memories to test.';echo 'tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 50 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 50 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 28 more memories to test.';echo 'tr 50
```

```
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 50 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 50 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 50 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=min';tr 50 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min';tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min';tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min';tr 50
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
```

```
IS=min IE=min';tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 50
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min';tr 50
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=min';tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=min';tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=min';tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min
IE=min';tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min IE=min;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0
IS=min IE=min';tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=min;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=min';tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=min;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=min';tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=min;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=min';tr 50 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=min;echo 'done';
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr50_bcm56970_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_cmds.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qe2000_cmds.c
* Purpose:    QE-2000-specific diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/qe2000_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allocator.h
* Purpose:    Internal routines to the BCM library for allocating
```

```
*            gu2 resources.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_allocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Kernel Networking Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/knet.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_acl.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_acl.c
*
* MODULE PREFIX:  DuneDriver/ppc/src/
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_acl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: disasm.c,v 1.9 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: mini disassembler for CLI interface of debugger
*          Very crude, error prone, be extra careful if modifying!
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/asm3/disasm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: telecom.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    telecom.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_telecom_g8265_init
*     bcm_common_ptp_telecom_g8265_shutdown
*     bcm_common_ptp_telecom_g8265_network_option_get
*     bcm_common_ptp_telecom_g8265_network_option_set
*     bcm_common_ptp_telecom_g8265_quality_level_set
*     bcm_common_ptp_telecom_g8265_receipt_timeout_get
*     bcm_common_ptp_telecom_g8265_receipt_timeout_set
*     bcm_common_ptp_telecom_g8265_pktstats_thresholds_get
*     bcm_common_ptp_telecom_g8265_pktstats_thresholds_set
*     bcm_common_ptp_telecom_g8265_packet_master_list
*     bcm_common_ptp_telecom_g8265_packet_master_best_get
*     bcm_common_ptp_telecom_g8265_packet_master_get
*     bcm_common_ptp_telecom_g8265_packet_master_add
*     bcm_common_ptp_telecom_g8265_packet_master_remove
*     bcm_common_ptp_telecom_g8265_packet_master_lockout_set
*     bcm_common_ptp_telecom_g8265_packet_master_non_reversion_set
*     bcm_common_ptp_telecom_g8265_packet_master_wait_duration_set
*     bcm_common_ptp_telecom_g8265_packet_master_priority_override
*     bcm_common_ptp_telecom_g8265_packet_master_priority_set
*
*     _bcm_ptp_telecom_g8265_map_clockClass_QL
*     _bcm_ptp_telecom_g8265_verbose_level_set
*     _bcm_ptp_telecom_g8265_profile_enabled_set
*     _bcm_ptp_telecom_g8265_controller
*     _bcm_ptp_telecom_g8265_AMT_set
*     _bcm_ptp_telecom_g8265_master_selector
```

```
*     _bcm_ptp_telecom_g8265_PTSF_set
*     _bcm_ptp_telecom_g8265_packet_master_PTSF_set
*     _bcm_ptp_telecom_g8265_degrade_ql_set
*     _bcm_ptp_telecom_g8265_packet_master_degrade_ql_set
*     _bcm_ptp_telecom_g8265_wait_to_restore_set
*     _bcm_ptp_telecom_g8265_packet_master_wait_to_restore_set
*     _bcm_ptp_telecom_g8265_packet_master_fmds_processor
*     _bcm_ptp_telecom_g8265_packet_master_priority_calculator
*     _bcm_ptp_telecom_g8265_packet_master_manager
*     _bcm_ptp_telecom_g8265_packet_master_lookup
*     _bcm_ptp_telecom_g8265_packet_master_make
*     _bcm_ptp_telecom_g8265_packet_master_printout
*     _bcm_ptp_telecom_g8265_event_description
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/telecom.c
No license file was found, but licenses were detected in source scan.

```
/*
* Low-Level PCI and SI support for BCM47xx
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndpci.c,v 1.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndpci.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wlan.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/wlan.c
* Purpose:    BCMX Wireless LAN APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.243 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for trunking (a.k.a. Port Aggregation)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trunk.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_port.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_port.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Firebolt VLAN_MAC Table Manipulation API routines.
* soc_fb_vlan_mac_entry_hash - Compute hash for VLAN_MAC table entry
* soc_fb_vlanmac_entry_ins - Insert an entry into VLAN_MAC table
* soc_fb_vlanmac_entry_del - Delete an entry from VLAN_MAC table
* soc_fb_vlanmac_entry_lkup - Lookup an entry in VLAN_MAC table
```

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/vlan.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

BCM5675 Module ID Remapping

Nithya Miyar
Curt McDowell
Broadcom Corp. 09-08-03
Last Updated: 03-28-04

---

1) Introduction

This document describes the software support and methodology provided by the SDK programming libraries to handle Module Identifier mapping in the XGS environment.

The use of Module Identifier mapping is generally required in any system that uses BCM5675s and module IDs greater than 31. For a complete description of the feature, please refer to the BCM5675 Programmers Reference Guide.

2) Terminology

The following terms are prerequisite to understanding the programming guidelines and API calls.

2.1) Switch Device

XGS switches BCM5650/BCM5655/BCM5665, BCM5673/BCM5674, BCM5690/BCM5691/BCM5692/BCM5693, BCM5695/BCM5696/BCM5697/BCM5698.

2.2) Fabric Device

XGS fabric devices BCM5670/BCM5671, BCM5675/BCM5676.

2.3) Legacy Fabric Device

Module identifier mapping incapable fabric device like BCM5670.

2.4) Legacy Domain

An island of legacy fabric devices and switch devices bridged to one another only by connection(s) to BCM5675 port(s). For example, in the case of a line card with BCM5670 + 2 BCM5690 connecting to a fabric module with BCM5675, BCM5670 + 2 BCM5690 belong to a single legacy domain.

2.5) Local Module Identifier (LMODID, LMODID_MAX)

This is the module identifier programmed in the switch device in CONFIG/ICONFIG register. This is local to the switch device.

Each switch chip within a legacy domain must be assigned a unique LMODID. For example, a line card with BCM5670+4XBCM5690 should use LMODIDs 0..3.

LMODID_MAX is the maximum LMODID assigned in any legacy domain throughout the system.

LMODID equals 0 for devices directly connected to BCM5675, which is often the case. For each BCM5665, two LMODIDs are required (0 and 1).

LMODID is the module identifier recorded in various switching tables like L2, L3, TRUNK, etc. for referring to switch ports within switch's own legacy domain, as opposed to on the other side of a BCM5675 link.

This is also referred to as 32/64-space module identifier.

2.6) Local Module Port (LPORT)

This is the zero-based port number used in switching tables in the devices part of switch's own legacy domain. The same appears mapped to (SMODID, SPORT) in switching tables on other switch devices not part of the switch's own legacy domain in the system; see SMODID and SPORT defined below.

This is also referred to as 32/64-space port number.

2.7) Fabric Module Identifier (FMODID)

Value 0..127. A FMODID identifies a switch on the translation-capable fabric. Each switch device is assigned a unique FMODID. Each BCM5665 requires two FMODIDs.

This is also referred to as 128-space module identifier.

2.8) Fabric Module Port (FPORT)

Value 0..31. Zero-based port number for all ports on a switch device.

This is also referred to as 128-space port number.

2.9) Switch Module Identifier (SMODID)

Value (LMODID_MAX+1)..31. The range can be (LMODID_MAX+1)..63 if only BCM5695s switch devices are used in the system.

Multiple switch devices within a legacy domain should have a unique SMODID. Multiple switch devices across a legacy domain can share the same SMODID (for example, two BCM5690 devices or four BCM5673 devices). Two legacy devices sharing the same SMODID should have a translation capable fabric device (BCM5675) between them.

SMODID is the module identifier recorded in various switching tables like L2, L3, TRUNK, etc. for referring to switch ports outside a switch's own legacy domain.

This is also referred to as 32/64-space module identifier.

2.10) Switch Module Port (SPORT)

Value 0..31. This is the port identifier recorded in various switching tables like L2, L3, TRUNK, etc. for referring to switch ports outside a switch's own legacy domain.

This is also referred to as 32/64-space port number.

3) Programming Guidelines

3.1) LMODID

Program the LMODID(s) in each switch device. This will be a call to
bcm_stk_my_modid_set(unit, LMODID); /* LMODID = 0..LMODID_MAX */
This will set the device module ID in CONFIG/ICONFIG register.

3.2) FMODID

Assign a unique FMODID for every device in the system after determining all the devices.

It is recommended, but not required, to assign FMODIDs beginning with 127 and decrementing, in order to reduce confusion while debugging implementations.

3.3) SMODID

Assign (SMODID, BASE_SPORT) to all devices in the system. For example, two BCM5690/BCM5695 devices attached to the BCM5675 can share the same SMODID with the base port level-shifted suitably. BCM5695 device 1 could be assigned (SMODID=A, BASE_SPORT=0) and BCM5695 device 2 could be assigned (SMODID=A, BASE_SPORT=16). Up to four devices can share the same SMODID as long as the sum of number of ports on these devices is <= 32. SMODID values assigned must be outside the range of LMODIDs, reducing the number of SMODIDs available.

3.4) Switch Device Table Programming

There are many switch device table programming API calls similar to the following which require as input, either through arguments or through a structure, a module ID and port pair. For example:

```
bcm_l3_ip_add/delete()
bcm_l2_addr_add/remove()
bcm_l2_addr_get()
```

In each case, the caller must pass the (SMODID, SPORT) when refering to ports outside switch's own legacy domain and (LMODID, LPORT) when refering to ports inside switch's own legacy domain whenever these API routines call for a module ID and port number pair. For systems not using module ID translation,

FMODID == SMODID and FPORT == SPORT

3.5) Fabric Table Programming

Program the fabric device using FMODID to set up the crossbar tables. This will use existing BCM API like bcm_stk_ucbitmap_set.

4) Compatibility in Mixed Fabric Systems

If only BCM5670 fabric devices are present in the system, no module ID translation is available and the module ID space is 0..31.

If only BCM5675 fabric devices are present in the system, module ID translation is available and the module ID space is 0..127.

If both types of devices are present in the system, module ID translation is available. There is also a requirement that FMODID be assigned sequentially to the switch devices, i.e. if LMODID 0, 1, 2, 3 are assigned to switch devices on a legacy Line card then assigned

FMODIDs should be A+0, A+1, A+2 and A+3. The FMODID settings for the translation capable fabric port to which the Line card connects will be A.

5) API Function Definitions

This section covers all APIs that have been added or modified to permit module ID mapping to be programmed.

There are two sets of APIs in SDK5 to control the use of the module mapping capability that the 5675 provides.

There are a set of fabric related APIs to program the mapping tables in the 5675 itself (Fabric Configuration), and a set of APIs that control the software mapping that must be done on the connected switch chips such as 5695 and 5673 (Switch Configuration).

5.1) Fabric Configuration

The following APIs are provided to configure module ID translation, including enabling the feature and programming the BCM5675 translation tables.

5.1.1) bcm_stk_fmod_lmod_mapping_set

```
/*
 * Function:
 *     bcm_stk_fmod_lmod_mapping_set
 * Purpose:
 *     Set up mapping of (FMODID, FPORT) <--> (LMODID, LPORT) on
 *     a fabric port.  Assigns base FMODID and LMODID to devices
 *     in the legacy domain attached to a fabric port.
 * Parameters:
 *     unit - StrataSwitch PCI device unit number (driver internal).
 *     port - StrataSwitch port number
 *     fmod - Fabric Module Identifier
 *     lmod - Local Module Identifier
 *     enable - modmap enable = 1, disable = 0
 * Returns:
 *     BCM_E_NONE - Success.
 *     BCM_E_XXX - Failure.
 * Notes:
 *     Fabric only (BCM5675).
 *     The fmod assignment will be
 *     Switch-1   LMODID = lmod     FMODID = fmod
 *     Switch-2   LMODID = lmod + 1 FMODID = fmod + 1
 *     Switch-3   LMODID = lmod + 2 FMODID = fmod + 2
 *     Switch-4   LMODID = lmod + 3 FMODID = fmod + 3
```

```
 *      and so on.
 */

int
bcm_stk_fmod_lmod_mapping_set(int unit, bcm_port_t port,
                    bcm_module_t fmod, bcm_module_t lmod);
```

5.1.2) bcm_stk_fmod_lmod_mapping_get

```
/*
 * Function:
 *      bcm_stk_fmod_lmod_mapping_get
 * Purpose:
 *      Get the (FMODID, LMODID) associated with a fabric port.
 *      Gets the base FMODID and LMODID assigned to the devices
 *      in the legacy domain attached to this fabric port.
 * Parameters:
 *      unit - StrataSwitch PCI device unit number (driver internal).
 *      port - StrataSwitch port number
 *      fmod - (OUT) Fabric Module Identifier
 *      lmod - (OUT)Local Module Identifier
 * Returns:
 *      BCM_E_NONE - Success.
 *      BCM_E_XXX - Failure.
 * Notes:
 *      Fabric only (BCM5675)
 */

int
bcm_stk_fmod_lmod_mapping_get(int unit, bcm_port_t port,
                    bcm_module_t *fmod, bcm_module_t *lmod);
```

5.1.3) bcm_stk_fmod_smod_mapping_set

```
/*
 * Function:
 *      bcm_stk_fmod_smod_mapping_set
 * Purpose:
 *      Set up mapping of (FMODID, FPORT) <--> (SMODID, SPORT) on fabric
 * Parameters:
 *      unit - StrataSwitch PCI device unit number (driver internal).
 *      port - StrataSwitch port number (-1 = All ports)
 *      fmod - Fabric Module Identifier
 *      smod - Switch Module Identifier
 *      sport - Switch Module Base Port
 *      nports - Number of ports on switch device with fmod.
 * Returns:
```

```
 *      BCM_E_NONE - Success.
 *      BCM_E_XXX - Failure.
 * Notes:
 *      Fabric only (BCM5675)
 */

int
bcm_stk_fmod_smod_mapping_set(int unit, bcm_port_t port,
                              bcm_module_t fmod, bcm_module_t smod,
                              bcm_port_t sport, uint32 nports);
```

5.1.4) bcm_stk_fmod_smod_mapping_get

```
/*
 * Function:
 *      bcm_stk_fmod_smod_mapping_get
 * Purpose:
 *      Get the (SMODID, BASE_SPORT) and num ports associated with
 *      switch device with fmod
 * Parameters:
 *      unit - StrataSwitch PCI device unit number (driver internal).
 *      port - StrataSwitch port number
 *      fmod - Fabric Module Identifier
 *      smod - (OUT) Switch Module Identifier
 *      sport - (OUT) Switch Module Base Port
 *      nports - (OUT) Number of ports on switch device with fmod.
 * Returns:
 *      BCM_E_NONE - Success.
 *      BCM_E_XXX - Failure.
 * Notes:
 *      Fabric only (BCM5675)
 */

int
bcm_stk_fmod_smod_mapping_get(int unit, bcm_port_t port,
                              bcm_module_t fmod, bcm_module_t *smod,
                              bcm_port_t *sport, uint32 *nports);
```

5.1.5) bcm_stk_modmap_enable_set

```
/*
 * Function:
 *      bcm_stk_modmap_enable_set
 * Purpose:
 *      Enable/Disable Modid mapping on a given fabric port.
 * Parameters:
 *      unit - StrataSwitch PCI device unit number (driver internal).
 *      port - StrataSwitch port number
 *      enable -  Modmap enabled flag. 1 = enabled 0 = disabled
```

```
 * Returns:
 *     BCM_E_NONE - Success.
 *     BCM_E_XXX - Failure.
 * Notes:
 *     Fabric only (BCM5675)
 */

int
bcm_stk_modmap_enable_set(int unit,
                bcm_port_t port, int enable);
```

5.1.6) bcm_stk_modmap_enable_get

```
/*
 * Function:
 *     bcm_stk_modmap_enable_get
 * Purpose:
 *     Get Modid mapping Enable/Disable state on a given fabric port.
 * Parameters:
 *     unit - StrataSwitch PCI device unit number (driver internal).
 *     port - (OUT) StrataSwitch port number
 *     enable - (OUT) Modmap enabled flag. 1 = enabled 0 = disabled
 * Returns:
 *     BCM_E_NONE - Success.
 *     BCM_E_XXX - Failure.
 * Notes:
 *     Fabric only (BCM5675)
 */

int
bcm_stk_modmap_enable_get(int unit,
                bcm_port_t port, int *enable);
```

5.2) Switch Configuration

The BCM and BCMX APIs take and return module IDs in the FMOD space (fabric virtual modids). However, they does not keep internal state to perform actual translations to and from LMOD and SMOD values. The translation is potentially dynamic and hence application-specific.

Therefore, whenever the BCM or BCMX API needs to program a hardware table with a translated (MODID, port) pair, it calls back to the application to perform the translation for it. Conversely, whenever it reads a (MODID, port) pair from a hardware table, it calls back to the application to perform a reverse translation. For example, there are callout points in the L2, L3, IPMC, Trunk, and Filter APIs.

The switch related mapping APIs are defined in <bcm/stack.h>. The

following API function prototypes and calls are provided to allow an application to register a translation routine.

5.2.1) bcm_stk_modmap_cb_t

A single callback is used for forward (SET) and reverse (GET) translation. The following declarations specify the required user callback format.

```
#define    BCM_STK_MODMAP_SET     1      /* global to local */
#define    BCM_STK_MODMAP_GET     2      /* local to global */

typedef int (*bcm_stk_modmap_cb_t)(int unit,
                                   int setget,
                                   bcm_module_t mod_in,
                                   bcm_port_t port_in,
                                   bcm_module_t *mod_out,
                                   bcm_port_t *port_out);
```

The setget argument to the callback function indicates in which direction the mapping should work:

* When BCM_STK_MODMAP_SET is given, the callback is being called from an API that is setting values into the switch hardware. The mapping is from global space into switch hardware space.

* When BCM_STK_MODMAP_GET is given, the callback is being called from an API that is getting values from the switch hardware. The mapping is from switch hardware space to global space.

The registered callback must return a BCM_E_XXX error code. If BCM_E_NONE is returned, then the mapped module/port pair that are outputs of the callback are used. If any other error code is returned, then the BCM API will set the output module/port pair equal to the input module/port values (the identity mapping), and will internally propagate the callback's return value.

The registered callback must implement a mapping that matches the programming of the attached BCM5675 fabric chip. It must also handle translation to/from both LMODID and SMODID spaces, as required.

5.2.2) bcm_stk_modmap_register

The bcm_stk_modmap_register API should be called on each local unit on each CPU to register a callback. There can be one mapping function registered per unit. The bcm_stk_modmap_register API is not callable remotely through RPC.

```
/*
 * Function:
 *      bcm_stk_modmap_register
 * Purpose:
 *      Register module ID mapping/unmapping callback function
 * Parameters:
 *      unit - SOC unit #
 *      func - User callback function for module ID mapping/unmapping
 */
int
bcm_stk_modmap_register(int unit, bcm_stk_modmap_cb_t func);
```

5.2.3) bcm_stk_modmap_unregister

The bcm_stk_modmap_unregister API should be called on each local unit on each CPU to unregister a callback. The bcm_stk_modmap_unregister API is not callable remotely through RPC.

```
/*
 * Function:
 *      bcm_stk_modmap_unregister
 * Purpose:
 *      Unregister module ID mapping/unmapping callback function
 * Parameters:
 *      unit - SOC unit #
 */
int
bcm_stk_modmap_unregister(int unit);
```

5.2.4) bcm_stk_modmap_map

The bcm_stk_modmap_map API is called internally for all translation from within the BCM API implementation, but it is made available to users of the BCM API for informational purposes as well. It is callable remotely through RPC.

The bcm_stk_modmap_map function takes a module/port pair as input and produces a mapped module/port pair as output.

In the absence of a user-registered callback for a unit, the bcm_stk_modmap_map API will set the output module/port pair to the input module/port pair (the identity mapping) and will return BCM_E_NONE.

```
/*
 * Function:
 *      bcm_stk_modmap_map
 * Purpose:
 *      Call module ID mapping/unmapping callback function
```

```
 * Parameters:
 *     unit - SOC unit #
 * Notes:
 *     This function is called from within the BCM API implementations
 *     whenever module ID mapping is needed, but it can also be called
 *     by the user application for informational purposes.
 */
int
bcm_stk_modmap_map(int unit, int setget,
                   bcm_module_t mod_in, bcm_port_t port_in,
                   bcm_module_t *mod_out, bcm_port_t *port_out)
```

6. Programming sequence for an example configuration

6.1 Example Configuration

```
Line card - 1
=============
              --------
5690 - (port-1) |      |------ port-5
             |      |
5690 - (port-2) | 5675  |------ port-6
             |      |                To fabric card
5690 - (port-3) |      |------ port-7
             |      |
5690 - (port-4) |      |------ port-8
             |-------|

unit-0 = 5675
unit-1 = 5690 (connected to port-1 of 5675)
unit-2 = 5690 (connected to port-2 of 5675)
unit-3 = 5690 (connected to port-3 of 5675)
unit-4 = 5690 (connected to port-4 of 5675)


Line card - N
=============
              --------
5690 - (port-1) |      |------ port-5
             |      |
5690 - (port-2) | 5675  |------ port-6
             |      |                To fabric card
5690 - (port-3) |      |------ port-7
             |      |
5690 - (port-4) |      |------ port-8
             |-------|

unit-0 = 5675
```

unit-1 = 5690 (connected to port-1 of 5675)
unit-2 = 5690 (connected to port-2 of 5675)
unit-3 = 5690 (connected to port-3 of 5675)
unit-4 = 5690 (connected to port-4 of 5675)

	Unit-1	unit-2	unit-3	unit-4
	LMODID = 0	LMODID = 0	LMODID = 0	LMODID = 0
Line card - 1	FMODID = 0	FMODID = 1	FMODID = 2	FMODID = 3
	SMODID = 1	SMODID = 1	SMODID = 2	SMODID = 2
	SPORT = 0-15	SPORT = 16-31	SPORT = 0-15	SPORT = 16-31

	Unit-1	unit-2	unit-3	unit-4
	LMODID = 0	LMODID = 0	LMODID = 0	LMODID = 0
Line card - N	FMODID = X + 0	FMODID = X + 1	FMODID = X + 2	FMODID = X + 3
X = 4 * (N-1)	SMODID = Y + 1	SMODID = Y + 1	SMODID = Y + 2	SMODID = Y + 2
Y = 2 * (N-1)	SPORT = 0-15	SPORT = 16-31	SPORT = 0-15	SPORT = 16-31

6.2 BCM API call sequence to initialize the MODIDS and mapping for above configuration

Line Card - N

```
/* LMODID assignment (3.1) */
bcm_stk_my_modid_set(1, 0);
bcm_stk_my_modid_set(2, 0);
bcm_stk_my_modid_set(3, 0);
bcm_stk_my_modid_set(4, 0);

/* FMODID assignment  and LMODID/FMODID mapping (3.2) */
x = 4 * (N -1);
y = 2 * (N -1);
                    /* unit, port, fmod, lmod*/
bcm_stk_fmod_lmod_mapping_set(0, 1, x + 0, 0);
bcm_stk_fmod_lmod_mapping_set(0, 2, x + 1, 0);
bcm_stk_fmod_lmod_mapping_set(0, 3, x + 2, 0);
bcm_stk_fmod_lmod_mapping_set(0, 4, x + 3, 0);

/* FMODID, FPORT <--> SMODID, SPORT mapping  (3.3) */
                    /* unit, fmod, smod, sport, nports */
bcm_stk_fmod_smod_mapping_set(0, -1, x + 0, y + 1, 0,  16);
bcm_stk_fmod_smod_mapping_set(0, -1, x + 1, y + 1, 16, 16);
bcm_stk_fmod_smod_mapping_set(0, -1, x + 2, y + 2, 0,  16);
bcm_stk_fmod_smod_mapping_set(0, -1, x + 3, y + 2, 16, 16);

/* Enable Modid mapping on ports connected to legacy domain*/
                    /* unit, port, enable */
```

```
  bcm_stk_modmap_enable_set(0, 1, TRUE);
  bcm_stk_modmap_enable_set(0, 2, TRUE);
  bcm_stk_modmap_enable_set(0, 3, TRUE);
  bcm_stk_modmap_enable_set(0, 4, TRUE);
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/modid-mapping.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_drv.h,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/robo_drv.h
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: ocm_cint.stg,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from $SDK/caladan_ucode/t3p1/src/t3p1_ocm_cfg.lrp
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/t3p1_ocm_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_swp_petra.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_swp_petra.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_w.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_w.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeRateEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeRateEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_stat.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwPortRateEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
```

```
* $Id: sbZfFabBm3200BwPortRateEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwPortRateEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: Rule.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     Rule.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/Rule.h
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane PCI core software interface.
*
* $Id: hndpci.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndpci.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_res_bitmap.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/shr_res_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.23 Broadcom SDK $
*
*  OAM diag shell command for SBX devices
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Common L3 API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/l3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_lif_counter.c, 2015/09/21 huilizha Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_lif_counter.c
* Purpose: An example of the mpls lif counter.

* There are totally 9 statistics modes:
  ---------------------------------------------------------------------------------------------------------------------------
  |stat_mode          | counting pkts                                                                                        |
  ---------------------------------------------------------------------------------------------------------------------------
  |all                | total pkts                                                                                           |
  |fwd                | enqueued pkts                                                                                        |
  |drop               | discarded pkts                                                                                       |
  |fwd_drop           | enqueued and discarded pkts                                                                          |
  |simple_color       | green pkts, not green pkts                                                                           |
  |simple_color_fwd   | enqueued green pkts, enqueued nongreen pkts                                                          |
```

```
  |simple_color_drop   | discarded green pkts, discarded nongreen pkts                                                |
  |green_not_green     | enqueued green pkts, discarded green pkts, enqueued nongreen pkts, discarded nongreen pkts
          |
  |full_color          | enqueued green pkts, discarded green pkts, enqueued yellow pkts, discarded yellow pkts,
discarded red pkts|
  ---------------------------------------------------------------------------------------------------------------------------------------

* SOC property:
  ---------------------------------------------------------------------------------------------------------------
  |       init soc                          |                term soc                        |
  ---------------------------------------------------------------------------------------------------------------
  |counter_engine_source_0.0=EGRESS_OUT_LIF_0_0_0    |
counter_engine_source_0.0=INGRESS_IN_LIF_0_0_0|
  |counter_engine_source_1.0=EGRESS_OUT_LIF_0_0_1    |
counter_engine_source_1.0=INGRESS_IN_LIF_0_0_1|
  |counter_engine_source_2.0=EGRESS_OUT_LIF_0_0_2    |
counter_engine_source_2.0=INGRESS_IN_LIF_0_0_2|
  |counter_engine_source_3.0=EGRESS_OUT_LIF_0_0_3    |
counter_engine_source_3.0=INGRESS_IN_LIF_0_0_3|
  |counter_engine_statistics_0.0=$mode              |      counter_engine_statistics_0.0=$mode          |
  |counter_engine_statistics_1.0=$mode              |      counter_engine_statistics_1.0=$mode          |
  |counter_engine_statistics_2.0=$mode              |      counter_engine_statistics_2.0=$mode          |
  |counter_engine_statistics_3.0=$mode        |      counter_engine_statistics_3.0=$mode          |
  ---------------------------------------------------------------------------------------------------------------

* mpls service:
 Initiator:
  *  Default Example, Set MPLS LSR to Outgoing Tunnels B (1001) ,A (1000)
  *  Send Packet:
  *  DA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x33}
  *  VID = 200
  *  MPLS label 6000
  *  Expected Packet:
  *  DA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x44}
  *  SA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x33}
  *  MPLS label 9000, MPLS label 1001, MPLS label 1000
  *   Sending packet from in_port:
  *   ~~~
```

```
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+   |
 *  |   |DA    | SA ||   MPLS   ||MPLS      ||MPLS      || Data |    |
 *  |   |0:44  |0:33||Label:1000||Label:1001||Label:9000||      |    |
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+   |
 *  |  +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+
 *  | |        Figure 2: Packets Received on out_port          | |
 *  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Terminator:
 *  Send Packet:
 *  DA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x11}
 *  VID = 100
 *  MPLS label 4096 MPLS label 5000
 *  Expected Packet:
 *  DA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x22}
 *  SA = {0x00, 0x00, 0x00, 0x00, 0x00, 0x11}
 *  MPLS label 8000
 *   Sending packet from in_port:
 *  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+   |
 *  |   |DA    | SA ||   MPLS   ||MPLS      || Data |    |
 *  |   |0:22  |0:11||Label:4096||Label:5000||          |     |    |
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+   |
 *  |  +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+
 *  | |        Figure 3: Sending Packet from in_port          | |
 *  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

 * * The packet will be received in out_port with following header
 *  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+   |
 *  |   | DA | SA ||   MPLS   || Data |    |
 *  |   |0:22|0:11||Label:8000||      |    |
 *  |   +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+   |
 *  |  +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+  |
 *  |  | Figure 4: Packets Received on out_port       | |
 *  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

* Calling sequence:
 -------------------------------------------------------
|                The example of fwd                    |
 -------------------------------------------------------
  cd ../../../../
  cint src/examples/dpp/utility/cint_utils_global.c
  cint src/examples/dpp/utility/cint_utils_l3.c
  cint src/examples/dpp/utility/cint_utils_l2.c
  cint src/examples/dpp/utility/cint_utils_mpls.c
  cint src/examples/dpp/cint_qos.c
  cint src/examples/dpp/cint_multi_device_utils.c
  cint src/examples/dpp/cint_mpls_lsr.c
```

```
  cint src/examples/dpp/cint_mpls_tunnel_initiator.c
  cint src/examples/dpp/cint_mpls_lif_counter.c
  cint
  print mpls_lif_counter_set(unit, fwd, init);
  ******** send the packet in Figure1 *******
  print mpls_lif_counter_get(unit, fwd, init);
 -------------------------------------------------------
 |        The example of simple_color_drop            |
 -------------------------------------------------------
  ./bcm.user
  cd ../../../../
  cint src/examples/dpp/utility/cint_utils_global.c
  cint src/examples/dpp/utility/cint_utils_l3.c
  cint src/examples/dpp/utility/cint_utils_l2.c
  cint src/examples/dpp/utility/cint_utils_mpls.c
  cint src/examples/dpp/cint_qos.c
  cint src/examples/dpp/cint_multi_device_utils.c
  cint src/examples/dpp/cint_mpls_lsr.c
  cint src/examples/dpp/cint_mpls_tunnel_initiator.c
  cint src/examples/dpp/cint_mpls_lif_counter.c
  cint
  print mpls_lif_counter_set(unit, simple_color_drop, term);
  ******** send the packet in Figure3 *******
  print mpls_lif_counter_get(unit, simple_color_drop, term);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_lif_counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_l2.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint QOS Setup example code
*
* copy to /usr/local/sbin location, run bcm.user
* Run script:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_l2.c
No license file was found, but licenses were detected in source scan.

/* $Id: soc_jer2_jer2_jer2_tmcapi_header_parsing_utils.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_header_parsing_utils.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: serdescombo5601x.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: serdescombo_5601x.h
* Purpose: BCM5621X (Raptor) Internal Combo Port PHY Driver
* 10/100/1000/2500 with shadow registers
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo5601x.h
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_general.h,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_general.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_ip_route_tunnel.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_route_tunnel.c
No license file was found, but licenses were detected in source scan.

$Id:$
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

```
#
# Trident2+ Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
log file=td2psanity.txt append=yes on

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'
counter off
l2mode off

#Display some useful information
date
ver
soc

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off
memscan off

echo "init soc"
init soc

echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

#Start Test
echo "Starting tr 1"
tr 1
```

```
echo "Starting tr 3"
tr 3 mask64

echo "init soc"
init soc
echo "init misc"
init misc

rcload my_tr50_bcm56860_a0.soc
rcload my_tr51_bcm56860_a0.soc
rcload my_tr52_bcm56860_a0.soc
rcload my_tr71_bcm56860_a0.soc

# RUN rc.soc on tr 18
#set rct=true

# do not run rc.soc on tr 18
set rct=false

#echo "init soc"
#init soc
#echo "init misc"
#init misc
#echo "init mmu"
#init mmu
#echo "init bcm"
#init bcm

#echo "Starting tr 18"
#tr 18

tl

log off
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/td2psanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabQe2000LnaFullRemapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**

* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
```

* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*/
/*
* $Id: sbZfFabQe2000LnaFullRemapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabQe2000LnaFullRemapEntry.hx
No license file was found, but licenses were detected in source scan.

/* $Id: qax_pp_eg_encap.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/QAX_PP/qax_pp_eg_encap.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: robo.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: robo.c
* Purpose: generic ROBO board driver
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/robo.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_trill.c,v 1.45 Broadcom SDK $

$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trill.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trill_tts.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: link.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* link.h : SBX Caladan3 Link Defines
*
--/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/link.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmWredParamEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredParamEntry.c
No license file was found, but licenses were detected in source scan.

This program is the proprietary software of Broadcom Corporation
all reasonable efforts to protect the confidentiality thereof,

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-user.mrv
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-user
No license file was found, but licenses were detected in source scan.

/*
* $Id: i2cM41T81Clock.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/i2cM41T81Clock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: devids.h,v 1.309 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/devids.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod16.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/dev.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmmt.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmmt.h
No license file was found, but licenses were detected in source scan.

/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: aiutils.c,v 1.4 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/aiutils.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: async.h
* Purpose: Asynchronous BCM API routines
* Generator: mkdispatch 1.54

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/async.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ulink_pack.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ulink_pack.h
* Purpose:    Interface to pack and unpack routines common to
*             SDK and uKernel for:
*             - ULINK control message
*
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/ulink_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp32BitRewrite.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIp32BitRewrite.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_fe3200_interop.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 interop example:
*
* FE3200 default parameters are optimized to a pure FE3200-Jericho system.
* FE3200 is backward compatible with DNX legacy generation (ARAD and FE1600).
* This Cint provide as an example of what should be configured when connecting FE3200 to legacy device.
*
* The following cints should be included:
```

```
* sdk/src/examples/dfe/cint_flow_control_fe3200.c>
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_fe3200_interop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPost.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*            additional components necessary for SDK.
*            Includes this file immediately after configAll.h
*            in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/configSdkPost.h
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl -w
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#

use strict;
use warnings;
use File::Basename;
use IO::File;
use File::Copy;
use Data::Dumper;

my $arg;
my @files = ();
my $verbose = 0;
my $backup = 0;

while ( defined ( $arg = shift @ARGV) ) {
 if ( $arg eq '-h' || $arg eq '-help' ) {
      print_help();
  exit 0;
 }
```

```
 if ( $arg eq '-f' ) {
      while ( defined ( my $tmp = shift @ARGV ) ) {
         if ( $tmp !~ /^-/ ) {
            push ( @files, $tmp );
         } else {
            unshift ( @ARGV, $tmp );
            last;
         }
      }
      next;
   }
 if ( $arg eq '-v' ) {
  $verbose = 1;
  next;
 }
 if ( $arg eq '-b' ) {
  $backup = 1;
  next;
 }
   print "Illegal option $arg\n";
}

foreach my $file ( @files ) {
 copy("$file", "$file.bak") or die "Copy failed: $!" if ( $backup );
 my $line;
 my $notfound = 0;
 my $firstparam = 0;
 print "Processing file $file\n" if ($verbose );
 my $fhr = IO::File->new("$file",'r') || die "$! Unable to open file $file for reading\n";
 my $fhw = IO::File->new("$file.$$",'w') || die "$! Unable to open file $file.$$ for writing\n";
 while ( $line=<$fhr> ) {
   if ( $line =~ m/\@param/ ) {
     print $fhw " * \@param pa \#phymod_access_t struct\n" if ( !$firstparam );
     print $fhw $line;
     $firstparam++;
     next;
   }
   if ( $line =~ m/\@return/ && !$firstparam ) {
     print $fhw " * \@param pa \#phymod_access_t struct\n" if ( !$firstparam );
     print $fhw $line;
     $firstparam++;
     next;
   }
   print $fhw $line;
   $firstparam = 0;
 }
 close ( $fhr );
 close ( $fhw );
```

```
 rename ( "$file.$$", "$file") || die "$! Unable to rename $file.$$ to $file\n"
}

sub print_help {
   print << "EOT"
$0 -f <files>

This script converts DOS lf/cr to UNIX format and remove all non-ASCII caharacters. It also joins lines seperated
by \ character into a single line.

OPTIONS:
    -v          Enable verbose
    -b          Make backup of original files
    -h          help
    -help         help


USAGE:
$0 -f *.c *.h -v -b

EOT
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/doxyfix.pl
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_drv.c, Modified Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: et_linux.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux device driver tunables for
* Broadcom BCM44XX and BCM47XX 10/100Mbps Ethernet Device Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/et_linux.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_swp_p_pp_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_swp_p_pp_api.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bfcmap84756_a0.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap84756_a0.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53262_a0.c
* Purpose: bcm53262_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53262_a0.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cmdlist.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cmdlist.c
* Purpose: List of commands available in DNX mode
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/diag_dnx_cmdlist.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_ingress_scheduler.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

/*
*
* $Id: furia_pkg_cfg.h 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_pkg_cfg.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgPortRemapEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgPortRemapEntryConsole.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdes100fx.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdes100fx.h
* Purpose:    (FB2) Internal Dodeca Serdes PHY Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes100fx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: raptor.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       raptor.h
* Purpose:    Function declarations for Raptor bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/raptor.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPortRemapEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaPortRemapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       main.c
* Purpose:    API mode test driver
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/main.c
No license file was found, but licenses were detected in source scan.

```
# $Id: th_memtest.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk Sanity Memory tests
#
# Script to run all available memory tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

#IPIPE regular mems.
local mem 'AGM_MONITOR_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP';             $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK';                     $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING';                 $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP';                              $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL';                          $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY';                $name; $tr50; $tr51; $tr52;
local mem 'CPU_TS_MAP';                           $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP';                    $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE';                           $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY';            $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE1';      $name; $tr50; $tr51; $tr52;
```

```
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK';                                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE';                               $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE';                                $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL';                                $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1';                               $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2';                               $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3';                               $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX';                                   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE';                     $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY';                     $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK';                       $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY';     $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE';                $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'FAST_TRUNK_GROUP';                    $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_SET';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER';                    $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MODE';                    $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE3';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM1_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE1';              $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_HG_CLASSID_SELECT';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_I2E_CLASSID_SELECT';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'IFP_METER_TABLE_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_PORT_METER_MAP';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE';                   $name; $tr50; $tr51; $tr52;
local mem 'IFP_STORM_CONTROL_METERS';                       $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP';                  $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_ACTIVE_L3_IIF_PROFILE';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_DNAT_ADDRESS_TYPE';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_ETAG_PCP_MAPPING';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_FC_HEADER_TYPE';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3';              $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_16';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_17';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_18';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_19';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP';                       $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP';                       $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP';                          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP';                       $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP';                           $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE';               $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE';        $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP';                                $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP';                                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_A';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_B';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_A';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_B';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING';                           $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE';                  $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP';                                $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM';                            $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE0';                      $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE1';                      $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE2';                      $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE3';                      $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING';                     $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_DATA_ONLY';                             $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_HIT_ONLY';                              $name; $tr50; $tr51; $tr52;
local mem 'ING_TUNNEL_ECN_DECAP';                           $name; $tr50; $tr51; $tr52;
local mem 'ING_TUNNEL_ECN_DECAP_2';                         $name; $tr50; $tr51; $tr52;
local mem 'ING_UNTAGGED_PHB';                               $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE';                                 $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_VP_VLAN_MEMBERSHIP';                         $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_ACTION_TABLE_A';                        $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_ACTION_TABLE_B';                        $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_REMAP_TABLE_A';                         $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_REMAP_TABLE_B';                         $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP';                        $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP';                                $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP';                          $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE';                         $name; $tr50; $tr51; $tr52;
local mem 'INT_CN_TO_MMUIF_MAPPING';                        $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH';                      $name; $tr50; $tr51; $tr52;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'IP_PROTO_MAP';                          $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE0';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE1';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE2';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE3';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_TO_INT_CN_MAPPING';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE0';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE1';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE2';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE3';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE0';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE1';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE2';                        $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE3';                        $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK';                        $name; $tr50; $tr51; $tr52;
local mem 'L2MC';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_LP';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_ONLY_ECC';                        $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_ONLY_TILE';                        $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_TILE';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO';                          $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_AUX_TABLE';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE0';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE1';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE2';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE3';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_HIT_ONLY';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_MULTICAST';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_UNICAST';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_MULTICAST';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_UNICAST';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_LP';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY_ECC';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF_PROFILE';                          $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC';                          $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_IPMC_REMAP';                                  $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES';                                  $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_DATA_ONLY';                            $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM';                   $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR';              $name; $tr50; $tr51; $tr52;
local mem 'LPORT';                                          $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL';                                 $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0';                                 $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1';                                 $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2';                                 $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3';                                 $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR';                             $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW';                                 $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY';                                     $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_ECC';                                 $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY';                      $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK';                      $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP';                                   $name; $tr50; $tr51; $tr52;
local mem 'PORT';                                           $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE';                                 $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE';                         $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET';                          $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK';                                 $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1';                        $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2';                        $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'RANDOM_RRLB_HG_TRUNK_MEMBER';                    $name; $tr50; $tr51; $tr52;
local mem 'RESPONSIVE_PROTOCOL_MATCH';                      $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH';                          $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH';                          $name; $tr50; $tr51; $tr52;
local mem 'SFLOW_ING_DATA_SOURCE';                          $name; $tr50; $tr51; $tr52;
local mem 'SFLOW_ING_FLEX_DATA_SOURCE';                     $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY';                               $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP';                               $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE';                       $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP';                                      $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_2';                                    $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY';                      $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE2';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS';                            $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK';                          $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE';                          $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG';                              $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL';                             $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA';                           $name; $tr50; $tr51; $tr52;

local mem 'SER_ACC_TYPE_MAP';                            $name; $tr50; $tr51; $tr52;
local mem 'SER_MEMORY';                              $name; $tr50; $tr51; $tr52;

#IPIPE TCAMs
local mem 'CPU_COS_MAP';                             $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY';                           $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION';                            $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY';                      $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT';               $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY';     $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';    $name; $tr50; $tr51;
$tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY';             $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';       $name; $tr50; $tr51; $tr52;
```

```
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM';                                $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE';                           $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE0';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE1';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE2';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE3';                     $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT';                                $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_ONLY';                           $name; $tr50; $tr51; $tr52;
local mem 'IP_MULTICAST_TCAM';                       $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY';                           $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY';                      $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP';                                $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY';                           $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL';                               $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM';                         $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY';              $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION';                         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY';               $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM';         $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM';                                $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM';                                $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET';                             $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY';                        $name; $tr50; $tr51; $tr52;

#IPIPE conditional mems
#L2_ENTRY_ISS_LP
```

```
#L3_ENTRY_ISS_LP
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY';              $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE0';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE1';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE2';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE3';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE0';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE1';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE2';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE3';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY';              $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE0';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE1';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE2';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE3';         $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE0';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE1';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE2';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE3';                $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_HIT_ONLY';                 $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'FPEM_LP';                        $name; $tr50; $tr51; $tr52;'
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY';              $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY';               $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128';                  $name; $tr50; $tr51; $tr52;
```

```
#local mem 'L3_DEFIP_PAIR_128_ONLY';                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'

#IPIPE single/limited entry mems
local mem 'CPU_PBM';                    $name; $tr50;
local mem 'CPU_PBM_2';                    $name; $tr50;
local mem 'DEVICE_LOOPBACK_PORTS_BITMAP';                    $name; $tr50;
local mem 'EPC_LINK_BMAP';                    $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_ENABLE';                    $name; $tr50;
local mem 'HIGIG_TRUNK_CONTROL';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE1';                    $name; $tr50;
```

```
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2';          $name; $tr50;
```

```
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
```

```
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0';               $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE0';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE1';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE2';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE3';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1';               $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE0';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE1';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE2';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE3';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2';               $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE0';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE1';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE2';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE3';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3';               $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE0';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE1';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE2';             $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE3';             $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0';              $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1';              $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2';              $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3';              $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0';               $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE0';             $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE1';             $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE2';             $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE3';             $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1';               $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE0';             $name; $tr50;
```

```
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
```

```
local mem 'IDB_OBM5_ETAG_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE0';                $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE1';                $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE2';                $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE3';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0';                   $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE0';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE1';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE2';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE3';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1';                   $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE0';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE1';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE2';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE3';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2';                   $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE0';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE1';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE2';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE3';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3';                   $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE0';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE1';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE2';                $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE3';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE0';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE1';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE2';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE3';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1';                    $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE0';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE1';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE2';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE3';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2';                    $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE0';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE1';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE2';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE3';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE0';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE1';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE2';                $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE3';                $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0';                   $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE0';                $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE1';                $name; $tr50;
```

```
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2';          $name; $tr50;
```

```
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE3';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3';                    $name; $tr50;
local mem 'ING_EN_EFILTER_BITMAP';                    $name; $tr50;
local mem 'ING_IPV6_MC_RESERVED_ADDRESS';                    $name; $tr50;
local mem 'ING_TRILL_PARSE_CONTROL';                    $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL';                    $name; $tr50;
local mem 'INSTRUMENTATION_TRIGGERS_ENABLE';                    $name; $tr50;
local mem 'L2_LEARN_INSERT_FAILURE';                    $name; $tr50;
local mem 'L3_DEFIP_AUX_SCRATCH';                    $name; $tr50;
local mem 'LINK_STATUS';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE0';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE1';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE2';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE3';                    $name; $tr50;
local mem 'PORT_BRIDGE_BMAP';                    $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE0';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE1';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE2';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE3';                    $name; $tr50;

#EPIPE regular mems.
local mem 'EFP_COUNTER_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE0';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'EFP_POLICY_TABLE_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_ETAG_PCP_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COS_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_ING_PORT';                                   $name; $tr50; $tr51; $tr52;
local mem 'EGR_INT_CN_TO_IP_MAPPING';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_INT_CN_UPDATE';                              $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC';                                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_CUT_THRU_CLASS';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TO_INT_CN_MAPPING';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL';                                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF';                                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP';                                $name; $tr50; $tr51; $tr52;
local mem 'EGR_MACDA_OUI_PROFILE';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH';                                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP';                                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1';                         $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2';                         $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING';                           $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_NAT_PACKET_EDIT_INFO';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS';           $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PER_PORT_BUFFER_SFT_RESET';                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT';                                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT_CREDIT_RESET';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP';                                $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS';                           $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE0';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE1';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE2';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE3';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE';                         $name; $tr50; $tr51; $tr52;
local mem 'EGR_TUNNEL_ECN_ENCAP';                           $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI';                                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN';                                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG';                                   $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE';                                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE_ECC';                             $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_VLAN_XLATE_LP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_VNTAG_ETAG_PROFILE';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_GROUP';                      $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_MEMBER';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_VP_VLAN_MEMBERSHIP';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_ACTION_TABLE_A';              $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_ACTION_TABLE_B';              $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_REMAP_TABLE_A';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_REMAP_TABLE_B';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE3';           $name; $tr50; $tr51; $tr52;

#EPIPE TCAMs
local mem 'EFP_TCAM';                             $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE3';                       $name; $tr50; $tr51; $tr52;

#EPIPE single/limited entry mems
local mem 'EGR_TRILL_PARSE_CONTROL';              $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2';            $name; $tr50;

#MMU regular mems - Global
local mem 'INTFO_TC2PRI_MAPPING';                 $name; $tr50; $tr51; $tr52;
local mem 'STATS_INTF_QUEUE_LIST';                $name; $tr50; $tr51; $tr52;
local mem 'STATS_INTF_SERVPOOL_LIST';             $name; $tr50; $tr51; $tr52;

#MMU regular mems - SC
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3'; $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3';      $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_REPL_STATE_TBL_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE0';                      $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE1';                      $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE2';                      $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE3';                      $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE3';                   $name; $tr50; $tr51; $tr52;
```

```
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE3';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK12_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE3';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData5_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE3';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_MCQDB_Y_B_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE3';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK9_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_LINK_MEM_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_LINK_MEM_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_LINK_MEM_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_LINK_MEM_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE3';         $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData38_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE3';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK13_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE3';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData13_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE3';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData60_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData60_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData60_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData60_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData61_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData61_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData61_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData61_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData62_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData62_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData62_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData62_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData63_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData63_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData63_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData63_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData64_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData64_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData64_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData64_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData65_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData65_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData65_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData65_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData66_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData66_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData66_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData66_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData67_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData67_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData67_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData67_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData68_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData68_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData68_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData68_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData69_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData69_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData69_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData69_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData70_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData70_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData70_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData70_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData71_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData71_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData71_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData71_XPE3';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData72_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData72_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData72_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData72_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData73_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData73_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData73_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData73_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData74_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData74_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData74_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData74_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData75_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData75_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData75_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData75_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15_XPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15_XPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15_XPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15_XPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK16_XPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK16_XPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK16_XPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK16_XPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK17_XPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK17_XPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK17_XPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK17_XPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK18_XPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK18_XPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK18_XPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK18_XPE3';                  $name; $tr50; $tr51; $tr52;

#MMU regular mems - XPE
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE1';            $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1';              $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2';                $name; $tr50; $tr51; $tr52;

$done

#Table DMA/Table SLAM (Count=0 means get and use max automatically)
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
```

```
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';

#IPIPE regular mems.
local mem 'AGM_MONITOR_TABLE';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ALTERNATE_EMIRROR_BITMAP';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CHFC_SYSPORT_MAPPING';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE';  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FAST_TRUNK_GROUP';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MODE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM3_DSCP_MAP_PORT0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_HG_CLASSID_SELECT';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_I2E_CLASSID_SELECT';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE0';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE1';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE2';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE3';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE0';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE1';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE2';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE3';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_PORT_METER_MAP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE0';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE1';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE2';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE3';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_STORM_CONTROL_METERS';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ACTIVE_L3_IIF_PROFILE';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DNAT_ADDRESS_TYPE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP';                           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_ETAG_PCP_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FC_HEADER_TYPE';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3';     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1';  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2';  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_16';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_17';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_18';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_19';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE0';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE1';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE2';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE3';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_L3_NEXT_HOP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_A';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_B';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_A';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_B';                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_MPLS_EXP_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TUNNEL_ECN_DECAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TUNNEL_ECN_DECAP_2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VP_VLAN_MEMBERSHIP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_ACTION_TABLE_A';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_ACTION_TABLE_B';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_REMAP_TABLE_A';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_REMAP_TABLE_B';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INT_CN_TO_MMUIF_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_TO_INT_CN_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_LP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'L2_ENTRY_ONLY_TILE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_TILE';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_AUX_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_HIT_ONLY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_MULTICAST';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_UNICAST';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_MULTICAST';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_UNICAST';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_LP';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY_ECC';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF_PROFILE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL_DATA_ONLY';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_ECC';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE';                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'PORT_CBL_TABLE_MODBASE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RANDOM_RRLB_HG_TRUNK_MEMBER';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RESPONSIVE_PROTOCOL_MATCH';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SFLOW_ING_DATA_SOURCE';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SFLOW_ING_FLEX_DATA_SOURCE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_2';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA';                        $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'SER_ACC_TYPE_MAP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SER_MEMORY';                                $name; $tr71_1; $tr71_2; $tr71_3;

#IPIPE TCAMs
local mem 'CPU_COS_MAP';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE0';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE1';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE2';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE3';                     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DST_COMPRESSION_TCAM_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_ONLY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_MULTICAST_TCAM';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL';                         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'L3_TUNNEL_ONLY';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE3';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE0';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE1';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE2';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE3';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE0';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE1';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE2';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE3';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;

#IPIPE conditional mems
#L2_ENTRY_ISS_LP
#L3_ENTRY_ISS_LP
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2';                         $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4';                         $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;'
```

```
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'FPEM_LP';                          $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128';                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'

#EPIPE regular mems.
```

```
local mem 'EFP_COUNTER_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ETAG_PCP_MAPPING';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COS_MAP';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP';             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_FLEX_CTR_PKT_RES_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_INT_CN_TO_IP_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_INT_CN_UPDATE';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_CUT_THRU_CLASS';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TO_INT_CN_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MACDA_OUI_PROFILE';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_NAT_PACKET_EDIT_INFO';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PER_PORT_BUFFER_SFT_RESET';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT_CREDIT_RESET';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_PW_INIT_COUNTERS_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TUNNEL_ECN_ENCAP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI';                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN';                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE_ECC';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE_LP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VNTAG_ETAG_PROFILE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_GROUP';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_MEMBER';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VP_VLAN_MEMBERSHIP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_ACTION_TABLE_A';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_ACTION_TABLE_B';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_REMAP_TABLE_A';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_REMAP_TABLE_B';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;

#EPIPE TCAMs
local mem 'EFP_TCAM';                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE0';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE1';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE2';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE3';                                $name; $tr71_1; $tr71_2; $tr71_3;

#MMU regular mems - Global
local mem 'INTFO_TC2PRI_MAPPING';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'STATS_INTF_QUEUE_LIST';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'STATS_INTF_SERVPOOL_LIST';                      $name; $tr71_1; $tr71_2; $tr71_3;

#MMU regular mems - SC
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE0';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE1';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE2';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE3';                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3';            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData10_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData36_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CFAP_BANK11_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_LINK_MEM_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_LINK_MEM_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_LINK_MEM_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_LINK_MEM_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_MCQDB_X_B_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_UCQDB_X_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData57_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CFAP_BANK1_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData60_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData60_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData60_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData60_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData61_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData61_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData61_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData61_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData62_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData62_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData62_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData62_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData63_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData63_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData63_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData63_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData64_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData64_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData64_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData64_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData65_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData65_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData65_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData65_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData66_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData66_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData66_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData66_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData67_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData67_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData67_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData67_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData68_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData68_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData68_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData68_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData69_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData69_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData69_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData69_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData70_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData70_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData70_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData70_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData71_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData71_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData71_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData71_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData72_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData72_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData72_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData72_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData73_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData73_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData73_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData73_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData74_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData74_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData74_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData74_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData75_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData75_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData75_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData75_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK15_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK15_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK15_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK15_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK16_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK16_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK16_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK16_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK17_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK17_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK17_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK17_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK18_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK18_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK18_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK18_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#MMU regular mems - XPE
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_WRED_CONFIG_XPE1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE3';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3';       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2'; $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;

##config parity_enable=1;
config delete parity_enable

$done
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/thplus_memtest.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_module.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_module.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_front_end_host_card.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_front_end_host_card.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_module_management.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*****************************************************************
*
```

```
* FILENAME:       soc_sand_module_management.h
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
* The module management is a set of functions that are
* used by the application to open and close the driver module.
* These functions take care of initializing the driver by allocating
* memory and RTOS resources needed by the driver
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_module_management.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_internal.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        cint_internal.c
* Purpose:     CINT internal functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_l3mc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_l3mc.c
* Purpose: Maintains all the debug information for l3mc(layer 3 multicast)
*          feature for trident2plus.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3mc/trident2plus_l3mc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_trill.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkStatsApi.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkStatsApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkStatsApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane2.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hurricane2.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_m.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_m.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sweep_app.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_sweep_app.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ofp_rates.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_fiber_channel.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_fiber_channel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcamtype2.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Defines constants describing the Type 2 A20K and A10K chips
```

```
*           for soc/er_tcam.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tcam/tcamtype2.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_m.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_m.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.46 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_k.i
```

* Purpose: Independent memory descriptions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_k.i
No license file was found, but licenses were detected in source scan.

/* $Id: ui_nvram_hrp.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_nvram_hrp.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: custom.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Custom API callouts
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/custom.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibMVTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibMVTConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: arad_egr_prge_mgmt.c,v 1.142.2.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_egr_prge_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod.c,v 1.169 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  Copyright: (c) 2012 Broadcom Corp.
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  File       : tscmod.c
*  Description: SDK interface to Broadcom TSC Vertical SerDes Driver
*             (TSC 40nm and later. Not compatible with Warpcore and earlier)
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lif_ing_vlan_edit.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_ing_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_oam_egress_injection.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_egress_injection.c
No license file was found, but licenses were detected in source scan.

```
# $Id: BCM953025K.bcm,v 1.2 Broadcom SDK $
```

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# There are various configurationis can be selected of this board
##########################################################################################
# case 1 : port 0~4 are connected with internal GPHYs, port 5 is connected with GMAC0
pbmp_valid.0=0x0000011f
# internal GPHY
phy_sys_interface_ge4.0=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

## ==== MacSec Section ==== ##
macsec_enable = 1
#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B
#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0

##########################################################################################
# case 2 : port 0~3 are connected with inetrnal GPHYs, port 4~5 are connected in RGMII mode
pbmp_valid.0=0x0000013f
# RGMII mode
phy_sys_interface_ge4.0=7
phy_sys_interface_ge5.0=7
# external PHY address
port_phy_addr_ge4.0=0x101
port_phy_addr_ge5.0=0x110
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B
macsec_dev_addr_ge5=0x21A
```

```
#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
macsec_port_index_ge5=0

##########################################################################################
# case 3 : port 0~3 are connect with inetrnal GPHYs, port 4~5 are connected in SGMII mode
pbmp_valid.0=0x0000013f
# SGMII mode
phy_sys_interface_ge4.0=4
phy_sys_interface_ge5.0=4
phy_fiber_pref=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B
macsec_dev_addr_ge5=0x21A

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
macsec_port_index_ge5=0

##########################################################################################
#############
# case 4 : port 0~2 are connect with internal GPHYs, port4 is connected with GPHY4 and port 5 is connected with
GPHY3
pbmp_valid.0=0x00000137
# internal GPHY
phy_sys_interface_ge3.0=1
phy_sys_interface_ge4.0=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0004
phy_port_primary_and_offset_ge4=0x0003

## ==== MacSec Section ==== ##
macsec_enable = 1
```

```
#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge3=0x21B
macsec_dev_addr_ge4=0x21A

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge3=0
macsec_port_index_ge4=0

##########################################################################################
###########
# case 5 : port 0~4 are connected with inetrnal  GPHTs, port 5 is connected with external PHY via GMII interface
pbmp_valid.0=0x0000013f
# internal GPHY
phy_sys_interface_ge4.0=1
# GMII internal
phy_sys_interface_ge5.0=3
port_phy_addr_ge5.0=0x110
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B
macsec_dev_addr_ge5=0x21A

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
macsec_port_index_ge5=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM953025K.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
Broadcom StrataSwitch
I2C Device Driver API

Introduction

This document descrives the I2C bus-master driver for the CPU Management Interface Controller (CMIC). This module provides common I2C Bus driver routines for using the the I2C bus controller (internal to the CMIC) as a bus-master. This is useful when using the I2C bus to control auxiliary I2C slave devices connected to the SDA,SCL pins of a StrataSwitch device.

Overview

The I2C Device Driver API allows for programming of I2C devices connected to a Broadcom StrataSwitch through the CMIC I2C controller (accessible via PCI).

The I2C bus is a 2-wire bus originally developed by Phillips Semiconductor for bi-directional data I/O between two interconnected integrated circuits (hence the name Inter-IC, IIC or I2C). The I2C bus uses the 2-wires SDA (Serial Data) and SCL (Serial Clock) and each device connected to the bus is addressable through a unique slave or device address while simple master/slave relationships exist at all times. Serial, 8-bit oriented, bi-directional data transfers can be made at up to 400Kbits/sec in fast mode, with 100Kbits/s being the norm. The number of IC's connected to this bus is limited only by a maximum bus capacitance of 400pF.

Important Note:

Please review the comments in soc/i2c/bus.c regarding the SLEEP delay macro. Failure to do so could result in failing I2C bus accesses.

Modules and Theory of Operation

A layering architecture is employed for the I2C drivers, this layering and their source modules is described below.

```
+--------------------------------+
| I2C read/write/ioctl API       |   src/bcm/bcmi2c.c
```

```
+--------------------------------+
| I2C Device Drivers             |   src/drv/i2c/{lm75.c,max127.c,24c64.c}
+--------------------------------+
| Server Management Bus Driver   |   src/drv/i2c/smbus.c
+---------------+----------------+
| I2C Bus Driver| Device Manager |   src/drv/i2c/{bus.c,devs.c}
+---------------+----------------+
|  PCI          |                src/drv/cmic.c
+---------------+
```

The I2C driver is started by the system entry point soc_i2c_attach() in bus.c which takes a PCI device number, flags, and an optional bus speed. Both PIO and Interrupt driven modes of operation are supported. Speed, if non-zero is used if a speed which is >= the provided speed can be found. For most cases, the defaults for FLAGS and speed can be used. The attach routine will initialize the bus-controller, and then attempt to perform discovery by calling the probe routine (soc_i2c_probe). Note: This routine can be invoked by typeing "i2c probe" from the BCM CLI.

The I2C device discovery entry point is soc_i2c_probe() in devs.c which will iterate over every device in the I2C device table and attempt to acknowledge-poll the device by generating START,SLAVE_ADDR and waiting for an acknowledgment. When an acknowledgement is received, the associated driver for the device is loaded. General call addresses are NOT used and only devices added to the device descriptor table are probed.

The core driver (bus.c) only deals with generating the bus conditions and states required for I2C message processing. These routines are low-level routines which assume that locking will occur at a higher-level. For many devices, this will occur in the driver definitions for a particular device or for those routines which use the SMB protocol, locking is provided in the SMB module instead (smbus.c). The file bus.c contains the core driver routines used for generating START, STOP, REPSTART, and DATA conditions, along with state dependent processing, and bus error handling.

I2C Devices which communicate via the SMB (Server Management Bus) protocol can use the higher-level protocol operations defined in this module (smbus.c). Note that support is provided for 8-bit and 16-bit SMB r/w operations and all locking is provided in this module so every module which uses it is MT-safe. For more advanced SMB features (block read/write), see the implementation of the 24c64 EEPROM driver.

An I2C driver is used to communicate with an external slave device. I2C drivers are used for every device which supports r/w operations. Devices which use non-standard mechanisms for IO need only support the IO control (ioctl) interface. The I2C device driver interface is defined in the

i2c_driver_t type, this driver is associated with the device type in
the i2c_device_t struct. For example drivers, see 24c64.c and lm75.c

When one or more drivers are added to the device driver association
table, devices are probed by the device layer (devs.c) which is responsible
for finding I2C devices, looking up a driver for a given slave address,
and associating a device with a driver callout. Users should implement their
driver, and then add the associated device entry to the i2c_devices[]
table in devs.c to make the device available to the system.

Finally, a high-level user API is provided for open/read/write/ioctl
style programming. Use of this API is dependent upon a driver for the
named device to be loaded into the system via the device probe layer.
This can be used to provide generic programmability of a wide variety
of devices while hiding the implementation details in the driver itself
and separating the device level interface from implementation.

In practice, a CLI or external management program will typically call
the API routines directly. See the file bcmi2c.c for more details,
also, see the CLI command implementation (diag/i2c_cmds.c) for
its use.

I2C Bus Driver API

The bus driver API (bus.c) allows for generating the bus conditions
and states required for I2C message processing. These routines are
low-level routines which assume that locking will occur at a
higher-level. In addition, they make various assumptions about
state-specific processing which will need to occur within higher level
routines. This documentation covers the general sequencing interface
which a higher-level driver will use to perform tasks such as I2C
attach, start, stop, read data, write data, detach, etc. It covers
user-serviceable routines only as internals are documented within
the source code.

Function: int soc_i2c_attach(int unit, int enable, uint32 flags, int speed)
Purpose: I2C Bus attach routine, main entry point for I2C startup.
    Initialize the I2C controller configuration for the specified
    device. Default is to disable the device, if enable is specified,
    the default frequency is 100Khz. Flags currently allows selection
    of Interrupt driven mode, PIO mode, or force configuration.
Parameters:

  unit - StrataSwitch device number or I2C bus number
  enable - if non-zero, turn on and configure the bus
  flags - bitmap (logical OR) of one or more of the following:
        SOC_I2C_FORCE -force configuration

SOC_I2C_MODE_INTR - interrupt driven mode
SOC_I2C_MODE_PIO - programmed I/O mode

Returns:

SOC_E_NONE - operation succeeed, I2C bus ready for IO
SOC_E_MEMORY - memory allocation error

Notes: Default is Interrupt mode, if both are selected Interrupt is chosen.

Function:int soc_i2c_start(int unit, uint8 slave_addr)
Purpose: Issue an I2C start command to the provided slave_addr.
For Transmit functions, the LSB should be cleared.
For Receive functions the LSB should be set.
Parameters:
unit - StrataSwitch device number or I2C bus number
slave_addr - I2C slave device address (LSB set for function).

Returns: SOC_E_NONE if the device was contacted and ready for I/O.
SOC_E_TIMEOUT if the device is not present.

If SOC_E_NONE is returned, you need to call soc_i2c_stop()
to release the bus when finished performing I/O.

See also: SOC_I2C_TX_ADDR(), SOC_I2C_RX_ADDR()

Notes: 10-bit addressing currently not supported.

Function: int soc_i2c_write_data(int unit, uint8 data)
Purpose: Write data to the last addressed slave device.
Parameters:
unit - StrataSwitch device number or I2C bus number
data - data byte to transmit

Returns:
SOC_E_NONE if the device was contacted and the operation
succeeded.
SOC_E_BUSY if the device timed out or is busy.

Notes:
Before this routine can be used, one must issue a START
condition on the bus along with the slave address used to
write to the device (e.g. a write address)

Function:int soc_i2c_read_data(int unit, uint8* data, int tx_ack)

Purpose: Read some data from the last addressed slave device.

Parameters:

unit - StrataSwitch device number or I2C bus number
data - address to place data byte received from slave
tx_ack - if set, an ACK will automatically be sent by the
controller when a slave sends data. If not set,
a NAK is pulsed when the byte has been received.
This is used for read operations where a master would
like to signify the last byte is being sent.

Returns:

SOC_E_NONE if the device was contacted and the operation
succeeded.
SOC_E_TIMEOUT if the device timed out.

Notes:

Before this routine can be used, one must issue a START
condition on the bus along with the slave address used to
read from the device (e.g. a write address). This means
for example, that bit0 must be set in the slave address.
We always transmit an ACK when tx_ack is non-zero.

Function: int soc_i2c_stop(int unit)

Purpose: Generate stop condition on the I2C bus. This routine is used to
signal the end of a data transfer and releases the bus according
to the I2C protocol.

Parameters:
unit - StrataSwitch device number or I2C bus number

Returns:
SOC_E_NONE - no error, one can always issue stop.

Notes:
none

Function: int soc_i2c_rep_start(int unit, uint8 slave_addr)

Purpose: Generate a repeated start to the specified slave address.
Typically, this is done in the middle of an operation in order
to delimit a new command sequence without releasing the I2C bus.

Parameters:
unit - StrataSwitch device number or I2C bus number
slave_addr - device address, with r/w bit set for data direction.

Returns:
  SOC_E_TIMEOUT - the device cannot be contacted or is offline
  SOC_E_NONE - no error, device ready for IO.

Notes:
  none

Function: int soc_i2c_ack_poll(int unit, uint8 io_addr, int maxpolls)
Purpose: Many devices will require a polling acknowledge cycle to
    determine if the device is available for IO. Usually, this
    means that a START condition is generated, along with a read
    or write form of the slave device address, and then we wait
    until the device responds with an ACK. When this occurs, we
    issue a STOP, to free the bus, and return since the device
    is ready for IO.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  io_addr - device address, with r/w bit set for data direction.
  max_polls - number of times to attempt the operation.

Returns:
   Number of Poll operations required to contact device, or
   maxpolls if the device is not online or responding.

Notes: Typically, we poll a specified IO address with the read/write bit
    set to determine if the device is ready for reading or writing.
    When we receive an ACK for that function (Read/Write), the device
    is ready for IO. The data direction (or function) is determined
    by the address bits (see SOC_I2C_TX_ADDR/SOC_I2C_RX_ADDR) macros.

Function: int soc_i2c_detach(int unit)
Purpose: I2C detach routine: free resources used by I2C bus driver.
Parameters:
  unit - StrataSwitch device number or I2C bus number

Returns:
  SOC_E_NONE - no error

Notes:
  none

Function: soc_i2c_status_t soc_i2c_stat(int unit)
Purpose: Return bus status code in enumerated type format.
Parameters:
  unit - StrataSwitch device number or I2C bus number

Returns:
  bus status code as enumerated type definition

Notes:
  This routine should be used in conjunction with soc_i2c_status_message

Function:char* soc_i2c_status_message(soc_i2c_status_t status)
Purpose: This routine decodes the current I2C bus status code and
    return human-readable bus status for last I2C operation
Returns: human readable character string telling what the
    current status of the I2C bus is, NULL on invalid status code.
Notes:
   See also: soc_i2c_stat (for getting current status value).

Server Management Bus (SMB) API Interface

The majority of I2C devices communicate using some form of SMB commands.
These commands consist of various protocol interactions between a host
chip and master I2C processor (the StrataSwitch family of switch chips).

Most devices use the SMBus (System Management Bus) protocol, which is
a subset of commands from the I2C protocol. Fortunately, many devices
use the same subset, which makes it possible to derive the following
SMBus operations/commands.

This module provides for SMB r/w byte and word commands based on
top of the bus driver module. Note that locking is performed in
this module, such that all drivers which use SMB commands are
automatically MT-safe.

When possible, please use the SMB commands for developing your I2C
device driver, as this will simplify debugging and development.

Below is a list of SMBus commands, all of the commands are based
on I2C protocol concepts.

Key to symbols
==========

S   (1 bit) : Start bit
P   (1 bit) : Stop bit
Rd/Wr (1 bit) : Read/Write bit. Rd equals 1, Wr equals 0.
A, NA (1 bit) : Accept and reverse accept bit.
Addr (7 bits): I2C 7 bit address. Note that this can be expanded
        as usual to get a 10 bit I2C address.
Comm (8 bits): Command byte, a data byte which often selects a register on

the device.
Data (8 bits): A plain data byte. Sometimes, I write DataLow, DataHigh
for 16 bit data.
Count (8 bits): A data byte containing the length of a block operation.

[..]: Data sent by I2C device, as opposed to data sent by the host adapter.

Function: int soc_i2c_write_byte(int unit, uint8 saddr, uint8 data)

Purpose: SMBus Write Quick/Byte

This sends a single byte to the device, at the place of the Rd/Wr bit.
There is no equivalent Read Quick command.

Algorithm: A Addr Rd/Wr [A] P

Parameters:
unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device-specific data value

Returns:
SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_read_word(int unit, uint8 saddr, uint16* value)

Purpose: SMBus Read Word

This reads a single word from the device. Some devices like to
perform split bus transaction; where a write byte command is
followed by a 16-bit read operation to fetch the last data
word from an action or state change which was performed by the
chip or device.

Algorithm: A Addr Rd [A] [Data] [A] [Data] NA P

Parameters:
unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.

value - 16 bit device-specific data value to read.

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function:int soc_i2c_read_byte_data(int unit, uint8 saddr,
uint8 com, uint8* value)
Purpose: SMBus read byte

This reads a single byte from a device, from a designated register.
The register is specified through the Comm byte.

Algorithm: S Addr Wr [A] Comm [A] S Addr Rd [A] [Data] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - address of where data byte should be stored

Returns: data byte in value parameter and one of the following:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_write_byte_data(int unit, uint8 saddr,
uint8 com, uint8 value)
Purpose: SMBus write byte

This writes a single byte to a device, to a designated register. The
register is specified through the Comm byte. This is the opposite of
the Read Byte Data command.

Algorithm: S Addr Wr [A] Comm [A] Data [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - data value to write

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function:int soc_i2c_read_word_data(int unit, uint8 saddr,
uint8 com, uint16* value)
Purpose: SMBus Read Word Data

This command is very like Read Byte Data; again, data is read from a device, from a designated register that is specified through the Comm byte. But this time, the data is a complete word (16 bits).

Algorithm: S Addr Wr [A] Comm [A] S Addr Rd [A] [DataLow] A [DataHigh] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - address where 16bit data value should be stored.

Returns: 16bit data value on success, and one of the following :

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function:int soc_i2c_write_word_data(int unit, uint8 saddr,
uint8 com, uint16 value)

Purpose: SMBus Write Word Data

This is the opposite operation of the Read Word Data command. 16 bits of data is read from a device, from a designated register that is specified through the Comm byte.

Algorithm: S Addr Wr [A] Comm [A] DataLow [A] DataHigh [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - 16 bit data value to write

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function: int soc_i2c_block_read(int unit, uint8 saddr,
uint8 com, uint8* count, uint8* data)

Purpose: SMBus Block Read

This command reads a block of upto 32 bytes from a device, from a designated register that is specified through the Comm byte. The amount of data is specified by the device in the Count byte.

Algorithm: S Addr Wr [A] Comm [A]
S Addr Rd [A] [Count] A [Data] A [Data] A ... A [Data] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
count - address where number of bytes read into data buff is stored.
data - address where data buffer should be stored.

Returns:
count - updated with the number of bytes successfullly read.

SOC_E_TIMEOUT - the device can not be contacted or is

offline, or the number of bytes specified
could not be read from the device.

SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function: int soc_i2c_block_write(int unit, uint8 saddr,
uint8 com, uint8 count, uint8* data)

Purpose: SMBus Block Write

The opposite of the Block Read command, this writes upto 32 bytes to
a device, to a designated register that is specified through the
Comm byte. The amount of data is specified in the Count byte.

Algorithm: S Addr Wr [A] Comm [A]
Count [A] Data [A] Data [A] ... [A] Data [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
count - number of bytes to write from data buff.
data - address of data to write (data buffer).

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is
offline, or the specified number of bytes
could not be written to the device.

SOC_E_NONE - no error, operation succeeded.

Notes:
None

I2C Device Driver Interface

I2C Device drivers are used by the system to identify a particular device
and provide for a high-level read/write or bulk data-transfer capability.

An I2C driver is a function vector with entry points for initialization of the slave device, read, write, and ioctl operations.

```
typedef int (*i2c_read_func_t)(int unit, int devno,
        uint16 addr, uint8* data, uint32* len);
typedef int (*i2c_write_func_t)(int unit, int devno,
   uint16 addr, uint8* data, uint32 len);
typedef int (*i2c_ioc_func_t)(int unit, int devno, int opcode,
       void* data, int len);
typedef int (*i2c_dev_init_func_t)(int unit, int devno,
      void* data, int len);
/*
* I2C Driver structure: definitions for managed device operations.
*/
typedef struct i2c_driver_s{
  uint8 flags;              /* Device flags */
  int devno;                /* Index into device descriptor table */
  uint32 id;                /* Device Serial No, GUID, or identifier */
  i2c_read_func_t     read;  /* Read routine */
  i2c_write_func_t    write; /* Write routine */
  i2c_ioc_func_t      ioctl; /* io control routine */
  i2c_dev_init_func_t load;  /* called once at startup */
} i2c_driver_t;

/*
* I2C Device Descriptor: One for every known device on the bus
*/
typedef struct i2c_dev_s{
  char devname[12];    /* Device name, eg. "eeprom0" */
  unsigned char saddr; /* Slave address */
  char desc[64];       /* Description */
  i2c_driver_t *driver;/* Driver routines */
  void* testdata;      /* Test data */
  int testlen;         /* Size of test data */
  uint32 tbyte;        /* Bytes transmitted */
  uint32 rbyte;        /* Bytes received */
  soc_i2c_bus_t *bus;  /* Bus device attached to */
} i2c_device_t;
```

Function: int soc_i2c_probe(int unit)

Purpose: Probe I2C devices on bus, report devices found.

This routine will walk through our internal I2C device driver tables, attempt to find the device on the I2C bus, and if successful, register a device driver for that device.

This allows for the device to be used in an API context as
when the devices are found, the device driver table is filled
with the correct entries for that device (r/w function, etc).

Parameters:
unit - StrataSwitch device number or I2C bus number

Return:
SOC_E_NONE - always returns with no errors.

Function:int soc_i2c_device_count(int unit)
Purpose: Report the number of devices registered
in the system. For now, this is the total number of devices
we have added to the statically defined device descriptor
array above.

Parameters:
unit - StrataSwitch device number or I2C bus number

Returns:
number of devices register in the system device table.

Notes: Currently, we do not support dynamic device loading.
Later, one will be able add a driver to the device table,
without the STATIC attribute.

Function: void soc_i2c_show(int unit)
Purpose: Show all valid devices and their attributes and
statistics.
Parameters:
unit - StrataSwitch device number or I2C bus number
Returns:
none
Notes:
none

Function: uint8 soc_i2c_addr(int unit, int devid)
Purpose: Return slave address of specified device.
Parameters:
unit - StrataSwitch device number or I2C bus number
devid - I2C device id returned from soc_i2c_devopen

Returns:
8-bit slave address of device

Notes:
  none

Function: const char* soc_i2c_devname(int unit, int devid)
Purpose: Return device name of specified device.
Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  character string name of device

Notes:
  none

Function: i2c_device_t* soc_i2c_device(int unit, int devid)
Purpose: Returns the device structure associated with the bus and
    device identifier.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  I2C device descriptor

Notes:
  none

Function: int soc_i2c_devtype(int unit, int devid)
Purpose: Return the device driver type, this is an integer value
    associated with the driver to determine ownership of the device.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  I2C device type code (from driver)

Notes:
  Every device should have a unique Device type indentifier.

I2C Device Driver Registration

I2C devices are added to the I2C device driver table (i2c_devices), along with their slave address, a string description, and their driver (if available).

```
COMPILER_STATIC i2c_device_t
i2c_devices[] = {
   {"nvram0", 0xa0, "Atmel 24C64 (64Kbit) Serial EEPROM #0",
    &eep24c64_driver, eep24c64_test_data, eep24c64_test_data_len,0,0},
   {"nvram1", 0xa8, "Atmel 24C64 (64Kbit) Serial EEPROM #1",
    &eep24c64_driver, eep24c64_test_data, eep24c64_test_data_len,0,0},
   {"lm75a", 0x90, "National LM75 Temperature Sensor A",
    &lm75_driver, NULL, 0,0,0},
   {"lm75b", 0x98, "National LM75 Temperature Sensor B",
    &lm75_driver, NULL, 0,0,0},
   {"adc0", 0x50, "Maxim MAX127 A/D Converter #0",
    &max127_driver, NULL, 0,0,0},
   {"pll0", 0xd2, "Cypress W229B Clock Chip #0",
    &w229b_driver, NULL, 0,0,0},
};
```

Add your device entry to this table, recompile, and attempt to probe for your device.

I2C API Interface

Applications should attempt to separate interface from implementation as much as possible and use the API calls to access their device; this will allow vendor-specific I2C device drivers to work with newer versions of the bus driver and I2C application framework.

```
Function: int bcm_i2c_open(int unit, char *devname,
                           uint32 flags, int speed)
```

Purpose: Open device, return valid file descriptor or -1 on error.

```
Parameters:
  unit - StrataSwitch device number or I2C bus number
  devname - I2C device name string
  flags - arguments to pass to attach, default value should be zero
  speed - I2C bus speed, if non-zero, this speed is configured, normally
          this argument should be zero unless a speed is desired.
Returns:
    device identifier for all I2C operations
```

Notes:
This routine should be called before attempting to communicate
with an I2C device which has a registered driver.
A valid driver with this device name must be installed in the system.

Function: int bcm_i2c_write(int unit, int fd, uint32 addr,
uint8 *data, uint32 nbytes)
Purpose: Write to a device
Parameters:
unit - StrataSwitch device number or I2C bus number
fd - I2C device ID
addr - device register or memory address
data - data byte buffer
nbytes - number of bytes of data

Returns:
Number of bytes written on success, -1 otherwise.

Notes:
This routine requires a driver.

Function: int bcm_i2c_read(int unit, int fd,
uint32 addr, uint8 *data, uint32nbytes)
Purpose: Read from a device
Parameters:
unit - StrataSwitch device number or I2C bus number
fd - I2C device ID
addr - device register or memory address
data - data byte buffer to read into
nbytes - number of bytes of data, updated on success.

Returns:
On success, number of bytes read; nbytes updated with number
of bytes read from device, -1 otherwise.

Notes:
This routine requires a driver.

Function: int bcm_i2c_ioctl(int unit, int fd, int opcode,
void *data, int len)
Purpose: Device specific I/O control

Parameters:
  unit - StrataSwitch device number or I2C bus number
  fd - I2C device ID
  opcode - device command code (device-specific).
  data - data byte buffer for command
  nbytes - number of bytes of data

Returns:
  On success, application specific value greater than zero,
  -1 otherwise.

Notes:
  This routine requires a driver.

Example I2C Driver: MAXIM MAX127

The MAX127 is a multi-range 12-bit D-A converter chip which provides for eight (8) analog input channels that are independently software programmable via I2C bus. On BCM956xx system boards, this device is used to measure the voltages on the board. The device uses a split transaction cycle where a bytes are written to the device and then a word is read back for the A/D conversion cycle. A byte conversion table for the operations is used to write to the device; each word value read back is interpreted and displayed.

The initialization routine simply prints out that it found the device.

```
COMPILER_STATIC int
max127_init(int unit, int devno,
    void* data, int len)

{
  soc_cm_print("%s/i2c%d/%s: MAX127 A/D Converter @0x%x\n",
  soc_dev_name(unit),unit,soc_i2c_devname(unit,devno),
  soc_i2c_addr(unit, devno));
  return SOC_E_NONE;
}
```

Since the A/D values are read-only, an ioctl style interface is chosen for the driver, whereby it's invocation will print the output of the A/D channels. Note that definition is static to preserve namespace and the the transmit and receive stats are incremented after each SMB transaction so that the "i2c show" command can report accurate stats for this device.

```
COMPILER_STATIC int
```

```
max127_ioctl(int unit, int devno,
      int opcode, void* data, int len)
{
   int i;
   uint16 val ;
   uint8 saddr = soc_i2c_addr(unit, devno);
   for(i = 0; i < N_MAX127_CHAN; i++){
 /* CHi start conversion, read back data */
 if(soc_i2c_write_byte(unit, saddr, max127_vals[i].cv) < 0){
     soc_cm_print("%s/i2c%d/%s: could not configure A/D channel%d\n",
    soc_dev_name(unit),unit,
    soc_i2c_devname(unit,devno),i);
 }
 soc_i2c_device(unit, devno)->tbyte++;

 /* Read back CHi conversion value */
 if(soc_i2c_read_word(unit, saddr, &val) < 0){
     soc_cm_print("%s/i2c%d/%s: could not read A/D channel%d\n",
    soc_dev_name(unit),unit,
    soc_i2c_devname(unit,devno),i);
 }
 soc_i2c_device(unit, devno)->rbyte += 2;

 soc_cm_print("\tCH%d=0x%2x/%.2f\n",
       i, val,
       max127_unipolar_value(val,max127_vals[i].r) );
   }
}
```

Define the MAX127 A-D converter driver callout. NOTE: both read and write routines are stubs which return SOC_E_NONE when invocated.

```
i2c_driver_t max127_driver = {
   0x0, 0x0, /* System assigned bytes */
   MAX127_DEVICE_TYPE,
   max127_read,
   max127_write,
   max127_ioctl,
   max127_init
};
```

Add the device to the i2c_devices[] array in devs.c:

```
   {"adc0", 0x50, "Maxim MAX127 A/D Converter #0",
    &max127_driver, NULL, 0,0,0},
```

In your program, open the device and perform ioctl operation.

```
  if ( (fd = bcm_i2c_open(unit, "adc0",0,0)) < 0) {
 printk("Could not open adc0:%s\n", bcm_errmsg(fd));
 return CMD_FAIL;
  }

  if ( (bcm_i2c_ioctl(unit, fd, 0, NULL, 0) < 0)) {
 printk("Error: failed to perform A/D conversions.\n");
  }
```

In BCM, this command can be invoked from the CLI via the ADC command:

```
BCM.0> adc show
      CH0=0x55/3.32
      CH1=0xc3/7.62
      CH2=0xec/4.61
      CH3=0x7f/2.48
      CH4=0xf1/4.71
      CH5=0x70/2.19
      CH6=0xb2/3.48
      CH7=0xbe/3.71
BCM.0>
```

BCM I2C User Commands

A number of commands are provided in the file diag/i2c_cmds.c; these commands allow for communication with I2C slave devices and for configuration and testing of the I2C bus. These commands are shown here for exemplary purposes, typing the name of the command with no arguments will provide help (where available).

I2C Command

```
BCM.0> i2c ?

Usage (I2C): Usages:
          i2c probe [pio|intr] [speed]
             - probe devices on I2C bus and build device tree.
               If "intr" or "pio" is specified, use that bus mode.
               If speed is specified, initialize the bus to that speed.
          i2c retries [count]
             - set number of handshake attempts.
          i2c log
             - show I2C bus transaction log.
```

```
        i2c backlog
            - show I2C bus transaction log (in reverse order).
        i2c clearlog
            - reset I2C bus transaction log.
        i2c reset
            - reset I2C bus controller core.
        i2c speeds
            - show supported I2C bus controller clock rates.
        i2c show
            - show devices found and the
```

The "i2c" command is used to probe the I2C bus, find all chips, load their drivers (if available), and show devices and their statistics. It can also be used to change the I2C clock speed and I2C ack retry count for finicky devices. In addition, a trace-buffer is provided with the log and backlog (backwards log).

```
BCM.0> i2c probe intr 75
soc_i2c_set_freq: i2c0 speed=75.00KHz (76800)
soc_i2c_set_freq: i2c0: just set M=8 N=1: 69.44KHz
BCM5605_A0/i2c0: mode=INTR speed=75Kbps slave_addr=0x44
BCM5605_A0/i2c0/adc0: MAX127 A/D Converter @0x50
BCM.0> adc show
    CH0=0x55/3.32
    CH1=0xc3/7.62
    CH2=0xec/4.61
    CH3=0x7f/2.48
    CH4=0xf1/4.71
    CH5=0x70/2.19
    CH6=0xb2/3.48
    CH7=0xbe/3.71
BCM.0>
```

NVRAM Command

```
BCM.0> nvram ?
Usages:
        nvram r [off] [nbytes]
            - show specified number of NVRAM bytes starting at offset.
        nvram w [off] [data]
            - write data byte to specified NVRAM offset.
```

The "nvram" command will use the BCM I2C API calls to open the device named "nvram" and allow reading and writing of bytes over I2C to the device. Note that the EEPROM driver will test all of NVRAM memory (64K) when it first sees the device and does not see a valid checksum in the first bytes of the NVRAM chip. Upon successful completion, the NVRAM

command will store a configuration block in the first page of EEPROM memory in the following format:

```
0                                31
+-------------------+-------------------+
|   Size            |   Type            |
+-------------------+-------------------+
| Name  (6 bytes)                       |
+-------------------+-------------------+
| Name (Continued)  |   Checksum        |
+-------------------+-------------------+
```

Note that the NVRAM (24C64 chip) can be used to test the I2C bus, by writing a 0 value to the checksum offset of the NVRAM, and then re-attaching to the I2C bus with a specified speed until the device starts issuing too many retries and becomes unresponsive and essentially falls off the bus.

One can test the bus with the eeprom and a variety of speeds and limit the number of timeouts before we giveup on trying to talk to the device by setting the retries threshold.

```
BCM.0> i2c ?
Usages:
        i2c probe [pio|intr]
          - probe devices on I2C bus and build device tree.
            If "intr" or "pio" is specified, use that bus mode.
        i2c retries [count]
          - set number of handshake attempts.
        i2c show
          - show devices found and their attributes.

BCM.0> i2c retries
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x80]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, ACK Received]
eep24c64_write(0,0,a200,128,24032): failed to gen start
64KB write took 10.13 sec 6.31KB/sec
    EEPROM error: write failed: I2C device timed out
    Reading 65536 bytes ...
```

```
64KB read took 6.72 sec 9.52KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> i2c retries 5
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM 65524 bytes cksum=0x71b7
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x0]
64KB write took 16.01 sec 4.00KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
64KB read took 6.72 sec 9.52KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p 150
soc_i2c_set_freq: i2c0 speed=150.00KHz (153600)
soc_i2c_set_freq: i2c0: just set M=8 N=0: 138.89KHz
BCM5680_A0/i2c0: mode=PIO speed=150Kbps slave_addr=0x44
BCM.0> nv w 1 0
Using NVRAM device: nvram0
eep24c64_write(0,0,1,0,-30): failed to gen start
Error: write of byte at 0x1 failed:I2C device timed out
BCM.0> i2c p p 150
soc_i2c_set_freq: i2c0 speed=150.00KHz (153600)
soc_i2c_set_freq: i2c0: just set M=8 N=0: 138.89KHz
BCM5680_A0/i2c0: mode=PIO speed=150Kbps slave_addr=0x44
BCM.0> nv w 1 0
Using NVRAM device: nvram0
eep24c64_write(0,0,1,0,-30): failed to gen start
Error: write of byte at 0x1 failed:I2C device timed out
BCM.0> i2c p p 100
soc_i2c_set_freq: i2c0 speed=100.00KHz (102400)
soc_i2c_set_freq: i2c0: just set M=12 N=0: 96.15KHz
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x80]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
```

```
64KB write took 18.38 sec 3.48KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
64KB read took 8.64 sec 7.40KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> i2c
BCM5680_A0/i2c0/nvram0 @0xa0 [Atmel 24C64 (64Kbit) Serial EEPROM #0]
nvram0: driver attached
    172684 bytes transmitted
    196668 bytes received
    Read@0x17ec74
    Write@0x17ec78
    Ioctl@0x17ec7c
    Load@0x17ec80
BCM.0> i2c retries 100
BCM.0> i2c p p 2000
soc_i2c_set_freq: i2c0 speed=1.95MHz (2048000)
soc_i2c_set_freq: i2c0: just set M=0 N=0: 1.25MHz
BCM5680_A0/i2c0: mode=PIO speed=2000Kbps slave_addr=0x44
BCM.0> nv w 0 1
Using NVRAM device: nvram0
eep24c64_write(0,0,0,1,1): failed to gen start
Error: write of byte at 0x0 failed:I2C device timed out
BCM.0> i2c p p 120
soc_i2c_set_freq: i2c0 speed=120.00KHz (122880)
soc_i2c_set_freq: i2c0: just set M=10 N=0: 113.64KHz
BCM5680_A0/i2c0: mode=PIO speed=120Kbps slave_addr=0x44
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM 65524 bytes cksum=0x71b7
BCM.0> nv w 0 1
Using NVRAM device: nvram0
BCM.0> i2c p p 120
soc_i2c_set_freq: i2c0 speed=120.00KHz (122880)
soc_i2c_set_freq: i2c0: just set M=10 N=0: 113.64KHz
BCM5680_A0/i2c0: mode=PIO speed=120Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x0]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, ACK Received]
```

```
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
64KB write took 11.52 sec 5.55KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
64KB read took 2.87 sec 22.30KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0>
```

From the data above, it looks like 120Khz is the fastest setting we can use with MPC8240 and the 24C64 in PIO mode. Note that since the driver is performing a lot of retries at this speed, 100Khz is probably optimal. Similar strategies can be employeed for debugging and tuning other devices.

Temperature

The Temperature command shows the temperature of the onboard LM75 environmental monitoring chips. These sensors are different for every baseboard configuration, refer to the users guide or schematics for your board configuration to determine the geographic location of the sensor chips on the platform.

For monitoring thermal conditions under stress testing, the temperature monitoring command can be useful.

```
BCM.0> temp
lm75#1: T=35.50C/95.90F, Tos = 50.00C, THist=60.00C
lm75#2: T=34.00C/93.20F, Tos = 50.00C, THist=60.00C
BCM.0> temp ?
Usage (Temperature): Usages:
        temperature [show]
          - show current temperature on all devices.
        temperature [watch|nowatch] [delay]
          - monitor temperatures in background, reporting changes.

BCM.0>
```

ADC

The ADC command shows the output of the onboard MAX127 A/D converters. The use of the A/D circuitry varies by platform, see the schematics for more information on this circuitry.

```
BCM.0> adc show
Usage (ADC): Usages:
        adc show num
           - show MAX127 A/D Conversions (num = 0,1).
        adc samples num
           - set MAX127 A/D Conversions sample count.

BCM.0>
```

Clocks Command

The clocks command allows configuration of a W311 or W229b clock chip generator (usually for core-clock speeds). To enable the driver to communicate with newer W311 style devices, use the "w311mode" setting. If you are unsure of what clock chip, consult the schematics for your platform.

```
BCM.0> clocks ?
Usage (CLOCKS): Usages:
        clocks w311mode
           - enable Cypress W311 clock chip driver mode.
        clocks [speed]
           - set BCM56xx core clock speed.

BCM.0>
```

Known Issues

This driver supports master-mode only at this time. Currently, slave mode is supported only in HW. Mixed modes may be supported in the future, however, an application which uses them has not been envisioned yet.

When soc_i2c_attach is invoked, the bus driver programs every PCI chip with a new slave address based on the algorithm: addr = 0x44 (Default) * pci_devid * 4, hence each I2C bus will have a unique slave address at a multiple of 4, and multiple PCI bus-controller chips is possible in multi-switch systems.

Note: The I2C controller will automatically enter slave transmit mode if it receives it's own Slave address with the read bit set.
Similarly, the I2C controller will automatically enter slave receive mode if it receives it's own slave address and the write bit, or the general call address. The implication is that, at the time of this writing, you cannot have two masters with the same slave address or

use the General call address while one of the chips is an I2C master.

References

- StrataSwitch Register Reference (BCM56xx), Broadcom Corporation
  http:/www.broadcom.com/
- The I2C Bus Specification : Version 2.1, Phillips Semiconductor
- PCF8574 DataSheet, Phillips Semiconductor
  http://www.semiconductors.philips.com/i2c/
- LM75 Databook, National Semiconductor
  http://www.national.com/
- 24C64 64K I2C EEPROM Data Sheet, Atmel Corporation
  http://www.atmel.com/
- MAX127 A/D Converter, Dallas/MAXIM Semiconductor
  http://www.maxim-ic.com/
- W229b Clock Generator Databook, Cypress Semiconductor
- W311 Clock Generator Databook, Cypress Semiconductor
- CY2239x Clock Generator Databook, Cypress Semiconductor
  http://www.cypress.com/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/i2c.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.48 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_mgmt.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_mgmt.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_ingress_packet_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* Misc useful routines to access NIC local SROM/OTP .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmsrom.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon2_madura_fields.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                                       *
*  Description   :  Register access macros for FALCON2_MADURA                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTConsole.c,v 1.5 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: oam.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/oam.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ipsec.c
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Ipsec
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/ipsec.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: socdiag.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/socdiag.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/socdiag.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/socdiag.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE LINK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/link.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon_furia_debug_functions.h 1020 2015-04-27 14:20:30Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_qax_multicast_imp.h,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_multicast_imp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: soc_dnxf_implementation_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_config_imp_defs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpFourBitEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpFourBitEntry.c
No license file was found, but licenses were detected in source scan.

/*
* BCM47XX support code for some chipcommon facilities (uart, jtagm)

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndchipc.c,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndchipc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_conv.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* FILENAME:       dnx_sand_conv.h
*
* AUTHOR:         Dune (Y.P.)
*
* FILE DESCRIPTION:
*   DNX_SAND units conversion module
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_conv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF warm_boot
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_warm_boot.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: tmu_config.h,v $
*
* TMU configuration defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/tmu_config.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv6.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       portctrl.h
* Purpose:     SDK SOC Port Control Glue Layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/portctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: control.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Control
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/control.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_arp_traps.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_arp_traps.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fp_tb.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/thunderbolt/fp_tb.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

* File: cint_l2_auth.c
* Purpose: Example of SA Authentication
*
* Calling sequence:
*  1. Create vlan for basic bridging and modify SA Authentication trap strength
*       - Call bcm_vlan_create() and bcm_vlan_port_add()
*       - Call bcm_rx_trap_set()
*  2. Enable SA Authentication per port and Add SA Authentication information to port 1
*       - Call bcm_vlan_control_port_set()
*       - Call bcm_switch_control_port_set()
```

```
*       - Call bcm_l2_auth_add() with following flags:
*          BCM_L2_AUTH_CHECK_IN_PORT | BCM_L2_AUTH_CHECK_VLAN |
BCM_L2_AUTH_PERMIT_TAGGED_ONLY;
*  3. Get SA Authentication information by Source Mac Address
*       - Call bcm_l2_auth_get()
*  4. Traverse the lem table to get the SA Authentication information
*       - Call bcm_l2_auth_traverse()
*  5. Delete the SA Authentication information by bcm_l2_auth_delete
*       - Call bcm_l2_auth_delete()
*  6. Add SA Authentication information to port 1 once again.
*       - Call bcm_l2_auth_add()
*  7. Delete the SA Authentication information by bcm_l2_auth_delete_all
*       - Call bcm_l2_auth_delete_all()
*  8. Disable SA Authentication per port.
*       - Call bcm_vlan_control_port_set()
*       - Call bcm_switch_control_port_set()
*
* Traffic:
*  The information about Authenticated SA
*         -   SA 00:00:00:00:00:05
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*         -   PORT 1
*
*  Flooding (sending packet with the Authenticated SA):
*     -   Send Ethernet packet with the Authenticated SA to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*     -   Packet is flooded (as DA is not known and SA is Authenticated).
*
* Trapping
*     -   Send Ethernet packet with the unAuthenticated SA to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   Untagged
*     -   Packet is trapped (as packet is untagged).
*
*     -   Send Ethernet packet with the unAuthenticated SA to port 1:
*         -   SA 00:00:00:00:00:08
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*     -   Packet is trapped (as mac address is unAuthenticated).
*
*     -   Send Ethernet packet with the unAuthenticated SA to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =1
*     -   Packet is trapped (as vid is unAuthenticated).
```

```
*
*     -   Send Ethernet packet with the Authenticated SA to port 2:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*     -   Packet is trapped (as port is unAuthenticated).
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_l2_auth.c
*     BCM> cint
*     cint> l2_auth_run_with_defaults(unit, mac_lsb, vlan, src_port, dst_port);
* Note: In ARAD-A0 Permit-All-Ports is not supported. (SA Auth is per port only)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmblackholexpt.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/blackholexpt/nlmblackholexpt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpPortTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpPortTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_mpls_speculative_parse.c, Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_mpls_speculative_parse.c
* Purpose: Example for utilizing the field APIs to filter all packets that are IPv4/6 over MPLS.
*         This is used as a proof of concept for speculative parsing of headers over MPLS.
```

```
*
*
*
* CINT usage:
*  *   Call mpls_lsr_run_with_defaults_multi_device from cint_mpls_lsr.c
*  *   Call lsr_filter_non_tcp_udp.
*  *   IPv4/6 over MPLS packets should now be filtered.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mpls_speculative_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blackbird_service.c,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird/blackbird_service.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_encap_access.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_encap_access.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_egr_queuing.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_egr_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
*   Copyright 2003, Broadcom Corporation
*   All Rights Reserved.
*
*   Broadcom BCM56218 SOC Internal Core
*   and MIPS3301 (R4K) System Address Space
*
*   $Id: bcm56218.h,v 1.3 2007/10/08 22:31:11 iakramov Exp $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bcm56218.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    subport.c
* Purpose: Triumph SUBPORT functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: gmac_common.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/gmac_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   general include files

File Name:
   ag_types.h

File Description:
   contains the basic data types of the AG.

$Revision: 1.1.2.1 $  - Visual SourceSafe automatic revision number

History:
   Date          Name          Comment
   ----          ----          -------
   3/7/00        Gadi Admoni    initial version
   22/1/00       Gadi Admoni    Added AG_ to all types.
                 Yaeli Karni    Add sleep mode (ARM option) to sys global
   22/1/02       Yaeli Karni    Add base-mode to sys-global with relevant enum
   06/02/02      Yaeli Karni    Add RX100 System Messages.
                                change AgSysGlobals - to allocate the partition info
                                as part of the structure.
   24/06/02  Yaeli Karni  add AG_PC_PROG support for UI/PC programs which
        dont need RTOS.
        Add general character string pointer structure for
        support of const char definition in ARM
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_types.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: falcon2_dino_enum.h 1400 2016-04-14 06:27:04Z cvazquez $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                      *
*                                                        *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_enum.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_hashtable.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_hashtable.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_hashtable.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_skt.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_skt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.h
* Purpose:     Register/memory field descriptions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BagEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0BagEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: netio.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FTP/RSH Module
*
* Abstracts VxWorks FTP and RSH modules to look like ordinary file I/O.
*
* Permissible filename syntaxes are:
*
* user%pass@host:file
* user@host:file
* host:file
* file
*
* If user or host is missing, the defaults are used and are required.
*
* If the user given is "tftp" and the password is blank, then tftp is used.
* If no password is given and there is no default password, RSH is
* used; otherwise, FTP is used.
*
* Bug: For RSH, errors cannot be detected easily.  If an error occurs
* while opening a file for reading or writing, the open succeeds.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/netio.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: vswitch.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vswitch.h
* Purpose:     Vswitch internal definitions
*              specific to FE2000 BCM API implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/vswitch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: m85xxTimer.c,v 1.2 2011/07/21 16:14:17 yshtil Exp $
*******************************************************************************
  This source and object code has been made available to you by IBM on an
  AS-IS basis.

  IT IS PROVIDED WITHOUT WARRANTY OF ANY KIND, INCLUDING THE WARRANTIES OF
  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR OF NONINFRINGEMENT
  OF THIRD PARTY RIGHTS.  IN NO EVENT SHALL IBM OR ITS LICENSORS BE LIABLE
  FOR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES.  IBMS OR ITS LICENSORS
  DAMAGES FOR ANY CAUSE OF ACTION, WHETHER IN CONTRACT OR IN TORT, AT LAW OR
  AT EQUITY, SHALL BE LIMITED TO A MAXIMUM OF $1,000 PER LICENSE.  No license
  under IBM patents or patent applications is to be implied by the copyright
  license.

  Any user of this software should understand that neither IBM nor its
  licensors will be responsible for any consequences resulting from the use
  of this software.

  Any person who transfers this source code or any derivative work must
  include the IBM copyright notice, this paragraph, and the preceding two
  paragraphs in the transferred software.

  Any person who transfers this object code or any derivative work must
  include the IBM copyright notice in the transferred software.

  COPYRIGHT   I B M   CORPORATION 2000
  LICENSED MATERIAL  -  PROGRAM PROPERTY OF  I B M"

*******************************************************************************
\NOMANUAL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/gto/mpc8548/vxworks-6.5/m85xxTimer.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_general.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_general.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc

echo "there are 917 more memories to test.";echo "tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ";tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max;echo 'done';
echo "there are 916 more memories to test.";echo "tr 50 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min IE=max ";tr 50 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min IE=max;echo 'done';
echo "there are 915 more memories to test.";echo "tr 50 M=BCAST_BLOCK_MASK IS=min IE=max ";tr 50 M=BCAST_BLOCK_MASK IS=min IE=max;echo 'done';
#echo "there are 914 more memories to test.";echo "tr 50 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ";tr 50 M=CLPORT_WC_UCMEM_DATA IS=min IE=max;echo 'done';
echo "there are 913 more memories to test.";echo "tr 50 M=PORT_COS_MAP IS=min IE=max ";tr 50 M=PORT_COS_MAP IS=min IE=max;echo 'done';
echo "there are 912 more memories to test.";echo "tr 50 M=COS_MAP_SEL IS=min IE=max ";tr 50 M=COS_MAP_SEL IS=min IE=max;echo 'done';
echo "there are 911 more memories to test.";echo "tr 50 M=CPU_COS_MAP IS=min IE=max ";tr 50 M=CPU_COS_MAP IS=min IE=max;echo 'done';
echo "there are 910 more memories to test.";echo "tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ";tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 909 more memories to test.";echo "tr 50 M=CPU_COS_MAP_ONLY IS=min IE=max ";tr 50 M=CPU_COS_MAP_ONLY IS=min IE=max;echo 'done';
echo "there are 908 more memories to test.";echo "tr 50 M=CPU_PBM IS=min IE=max ";tr 50 M=CPU_PBM IS=min IE=max;echo 'done';
echo "there are 907 more memories to test.";echo "tr 50 M=CPU_PBM_2 IS=min IE=max ";tr 50 M=CPU_PBM_2 IS=min IE=max;echo 'done';
echo "there are 906 more memories to test.";echo "tr 50 M=CPU_TS_MAP IS=min IE=max ";tr 50 M=CPU_TS_MAP IS=min IE=max;echo 'done';
```

```
#echo "there are 905 more memories to test.";echo "tr 50 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max
";tr 50 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max;echo 'done';
#echo "there are 904 more memories to test.";echo "tr 50 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max
";tr 50 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max;echo 'done';
#echo "there are 903 more memories to test.";echo "tr 50 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max
";tr 50 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max;echo 'done';
echo "there are 902 more memories to test.";echo "tr 50 M=DEST_TRUNK_BITMAP IS=min IE=max ";tr 50
M=DEST_TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 901 more memories to test.";echo "tr 50 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ";tr 50 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 900 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET IS=min IE=max ";tr 50
M=DLB_HGT_FLOWSET IS=min IE=max;echo 'done';
echo "there are 899 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
IE=max ";tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=max;echo 'done';
echo "there are 898 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_CONTROL IS=min IE=max ";tr
50 M=DLB_HGT_GROUP_CONTROL IS=min IE=max;echo 'done';
echo "there are 897 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max
";tr 50 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 896 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_STATS IS=min IE=max ";tr 50
M=DLB_HGT_GROUP_STATS IS=min IE=max;echo 'done';
echo "there are 895 more memories to test.";echo "tr 50 M=DLB_HGT_HIST_LOAD IS=min IE=max ";tr 50
M=DLB_HGT_HIST_LOAD IS=min IE=max;echo 'done';
echo "there are 894 more memories to test.";echo "tr 50 M=DLB_HGT_INST_LOAD IS=min IE=max ";tr 50
M=DLB_HGT_INST_LOAD IS=min IE=max;echo 'done';
echo "there are 893 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max
";tr 50 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max;echo 'done';
echo "there are 892 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_STATUS IS=min IE=max ";tr
50 M=DLB_HGT_MEMBER_STATUS IS=min IE=max;echo 'done';
echo "there are 891 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=max
";tr 50 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=max;echo 'done';
echo "there are 890 more memories to test.";echo "tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max
";tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max;echo 'done';
echo "there are 889 more memories to test.";echo "tr 50 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=max ";tr 50 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=max;echo 'done';
echo "there are 888 more memories to test.";echo "tr 50 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max
";tr 50 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max;echo 'done';
echo "there are 887 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max
";tr 50 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max;echo 'done';
echo "there are 886 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max ";tr
50 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max;echo 'done';
echo "there are 885 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_RESULT IS=min IE=max ";tr
50 M=DLB_HGT_QUALITY_RESULT IS=min IE=max;echo 'done';
echo "there are 884 more memories to test.";echo "tr 50 M=DLB_HGT_RR_SELECTION_POINTER IS=min
IE=max ";tr 50 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=max;echo 'done';
echo "there are 883 more memories to test.";echo "tr 50 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=max ";tr
50 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=max;echo 'done';
echo "there are 882 more memories to test.";echo "tr 50 M=DOP_EFPPARS_OUTBUS_0 IS=min IE=max ";tr 50
M=DOP_EFPPARS_OUTBUS_0 IS=min IE=max;echo 'done';
```

```
echo "there are 881 more memories to test.";echo "tr 50 M=DOP_EFPPARS_OUTBUS_1 IS=min IE=max ";tr 50
M=DOP_EFPPARS_OUTBUS_1 IS=min IE=max;echo 'done';
echo "there are 880 more memories to test.";echo "tr 50 M=DOP_EFPPARS_OUTBUS_2 IS=min IE=max ";tr 50
M=DOP_EFPPARS_OUTBUS_2 IS=min IE=max;echo 'done';
echo "there are 879 more memories to test.";echo "tr 50 M=DOP_EFPPARS_OUTBUS_3 IS=min IE=max ";tr 50
M=DOP_EFPPARS_OUTBUS_3 IS=min IE=max;echo 'done';
echo "there are 878 more memories to test.";echo "tr 50 M=DOP_EFPPARS_OUTBUS_4 IS=min IE=max ";tr 50
M=DOP_EFPPARS_OUTBUS_4 IS=min IE=max;echo 'done';
echo "there are 877 more memories to test.";echo "tr 50 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min
IE=max ";tr 50 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min IE=max;echo 'done';
echo "there are 876 more memories to test.";echo "tr 50 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min
IE=max ";tr 50 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 875 more memories to test.";echo "tr 50 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min
IE=max ";tr 50 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 874 more memories to test.";echo "tr 50 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=max
";tr 50 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=max;echo 'done';
echo "there are 873 more memories to test.";echo "tr 50 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=max
";tr 50 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=max;echo 'done';
echo "there are 872 more memories to test.";echo "tr 50
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=max ";tr 50
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 871 more memories to test.";echo "tr 50 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=max ";tr 50 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=max;echo 'done';
echo "there are 870 more memories to test.";echo "tr 50 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0
IS=min IE=max ";tr 50 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 869 more memories to test.";echo "tr 50 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1
IS=min IE=max ";tr 50 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 868 more memories to test.";echo "tr 50 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min
IE=max ";tr 50 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min IE=max;echo 'done';
echo "there are 867 more memories to test.";echo "tr 50 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min
IE=max ";tr 50 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min IE=max;echo 'done';
echo "there are 866 more memories to test.";echo "tr 50 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min
IE=max ";tr 50 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min IE=max;echo 'done';
echo "there are 865 more memories to test.";echo "tr 50 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min
IE=max ";tr 50 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min IE=max;echo 'done';
echo "there are 864 more memories to test.";echo "tr 50 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 IS=min
IE=max ";tr 50 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 863 more memories to test.";echo "tr 50 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min
IE=max ";tr 50 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min IE=max;echo 'done';
echo "there are 862 more memories to test.";echo "tr 50
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=max ";tr 50
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 861 more memories to test.";echo "tr 50 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=max ";tr 50 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=max;echo 'done';
echo "there are 860 more memories to test.";echo "tr 50 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE
IS=min IE=max ";tr 50 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE IS=min IE=max;echo 'done';
echo "there are 859 more memories to test.";echo "tr 50 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min
IE=max ";tr 50 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min IE=max;echo 'done';
```

```
echo "there are 858 more memories to test.";echo "tr 50 M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max ";tr 50
M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max;echo 'done';
echo "there are 857 more memories to test.";echo "tr 50 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max ";tr
50 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max;echo 'done';
echo "there are 856 more memories to test.";echo "tr 50 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min
IE=max ";tr 50 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min IE=max;echo 'done';
echo "there are 855 more memories to test.";echo "tr 50 M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=max ";tr 50
M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=max;echo 'done';
echo "there are 854 more memories to test.";echo "tr 50 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=max ";tr
50 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 853 more memories to test.";echo "tr 50 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=max ";tr
50 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 852 more memories to test.";echo "tr 50 M=DOP_L2_ENTRY_KEY_0 IS=min IE=max ";tr 50
M=DOP_L2_ENTRY_KEY_0 IS=min IE=max;echo 'done';
echo "there are 851 more memories to test.";echo "tr 50 M=DOP_L2_ENTRY_KEY_1 IS=min IE=max ";tr 50
M=DOP_L2_ENTRY_KEY_1 IS=min IE=max;echo 'done';
echo "there are 850 more memories to test.";echo "tr 50 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=max ";tr
50 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 849 more memories to test.";echo "tr 50 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=max ";tr
50 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 848 more memories to test.";echo "tr 50 M=DOP_L3_ENTRY_KEY_0 IS=min IE=max ";tr 50
M=DOP_L3_ENTRY_KEY_0 IS=min IE=max;echo 'done';
echo "there are 847 more memories to test.";echo "tr 50 M=DOP_L3_ENTRY_KEY_1 IS=min IE=max ";tr 50
M=DOP_L3_ENTRY_KEY_1 IS=min IE=max;echo 'done';
echo "there are 846 more memories to test.";echo "tr 50 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=max
";tr 50 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 845 more memories to test.";echo "tr 50 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=max
";tr 50 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 844 more memories to test.";echo "tr 50 M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=max ";tr 50
M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=max;echo 'done';
echo "there are 843 more memories to test.";echo "tr 50 M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=max ";tr 50
M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=max;echo 'done';
echo "there are 842 more memories to test.";echo "tr 50 M=DOP_RTAG7_HASH_KEY IS=min IE=max ";tr 50
M=DOP_RTAG7_HASH_KEY IS=min IE=max;echo 'done';
echo "there are 841 more memories to test.";echo "tr 50 M=DOP_RTAG7_HASH_VALUE IS=min IE=max ";tr 50
M=DOP_RTAG7_HASH_VALUE IS=min IE=max;echo 'done';
echo "there are 840 more memories to test.";echo "tr 50 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=max ";tr
50 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=max;echo 'done';
echo "there are 839 more memories to test.";echo "tr 50 M=DOP_UDF_TCAM IS=min IE=max ";tr 50
M=DOP_UDF_TCAM IS=min IE=max;echo 'done';
echo "there are 838 more memories to test.";echo "tr 50 M=DOP_VFP_HIT_STATUS IS=min IE=max ";tr 50
M=DOP_VFP_HIT_STATUS IS=min IE=max;echo 'done';
echo "there are 837 more memories to test.";echo "tr 50 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=max
";tr 50 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=max;echo 'done';
echo "there are 836 more memories to test.";echo "tr 50 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=max
";tr 50 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=max;echo 'done';
echo "there are 835 more memories to test.";echo "tr 50 M=DOP_VLAN_XLATE_KEY_0 IS=min IE=max ";tr 50
M=DOP_VLAN_XLATE_KEY_0 IS=min IE=max;echo 'done';
```

```
echo "there are 834 more memories to test.";echo "tr 50 M=DOP_VLAN_XLATE_KEY_1 IS=min IE=max ";tr 50
M=DOP_VLAN_XLATE_KEY_1 IS=min IE=max;echo 'done';
echo "there are 833 more memories to test.";echo "tr 50 M=DROP_VECTOR_MASK IS=min IE=max ";tr 50
M=DROP_VECTOR_MASK IS=min IE=max;echo 'done';
echo "there are 832 more memories to test.";echo "tr 50 M=DSCP_TABLE IS=min IE=max ";tr 50
M=DSCP_TABLE IS=min IE=max;echo 'done';
echo "there are 831 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS IS=min IE=max ";tr 50
M=E2E_HOL_STATUS IS=min IE=max;echo 'done';
echo "there are 830 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS_1 IS=min IE=max ";tr 50
M=E2E_HOL_STATUS_1 IS=min IE=max;echo 'done';
echo "there are 829 more memories to test.";echo "tr 50 M=EFFECTIVE_PHB_SELECT IS=min IE=max ";tr 50
M=EFFECTIVE_PHB_SELECT IS=min IE=max;echo 'done';
echo "there are 828 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE IS=min IE=max ";tr 50
M=EFP_COUNTER_TABLE IS=min IE=max;echo 'done';
echo "there are 827 more memories to test.";echo "tr 50 M=EFP_METER_TABLE IS=min IE=max ";tr 50
M=EFP_METER_TABLE IS=min IE=max;echo 'done';
echo "there are 826 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE IS=min IE=max ";tr 50
M=EFP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 825 more memories to test.";echo "tr 50 M=EFP_TCAM IS=min IE=max ";tr 50 M=EFP_TCAM
IS=min IE=max;echo 'done';
echo "there are 824 more memories to test.";echo "tr 50 M=EGR_1588_SA IS=min IE=max ";tr 50
M=EGR_1588_SA IS=min IE=max;echo 'done';
echo "there are 823 more memories to test.";echo "tr 50 M=EGR_COUNTER_CONTROL IS=min IE=max ";tr 50
M=EGR_COUNTER_CONTROL IS=min IE=max;echo 'done';
echo "there are 822 more memories to test.";echo "tr 50 M=EGR_DGPP_TO_NHI IS=min IE=max ";tr 50
M=EGR_DGPP_TO_NHI IS=min IE=max;echo 'done';
echo "there are 821 more memories to test.";echo "tr 50 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max
";tr 50 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max;echo 'done';
echo "there are 820 more memories to test.";echo "tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=max ";tr 50
M=EGR_DSCP_ECN_MAP IS=min IE=max;echo 'done';
echo "there are 819 more memories to test.";echo "tr 50 M=EGR_DSCP_TABLE IS=min IE=max ";tr 50
M=EGR_DSCP_TABLE IS=min IE=max;echo 'done';
echo "there are 818 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE IS=min IE=max ";tr 50
M=EGR_DVP_ATTRIBUTE IS=min IE=max;echo 'done';
echo "there are 817 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ";tr 50
M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max;echo 'done';
echo "there are 816 more memories to test.";echo "tr 50 M=EGR_EDB_XMIT_CTRL IS=min IE=max ";tr 50
M=EGR_EDB_XMIT_CTRL IS=min IE=max;echo 'done';
echo "there are 815 more memories to test.";echo "tr 50 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max ";tr
50 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max;echo 'done';
echo "there are 814 more memories to test.";echo "tr 50 M=EGR_EM_MTP_INDEX IS=min IE=max ";tr 50
M=EGR_EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 813 more memories to test.";echo "tr 50 M=EGR_ENABLE IS=min IE=max ";tr 50
M=EGR_ENABLE IS=min IE=max;echo 'done';
echo "there are 812 more memories to test.";echo "tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min
IE=max ";tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 811 more memories to test.";echo "tr 50 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ";tr 50
M=EGR_ETAG_PCP_MAPPING IS=min IE=max;echo 'done';
```

```
echo "there are 810 more memories to test.";echo "tr 50 M=EGR_FCOE_CONTROL_1 IS=min IE=max ";tr 50
M=EGR_FCOE_CONTROL_1 IS=min IE=max;echo 'done';
echo "there are 809 more memories to test.";echo "tr 50 M=EGR_FC_HEADER_TYPE IS=min IE=max ";tr 50
M=EGR_FC_HEADER_TYPE IS=min IE=max;echo 'done';
echo "there are 808 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 807 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 806 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 805 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 804 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 803 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 802 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 801 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 800 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
";tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 799 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max
";tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max;echo 'done';
echo "there are 798 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ";tr 50
M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 797 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
";tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 796 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ";tr 50
M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max;echo 'done';
echo "there are 795 more memories to test.";echo "tr 50 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max ";tr
50 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max;echo 'done';
echo "there are 794 more memories to test.";echo "tr 50 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max ";tr
50 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max;echo 'done';
echo "there are 793 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ";tr 50
M=EGR_FRAGMENT_ID_TABLE IS=min IE=max;echo 'done';
echo "there are 792 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES IS=min IE=max ";tr 50
M=EGR_GPP_ATTRIBUTES IS=min IE=max;echo 'done';
echo "there are 791 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=max ";tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max;echo 'done';
echo "there are 790 more memories to test.";echo "tr 50 M=EGR_IM_MTP_INDEX IS=min IE=max ";tr 50
M=EGR_IM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 789 more memories to test.";echo "tr 50 M=EGR_ING_PORT IS=min IE=max ";tr 50
M=EGR_ING_PORT IS=min IE=max;echo 'done';
echo "there are 788 more memories to test.";echo "tr 50 M=EGR_IPMC IS=min IE=max ";tr 50 M=EGR_IPMC
IS=min IE=max;echo 'done';
echo "there are 787 more memories to test.";echo "tr 50 M=EGR_IPMC_CFG2 IS=min IE=max ";tr 50
M=EGR_IPMC_CFG2 IS=min IE=max;echo 'done';
```

```
echo "there are 786 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL IS=min IE=max;echo 'done';
echo "there are 785 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL_IPV6 IS=min IE=max;echo 'done';
echo "there are 784 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ";tr 50
M=EGR_IP_TUNNEL_MPLS IS=min IE=max;echo 'done';
echo "there are 783 more memories to test.";echo "tr 50 M=EGR_L3_INTF IS=min IE=max ";tr 50
M=EGR_L3_INTF IS=min IE=max;echo 'done';
echo "there are 782 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP IS=min IE=max ";tr 50
M=EGR_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 781 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP_1 IS=min IE=max ";tr 50
M=EGR_L3_NEXT_HOP_1 IS=min IE=max;echo 'done';
echo "there are 780 more memories to test.";echo "tr 50 M=EGR_LPORT_PROFILE IS=min IE=max ";tr 50
M=EGR_LPORT_PROFILE IS=min IE=max;echo 'done';
echo "there are 779 more memories to test.";echo "tr 50 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ";tr 50
M=EGR_MACDA_OUI_PROFILE IS=min IE=max;echo 'done';
echo "there are 778 more memories to test.";echo "tr 50 M=EGR_MAC_DA_PROFILE IS=min IE=max ";tr 50
M=EGR_MAC_DA_PROFILE IS=min IE=max;echo 'done';
echo "there are 777 more memories to test.";echo "tr 50 M=EGR_MAP_MH IS=min IE=max ";tr 50
M=EGR_MAP_MH IS=min IE=max;echo 'done';
echo "there are 776 more memories to test.";echo "tr 50 M=EGR_MASK IS=min IE=max ";tr 50 M=EGR_MASK
IS=min IE=max;echo 'done';
echo "there are 775 more memories to test.";echo "tr 50 M=EGR_MASK_MODBASE IS=min IE=max ";tr 50
M=EGR_MASK_MODBASE IS=min IE=max;echo 'done';
echo "there are 774 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
";tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max;echo 'done';
echo "there are 773 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max ";tr
50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max;echo 'done';
echo "there are 772 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max ";tr
50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max;echo 'done';
#echo "there are 771 more memories to test.";echo "tr 50 M=EGR_MMU_CREDIT_LIMIT IS=min IE=max ";tr 50
M=EGR_MMU_CREDIT_LIMIT IS=min IE=max;echo 'done';
echo "there are 770 more memories to test.";echo "tr 50 M=EGR_MOD_MAP_TABLE IS=min IE=max ";tr 50
M=EGR_MOD_MAP_TABLE IS=min IE=max;echo 'done';
echo "there are 769 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ";tr
50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max;echo 'done';
echo "there are 768 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ";tr
50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max;echo 'done';
echo "there are 767 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max ";tr
50 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max;echo 'done';
echo "there are 766 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
";tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 765 more memories to test.";echo "tr 50 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ";tr 50
M=EGR_MPLS_PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 764 more memories to test.";echo "tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ";tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max;echo 'done';
echo "there are 763 more memories to test.";echo "tr 50 M=EGR_MTU IS=min IE=max ";tr 50 M=EGR_MTU
IS=min IE=max;echo 'done';
```

```
echo "there are 762 more memories to test.";echo "tr 50 M=EGR_MULTICAST_MAC_ADDR IS=min IE=max ";tr
50 M=EGR_MULTICAST_MAC_ADDR IS=min IE=max;echo 'done';
echo "there are 761 more memories to test.";echo "tr 50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
";tr 50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max;echo 'done';
echo "there are 760 more memories to test.";echo "tr 50 M=EGR_NETWORK_PRUNE_CONTROL IS=min
IE=max ";tr 50 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=max;echo 'done';
echo "there are 759 more memories to test.";echo "tr 50 M=EGR_OLP_CONFIG_1 IS=min IE=max ";tr 50
M=EGR_OLP_CONFIG_1 IS=min IE=max;echo 'done';
echo "there are 758 more memories to test.";echo "tr 50 M=EGR_OLP_CONFIG_2 IS=min IE=max ";tr 50
M=EGR_OLP_CONFIG_2 IS=min IE=max;echo 'done';
echo "there are 757 more memories to test.";echo "tr 50 M=EGR_OLP_DGPP_CONFIG IS=min IE=max ";tr 50
M=EGR_OLP_DGPP_CONFIG IS=min IE=max;echo 'done';
echo "there are 756 more memories to test.";echo "tr 50 M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max ";tr 50
M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max;echo 'done';
echo "there are 755 more memories to test.";echo "tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min
IE=max ";tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=max;echo 'done';
echo "there are 754 more memories to test.";echo "tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min
IE=max ";tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min IE=max;echo 'done';
echo "there are 753 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ";tr
50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max;echo 'done';
echo "there are 752 more memories to test.";echo "tr 50 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=max ";tr 50 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=max;echo 'done';
echo "there are 751 more memories to test.";echo "tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ";tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max;echo 'done';
echo "there are 750 more memories to test.";echo "tr 50 M=EGR_PFC_CONTROL IS=min IE=max ";tr 50
M=EGR_PFC_CONTROL IS=min IE=max;echo 'done';
echo "there are 749 more memories to test.";echo "tr 50 M=EGR_PORT IS=min IE=max ";tr 50 M=EGR_PORT
IS=min IE=max;echo 'done';
echo "there are 748 more memories to test.";echo "tr 50 M=EGR_PORT_1 IS=min IE=max ";tr 50
M=EGR_PORT_1 IS=min IE=max;echo 'done';
echo "there are 747 more memories to test.";echo "tr 50 M=EGR_PORT_CREDIT_RESET IS=min IE=max ";tr 50
M=EGR_PORT_CREDIT_RESET IS=min IE=max;echo 'done';
echo "there are 746 more memories to test.";echo "tr 50 M=EGR_PRI_CNG_MAP IS=min IE=max ";tr 50
M=EGR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 745 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS IS=min IE=max ";tr 50
M=EGR_PW_INIT_COUNTERS IS=min IE=max;echo 'done';
echo "there are 744 more memories to test.";echo "tr 50 M=EGR_QCN_CNM_CONTROL_TABLE IS=min
IE=max ";tr 50 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=max;echo 'done';
#echo "there are 743 more memories to test.";echo "tr 50 M=EGR_SER_FIFO IS=min IE=max ";tr 50
M=EGR_SER_FIFO IS=min IE=max;echo 'done';
echo "there are 742 more memories to test.";echo "tr 50 M=EGR_SHAPING_CONTROL IS=min IE=max ";tr 50
M=EGR_SHAPING_CONTROL IS=min IE=max;echo 'done';
echo "there are 741 more memories to test.";echo "tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max
";tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max;echo 'done';
echo "there are 740 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max ";tr
50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 739 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max
";tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max;echo 'done';
```

```
echo "there are 738 more memories to test.";echo "tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=max ";tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max;echo 'done';
echo "there are 737 more memories to test.";echo "tr 50 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ";tr 50
M=EGR_TRILL_TREE_PROFILE IS=min IE=max;echo 'done';
echo "there are 736 more memories to test.";echo "tr 50 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max ";tr
50 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max;echo 'done';
echo "there are 735 more memories to test.";echo "tr 50 M=EGR_VFI IS=min IE=max ";tr 50 M=EGR_VFI IS=min
IE=max;echo 'done';
echo "there are 734 more memories to test.";echo "tr 50 M=EGR_VFT_FIELDS_PROFILE IS=min IE=max ";tr 50
M=EGR_VFT_FIELDS_PROFILE IS=min IE=max;echo 'done';
echo "there are 733 more memories to test.";echo "tr 50 M=EGR_VFT_PRI_MAP IS=min IE=max ";tr 50
M=EGR_VFT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 732 more memories to test.";echo "tr 50 M=EGR_VLAN IS=min IE=max ";tr 50 M=EGR_VLAN
IS=min IE=max;echo 'done';
echo "there are 731 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_1 IS=min IE=max ";tr 50
M=EGR_VLAN_CONTROL_1 IS=min IE=max;echo 'done';
echo "there are 730 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_2 IS=min IE=max ";tr 50
M=EGR_VLAN_CONTROL_2 IS=min IE=max;echo 'done';
echo "there are 729 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_3 IS=min IE=max ";tr 50
M=EGR_VLAN_CONTROL_3 IS=min IE=max;echo 'done';
echo "there are 728 more memories to test.";echo "tr 50 M=EGR_VLAN_STG IS=min IE=max ";tr 50
M=EGR_VLAN_STG IS=min IE=max;echo 'done';
echo "there are 727 more memories to test.";echo "tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ";tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 726 more memories to test.";echo "tr 50 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max ";tr
50 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 725 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE IS=min IE=max;echo 'done';
echo "there are 724 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_ECC IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE_ECC IS=min IE=max;echo 'done';
echo "there are 723 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_LP IS=min IE=max ";tr 50
M=EGR_VLAN_XLATE_LP IS=min IE=max;echo 'done';
echo "there are 722 more memories to test.";echo "tr 50 M=EGR_VPLAG_GROUP IS=min IE=max ";tr 50
M=EGR_VPLAG_GROUP IS=min IE=max;echo 'done';
echo "there are 721 more memories to test.";echo "tr 50 M=EGR_VPLAG_MEMBER IS=min IE=max ";tr 50
M=EGR_VPLAG_MEMBER IS=min IE=max;echo 'done';
echo "there are 720 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max ";tr
50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 719 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=max ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max;echo 'done';
echo "there are 718 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max;echo 'done';
echo "there are 717 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max;echo 'done';
echo "there are 716 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max;echo 'done';
echo "there are 715 more memories to test.";echo "tr 50 M=EGR_VSAN_INTPRI_MAP IS=min IE=max ";tr 50
M=EGR_VSAN_INTPRI_MAP IS=min IE=max;echo 'done';
```

```
echo "there are 714 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL IS=min IE=max ";tr 50
M=EMIRROR_CONTROL IS=min IE=max;echo 'done';
echo "there are 713 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL1 IS=min IE=max ";tr 50
M=EMIRROR_CONTROL1 IS=min IE=max;echo 'done';
echo "there are 712 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL2 IS=min IE=max ";tr 50
M=EMIRROR_CONTROL2 IS=min IE=max;echo 'done';
echo "there are 711 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL3 IS=min IE=max ";tr 50
M=EMIRROR_CONTROL3 IS=min IE=max;echo 'done';
echo "there are 710 more memories to test.";echo "tr 50 M=EM_MTP_INDEX IS=min IE=max ";tr 50
M=EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 709 more memories to test.";echo "tr 50 M=ENDPOINT_COS_MAP IS=min IE=max ";tr 50
M=ENDPOINT_COS_MAP IS=min IE=max;echo 'done';
echo "there are 708 more memories to test.";echo "tr 50 M=ENDPOINT_QUEUE_MAP IS=min IE=max ";tr 50
M=ENDPOINT_QUEUE_MAP IS=min IE=max;echo 'done';
echo "there are 707 more memories to test.";echo "tr 50 M=EPC_LINK_BMAP IS=min IE=max ";tr 50
M=EPC_LINK_BMAP IS=min IE=max;echo 'done';
echo "there are 706 more memories to test.";echo "tr 50 M=EP_CTC_RES_TABLE IS=min IE=max ";tr 50
M=EP_CTC_RES_TABLE IS=min IE=max;echo 'done';
echo "there are 705 more memories to test.";echo "tr 50 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max
";tr 50 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 704 more memories to test.";echo "tr 50 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max ";tr 50
M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 703 more memories to test.";echo "tr 50 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max ";tr 50
M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 702 more memories to test.";echo "tr 50 M=EXT_TM_MANAGED_PORT IS=min IE=max ";tr 50
M=EXT_TM_MANAGED_PORT IS=min IE=max;echo 'done';
echo "there are 701 more memories to test.";echo "tr 50 M=FCOE_HOP_COUNT_FN IS=min IE=max ";tr 50
M=FCOE_HOP_COUNT_FN IS=min IE=max;echo 'done';
echo "there are 700 more memories to test.";echo "tr 50 M=FC_MAP_PROFILE IS=min IE=max ";tr 50
M=FC_MAP_PROFILE IS=min IE=max;echo 'done';
echo "there are 699 more memories to test.";echo "tr 50 M=FP_COUNTER_TABLE IS=min IE=max ";tr 50
M=FP_COUNTER_TABLE IS=min IE=max;echo 'done';
#echo "there are 698 more memories to test.";echo "tr 50 M=FP_GLOBAL_MASK_TCAM IS=min IE=max ";tr 50
M=FP_GLOBAL_MASK_TCAM IS=min IE=max;echo 'done';
echo "there are 697 more memories to test.";echo "tr 50 M=FP_GM_FIELDS IS=min IE=max ";tr 50
M=FP_GM_FIELDS IS=min IE=max;echo 'done';
echo "there are 696 more memories to test.";echo "tr 50 M=FP_HG_CLASSID_SELECT IS=min IE=max ";tr 50
M=FP_HG_CLASSID_SELECT IS=min IE=max;echo 'done';
echo "there are 695 more memories to test.";echo "tr 50 M=FP_I2E_CLASSID_SELECT IS=min IE=max ";tr 50
M=FP_I2E_CLASSID_SELECT IS=min IE=max;echo 'done';
echo "there are 694 more memories to test.";echo "tr 50 M=FP_METER_CONTROL IS=min IE=max ";tr 50
M=FP_METER_CONTROL IS=min IE=max;echo 'done';
echo "there are 693 more memories to test.";echo "tr 50 M=FP_METER_TABLE IS=min IE=max ";tr 50
M=FP_METER_TABLE IS=min IE=max;echo 'done';
echo "there are 692 more memories to test.";echo "tr 50 M=FP_POLICY_TABLE IS=min IE=max ";tr 50
M=FP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 691 more memories to test.";echo "tr 50 M=FP_PORT_FIELD_SEL IS=min IE=max ";tr 50
M=FP_PORT_FIELD_SEL IS=min IE=max;echo 'done';
```

```
echo "there are 690 more memories to test.";echo "tr 50 M=FP_PORT_METER_MAP IS=min IE=max ";tr 50
M=FP_PORT_METER_MAP IS=min IE=max;echo 'done';
echo "there are 689 more memories to test.";echo "tr 50 M=FP_RANGE_CHECK IS=min IE=max ";tr 50
M=FP_RANGE_CHECK IS=min IE=max;echo 'done';
echo "there are 688 more memories to test.";echo "tr 50 M=FP_SLICE_KEY_CONTROL IS=min IE=max ";tr 50
M=FP_SLICE_KEY_CONTROL IS=min IE=max;echo 'done';
echo "there are 687 more memories to test.";echo "tr 50 M=FP_SLICE_MAP IS=min IE=max ";tr 50
M=FP_SLICE_MAP IS=min IE=max;echo 'done';
echo "there are 686 more memories to test.";echo "tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=max
";tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=max;echo 'done';
echo "there are 685 more memories to test.";echo "tr 50 M=FP_TCAM IS=min IE=max ";tr 50 M=FP_TCAM
IS=min IE=max;echo 'done';
echo "there are 684 more memories to test.";echo "tr 50 M=GTP_PORT_TABLE IS=min IE=max ";tr 50
M=GTP_PORT_TABLE IS=min IE=max;echo 'done';
echo "there are 683 more memories to test.";echo "tr 50 M=HG_TRUNK_BITMAP IS=min IE=max ";tr 50
M=HG_TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 682 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max
";tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max;echo 'done';
echo "there are 681 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ";tr 50
M=HG_TRUNK_FAILOVER_SET IS=min IE=max;echo 'done';
echo "there are 680 more memories to test.";echo "tr 50 M=HG_TRUNK_GROUP IS=min IE=max ";tr 50
M=HG_TRUNK_GROUP IS=min IE=max;echo 'done';
echo "there are 679 more memories to test.";echo "tr 50 M=HG_TRUNK_MEMBER IS=min IE=max ";tr 50
M=HG_TRUNK_MEMBER IS=min IE=max;echo 'done';
echo "there are 678 more memories to test.";echo "tr 50 M=HIGIG_TRUNK_CONTROL IS=min IE=max ";tr 50
M=HIGIG_TRUNK_CONTROL IS=min IE=max;echo 'done';
echo "there are 677 more memories to test.";echo "tr 50 M=IARB_ING_PORT_TABLE IS=min IE=max ";tr 50
M=IARB_ING_PORT_TABLE IS=min IE=max;echo 'done';
echo "there are 676 more memories to test.";echo "tr 50 M=IARB_MAIN_TDM IS=min IE=max ";tr 50
M=IARB_MAIN_TDM IS=min IE=max;echo 'done';
echo "there are 675 more memories to test.";echo "tr 50 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ";tr
50 M=ICONTROL_OPCODE_BITMAP IS=min IE=max;echo 'done';
echo "there are 674 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 673 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 672 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 671 more memories to test.";echo "tr 50 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 670 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 669 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 668 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 667 more memories to test.";echo "tr 50 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
```

```
echo "there are 666 more memories to test.";echo "tr 50 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 665 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 664 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 663 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 662 more memories to test.";echo "tr 50 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 661 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 660 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 659 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 658 more memories to test.";echo "tr 50 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 657 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 656 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 655 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 654 more memories to test.";echo "tr 50 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 653 more memories to test.";echo "tr 50 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 652 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 651 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 650 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 649 more memories to test.";echo "tr 50 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 648 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 647 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 646 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 645 more memories to test.";echo "tr 50 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 644 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 643 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
```

```
echo "there are 642 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 641 more memories to test.";echo "tr 50 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 640 more memories to test.";echo "tr 50 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 639 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 638 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 637 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 636 more memories to test.";echo "tr 50 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 635 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 634 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 633 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 632 more memories to test.";echo "tr 50 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 631 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 630 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 629 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 628 more memories to test.";echo "tr 50 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 627 more memories to test.";echo "tr 50 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 626 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 625 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 624 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 623 more memories to test.";echo "tr 50 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 622 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 621 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 620 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 619 more memories to test.";echo "tr 50 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
```

```
echo "there are 618 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 617 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 616 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 615 more memories to test.";echo "tr 50 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 614 more memories to test.";echo "tr 50 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 613 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 612 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 611 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 610 more memories to test.";echo "tr 50 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 609 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 608 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 607 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 606 more memories to test.";echo "tr 50 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 605 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 604 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 603 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 602 more memories to test.";echo "tr 50 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 601 more memories to test.";echo "tr 50 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 600 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 599 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 598 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 597 more memories to test.";echo "tr 50 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 596 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 595 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
```

```
echo "there are 594 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 593 more memories to test.";echo "tr 50 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 592 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 591 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 590 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 589 more memories to test.";echo "tr 50 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 588 more memories to test.";echo "tr 50 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 587 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 586 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 585 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 584 more memories to test.";echo "tr 50 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 583 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 582 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 581 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 580 more memories to test.";echo "tr 50 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 579 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 578 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 577 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 576 more memories to test.";echo "tr 50 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 575 more memories to test.";echo "tr 50 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 574 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 573 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 572 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 571 more memories to test.";echo "tr 50 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
```

```
echo "there are 570 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 569 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 568 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 567 more memories to test.";echo "tr 50 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 566 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max ";tr
50 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 565 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max ";tr
50 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 564 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max ";tr
50 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 563 more memories to test.";echo "tr 50 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max ";tr
50 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 562 more memories to test.";echo "tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ";tr 50 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=max;echo 'done';
echo "there are 561 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max ";tr 50
M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max;echo 'done';
echo "there are 560 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max ";tr 50
M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max;echo 'done';
echo "there are 559 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max ";tr 50
M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max;echo 'done';
echo "there are 558 more memories to test.";echo "tr 50 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max ";tr 50
M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max;echo 'done';
echo "there are 557 more memories to test.";echo "tr 50 M=IFP_COS_MAP IS=min IE=max ";tr 50
M=IFP_COS_MAP IS=min IE=max;echo 'done';
echo "there are 556 more memories to test.";echo "tr 50 M=IFP_REDIRECTION_PROFILE IS=min IE=max ";tr 50
M=IFP_REDIRECTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 555 more memories to test.";echo "tr 50 M=IMIRROR_BITMAP IS=min IE=max ";tr 50
M=IMIRROR_BITMAP IS=min IE=max;echo 'done';
echo "there are 554 more memories to test.";echo "tr 50 M=IM_MTP_INDEX IS=min IE=max ";tr 50
M=IM_MTP_INDEX IS=min IE=max;echo 'done';
echo "there are 553 more memories to test.";echo "tr 50 M=ING_1588_INGRESS_CTRL IS=min IE=max ";tr 50
M=ING_1588_INGRESS_CTRL IS=min IE=max;echo 'done';
echo "there are 552 more memories to test.";echo "tr 50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ";tr
50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max;echo 'done';
echo "there are 551 more memories to test.";echo "tr 50 M=ING_DEST_PORT_ENABLE IS=min IE=max ";tr 50
M=ING_DEST_PORT_ENABLE IS=min IE=max;echo 'done';
echo "there are 550 more memories to test.";echo "tr 50 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ";tr 50
M=ING_DNAT_ADDRESS_TYPE IS=min IE=max;echo 'done';
echo "there are 549 more memories to test.";echo "tr 50 M=ING_DVP_2_TABLE IS=min IE=max ";tr 50
M=ING_DVP_2_TABLE IS=min IE=max;echo 'done';
echo "there are 548 more memories to test.";echo "tr 50 M=ING_DVP_TABLE IS=min IE=max ";tr 50
M=ING_DVP_TABLE IS=min IE=max;echo 'done';
echo "there are 547 more memories to test.";echo "tr 50 M=ING_EGRMSKBMAP IS=min IE=max ";tr 50
M=ING_EGRMSKBMAP IS=min IE=max;echo 'done';
```

```
echo "there are 546 more memories to test.";echo "tr 50 M=ING_EN_EFILTER_BITMAP IS=min IE=max ";tr 50
M=ING_EN_EFILTER_BITMAP IS=min IE=max;echo 'done';
echo "there are 545 more memories to test.";echo "tr 50 M=ING_ETAG_PCP_MAPPING IS=min IE=max ";tr 50
M=ING_ETAG_PCP_MAPPING IS=min IE=max;echo 'done';
echo "there are 544 more memories to test.";echo "tr 50 M=ING_FC_HEADER_TYPE IS=min IE=max ";tr 50
M=ING_FC_HEADER_TYPE IS=min IE=max;echo 'done';
echo "there are 543 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 542 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 541 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 540 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 539 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max;echo 'done';
echo "there are 538 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max;echo 'done';
echo "there are 537 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max;echo 'done';
echo "there are 536 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=max ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max;echo 'done';
echo "there are 535 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max;echo 'done';
echo "there are 534 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 533 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max;echo 'done';
echo "there are 532 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max;echo 'done';
echo "there are 531 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max;echo 'done';
echo "there are 530 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max;echo 'done';
echo "there are 529 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max;echo 'done';
echo "there are 528 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max;echo 'done';
echo "there are 527 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ";tr
50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 526 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
";tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max;echo 'done';
echo "there are 525 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ";tr 50
M=ING_FLEX_CTR_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 524 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
";tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 523 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ";tr 50
M=ING_FLEX_CTR_TOS_MAP IS=min IE=max;echo 'done';
```

```
echo "there are 522 more memories to test.";echo "tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=max ";tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max;echo 'done';
echo "there are 521 more memories to test.";echo "tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=max ";tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=max;echo 'done';
echo "there are 520 more memories to test.";echo "tr 50 M=ING_L3_NEXT_HOP IS=min IE=max ";tr 50
M=ING_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 519 more memories to test.";echo "tr 50 M=ING_MOD_MAP_TABLE IS=min IE=max ";tr 50
M=ING_MOD_MAP_TABLE IS=min IE=max;echo 'done';
echo "there are 518 more memories to test.";echo "tr 50 M=ING_MPLS_EXP_MAPPING IS=min IE=max ";tr 50
M=ING_MPLS_EXP_MAPPING IS=min IE=max;echo 'done';
echo "there are 517 more memories to test.";echo "tr 50 M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max ";tr 50
M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max;echo 'done';
echo "there are 516 more memories to test.";echo "tr 50 M=ING_NETWORK_PRUNE_CONTROL IS=min
IE=max ";tr 50 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=max;echo 'done';
echo "there are 515 more memories to test.";echo "tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ";tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 514 more memories to test.";echo "tr 50
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max ";tr 50
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max;echo 'done';
echo "there are 513 more memories to test.";echo "tr 50 M=ING_PRI_CNG_MAP IS=min IE=max ";tr 50
M=ING_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 512 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ";tr 50
M=ING_PW_TERM_SEQ_NUM IS=min IE=max;echo 'done';
echo "there are 511 more memories to test.";echo "tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
";tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max;echo 'done';
#echo "there are 510 more memories to test.";echo "tr 50 M=ING_SER_FIFO IS=min IE=max ";tr 50
M=ING_SER_FIFO IS=min IE=max;echo 'done';
echo "there are 509 more memories to test.";echo "tr 50 M=ING_SNAT IS=min IE=max ";tr 50 M=ING_SNAT
IS=min IE=max;echo 'done';
echo "there are 508 more memories to test.";echo "tr 50 M=ING_SNAT_DATA_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 507 more memories to test.";echo "tr 50 M=ING_SNAT_HIT_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 506 more memories to test.";echo "tr 50 M=ING_SNAT_ONLY IS=min IE=max ";tr 50
M=ING_SNAT_ONLY IS=min IE=max;echo 'done';
echo "there are 505 more memories to test.";echo "tr 50 M=ING_SVM_PKT_PRI_MAP IS=min IE=max ";tr 50
M=ING_SVM_PKT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 504 more memories to test.";echo "tr 50 M=ING_SVM_PKT_RES_MAP IS=min IE=max ";tr 50
M=ING_SVM_PKT_RES_MAP IS=min IE=max;echo 'done';
echo "there are 503 more memories to test.";echo "tr 50 M=ING_SVM_PORT_MAP IS=min IE=max ";tr 50
M=ING_SVM_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 502 more memories to test.";echo "tr 50 M=ING_SVM_PRI_CNG_MAP IS=min IE=max ";tr 50
M=ING_SVM_PRI_CNG_MAP IS=min IE=max;echo 'done';
echo "there are 501 more memories to test.";echo "tr 50 M=ING_SVM_TOS_MAP IS=min IE=max ";tr 50
M=ING_SVM_TOS_MAP IS=min IE=max;echo 'done';
echo "there are 500 more memories to test.";echo "tr 50 M=ING_TRILL_PARSE_CONTROL IS=min IE=max ";tr
50 M=ING_TRILL_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 499 more memories to test.";echo "tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min
```

```
IE=max ";tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=max;echo 'done';
echo "there are 498 more memories to test.";echo "tr 50 M=ING_UNTAGGED_PHB IS=min IE=max ";tr 50
M=ING_UNTAGGED_PHB IS=min IE=max;echo 'done';
echo "there are 497 more memories to test.";echo "tr 50 M=ING_VFT_PRI_MAP IS=min IE=max ";tr 50
M=ING_VFT_PRI_MAP IS=min IE=max;echo 'done';
echo "there are 496 more memories to test.";echo "tr 50 M=ING_VLAN_RANGE IS=min IE=max ";tr 50
M=ING_VLAN_RANGE IS=min IE=max;echo 'done';
echo "there are 495 more memories to test.";echo "tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ";tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max;echo 'done';
echo "there are 494 more memories to test.";echo "tr 50 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max ";tr
50 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 493 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ";tr
50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max;echo 'done';
echo "there are 492 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=max ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max;echo 'done';
echo "there are 491 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max;echo 'done';
echo "there are 490 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max;echo 'done';
echo "there are 489 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max;echo 'done';
echo "there are 488 more memories to test.";echo "tr 50 M=ING_VSAN IS=min IE=max ";tr 50 M=ING_VSAN
IS=min IE=max;echo 'done';
echo "there are 487 more memories to test.";echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ";tr 50
M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max;echo 'done';
echo "there are 486 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP IS=min IE=max ";tr 50
M=INITIAL_L3_ECMP IS=min IE=max;echo 'done';
echo "there are 485 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ";tr 50
M=INITIAL_L3_ECMP_GROUP IS=min IE=max;echo 'done';
echo "there are 484 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE
IS=min IE=max ";tr 50 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE IS=min IE=max;echo 'done';
echo "there are 483 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ";tr 50
M=INITIAL_PROT_NHI_TABLE IS=min IE=max;echo 'done';
echo "there are 482 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ";tr
50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 481 more memories to test.";echo "tr 50 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max
";tr 50 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max;echo 'done';
echo "there are 480 more memories to test.";echo "tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ";tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max;echo 'done';
echo "there are 479 more memories to test.";echo "tr 50 M=IP_MULTICAST_TCAM IS=min IE=max ";tr 50
M=IP_MULTICAST_TCAM IS=min IE=max;echo 'done';
echo "there are 478 more memories to test.";echo "tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ";tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max;echo 'done';
echo "there are 477 more memories to test.";echo "tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
";tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 476 more memories to test.";echo "tr 50 M=L2MC IS=min IE=max ";tr 50 M=L2MC IS=min
IE=max;echo 'done';
echo "there are 475 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_DATA IS=min IE=max ";tr 50
```

```
M=L2_BULK_MATCH_DATA IS=min IE=max;echo 'done';
echo "there are 474 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_MASK IS=min IE=max ";tr 50
M=L2_BULK_MATCH_MASK IS=min IE=max;echo 'done';
echo "there are 473 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_DATA IS=min IE=max ";tr 50
M=L2_BULK_REPLACE_DATA IS=min IE=max;echo 'done';
echo "there are 472 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_MASK IS=min IE=max ";tr 50
M=L2_BULK_REPLACE_MASK IS=min IE=max;echo 'done';
echo "there are 471 more memories to test.";echo "tr 50 M=L2_ENDPOINT_ID IS=min IE=max ";tr 50
M=L2_ENDPOINT_ID IS=min IE=max;echo 'done';
echo "there are 470 more memories to test.";echo "tr 50 M=L2X IS=min IE=max ";tr 50 M=L2X IS=min
IE=max;echo 'done';
#echo "there are 469 more memories to test.";echo "tr 50 M=L2_ENTRY_ISS_LP IS=min IE=max ";tr 50
M=L2_ENTRY_ISS_LP IS=min IE=max;echo 'done';
#echo "there are 468 more memories to test.";echo "tr 50 M=L2_ENTRY_LP IS=min IE=max ";tr 50
M=L2_ENTRY_LP IS=min IE=max;echo 'done';
echo "there are 467 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY IS=min IE=max ";tr 50
M=L2_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 466 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY_ECC IS=min IE=max ";tr 50
M=L2_ENTRY_ONLY_ECC IS=min IE=max;echo 'done';
echo "there are 465 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY IS=min IE=max ";tr 50
M=L2_HITDA_ONLY IS=min IE=max;echo 'done';
echo "there are 464 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY IS=min IE=max ";tr 50
M=L2_HITSA_ONLY IS=min IE=max;echo 'done';
echo "there are 463 more memories to test.";echo "tr 50 M=L2_LEARN_INSERT_FAILURE IS=min IE=max ";tr
50 M=L2_LEARN_INSERT_FAILURE IS=min IE=max;echo 'done';
echo "there are 462 more memories to test.";echo "tr 50 M=L2_MOD_FIFO IS=min IE=max ";tr 50
M=L2_MOD_FIFO IS=min IE=max;echo 'done';
echo "there are 461 more memories to test.";echo "tr 50 M=L2_USER_ENTRY IS=min IE=max ";tr 50
M=L2_USER_ENTRY IS=min IE=max;echo 'done';
echo "there are 460 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
";tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 459 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=max ";tr 50
M=L2_USER_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 458 more memories to test.";echo "tr 50 M=L3_DEFIP IS=min IE=max ";tr 50 M=L3_DEFIP
IS=min IE=max;echo 'done';
#echo "there are 457 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_ECC IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_ECC IS=min IE=max;echo 'done';
#echo "there are 456 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max ";tr
50 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max;echo 'done';
#echo "there are 455 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_IPV4 IS=min IE=max;echo 'done';
#echo "there are 454 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max;echo 'done';
#echo "there are 453 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max;echo 'done';
#echo "there are 452 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max;echo 'done';
#echo "there are 451 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max ";tr 50
```

```
M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max;echo 'done';
#echo "there are 450 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_RAW IS=min IE=max ";tr 50
M=L3_DEFIP_ALPM_RAW IS=min IE=max;echo 'done';
echo "there are 449 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
";tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max;echo 'done';
echo "there are 448 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max ";tr 50
M=L3_DEFIP_AUX_SCRATCH IS=min IE=max;echo 'done';
echo "there are 447 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_TABLE IS=min IE=max ";tr 50
M=L3_DEFIP_AUX_TABLE IS=min IE=max;echo 'done';
echo "there are 446 more memories to test.";echo "tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 445 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 444 more memories to test.";echo "tr 50 M=L3_DEFIP_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_ONLY IS=min IE=max;echo 'done';
echo "there are 443 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128 IS=min IE=max ";tr 50
M=L3_DEFIP_PAIR_128 IS=min IE=max;echo 'done';
echo "there are 442 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max
";tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 441 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max
";tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 440 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max ";tr 50
M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max;echo 'done';
echo "there are 439 more memories to test.";echo "tr 50 M=L3_ECMP IS=min IE=max ";tr 50 M=L3_ECMP
IS=min IE=max;echo 'done';
echo "there are 438 more memories to test.";echo "tr 50 M=L3_ECMP_COUNT IS=min IE=max ";tr 50
M=L3_ECMP_COUNT IS=min IE=max;echo 'done';
echo "there are 437 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=max ";tr 50
M=L3_ENTRY_HIT_ONLY IS=min IE=max;echo 'done';
echo "there are 436 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ";tr
50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max;echo 'done';
echo "there are 435 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ";tr 50
M=L3_ENTRY_IPV4_UNICAST IS=min IE=max;echo 'done';
echo "there are 434 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ";tr
50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max;echo 'done';
echo "there are 433 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ";tr 50
M=L3_ENTRY_IPV6_UNICAST IS=min IE=max;echo 'done';
#echo "there are 432 more memories to test.";echo "tr 50 M=L3_ENTRY_ISS_LP IS=min IE=max ";tr 50
M=L3_ENTRY_ISS_LP IS=min IE=max;echo 'done';
#echo "there are 431 more memories to test.";echo "tr 50 M=L3_ENTRY_LP IS=min IE=max ";tr 50
M=L3_ENTRY_LP IS=min IE=max;echo 'done';
echo "there are 430 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY IS=min IE=max ";tr 50
M=L3_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 429 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY_ECC IS=min IE=max ";tr 50
M=L3_ENTRY_ONLY_ECC IS=min IE=max;echo 'done';
echo "there are 428 more memories to test.";echo "tr 50 M=L3_IIF IS=min IE=max ";tr 50 M=L3_IIF IS=min
IE=max;echo 'done';
echo "there are 427 more memories to test.";echo "tr 50 M=L3_IIF_PROFILE IS=min IE=max ";tr 50
```

```
M=L3_IIF_PROFILE IS=min IE=max;echo 'done';
echo "there are 426 more memories to test.";echo "tr 50 M=L3_IPMC IS=min IE=max ";tr 50 M=L3_IPMC IS=min
IE=max;echo 'done';
echo "there are 425 more memories to test.";echo "tr 50 M=L3_IPMC_1 IS=min IE=max ";tr 50 M=L3_IPMC_1
IS=min IE=max;echo 'done';
echo "there are 424 more memories to test.";echo "tr 50 M=L3_IPMC_REMAP IS=min IE=max ";tr 50
M=L3_IPMC_REMAP IS=min IE=max;echo 'done';
echo "there are 423 more memories to test.";echo "tr 50 M=L3_MTU_VALUES IS=min IE=max ";tr 50
M=L3_MTU_VALUES IS=min IE=max;echo 'done';
echo "there are 422 more memories to test.";echo "tr 50 M=L3_TUNNEL IS=min IE=max ";tr 50 M=L3_TUNNEL
IS=min IE=max;echo 'done';
echo "there are 421 more memories to test.";echo "tr 50 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ";tr 50
M=L3_TUNNEL_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 420 more memories to test.";echo "tr 50 M=L3_TUNNEL_ONLY IS=min IE=max ";tr 50
M=L3_TUNNEL_ONLY IS=min IE=max;echo 'done';
echo "there are 419 more memories to test.";echo "tr 50 M=LLS_L0_CHILD_STATE1 IS=min IE=max ";tr 50
M=LLS_L0_CHILD_STATE1 IS=min IE=max;echo 'done';
echo "there are 418 more memories to test.";echo "tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ";tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=max;echo 'done';
echo "there are 417 more memories to test.";echo "tr 50 M=LLS_L0_CONFIG IS=min IE=max ";tr 50
M=LLS_L0_CONFIG IS=min IE=max;echo 'done';
echo "there are 416 more memories to test.";echo "tr 50 M=LLS_L0_ERROR IS=min IE=max ";tr 50
M=LLS_L0_ERROR IS=min IE=max;echo 'done';
echo "there are 415 more memories to test.";echo "tr 50 M=LLS_L0_HEADS_TAILS_1 IS=min IE=max ";tr 50
M=LLS_L0_HEADS_TAILS_1 IS=min IE=max;echo 'done';
echo "there are 414 more memories to test.";echo "tr 50 M=LLS_L0_HEADS_TAILS_2 IS=min IE=max ";tr 50
M=LLS_L0_HEADS_TAILS_2 IS=min IE=max;echo 'done';
echo "there are 413 more memories to test.";echo "tr 50 M=LLS_L0_MIN_NEXT IS=min IE=max ";tr 50
M=LLS_L0_MIN_NEXT IS=min IE=max;echo 'done';
echo "there are 412 more memories to test.";echo "tr 50 M=LLS_L0_PARENT IS=min IE=max ";tr 50
M=LLS_L0_PARENT IS=min IE=max;echo 'done';
echo "there are 411 more memories to test.";echo "tr 50 M=LLS_L0_PARENT_STATE IS=min IE=max ";tr 50
M=LLS_L0_PARENT_STATE IS=min IE=max;echo 'done';
echo "there are 410 more memories to test.";echo "tr 50 M=LLS_L0_WERR_MAX_SC IS=min IE=max ";tr 50
M=LLS_L0_WERR_MAX_SC IS=min IE=max;echo 'done';
echo "there are 409 more memories to test.";echo "tr 50 M=LLS_L0_WERR_NEXT IS=min IE=max ";tr 50
M=LLS_L0_WERR_NEXT IS=min IE=max;echo 'done';
echo "there are 408 more memories to test.";echo "tr 50 M=LLS_L0_XOFF IS=min IE=max ";tr 50
M=LLS_L0_XOFF IS=min IE=max;echo 'done';
echo "there are 407 more memories to test.";echo "tr 50 M=LLS_L1_ACT_MIN IS=min IE=max ";tr 50
M=LLS_L1_ACT_MIN IS=min IE=max;echo 'done';
echo "there are 406 more memories to test.";echo "tr 50 M=LLS_L1_ACT_SHAPER IS=min IE=max ";tr 50
M=LLS_L1_ACT_SHAPER IS=min IE=max;echo 'done';
echo "there are 405 more memories to test.";echo "tr 50 M=LLS_L1_ACT_XON IS=min IE=max ";tr 50
M=LLS_L1_ACT_XON IS=min IE=max;echo 'done';
echo "there are 404 more memories to test.";echo "tr 50 M=LLS_L1_CHILD_STATE1 IS=min IE=max ";tr 50
M=LLS_L1_CHILD_STATE1 IS=min IE=max;echo 'done';
echo "there are 403 more memories to test.";echo "tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min
```

```
IE=max ";tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=max;echo 'done';
echo "there are 402 more memories to test.";echo "tr 50 M=LLS_L1_CONFIG IS=min IE=max ";tr 50
M=LLS_L1_CONFIG IS=min IE=max;echo 'done';
echo "there are 401 more memories to test.";echo "tr 50 M=LLS_L1_ERROR IS=min IE=max ";tr 50
M=LLS_L1_ERROR IS=min IE=max;echo 'done';
echo "there are 400 more memories to test.";echo "tr 50 M=LLS_L1_HEADS_TAILS_1 IS=min IE=max ";tr 50
M=LLS_L1_HEADS_TAILS_1 IS=min IE=max;echo 'done';
echo "there are 399 more memories to test.";echo "tr 50 M=LLS_L1_HEADS_TAILS_2 IS=min IE=max ";tr 50
M=LLS_L1_HEADS_TAILS_2 IS=min IE=max;echo 'done';
echo "there are 398 more memories to test.";echo "tr 50 M=LLS_L1_MC_XOFF IS=min IE=max ";tr 50
M=LLS_L1_MC_XOFF IS=min IE=max;echo 'done';
echo "there are 397 more memories to test.";echo "tr 50 M=LLS_L1_MIN_NEXT IS=min IE=max ";tr 50
M=LLS_L1_MIN_NEXT IS=min IE=max;echo 'done';
echo "there are 396 more memories to test.";echo "tr 50 M=LLS_L1_PARENT IS=min IE=max ";tr 50
M=LLS_L1_PARENT IS=min IE=max;echo 'done';
echo "there are 395 more memories to test.";echo "tr 50 M=LLS_L1_PARENT_STATE IS=min IE=max ";tr 50
M=LLS_L1_PARENT_STATE IS=min IE=max;echo 'done';
echo "there are 394 more memories to test.";echo "tr 50 M=LLS_L1_WERR_MAX_SC IS=min IE=max ";tr 50
M=LLS_L1_WERR_MAX_SC IS=min IE=max;echo 'done';
echo "there are 393 more memories to test.";echo "tr 50 M=LLS_L1_WERR_NEXT IS=min IE=max ";tr 50
M=LLS_L1_WERR_NEXT IS=min IE=max;echo 'done';
echo "there are 392 more memories to test.";echo "tr 50 M=LLS_L1_XOFF IS=min IE=max ";tr 50
M=LLS_L1_XOFF IS=min IE=max;echo 'done';
echo "there are 391 more memories to test.";echo "tr 50 M=LLS_L2_ACT_ENQ IS=min IE=max ";tr 50
M=LLS_L2_ACT_ENQ IS=min IE=max;echo 'done';
echo "there are 390 more memories to test.";echo "tr 50 M=LLS_L2_ACT_MIN IS=min IE=max ";tr 50
M=LLS_L2_ACT_MIN IS=min IE=max;echo 'done';
echo "there are 389 more memories to test.";echo "tr 50 M=LLS_L2_ACT_SHAPER IS=min IE=max ";tr 50
M=LLS_L2_ACT_SHAPER IS=min IE=max;echo 'done';
echo "there are 388 more memories to test.";echo "tr 50 M=LLS_L2_ACT_XON IS=min IE=max ";tr 50
M=LLS_L2_ACT_XON IS=min IE=max;echo 'done';
echo "there are 387 more memories to test.";echo "tr 50 M=LLS_L2_CHILD_STATE1 IS=min IE=max ";tr 50
M=LLS_L2_CHILD_STATE1 IS=min IE=max;echo 'done';
echo "there are 386 more memories to test.";echo "tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ";tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=max;echo 'done';
echo "there are 385 more memories to test.";echo "tr 50 M=LLS_L2_ERROR IS=min IE=max ";tr 50
M=LLS_L2_ERROR IS=min IE=max;echo 'done';
echo "there are 384 more memories to test.";echo "tr 50 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ";tr 50 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min IE=max;echo 'done';
echo "there are 383 more memories to test.";echo "tr 50 M=LLS_L2_MC_XOFF IS=min IE=44 ";tr 50
M=LLS_L2_MC_XOFF IS=min IE=44;echo 'done';
echo "there are 382 more memories to test.";echo "tr 50 M=LLS_L2_MIN_NEXT IS=min IE=max ";tr 50
M=LLS_L2_MIN_NEXT IS=min IE=max;echo 'done';
echo "there are 381 more memories to test.";echo "tr 50 M=LLS_L2_PARENT IS=min IE=max ";tr 50
M=LLS_L2_PARENT IS=min IE=max;echo 'done';
echo "there are 380 more memories to test.";echo "tr 50 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max ";tr
50 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max;echo 'done';
echo "there are 379 more memories to test.";echo "tr 50 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max ";tr
```

```
50 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max;echo 'done';
echo "there are 378 more memories to test.";echo "tr 50 M=LLS_L2_WERR_NEXT IS=min IE=max ";tr 50
M=LLS_L2_WERR_NEXT IS=min IE=max;echo 'done';
echo "there are 377 more memories to test.";echo "tr 50 M=LLS_L2_XOFF IS=min IE=max ";tr 50
M=LLS_L2_XOFF IS=min IE=max;echo 'done';
echo "there are 376 more memories to test.";echo "tr 50 M=LLS_PORT_HEADS IS=min IE=max ";tr 50
M=LLS_PORT_HEADS IS=min IE=max;echo 'done';
echo "there are 375 more memories to test.";echo "tr 50 M=LLS_PORT_SEQ_NUM IS=min IE=max ";tr 50
M=LLS_PORT_SEQ_NUM IS=min IE=max;echo 'done';
echo "there are 374 more memories to test.";echo "tr 50 M=LLS_PORT_TAILS IS=min IE=max ";tr 50
M=LLS_PORT_TAILS IS=min IE=max;echo 'done';
echo "there are 373 more memories to test.";echo "tr 50 M=LLS_PORT_WERR_MAX_SC IS=min IE=max ";tr 50
M=LLS_PORT_WERR_MAX_SC IS=min IE=max;echo 'done';
echo "there are 372 more memories to test.";echo "tr 50 M=LLS_PORT_XOFF IS=min IE=max ";tr 50
M=LLS_PORT_XOFF IS=min IE=max;echo 'done';
echo "there are 371 more memories to test.";echo "tr 50 M=LLS_S1_CHILD_STATE IS=min IE=max ";tr 50
M=LLS_S1_CHILD_STATE IS=min IE=max;echo 'done';
echo "there are 370 more memories to test.";echo "tr 50 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ";tr 50 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min IE=max;echo 'done';
echo "there are 369 more memories to test.";echo "tr 50 M=LLS_S1_CONFIG IS=min IE=max ";tr 50
M=LLS_S1_CONFIG IS=min IE=max;echo 'done';
echo "there are 368 more memories to test.";echo "tr 50 M=LLS_S1_ERROR IS=min IE=max ";tr 50
M=LLS_S1_ERROR IS=min IE=max;echo 'done';
echo "there are 367 more memories to test.";echo "tr 50 M=LLS_S1_HEADS_TAILS IS=min IE=max ";tr 50
M=LLS_S1_HEADS_TAILS IS=min IE=max;echo 'done';
echo "there are 366 more memories to test.";echo "tr 50 M=LLS_S1_PARENT IS=min IE=max ";tr 50
M=LLS_S1_PARENT IS=min IE=max;echo 'done';
echo "there are 365 more memories to test.";echo "tr 50 M=LLS_S1_PARENT_STATE IS=min IE=max ";tr 50
M=LLS_S1_PARENT_STATE IS=min IE=max;echo 'done';
echo "there are 364 more memories to test.";echo "tr 50 M=LLS_S1_WERR_MAX_SC IS=min IE=max ";tr 50
M=LLS_S1_WERR_MAX_SC IS=min IE=max;echo 'done';
echo "there are 363 more memories to test.";echo "tr 50 M=LLS_S1_XOFF IS=min IE=max ";tr 50
M=LLS_S1_XOFF IS=min IE=max;echo 'done';
echo "there are 362 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max;echo 'done';
echo "there are 361 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=max ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=max;echo 'done';
echo "there are 360 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max;echo 'done';
echo "there are 359 more memories to test.";echo "tr 50 M=LPORT_TAB IS=min IE=max ";tr 50 M=LPORT_TAB
IS=min IE=max;echo 'done';
echo "there are 358 more memories to test.";echo "tr 50 M=MAC_BLOCK IS=min IE=max ";tr 50
M=MAC_BLOCK IS=min IE=max;echo 'done';
echo "there are 356 more memories to test.";echo "tr 50 M=MIRROR_CONTROL IS=min IE=max ";tr 50
M=MIRROR_CONTROL IS=min IE=max;echo 'done';
echo "there are 355 more memories to test.";echo "tr 50 M=MMU_AGING_CTR IS=min IE=max ";tr 50
M=MMU_AGING_CTR IS=min IE=max;echo 'done';
echo "there are 354 more memories to test.";echo "tr 50 M=MMU_AGING_EXP IS=min IE=max ";tr 50
```

```
M=MMU_AGING_EXP IS=min IE=max;echo 'done';
echo "there are 353 more memories to test.";echo "tr 50 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max
";tr 50 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 352 more memories to test.";echo "tr 50 M=MMU_CBPData0 IS=min IE=max ";tr 50
M=MMU_CBPData0 IS=min IE=max;echo 'done';
echo "there are 351 more memories to test.";echo "tr 50 M=MMU_CBPData1 IS=min IE=max ";tr 50
M=MMU_CBPData1 IS=min IE=max;echo 'done';
echo "there are 350 more memories to test.";echo "tr 50 M=MMU_CBPData2 IS=min IE=max ";tr 50
M=MMU_CBPData2 IS=min IE=max;echo 'done';
echo "there are 349 more memories to test.";echo "tr 50 M=MMU_CBPData3 IS=min IE=max ";tr 50
M=MMU_CBPData3 IS=min IE=max;echo 'done';
echo "there are 348 more memories to test.";echo "tr 50 M=MMU_CCP0_RESEQ_MEM IS=min IE=max ";tr 50
M=MMU_CCP0_RESEQ_MEM IS=min IE=max;echo 'done';
echo "there are 347 more memories to test.";echo "tr 50 M=MMU_CCP_MEM IS=min IE=max ";tr 50
M=MMU_CCP_MEM IS=min IE=max;echo 'done';
echo "there are 346 more memories to test.";echo "tr 50 M=MMU_CELL_LINK IS=min IE=max ";tr 50
M=MMU_CELL_LINK IS=min IE=max;echo 'done';
echo "there are 345 more memories to test.";echo "tr 50 M=MMU_CFAPI0_BITMAP IS=min IE=max ";tr 50
M=MMU_CFAPI0_BITMAP IS=min IE=max;echo 'done';
echo "there are 344 more memories to test.";echo "tr 50 M=MMU_CFAPI0_STACK IS=min IE=max ";tr 50
M=MMU_CFAPI0_STACK IS=min IE=max;echo 'done';
echo "there are 343 more memories to test.";echo "tr 50 M=MMU_CFAPI1_BITMAP IS=min IE=max ";tr 50
M=MMU_CFAPI1_BITMAP IS=min IE=max;echo 'done';
echo "there are 342 more memories to test.";echo "tr 50 M=MMU_CFAPI1_STACK IS=min IE=max ";tr 50
M=MMU_CFAPI1_STACK IS=min IE=max;echo 'done';
echo "there are 341 more memories to test.";echo "tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
";tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max;echo 'done';
echo "there are 340 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
";tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 339 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ";tr 50
M=MMU_CTR_ING_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 338 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max ";tr
50 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max;echo 'done';
echo "there are 337 more memories to test.";echo "tr 50 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max ";tr
50 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 336 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ";tr 50
M=MMU_CTR_UC_DROP_MEM IS=min IE=max;echo 'done';
echo "there are 335 more memories to test.";echo "tr 50 M=MMU_ENQ_PBI_DB IS=min IE=max ";tr 50
M=MMU_ENQ_PBI_DB IS=min IE=max;echo 'done';
echo "there are 334 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM IS=min IE=max ";tr 50
M=MMU_EPRG_MEM IS=min IE=max;echo 'done';
echo "there are 333 more memories to test.";echo "tr 50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max
";tr 50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max;echo 'done';
echo "there are 332 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max ";tr 50
M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max;echo 'done';
echo "there are 331 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max ";tr 50
M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max;echo 'done';
echo "there are 330 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max ";tr 50
```

```
M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max;echo 'done';
echo "there are 329 more memories to test.";echo "tr 50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max ";tr
50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max;echo 'done';
echo "there are 328 more memories to test.";echo "tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max
";tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max;echo 'done';
echo "there are 327 more memories to test.";echo "tr 50 M=MMU_INTFI_PFC_ST_TBL IS=min IE=max ";tr 50
M=MMU_INTFI_PFC_ST_TBL IS=min IE=max;echo 'done';
echo "there are 326 more memories to test.";echo "tr 50 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max ";tr
50 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max;echo 'done';
echo "there are 325 more memories to test.";echo "tr 50 M=MMU_INTFI_S1_ST_TB IS=min IE=max ";tr 50
M=MMU_INTFI_S1_ST_TB IS=min IE=max;echo 'done';
echo "there are 324 more memories to test.";echo "tr 50 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max ";tr
50 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max;echo 'done';
echo "there are 323 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min
IE=max ";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=max;echo 'done';
echo "there are 322 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min
IE=max ";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=max;echo 'done';
echo "there are 321 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min
IE=max ";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=max;echo 'done';
#echo "there are 320 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min
IE=max ";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min IE=max;echo 'done';
echo "there are 319 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min
IE=max ";tr 50 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=max;echo 'done';
echo "there are 318 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=max ";tr 50 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=max;echo 'done';
echo "there are 317 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max ";tr
50 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max;echo 'done';
echo "there are 316 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max ";tr
50 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max;echo 'done';
echo "there are 315 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max;echo 'done';
echo "there are 314 more memories to test.";echo "tr 50 M=MMU_MAPPER_X_LSB IS=min IE=max ";tr 50
M=MMU_MAPPER_X_LSB IS=min IE=max;echo 'done';
echo "there are 313 more memories to test.";echo "tr 50 M=MMU_MAPPER_Y_LSB IS=min IE=max ";tr 50
M=MMU_MAPPER_Y_LSB IS=min IE=max;echo 'done';
echo "there are 312 more memories to test.";echo "tr 50 M=MMU_MCFP IS=min IE=max ";tr 50 M=MMU_MCFP
IS=min IE=max;echo 'done';
echo "there are 311 more memories to test.";echo "tr 50 M=MMU_MCQDB0 IS=min IE=max ";tr 50
M=MMU_MCQDB0 IS=min IE=max;echo 'done';
echo "there are 310 more memories to test.";echo "tr 50 M=MMU_MCQDB1 IS=min IE=max ";tr 50
M=MMU_MCQDB1 IS=min IE=max;echo 'done';
echo "there are 309 more memories to test.";echo "tr 50 M=MMU_MCQE IS=min IE=max ";tr 50
M=MMU_MCQE IS=min IE=max;echo 'done';
echo "there are 308 more memories to test.";echo "tr 50 M=MMU_MCQN IS=min IE=max ";tr 50
M=MMU_MCQN IS=min IE=max;echo 'done';
echo "there are 307 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=max ";tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=max;echo 'done';
echo "there are 306 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
```

```
IS=min IE=max ";tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=max;echo 'done';
echo "there are 305 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max;echo 'done';
echo "there are 304 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max;echo 'done';
echo "there are 303 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max;echo 'done';
echo "there are 302 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max;echo 'done';
echo "there are 301 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max;echo 'done';
echo "there are 300 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max;echo 'done';
echo "there are 299 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max;echo 'done';
echo "there are 298 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max;echo 'done';
echo "there are 297 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max;echo 'done';
echo "there are 296 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max;echo 'done';
echo "there are 295 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max;echo 'done';
echo "there are 294 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=max ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=max;echo 'done';
echo "there are 293 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_0 IS=min IE=max ";tr 50
M=MMU_MTRO_L0_MEM_0 IS=min IE=max;echo 'done';
echo "there are 292 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_0 IS=min IE=max ";tr 50
M=MMU_MTRO_L1_MEM_0 IS=min IE=max;echo 'done';
echo "there are 291 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_1 IS=min IE=max ";tr 50
M=MMU_MTRO_L1_MEM_1 IS=min IE=max;echo 'done';
echo "there are 290 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_0 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_0 IS=min IE=max;echo 'done';
echo "there are 289 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_1 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_1 IS=min IE=max;echo 'done';
echo "there are 288 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_2 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_2 IS=min IE=max;echo 'done';
echo "there are 287 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_3 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_3 IS=min IE=max;echo 'done';
echo "there are 286 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_4 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_4 IS=min IE=max;echo 'done';
echo "there are 285 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_5 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_5 IS=min IE=max;echo 'done';
echo "there are 284 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_6 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_6 IS=min IE=max;echo 'done';
echo "there are 283 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_7 IS=min IE=max ";tr 50
M=MMU_MTRO_L2_MEM_7 IS=min IE=max;echo 'done';
echo "there are 282 more memories to test.";echo "tr 50 M=MMU_MTRO_S1_MEM_0 IS=min IE=max ";tr 50
```

```
M=MMU_MTRO_S1_MEM_0 IS=min IE=max;echo 'done';
echo "there are 281 more memories to test.";echo "tr 50 M=MMU_PDB0 IS=min IE=max ";tr 50 M=MMU_PDB0
IS=min IE=max;echo 'done';
echo "there are 280 more memories to test.";echo "tr 50 M=MMU_PKTHDR IS=min IE=max ";tr 50
M=MMU_PKTHDR IS=min IE=max;echo 'done';
echo "there are 279 more memories to test.";echo "tr 50 M=MMU_PKT_LINK IS=min IE=max ";tr 50
M=MMU_PKT_LINK IS=min IE=max;echo 'done';
echo "there are 278 more memories to test.";echo "tr 50 M=MMU_PORTCNT IS=min IE=max ";tr 50
M=MMU_PORTCNT IS=min IE=max;echo 'done';
echo "there are 277 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM IS=min IE=max ";tr 50
M=MMU_PQE0_MEM IS=min IE=max;echo 'done';
echo "there are 276 more memories to test.";echo "tr 50 M=MMU_QCN_CNM_COUNTER IS=min IE=max ";tr 50
M=MMU_QCN_CNM_COUNTER IS=min IE=max;echo 'done';
echo "there are 275 more memories to test.";echo "tr 50 M=MMU_QCN_CNM_QUEUE0 IS=min IE=max ";tr 50
M=MMU_QCN_CNM_QUEUE0 IS=min IE=max;echo 'done';
echo "there are 274 more memories to test.";echo "tr 50 M=MMU_QCN_CPQST_QLEN IS=min IE=max ";tr 50
M=MMU_QCN_CPQST_QLEN IS=min IE=max;echo 'done';
echo "there are 273 more memories to test.";echo "tr 50 M=MMU_QCN_CPQST_TSSLS IS=min IE=max ";tr 50
M=MMU_QCN_CPQST_TSSLS IS=min IE=max;echo 'done';
echo "there are 272 more memories to test.";echo "tr 50 M=MMU_QCN_ENABLE_0 IS=min IE=max ";tr 50
M=MMU_QCN_ENABLE_0 IS=min IE=max;echo 'done';
echo "there are 271 more memories to test.";echo "tr 50 M=MMU_QCN_QFBTB IS=min IE=max ";tr 50
M=MMU_QCN_QFBTB IS=min IE=max;echo 'done';
echo "there are 270 more memories to test.";echo "tr 50 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max ";tr
50 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max;echo 'done';
echo "there are 269 more memories to test.";echo "tr 50 M=MMU_QCN_SITB IS=min IE=max ";tr 50
M=MMU_QCN_SITB IS=min IE=max;echo 'done';
echo "there are 268 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO0 IS=min IE=max ";tr 50
M=MMU_REPL_GROUP_INFO0 IS=min IE=max;echo 'done';
echo "there are 267 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ";tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max;echo 'done';
echo "there are 266 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL IS=min IE=max ";tr 50
M=MMU_REPL_HEAD_TBL IS=min IE=max;echo 'done';
echo "there are 265 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max ";tr
50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 264 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL IS=min IE=max ";tr 50
M=MMU_REPL_LIST_TBL IS=min IE=max;echo 'done';
echo "there are 263 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ";tr
50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 262 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max ";tr
50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max;echo 'done';
echo "there are 261 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max
";tr 50 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max;echo 'done';
echo "there are 260 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=max;echo 'done';
echo "there are 259 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=max;echo 'done';
echo "there are 258 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=max;echo 'done';
echo "there are 257 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=max ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=max;echo 'done';
echo "there are 256 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max
";tr 50 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max;echo 'done';
echo "there are 255 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=max;echo 'done';
echo "there are 254 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=max;echo 'done';
echo "there are 253 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=max;echo 'done';
echo "there are 252 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=max;echo 'done';
echo "there are 251 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=max;echo 'done';
echo "there are 250 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=max;echo 'done';
echo "there are 249 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=max;echo 'done';
echo "there are 248 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=max;echo 'done';
echo "there are 247 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=max;echo 'done';
echo "there are 246 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min
IE=max ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=max;echo 'done';
echo "there are 245 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=max;echo 'done';
echo "there are 244 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=max;echo 'done';
echo "there are 243 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=max;echo 'done';
echo "there are 242 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=max;echo 'done';
echo "there are 241 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=max;echo 'done';
echo "there are 240 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=max;echo 'done';
echo "there are 239 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=max;echo 'done';
echo "there are 238 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=max;echo 'done';
echo "there are 237 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=max;echo 'done';
echo "there are 236 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=max;echo 'done';
echo "there are 235 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=max;echo 'done';
echo "there are 234 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
```

```
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=max;echo 'done';
echo "there are 233 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=max;echo 'done';
echo "there are 232 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=max;echo 'done';
echo "there are 231 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=max ";tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=max;echo 'done';
echo "there are 230 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max ";tr
50 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max;echo 'done';
echo "there are 229 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max
";tr 50 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max;echo 'done';
echo "there are 228 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max
";tr 50 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max;echo 'done';
echo "there are 227 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=max;echo 'done';
echo "there are 226 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=max;echo 'done';
echo "there are 225 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=max;echo 'done';
echo "there are 224 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=max;echo 'done';
echo "there are 223 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=max;echo 'done';
echo "there are 222 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=max;echo 'done';
echo "there are 221 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=max;echo 'done';
echo "there are 220 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=max;echo 'done';
echo "there are 219 more memories to test.";echo "tr 50 M=MMU_THDU_QGROUP_TICKET IS=min IE=max ";tr
50 M=MMU_THDU_QGROUP_TICKET IS=min IE=max;echo 'done';
echo "there are 218 more memories to test.";echo "tr 50 M=MMU_THDU_QUEUE_TICKET IS=min IE=max ";tr
50 M=MMU_THDU_QUEUE_TICKET IS=min IE=max;echo 'done';
echo "there are 217 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=max;echo 'done';
echo "there are 216 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_PORT IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=max;echo 'done';
echo "there are 215 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=max;echo 'done';
echo "there are 214 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=max ";tr 50 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=max;echo 'done';
echo "there are 213 more memories to test.";echo "tr 50 M=MMU_UCQDB0 IS=min IE=max ";tr 50
M=MMU_UCQDB0 IS=min IE=max;echo 'done';
echo "there are 212 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max
";tr 50 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max;echo 'done';
echo "there are 211 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max ";tr
50 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max;echo 'done';
echo "there are 210 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
```

```
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=max;echo 'done';
echo "there are 209 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=max;echo 'done';
echo "there are 208 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=max;echo 'done';
echo "there are 207 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=max;echo 'done';
echo "there are 206 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=max;echo 'done';
echo "there are 205 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=max;echo 'done';
echo "there are 204 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=max;echo 'done';
echo "there are 203 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max;echo 'done';
echo "there are 202 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=max;echo 'done';
echo "there are 201 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=max ";tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=max;echo 'done';
echo "there are 200 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max;echo 'done';
echo "there are 199 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max;echo 'done';
echo "there are 198 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max;echo 'done';
echo "there are 197 more memories to test.";echo "tr 50 M=MODID_BASE_PTR IS=min IE=max ";tr 50
M=MODID_BASE_PTR IS=min IE=max;echo 'done';
echo "there are 196 more memories to test.";echo "tr 50 M=MODPORT_MAP_M0 IS=min IE=max ";tr 50
M=MODPORT_MAP_M0 IS=min IE=max;echo 'done';
echo "there are 195 more memories to test.";echo "tr 50 M=MODPORT_MAP_M1 IS=min IE=max ";tr 50
M=MODPORT_MAP_M1 IS=min IE=max;echo 'done';
echo "there are 194 more memories to test.";echo "tr 50 M=MODPORT_MAP_M2 IS=min IE=max ";tr 50
M=MODPORT_MAP_M2 IS=min IE=max;echo 'done';
echo "there are 193 more memories to test.";echo "tr 50 M=MODPORT_MAP_M3 IS=min IE=max ";tr 50
M=MODPORT_MAP_M3 IS=min IE=max;echo 'done';
echo "there are 192 more memories to test.";echo "tr 50 M=MODPORT_MAP_MIRROR IS=min IE=max ";tr 50
M=MODPORT_MAP_MIRROR IS=min IE=max;echo 'done';
echo "there are 191 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT IS=min IE=max ";tr 50
M=MODPORT_MAP_SUBPORT IS=min IE=max;echo 'done';
echo "there are 190 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max ";tr
50 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max;echo 'done';
echo "there are 189 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max ";tr
50 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max;echo 'done';
echo "there are 188 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max ";tr
```

```
50 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max;echo 'done';
echo "there are 187 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max ";tr
50 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max;echo 'done';
echo "there are 186 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_MIRROR IS=min
IE=max ";tr 50 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=max;echo 'done';
echo "there are 185 more memories to test.";echo "tr 50 M=MODPORT_MAP_SW IS=min IE=max ";tr 50
M=MODPORT_MAP_SW IS=min IE=max;echo 'done';
echo "there are 184 more memories to test.";echo "tr 50 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=max
";tr 50 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=max;echo 'done';
echo "there are 183 more memories to test.";echo "tr 50 M=MPLS_ENTRY IS=min IE=max ";tr 50
M=MPLS_ENTRY IS=min IE=max;echo 'done';
echo "there are 182 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max
";tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max;echo 'done';
echo "there are 181 more memories to test.";echo "tr 50 M=MY_STATION_TCAM IS=min IE=max ";tr 50
M=MY_STATION_TCAM IS=min IE=max;echo 'done';
echo "there are 180 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2 IS=min IE=max ";tr 50
M=MY_STATION_TCAM_2 IS=min IE=max;echo 'done';
echo "there are 179 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 178 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 177 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 176 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ";tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max;echo 'done';
echo "there are 175 more memories to test.";echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ";tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 174 more memories to test.";echo "tr 50 M=NUM_QCN_CNM_RECEIVED IS=min IE=max ";tr 50
M=NUM_QCN_CNM_RECEIVED IS=min IE=max;echo 'done';
echo "there are 173 more memories to test.";echo "tr 50 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max
";tr 50 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max;echo 'done';
echo "there are 172 more memories to test.";echo "tr 50 M=OP_UC_QGROUP_MINOK IS=min IE=max ";tr 50
M=OP_UC_QGROUP_MINOK IS=min IE=max;echo 'done';
echo "there are 171 more memories to test.";echo "tr 50 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max ";tr
50 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max;echo 'done';
echo "there are 170 more memories to test.";echo "tr 50 M=OP_UC_QUEUE_MINOK IS=min IE=max ";tr 50
M=OP_UC_QUEUE_MINOK IS=min IE=max;echo 'done';
echo "there are 169 more memories to test.";echo "tr 50 M=PFS_PACKET_TYPE_OFFSET IS=min IE=max ";tr 50
M=PFS_PACKET_TYPE_OFFSET IS=min IE=max;echo 'done';
echo "there are 168 more memories to test.";echo "tr 50 M=PHB2_COS_MAP IS=min IE=max ";tr 50
M=PHB2_COS_MAP IS=min IE=max;echo 'done';
echo "there are 167 more memories to test.";echo "tr 50 M=PORT_BRIDGE_BMAP IS=min IE=max ";tr 50
M=PORT_BRIDGE_BMAP IS=min IE=max;echo 'done';
echo "there are 166 more memories to test.";echo "tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max
";tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max;echo 'done';
echo "there are 165 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE IS=min IE=max ";tr 50
M=PORT_CBL_TABLE IS=min IE=max;echo 'done';
echo "there are 164 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ";tr
```

```
50 M=PORT_CBL_TABLE_MODBASE IS=min IE=max;echo 'done';
echo "there are 163 more memories to test.";echo "tr 50 M=PORT_LAG_FAILOVER_SET IS=min IE=max ";tr 50
M=PORT_LAG_FAILOVER_SET IS=min IE=max;echo 'done';
echo "there are 162 more memories to test.";echo "tr 50 M=PORT_TAB IS=min IE=max ";tr 50 M=PORT_TAB
IS=min IE=max;echo 'done';
echo "there are 161 more memories to test.";echo "tr 50 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=max ";tr 50 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=max;echo 'done';
echo "there are 160 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0 IS=min IE=max ";tr 50
M=REPLICATION_FIFO_BANK0 IS=min IE=max;echo 'done';
echo "there are 159 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1 IS=min IE=max ";tr 50
M=REPLICATION_FIFO_BANK1 IS=min IE=max;echo 'done';
echo "there are 158 more memories to test.";echo "tr 50 M=RH_ECMP_DROPS IS=min IE=max ";tr 50
M=RH_ECMP_DROPS IS=min IE=max;echo 'done';
echo "there are 157 more memories to test.";echo "tr 50 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ";tr 50 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 156 more memories to test.";echo "tr 50 M=RH_ECMP_FLOWSET IS=min IE=max ";tr 50
M=RH_ECMP_FLOWSET IS=min IE=max;echo 'done';
echo "there are 155 more memories to test.";echo "tr 50 M=RH_HGT_DROPS IS=min IE=max ";tr 50
M=RH_HGT_DROPS IS=min IE=max;echo 'done';
echo "there are 154 more memories to test.";echo "tr 50 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ";tr 50 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 153 more memories to test.";echo "tr 50 M=RH_HGT_FLOWSET IS=min IE=max ";tr 50
M=RH_HGT_FLOWSET IS=min IE=max;echo 'done';
echo "there are 152 more memories to test.";echo "tr 50 M=RH_HGT_GROUP_CONTROL IS=min IE=max ";tr 50
M=RH_HGT_GROUP_CONTROL IS=min IE=max;echo 'done';
echo "there are 151 more memories to test.";echo "tr 50 M=RH_LAG_DROPS IS=min IE=max ";tr 50
M=RH_LAG_DROPS IS=min IE=max;echo 'done';
echo "there are 150 more memories to test.";echo "tr 50 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ";tr 50 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max;echo 'done';
echo "there are 149 more memories to test.";echo "tr 50 M=RH_LAG_FLOWSET IS=min IE=max ";tr 50
M=RH_LAG_FLOWSET IS=min IE=max;echo 'done';
echo "there are 148 more memories to test.";echo "tr 50 M=RQE_FREE_LIST IS=min IE=max ";tr 50
M=RQE_FREE_LIST IS=min IE=max;echo 'done';
echo "there are 147 more memories to test.";echo "tr 50 M=RQE_LINK_LIST IS=min IE=max ";tr 50
M=RQE_LINK_LIST IS=min IE=max;echo 'done';
echo "there are 146 more memories to test.";echo "tr 50 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ";tr
50 M=RTAG7_FLOW_BASED_HASH IS=min IE=max;echo 'done';
echo "there are 145 more memories to test.";echo "tr 50 M=RTAG7_PORT_BASED_HASH IS=min IE=max ";tr 50
M=RTAG7_PORT_BASED_HASH IS=min IE=max;echo 'done';
echo "there are 144 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE IS=min IE=max ";tr 50
M=RX_PROT_GROUP_TABLE IS=min IE=max;echo 'done';
echo "there are 143 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ";tr 50
M=RX_PROT_GROUP_TABLE_1 IS=min IE=max;echo 'done';
echo "there are 142 more memories to test.";echo "tr 50 M=SERVICE_COS_MAP IS=min IE=max ";tr 50
M=SERVICE_COS_MAP IS=min IE=max;echo 'done';
echo "there are 141 more memories to test.";echo "tr 50 M=SERVICE_PORT_MAP IS=min IE=max ";tr 50
M=SERVICE_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 140 more memories to test.";echo "tr 50 M=SERVICE_QUEUE_MAP IS=min IE=max ";tr 50
```

```
M=SERVICE_QUEUE_MAP IS=min IE=max;echo 'done';
echo "there are 139 more memories to test.";echo "tr 50 M=SER_ACC_TYPE_MAP IS=min IE=max ";tr 50
M=SER_ACC_TYPE_MAP IS=min IE=max;echo 'done';
echo "there are 138 more memories to test.";echo "tr 50 M=SER_MEMORY IS=min IE=max ";tr 50
M=SER_MEMORY IS=min IE=max;echo 'done';
echo "there are 137 more memories to test.";echo "tr 50 M=SER_RESULT_0 IS=min IE=max ";tr 50
M=SER_RESULT_0 IS=min IE=max;echo 'done';
echo "there are 136 more memories to test.";echo "tr 50 M=SER_RESULT_1 IS=min IE=max ";tr 50
M=SER_RESULT_1 IS=min IE=max;echo 'done';
echo "there are 135 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_0 IS=min IE=max ";tr 50
M=SER_RESULT_DATA_0 IS=min IE=max;echo 'done';
echo "there are 134 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_1 IS=min IE=max ";tr 50
M=SER_RESULT_DATA_1 IS=min IE=max;echo 'done';
echo "there are 133 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_0 IS=min IE=max ";tr 50
M=SER_RESULT_EXPECTED_0 IS=min IE=max;echo 'done';
echo "there are 132 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_1 IS=min IE=max ";tr 50
M=SER_RESULT_EXPECTED_1 IS=min IE=max;echo 'done';
echo "there are 131 more memories to test.";echo "tr 50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ";tr
50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max;echo 'done';
echo "there are 130 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ";tr
50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max;echo 'done';
echo "there are 129 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
";tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max;echo 'done';
echo "there are 128 more memories to test.";echo "tr 50 M=SOURCE_VP IS=min IE=max ";tr 50 M=SOURCE_VP
IS=min IE=max;echo 'done';
echo "there are 127 more memories to test.";echo "tr 50 M=SOURCE_VP_2 IS=min IE=max ";tr 50
M=SOURCE_VP_2 IS=min IE=max;echo 'done';
echo "there are 126 more memories to test.";echo "tr 50 M=SRC_MODID_EGRESS IS=min IE=max ";tr 50
M=SRC_MODID_EGRESS IS=min IE=max;echo 'done';
echo "there are 125 more memories to test.";echo "tr 50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ";tr
50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max;echo 'done';
echo "there are 124 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP IS=min IE=max ";tr 50
M=SUBPORT_TAG_SGPP_MAP IS=min IE=max;echo 'done';
echo "there are 123 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=max ";tr 50 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 122 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max
";tr 50 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max;echo 'done';
echo "there are 121 more memories to test.";echo "tr 50 M=SVM_MACROFLOW_INDEX_TABLE IS=min
IE=max ";tr 50 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=max;echo 'done';
echo "there are 120 more memories to test.";echo "tr 50 M=SVM_METER_COLOR_HIER_TRUTH_TABLE
IS=min IE=max ";tr 50 M=SVM_METER_COLOR_HIER_TRUTH_TABLE IS=min IE=max;echo 'done';
echo "there are 119 more memories to test.";echo "tr 50 M=SVM_METER_COLOR_TRUTH_TABLE IS=min
IE=max ";tr 50 M=SVM_METER_COLOR_TRUTH_TABLE IS=min IE=max;echo 'done';
echo "there are 118 more memories to test.";echo "tr 50
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max ";tr 50
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max;echo 'done';
echo "there are 117 more memories to test.";echo "tr 50 M=SVM_METER_TABLE IS=min IE=max ";tr 50
M=SVM_METER_TABLE IS=min IE=max;echo 'done';
```

```
echo "there are 116 more memories to test.";echo "tr 50 M=SVM_OFFSET_TABLE IS=min IE=max ";tr 50
M=SVM_OFFSET_TABLE IS=min IE=max;echo 'done';
echo "there are 115 more memories to test.";echo "tr 50 M=SVM_POLICY_TABLE IS=min IE=max ";tr 50
M=SVM_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 114 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE IS=min IE=max ";tr 50
M=SYSTEM_CONFIG_TABLE IS=min IE=max;echo 'done';
echo "there are 113 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ";tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max;echo 'done';
echo "there are 112 more memories to test.";echo "tr 50 M=TCP_FN IS=min IE=max ";tr 50 M=TCP_FN IS=min
IE=max;echo 'done';
echo "there are 111 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_X IS=min IE=max ";tr 50
M=THDI_PORT_PG_BST_X IS=min IE=max;echo 'done';
echo "there are 110 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max;echo 'done';
echo "there are 109 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max;echo 'done';
echo "there are 108 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max;echo 'done';
echo "there are 107 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max ";tr
50 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max;echo 'done';
echo "there are 106 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_X IS=min IE=max ";tr 50
M=THDI_PORT_PG_CONFIG_X IS=min IE=max;echo 'done';
echo "there are 105 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_X IS=min IE=max ";tr 50
M=THDI_PORT_SP_BST_X IS=min IE=max;echo 'done';
echo "there are 104 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max ";tr
50 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max;echo 'done';
echo "there are 103 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max ";tr
50 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max;echo 'done';
echo "there are 102 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_X IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG0_X IS=min IE=max;echo 'done';
echo "there are 101 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_X IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG1_X IS=min IE=max;echo 'done';
echo "there are 100 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_X IS=min IE=max ";tr 50
M=THDI_PORT_SP_CONFIG_X IS=min IE=max;echo 'done';
echo "there are 99 more memories to test.";echo "tr 50 M=TOS_FN IS=min IE=max ";tr 50 M=TOS_FN IS=min
IE=max;echo 'done';
echo "there are 98 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS IS=min IE=max ";tr 50
M=TRILL_DROP_STATS IS=min IE=max;echo 'done';
echo "there are 97 more memories to test.";echo "tr 50 M=TRUNK_BITMAP IS=min IE=max ";tr 50
M=TRUNK_BITMAP IS=min IE=max;echo 'done';
echo "there are 96 more memories to test.";echo "tr 50 M=TRUNK_CBL_TABLE IS=min IE=max ";tr 50
M=TRUNK_CBL_TABLE IS=min IE=max;echo 'done';
echo "there are 95 more memories to test.";echo "tr 50 M=TRUNK_GROUP IS=min IE=max ";tr 50
M=TRUNK_GROUP IS=min IE=max;echo 'done';
echo "there are 94 more memories to test.";echo "tr 50 M=TRUNK_MEMBER IS=min IE=max ";tr 50
M=TRUNK_MEMBER IS=min IE=max;echo 'done';
echo "there are 93 more memories to test.";echo "tr 50 M=TTL_FN IS=min IE=max ";tr 50 M=TTL_FN IS=min
IE=max;echo 'done';
```

```
echo "there are 92 more memories to test.";echo "tr 50 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max ";tr
50 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max;echo 'done';
echo "there are 91 more memories to test.";echo "tr 50 M=TX_PROT_GROUP_1_TABLE IS=min IE=max ";tr 50
M=TX_PROT_GROUP_1_TABLE IS=min IE=max;echo 'done';
echo "there are 90 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=max ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max;echo 'done';
echo "there are 89 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=max ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max;echo 'done';
echo "there are 88 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET IS=min IE=max ";tr 50
M=FP_UDF_OFFSET IS=min IE=max;echo 'done';
echo "there are 87 more memories to test.";echo "tr 50 M=FP_UDF_TCAM IS=min IE=max ";tr 50
M=FP_UDF_TCAM IS=min IE=max;echo 'done';
echo "there are 86 more memories to test.";echo "tr 50 M=UNKNOWN_HGI_BITMAP IS=min IE=max ";tr 50
M=UNKNOWN_HGI_BITMAP IS=min IE=max;echo 'done';
echo "there are 85 more memories to test.";echo "tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max
";tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 84 more memories to test.";echo "tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max
";tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max;echo 'done';
echo "there are 83 more memories to test.";echo "tr 50 M=VFI IS=min IE=max ";tr 50 M=VFI IS=min
IE=max;echo 'done';
echo "there are 82 more memories to test.";echo "tr 50 M=VFI_1 IS=min IE=max ";tr 50 M=VFI_1 IS=min
IE=max;echo 'done';
echo "there are 81 more memories to test.";echo "tr 50 M=VFI_PROFILE IS=min IE=max ";tr 50
M=VFI_PROFILE IS=min IE=max;echo 'done';
echo "there are 80 more memories to test.";echo "tr 50 M=VFI_PROFILE_2 IS=min IE=max ";tr 50
M=VFI_PROFILE_2 IS=min IE=max;echo 'done';
echo "there are 79 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max;echo 'done';
echo "there are 78 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max;echo 'done';
echo "there are 77 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE IS=min IE=max ";tr 50
M=VFP_POLICY_TABLE IS=min IE=max;echo 'done';
echo "there are 76 more memories to test.";echo "tr 50 M=VFP_TCAM IS=min IE=max ";tr 50 M=VFP_TCAM
IS=min IE=max;echo 'done';
echo "there are 75 more memories to test.";echo "tr 50 M=VLAN_TAB IS=min IE=max ";tr 50 M=VLAN_TAB
IS=min IE=max;echo 'done';
echo "there are 74 more memories to test.";echo "tr 50 M=VLAN_MAC IS=min IE=max ";tr 50 M=VLAN_MAC
IS=min IE=max;echo 'done';
echo "there are 73 more memories to test.";echo "tr 50 M=VLAN_MPLS IS=min IE=max ";tr 50 M=VLAN_MPLS
IS=min IE=max;echo 'done';
echo "there are 72 more memories to test.";echo "tr 50 M=VLAN_PROFILE_TAB IS=min IE=max ";tr 50
M=VLAN_PROFILE_TAB IS=min IE=max;echo 'done';
echo "there are 71 more memories to test.";echo "tr 50 M=VLAN_PROFILE_2 IS=min IE=max ";tr 50
M=VLAN_PROFILE_2 IS=min IE=max;echo 'done';
echo "there are 70 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL IS=min IE=max ";tr 50
M=VLAN_PROTOCOL IS=min IE=max;echo 'done';
echo "there are 69 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=max ";tr 50
M=VLAN_PROTOCOL_DATA IS=min IE=max;echo 'done';
```

```
echo "there are 68 more memories to test.";echo "tr 50 M=STG_TAB IS=min IE=max ";tr 50 M=STG_TAB IS=min
IE=max;echo 'done';
echo "there are 67 more memories to test.";echo "tr 50 M=VLAN_SUBNET IS=min IE=max ";tr 50
M=VLAN_SUBNET IS=min IE=max;echo 'done';
echo "there are 66 more memories to test.";echo "tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ";tr 50
M=VLAN_SUBNET_DATA_ONLY IS=min IE=max;echo 'done';
echo "there are 65 more memories to test.";echo "tr 50 M=VLAN_SUBNET_ONLY IS=min IE=max ";tr 50
M=VLAN_SUBNET_ONLY IS=min IE=max;echo 'done';
echo "there are 64 more memories to test.";echo "tr 50 M=VLAN_XLATE IS=min IE=max ";tr 50
M=VLAN_XLATE IS=min IE=max;echo 'done';
echo "there are 63 more memories to test.";echo "tr 50 M=VLAN_XLATE_ECC IS=min IE=max ";tr 50
M=VLAN_XLATE_ECC IS=min IE=max;echo 'done';
echo "there are 62 more memories to test.";echo "tr 50 M=VLAN_XLATE_LP IS=min IE=max ";tr 50
M=VLAN_XLATE_LP IS=min IE=max;echo 'done';
echo "there are 61 more memories to test.";echo "tr 50 M=VOQ_COS_MAP IS=min IE=max ";tr 50
M=VOQ_COS_MAP IS=min IE=max;echo 'done';
echo "there are 60 more memories to test.";echo "tr 50 M=VOQ_MOD_MAP IS=min IE=max ";tr 50
M=VOQ_MOD_MAP IS=min IE=max;echo 'done';
echo "there are 59 more memories to test.";echo "tr 50 M=VOQ_PORT_MAP IS=min IE=max ";tr 50
M=VOQ_PORT_MAP IS=min IE=max;echo 'done';
echo "there are 58 more memories to test.";echo "tr 50 M=VRF IS=min IE=max ";tr 50 M=VRF IS=min
IE=max;echo 'done';
#echo "there are 57 more memories to test.";echo "tr 50 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ";tr
50 M=XLPORT_WC_UCMEM_DATA IS=min IE=max;echo 'done';
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 56  more memories to test.';echo 'tr 50  M=EARB_FLEX_OPCODE IS=min IE=max';tr 50
M=EARB_FLEX_OPCODE IS=min IE=max; echo 'done';
#echo 'there are 55  more memories to test.';echo 'tr 50  M=EDB_1DBG_B IS=min IE=max';tr 50
M=EDB_1DBG_B IS=min IE=max; echo 'done';
#echo 'there are 54  more memories to test.';echo 'tr 50  M=EINITBUF_PACKET_BUFFER0 IS=min IE=max';tr 50
M=EINITBUF_PACKET_BUFFER0 IS=min IE=max; echo 'done';
#echo 'there are 53  more memories to test.';echo 'tr 50  M=EINITBUF_PACKET_BUFFER1 IS=min IE=max';tr 50
M=EINITBUF_PACKET_BUFFER1 IS=min IE=max; echo 'done';
#echo 'there are 52  more memories to test.';echo 'tr 50  M=EINITBUF_PACKET_BUFFER2 IS=min IE=max';tr 50
M=EINITBUF_PACKET_BUFFER2 IS=min IE=max; echo 'done';
#echo 'there are 51  more memories to test.';echo 'tr 50  M=EINITBUF_PACKET_BUFFER3 IS=min IE=max';tr 50
M=EINITBUF_PACKET_BUFFER3 IS=min IE=max; echo 'done';
#echo 'there are 50  more memories to test.';echo 'tr 50  M=EINITBUF_PACKET_BUFFER4 IS=min IE=max';tr 50
M=EINITBUF_PACKET_BUFFER4 IS=min IE=max; echo 'done';
#echo 'there are 49  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=max';tr 50 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 48  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min
IE=max';tr 50 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 47  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=max';tr 50 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 46  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min
IE=max';tr 50 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 45  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
```

```
IE=max';tr 50 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 44  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min
IE=max';tr 50 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=max; echo 'done';
#echo 'there are 43  more memories to test.';echo 'tr 50  M=IARB_FLEX_OPCODE IS=min IE=max';tr 50
M=IARB_FLEX_OPCODE IS=min IE=max; echo 'done';
#echo 'there are 42  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_0_HI IS=min IE=max';tr 50
M=ING_PBI_DEBUG_0_HI IS=min IE=max; echo 'done';
#echo 'there are 41  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_0_LO IS=min IE=max';tr 50
M=ING_PBI_DEBUG_0_LO IS=min IE=max; echo 'done';
#echo 'there are 40  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_1 IS=min IE=max';tr 50
M=ING_PBI_DEBUG_1 IS=min IE=max; echo 'done';
#echo 'there are 39  more memories to test.';echo 'tr 50  M=ING_SERVICE_PRI_MAP IS=min IE=max';tr 50
M=ING_SERVICE_PRI_MAP IS=min IE=max; echo 'done';
#echo 'there are 38  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER0 IS=min IE=max';tr 50
M=IPARS_PACKET_BUFFER0 IS=min IE=max; echo 'done';
#echo 'there are 37  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER1 IS=min IE=max';tr 50
M=IPARS_PACKET_BUFFER1 IS=min IE=max; echo 'done';
#echo 'there are 36  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER2 IS=min IE=max';tr 50
M=IPARS_PACKET_BUFFER2 IS=min IE=max; echo 'done';
#echo 'there are 35  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER3 IS=min IE=max';tr 50
M=IPARS_PACKET_BUFFER3 IS=min IE=max; echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER4 IS=min IE=max';tr 50
M=IPARS_PACKET_BUFFER4 IS=min IE=max; echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 50  M=LINK_STATUS IS=min IE=max';tr 50
M=LINK_STATUS IS=min IE=max; echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 50  M=LLS_S1_L0_LOOKUP IS=min IE=max';tr 50
M=LLS_S1_L0_LOOKUP IS=min IE=max; echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 50  M=LMEP IS=min IE=max';tr 50 M=LMEP IS=min
IE=max; echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 50  M=LMEP_DA IS=min IE=max';tr 50 M=LMEP_DA
IS=min IE=max; echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 50  M=OAM_LM_COUNTERS IS=min IE=max';tr 50
M=OAM_LM_COUNTERS IS=min IE=max; echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 50 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max';tr
50 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES IS=min IE=max';tr 50
M=EGR_MAX_USED_ENTRIES IS=min IE=max;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS IS=min IE=max';tr 50
M=EGR_MMU_REQUESTS IS=min IE=max;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 50 M=EGR_PBE_DEBUG_0 IS=min IE=max';tr 50
M=EGR_PBE_DEBUG_0 IS=min IE=max;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS IS=min IE=max';tr 50
M=EGR_PORT_REQUESTS IS=min IE=max;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 50 M=IARB_IPAD_DEBUG IS=min IE=max';tr 50
M=IARB_IPAD_DEBUG IS=min IE=max;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 50 M=IARB_MH_DEBUG IS=min IE=max';tr 50
M=IARB_MH_DEBUG IS=min IE=max;echo 'done';
```

```
#echo 'there are 21 more memories to test.';echo 'tr 50 M=LLS_S1_NEXT IS=min IE=max';tr 50
M=LLS_S1_NEXT IS=min IE=max;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 50 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min
IE=max';tr 50 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min IE=max;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
IS=min IE=max';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=max;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 50 M=RDB_BANK_0_0 IS=min IE=max';tr 50
M=RDB_BANK_0_0 IS=min IE=max;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 50 M=RDB_BANK_0_1 IS=min IE=max';tr 50
M=RDB_BANK_0_1 IS=min IE=max;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 50 M=RDB_BANK_1_0 IS=min IE=max';tr 50
M=RDB_BANK_1_0 IS=min IE=max;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 50 M=RDB_BANK_1_1 IS=min IE=max';tr 50
M=RDB_BANK_1_1 IS=min IE=max;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 50 M=RDB_BANK_2_0 IS=min IE=max';tr 50
M=RDB_BANK_2_0 IS=min IE=max;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 50 M=RDB_BANK_2_1 IS=min IE=max';tr 50
M=RDB_BANK_2_1 IS=min IE=max;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 50 M=RDB_BANK_3_0 IS=min IE=max';tr 50
M=RDB_BANK_3_0 IS=min IE=max;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 50 M=RDB_BANK_3_1 IS=min IE=max';tr 50
M=RDB_BANK_3_1 IS=min IE=max;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 50 M=RDB_CEL IS=min IE=max';tr 50 M=RDB_CEL IS=min
IE=max;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 50 M=RDB_CONTEXT IS=min IE=max';tr 50
M=RDB_CONTEXT IS=min IE=max;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 50 M=RDB_CXT_AB IS=min IE=max';tr 50 M=RDB_CXT_AB
IS=min IE=max;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 50 M=RDB_CXT_CD IS=min IE=max';tr 50 M=RDB_CXT_CD
IS=min IE=max;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 50 M=RDB_FCP_0 IS=min IE=max';tr 50 M=RDB_FCP_0
IS=min IE=max;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 50 M=RDB_FCP_1 IS=min IE=max';tr 50 M=RDB_FCP_1
IS=min IE=max;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 50 M=RDB_FCP_2 IS=min IE=max';tr 50 M=RDB_FCP_2
IS=min IE=max;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 50 M=RDB_FCP_3 IS=min IE=max';tr 50 M=RDB_FCP_3
IS=min IE=max;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 50 M=RDB_PKT IS=min IE=max';tr 50 M=RDB_PKT IS=min
IE=max;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 50 M=RDB_QUEUE IS=min IE=max';tr 50 M=RDB_QUEUE
IS=min IE=max;echo 'done';

echo "tr 50 done"
config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/rc/tr50_bcm56560_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88790_a0.c
* Purpose:     bcm88790_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88790_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_cint.stg,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cop_cint_data.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_cop_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra28_cfg_seq.c, 2015/01/16 aman $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: quadra28.c
* Purpose: tier1 phymod microcode download support for Broadcom 40G Quadra28
```

```
* note
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.82 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/l3.c
* Purpose: BCMX L3 APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       jer2_arad_link.h
* Purpose:     Arad linkscan definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tas.c
* Purpose:     TAS driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tas.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_ifp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_ifp.c
* Purpose: Maintains all the debug information for ifp
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/ifp/trident2_ifp.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws_test4.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws_test4.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88030_a1.c
* Purpose:    bcm88030_a1 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88030_a1.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_occupation_mgmt.h,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_occupation_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trx.h,v 1.107 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trx.h
* Purpose:    Function declarations for Triumph Micro Architecture
*             based devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trx.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: nlmcmbasic.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmbasic.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: client_tx.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       client_tx.c
* Purpose:    Client implementation of bcm_tx* functions.
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/client_tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpCounterConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpCounterConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy542xx_int.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy542xx_int.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_vsi.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_vsi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom RoboSwitch Mirror API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    Hercules port function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmFbLine.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmFbLine.hx
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#

# run g3p1 ucode
diag_emulator_partial_init=0
#lrp_bypass=2
load_firmware=0x1
pr_line_buffer_profile=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# ucode port definition
ucode_num_ports.0=7

# 40G port on WC1
#ucode_port.port1.0=clport0.xe.0.0-1/0/192/1:il1.il100.0.1-1/68/132/1
#ucode_port.port2.0=clport0.xe.0.1-1/1/193/1:il1.il100.0.2-1/69/133/1
#ucode_port.port3.0=clport0.xe.0.2-1/2/194/1:il1.il100.0.3-1/70/134/1
#ucode_port.port4.0=clport0.xe.0.3-1/3/195/1:il1.il100.0.4-1/71/135/1
#ucode_port.port5.0=clport0.xle.1.0-1/4/196/1:il1.il100.0.0-1/72/136/1
#ucode_port.port9.0=clport0.xe.1.0-1/8/200/1:il1.il100.0.5-1/76/140/1
#ucode_port.port10.0=clport0.xe.1.1-1/9/201/1:il1.il100.0.6-1/77/141/1
#tx_fifo_size_tdm38_0=32
#line_port_calendar=0,1,4,2,3,4,8,9,4,10,11,4,48,0,1,4,2,3,4,8,9,4,10,11,4,49,0,1,4,2,3,4,8,9,4,10,11,4,50,
#xgxs_rx_lane_map_xe0=0x1230
#xgxs_rx_lane_map_xe4=0x1032
#xgxs_rx_lane_map_xe8=0x1230
#xgxs_tx_lane_map_xe0=0x1032
#xgxs_tx_lane_map_xe4=0x3210
#xgxs_tx_lane_map_xe8=0x1032
#phy_xaui_rx_polarity_flip_xe0=0x0001
#phy_xaui_rx_polarity_flip_xe1=0x0000
#phy_xaui_rx_polarity_flip_xe2=0x0000
#phy_xaui_rx_polarity_flip_xe3=0x0001
#phy_xaui_rx_polarity_flip_xe4=0x000f
#phy_xaui_rx_polarity_flip_xe8=0x0001
#phy_xaui_rx_polarity_flip_xe9=0x0001
#phy_xaui_rx_polarity_flip_xe10=0x0000
#phy_xaui_rx_polarity_flip_xe11=0x0001
#phy_xaui_tx_polarity_flip_xe0=0x0001
#phy_xaui_tx_polarity_flip_xe1=0x0001
#phy_xaui_tx_polarity_flip_xe2=0x0000
```

```
#phy_xaui_tx_polarity_flip_xe3=0x0000
#phy_xaui_tx_polarity_flip_xe4=0x000f
#phy_xaui_tx_polarity_flip_xe8=0x0000
#phy_xaui_tx_polarity_flip_xe9=0x0000
#phy_xaui_tx_polarity_flip_xe10=0x0001
#phy_xaui_tx_polarity_flip_xe11=0x0001

# 40G port on WC2
ucode_port.port1.0=clport0.xe.0.0-1/0/192/1:il1.il100.0.1-1/64/128/1
ucode_port.port2.0=clport0.xe.0.1-1/1/193/1:il1.il100.0.2-1/65/129/1
ucode_port.port3.0=clport0.xe.0.2-1/2/194/1:il1.il100.0.3-1/66/130/1
ucode_port.port4.0=clport0.xe.0.3-1/3/195/1:il1.il100.0.4-1/67/131/1
ucode_port.port5.0=clport0.xe.1.0-1/4/196/1:il1.il100.0.5-1/68/132/1
ucode_port.port6.0=clport0.xe.1.1-1/5/197/1:il1.il100.0.6-1/69/133/1
ucode_port.port7.0=clport0.xle.2.0-1/8/200/1:il1.il100.0.0-1/72/136/1
#tx_fifo_size_tdm42_8=32
# Only part of the following long line is taken.
line_port_calendar=0,1,8,2,3,8,4,5,8,6,7,8,48,0,1,8,2,3,8,4,5,8,6,7,8,0,1,8,2,3,8,4,5,8,6,7,8,49,0,1,8,2,3,8,4,5,8,6,7,8,
50
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe6=0x1230
xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe6=0x1032
phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x000b
phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x000c


#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
```

```
xgxs_tx_lane_map_core2_il0=0x1032

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
```

ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999
ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e

ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-6x10g_1x40g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_jer_ingress_traffic_mgmt.c,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkOamMem.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: TkOamMem.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ea/tk371x/TkOamMem.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  eagle_tsc_functions.c                                   *
*  Created On    :  29/04/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: eagle_tsc_functions.c 1140 2015-09-18 21:05:29Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_multicast_id_map.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE MULTICAST ID MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/dfe_multicast_id_map.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
*/
/*
****
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
   OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
   OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
   ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

```
*****************************************************************************************
*/
/*
* $Id: nlmrangemgr_refapp2.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp2/nlmrangemgr_refapp2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ipv6.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_ipv6.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_ipv6.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sat.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Common internal definitions for BCM sat module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/bcm_int/common/sat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_llp_vid_assign.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_vid_assign.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch FCMAP PHY control
* FCMAP PHY initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/fcmapphy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_link_bonding.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_link_bonding.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       completion.h
* Purpose:    Completion interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/completion.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_trunk.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_trunk.c
* Purpose: The cint creates a Trunk containing several ports
*
*   default trunk example
*  ----------------------------
*   run:
*   cint utility/cint_utils_global.c
*   cint cint_trunk.c
*   c
*   run :
*   print main_trunk(unit, is_hash_mode, double_lbk_rng_enable, port_0, port_1, port_2, port_3, in_local_port, trunk_id);
*
*      is_hashing_mode - use hashing lb-key or round-robin mode.
*      double_lbk_rng_enable - supported only in ARAD+.
*                              if set needs to config soc property: system_ftmh_load_balancing_ext_mod = STANDBY_MC_LB.
*
* Notes: trunk_create - routine shows example how to create lag
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC-related CLI commands
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/soc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enduro.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       enduro.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/enduro.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fabric.c
* Purpose:     fabric CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/fabric.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_command.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_command.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_port.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: PORT warmboot APIs
*
```

```
* Purpose:
*     PORT API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84740_ucode.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84740_ucode.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_l2.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file provides Port Extender basic functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_extender.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc

echo "there are 3623 more memories to test.";echo "tr 52 M=AGM_MONITOR_TABLE IS=min IE=max ITERations=1";tr 52 M=AGM_MONITOR_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3622 more memories to test.";echo "tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1";tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3621 more memories to test.";echo "tr 52 M=BCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
#echo "there are 3620 more memories to test.";echo "tr 52 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max
ITERations=1";tr 52 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 3619 more memories to test.";echo "tr 52 M=CLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 52 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 3618 more memories to test.";echo "tr 52 M=PORT_COS_MAP IS=min IE=max ITERations=1";tr
52 M=PORT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3617 more memories to test.";echo "tr 52 M=COS_MAP_SEL IS=min IE=max ITERations=1";tr 52
M=COS_MAP_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 3616 more memories to test.";echo "tr 52 M=CPU_COS_MAP IS=min IE=max ITERations=1";tr 52
M=CPU_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3615 more memories to test.";echo "tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3614 more memories to test.";echo "tr 52 M=CPU_COS_MAP_ONLY IS=min IE=max
ITERations=1";tr 52 M=CPU_COS_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 3613 more memories to test.";echo "tr 52 M=CPU_PBM IS=min IE=max ITERations=1";tr 52
M=CPU_PBM IS=min IE=max ITERations=1;echo "done";
#echo "there are 3612 more memories to test.";echo "tr 52 M=CPU_PBM_2 IS=min IE=max ITERations=1";tr 52
M=CPU_PBM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3611 more memories to test.";echo "tr 52 M=CPU_TS_MAP IS=min IE=max ITERations=1";tr 52
M=CPU_TS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3610 more memories to test.";echo "tr 52 M=DEST_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 52 M=DEST_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3609 more memories to test.";echo "tr 52 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min
IE=max ITERations=1";tr 52 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3608 more memories to test.";echo "tr 52 M=DLB_ECMP_EEM_CONFIGURATION IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_EEM_CONFIGURATION IS=min IE=max ITERations=1;echo
"done";
echo "there are 3607 more memories to test.";echo "tr 52 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 3606 more memories to test.";echo "tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3605 more memories to test.";echo "tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3604 more memories to test.";echo "tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3603 more memories to test.";echo "tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3602 more memories to test.";echo "tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3601 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 3600 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3599 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3598 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3597 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3596 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3595 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3594 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3593 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3592 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3591 more memories to test.";echo "tr 52 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3590 more memories to test.";echo "tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3589 more memories to test.";echo "tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3588 more memories to test.";echo "tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3587 more memories to test.";echo "tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3586 more memories to test.";echo "tr 52 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD IS=min IE=max
ITERations=1;echo "done";
echo "there are 3585 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3584 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo
"done";
echo "there are 3583 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min IE=max
ITERations=1;echo "done";
echo "there are 3582 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_STATS IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 3581 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3580 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3579 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3578 more memories to test.";echo "tr 52 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3577 more memories to test.";echo "tr 52 M=DLB_ECMP_LINK_CONTROL IS=min IE=max
ITERations=1";tr 52 M=DLB_ECMP_LINK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3576 more memories to test.";echo "tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3575 more memories to test.";echo "tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3574 more memories to test.";echo "tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3573 more memories to test.";echo "tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3572 more memories to test.";echo "tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3571 more memories to test.";echo "tr 52 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE
IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3570 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3569 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3568 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
```

M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3567 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3566 more memories to test.";echo "tr 52 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3565 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3564 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3563 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3562 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3561 more memories to test.";echo "tr 52 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3560 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3559 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3558 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3557 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3556 more memories to test.";echo "tr 52
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ITERations=1";tr 52 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3555 more memories to test.";echo "tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3554 more memories to test.";echo "tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo

```
"done";
echo "there are 3553 more memories to test.";echo "tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3552 more memories to test.";echo "tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3551 more memories to test.";echo "tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3550 more memories to test.";echo "tr 52 M=DLB_ECMP_QUANTIZE_CONTROL IS=min
IE=max ITERations=1";tr 52 M=DLB_ECMP_QUANTIZE_CONTROL IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3549 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min IE=max ITERations=1;echo
"done";
echo "there are 3548 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3547 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3546 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3545 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3544 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3543 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3542 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 3541 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3540 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3539 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max
```

```
ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3538 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3537 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3536 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3535 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3534 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3533 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3532 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD IS=min IE=max
ITERations=1;echo "done";
echo "there are 3531 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_CONTROL IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3530 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo
"done";
echo "there are 3529 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 3528 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3527 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3526 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3525 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3524 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_LINK_CONTROL IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_LINK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3523 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3522 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 3521 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3520 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3519 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3518 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3517 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3516 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3515 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3514 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3513 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3512 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3511 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3510 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3509 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3508 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING IS=min IE=max
ITERations=1;echo "done";
echo "there are 3507 more memories to test.";echo "tr 52
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1";tr 52
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3506 more memories to test.";echo "tr 52
```

M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3505 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3504 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3503 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3502 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3501 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3500 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3499 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3498 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3497 more memories to test.";echo "tr 52 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3496 more memories to test.";echo "tr 52 M=DSCP_TABLE IS=min IE=max ITERations=1";tr 52 M=DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3495 more memories to test.";echo "tr 52 M=DST_COMPRESSION IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION IS=min IE=max ITERations=1;echo "done";
echo "there are 3494 more memories to test.";echo "tr 52 M=DST_COMPRESSION_DATA_ONLY IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3493 more memories to test.";echo "tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3492 more memories to test.";echo "tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min

```
IE=max ITERations=1";tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3491 more memories to test.";echo "tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3490 more memories to test.";echo "tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3489 more memories to test.";echo "tr 52 M=DST_COMPRESSION_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=DST_COMPRESSION_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3488 more memories to test.";echo "tr 52 M=DST_COMPRESSION_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=DST_COMPRESSION_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3487 more memories to test.";echo "tr 52 M=DST_COMPRESSION_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=DST_COMPRESSION_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3486 more memories to test.";echo "tr 52 M=DST_COMPRESSION_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=DST_COMPRESSION_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3485 more memories to test.";echo "tr 52 M=DST_COMPRESSION_TCAM_ONLY IS=min
IE=max ITERations=1";tr 52 M=DST_COMPRESSION_TCAM_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 3484 more memories to test.";echo "tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE0
IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3483 more memories to test.";echo "tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE1
IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3482 more memories to test.";echo "tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE2
IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3481 more memories to test.";echo "tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE3
IS=min IE=max ITERations=1";tr 52 M=DST_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3480 more memories to test.";echo "tr 52 M=ECMP_DLB_CONTROL IS=min IE=max
ITERations=1";tr 52 M=ECMP_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3479 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3478 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3477 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3476 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3475 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3474 more memories to test.";echo "tr 52 M=EFP_METER_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3473 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EFP_METER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3472 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_PIPE1 IS=min IE=max
```

```
ITERations=1";tr 52 M=EFP_METER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3471 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EFP_METER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3470 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EFP_METER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3469 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3468 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3467 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3466 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3465 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3464 more memories to test.";echo "tr 52 M=EFP_TCAM IS=min IE=max ITERations=1";tr 52
M=EFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 3463 more memories to test.";echo "tr 52 M=EFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
52 M=EFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3462 more memories to test.";echo "tr 52 M=EFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
52 M=EFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3461 more memories to test.";echo "tr 52 M=EFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
52 M=EFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3460 more memories to test.";echo "tr 52 M=EFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
52 M=EFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3459 more memories to test.";echo "tr 52 M=EGR_1588_SA IS=min IE=max ITERations=1";tr 52
M=EGR_1588_SA IS=min IE=max ITERations=1;echo "done";
echo "there are 3458 more memories to test.";echo "tr 52 M=EGR_DSCP_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3457 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=max
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 3456 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3455 more memories to test.";echo "tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 3454 more memories to test.";echo "tr 52 M=EGR_ENABLE IS=min IE=max ITERations=1";tr 52
M=EGR_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3453 more memories to test.";echo "tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3452 more memories to test.";echo "tr 52 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 52 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3451 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COS_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3450 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3449 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0
```

IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3448 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3447 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3446 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3445 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3444 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3443 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3442 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3441 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3440 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3439 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3438 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3437 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3436 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3435 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3434 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3433 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1

```
IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3432 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3431 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3430 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3429 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3428 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3427 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3426 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3425 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3424 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3423 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3422 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3421 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3420 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3419 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3418 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3417 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3416 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=max
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=max ITERations=1;echo "done";
echo "there are 3415 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=max ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 3414 more memories to test.";echo "tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max
ITERations=1";tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 3413 more memories to test.";echo "tr 52 M=EGR_ING_PORT IS=min IE=max ITERations=1";tr
52 M=EGR_ING_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 3412 more memories to test.";echo "tr 52 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 52 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3411 more memories to test.";echo "tr 52 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3410 more memories to test.";echo "tr 52 M=EGR_INT_CN_UPDATE IS=min IE=max
ITERations=1";tr 52 M=EGR_INT_CN_UPDATE IS=min IE=max ITERations=1;echo "done";
echo "there are 3409 more memories to test.";echo "tr 52 M=EGR_IPMC IS=min IE=max ITERations=1";tr 52
M=EGR_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 3408 more memories to test.";echo "tr 52 M=EGR_IP_CUT_THRU_CLASS IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_CUT_THRU_CLASS IS=min IE=max ITERations=1;echo "done";
echo "there are 3407 more memories to test.";echo "tr 52 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 52 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3406 more memories to test.";echo "tr 52 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3405 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1";tr
52 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 3404 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ITERations=1;echo "done";
echo "there are 3403 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 3402 more memories to test.";echo "tr 52 M=EGR_L3_INTF IS=min IE=max ITERations=1";tr 52
M=EGR_L3_INTF IS=min IE=max ITERations=1;echo "done";
echo "there are 3401 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 3400 more memories to test.";echo "tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3399 more memories to test.";echo "tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3398 more memories to test.";echo "tr 52 M=EGR_MAP_MH IS=min IE=max ITERations=1";tr 52
M=EGR_MAP_MH IS=min IE=max ITERations=1;echo "done";
echo "there are 3397 more memories to test.";echo "tr 52 M=EGR_MASK IS=min IE=max ITERations=1";tr 52
M=EGR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 3396 more memories to test.";echo "tr 52 M=EGR_MASK_MODBASE IS=min IE=max
ITERations=1";tr 52 M=EGR_MASK_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 3395 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3394 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3393 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3392 more memories to test.";echo "tr 52 M=EGR_MMU_CELL_CREDIT IS=min IE=max
```

```
ITERations=1";tr 52 M=EGR_MMU_CELL_CREDIT IS=min IE=max ITERations=1;echo "done";
echo "there are 3391 more memories to test.";echo "tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3390 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3389 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3388 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3387 more memories to test.";echo "tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3386 more memories to test.";echo "tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ITERations=1";tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3385 more memories to test.";echo "tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
ITERations=1";tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max ITERations=1;echo "done";
echo "there are 3384 more memories to test.";echo "tr 52 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS
IS=min IE=max ITERations=1";tr 52 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS IS=min IE=max
ITERations=1;echo "done";
echo "there are 3383 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max
ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 3382 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3381 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3380 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3379 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3378 more memories to test.";echo "tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ITERations=1";tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max ITERations=1;echo
"done";
echo "there are 3377 more memories to test.";echo "tr 52 M=EGR_PORT IS=min IE=max ITERations=1";tr 52
M=EGR_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 3376 more memories to test.";echo "tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=max
ITERations=1";tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=max ITERations=1;echo "done";
echo "there are 3375 more memories to test.";echo "tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3374 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 3373 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3372 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3371 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3370 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3369 more memories to test.";echo "tr 52 M=EGR_SER_FIFO IS=min IE=max ITERations=1";tr
52 M=EGR_SER_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 3368 more memories to test.";echo "tr 52 M=EGR_SER_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EGR_SER_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3367 more memories to test.";echo "tr 52 M=EGR_SER_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=EGR_SER_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3366 more memories to test.";echo "tr 52 M=EGR_SER_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EGR_SER_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3365 more memories to test.";echo "tr 52 M=EGR_SER_FIFO_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EGR_SER_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3364 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 3363 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min
IE=max ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3362 more memories to test.";echo "tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=max ITERations=1";tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max ITERations=1;echo
"done";
echo "there are 3361 more memories to test.";echo "tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3360 more memories to test.";echo "tr 52 M=EGR_TS_ING_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_TS_ING_PORT_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3359 more memories to test.";echo "tr 52 M=EGR_TS_UTC_CONVERSION IS=min IE=max
ITERations=1";tr 52 M=EGR_TS_UTC_CONVERSION IS=min IE=max ITERations=1;echo "done";
echo "there are 3358 more memories to test.";echo "tr 52 M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max
ITERations=1";tr 52 M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3357 more memories to test.";echo "tr 52 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3356 more memories to test.";echo "tr 52 M=EGR_VFI IS=min IE=max ITERations=1";tr 52
M=EGR_VFI IS=min IE=max ITERations=1;echo "done";
echo "there are 3355 more memories to test.";echo "tr 52 M=EGR_VLAN IS=min IE=max ITERations=1";tr 52
M=EGR_VLAN IS=min IE=max ITERations=1;echo "done";
echo "there are 3354 more memories to test.";echo "tr 52 M=EGR_VLAN_STG IS=min IE=max ITERations=1";tr
52 M=EGR_VLAN_STG IS=min IE=max ITERations=1;echo "done";
echo "there are 3353 more memories to test.";echo "tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3352 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 3351 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 3350 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 3349 more memories to test.";echo "tr 52 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3348 more memories to test.";echo "tr 52 M=EGR_VPLAG_GROUP IS=min IE=max
ITERations=1";tr 52 M=EGR_VPLAG_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 3347 more memories to test.";echo "tr 52 M=EGR_VPLAG_MEMBER IS=min IE=max
ITERations=1";tr 52 M=EGR_VPLAG_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3346 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 3345 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max ITERations=1;echo
"done";
echo "there are 3344 more memories to test.";echo "tr 52 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max
ITERations=1";tr 52 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 3343 more memories to test.";echo "tr 52 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max
ITERations=1";tr 52 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 3342 more memories to test.";echo "tr 52 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max
ITERations=1";tr 52 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 3341 more memories to test.";echo "tr 52 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max
ITERations=1";tr 52 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 3340 more memories to test.";echo "tr 52 M=EGR_XMIT_START_COUNT IS=min IE=max
ITERations=1";tr 52 M=EGR_XMIT_START_COUNT IS=min IE=max ITERations=1;echo "done";
echo "there are 3339 more memories to test.";echo "tr 52 M=EGR_XMIT_START_COUNT_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=EGR_XMIT_START_COUNT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3338 more memories to test.";echo "tr 52 M=EGR_XMIT_START_COUNT_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=EGR_XMIT_START_COUNT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3337 more memories to test.";echo "tr 52 M=EGR_XMIT_START_COUNT_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=EGR_XMIT_START_COUNT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3336 more memories to test.";echo "tr 52 M=EGR_XMIT_START_COUNT_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=EGR_XMIT_START_COUNT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3335 more memories to test.";echo "tr 52 M=EH_MASK_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EH_MASK_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3334 more memories to test.";echo "tr 52 M=EH_MASK_PROFILE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=EH_MASK_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3333 more memories to test.";echo "tr 52 M=EH_MASK_PROFILE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=EH_MASK_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3332 more memories to test.";echo "tr 52 M=EH_MASK_PROFILE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=EH_MASK_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3331 more memories to test.";echo "tr 52 M=EH_MASK_PROFILE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=EH_MASK_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3330 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3329 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL1 IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3328 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL2 IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3327 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL3 IS=min IE=max
```

```
ITERations=1";tr 52 M=EMIRROR_CONTROL3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3326 more memories to test.";echo "tr 52 M=EM_MTP_INDEX IS=min IE=max ITERations=1";tr
52 M=EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
#echo "there are 3325 more memories to test.";echo "tr 52 M=EPC_LINK_BMAP IS=min IE=max
ITERations=1";tr 52 M=EPC_LINK_BMAP IS=min IE=max ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3324 more memories to test.";echo "tr 52 M=EXACT_MATCH_2 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3323 more memories to test.";echo "tr 52
M=EXACT_MATCH_2_ENTRY_ONLY IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_2_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3322 more memories to test.";echo "tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3321 more memories to test.";echo "tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3320 more memories to test.";echo "tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3319 more memories to test.";echo "tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3318 more memories to test.";echo "tr 52 M=EXACT_MATCH_2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_2_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3317 more memories to test.";echo "tr 52 M=EXACT_MATCH_2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_2_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3316 more memories to test.";echo "tr 52 M=EXACT_MATCH_2_PIPE2
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_2_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3315 more memories to test.";echo "tr 52 M=EXACT_MATCH_2_PIPE3
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_2_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3314 more memories to test.";echo "tr 52 M=EXACT_MATCH_4 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_4 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3313 more memories to test.";echo "tr 52
M=EXACT_MATCH_4_ENTRY_ONLY IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_4_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3312 more memories to test.";echo "tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3311 more memories to test.";echo "tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3310 more memories to test.";echo "tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3309 more memories to test.";echo "tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3308 more memories to test.";echo "tr 52 M=EXACT_MATCH_4_PIPE0
```

```
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_4_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3307 more memories to test.";echo "tr 52 M=EXACT_MATCH_4_PIPE1
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_4_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3306 more memories to test.";echo "tr 52 M=EXACT_MATCH_4_PIPE2
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_4_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3305 more memories to test.";echo "tr 52 M=EXACT_MATCH_4_PIPE3
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_4_PIPE3 IS=min IE=max ITERations=1;echo "done";'
echo "there are 3304 more memories to test.";echo "tr 52 M=EXACT_MATCH_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3303 more memories to test.";echo "tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE0
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3302 more memories to test.";echo "tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE1
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3301 more memories to test.";echo "tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE2
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3300 more memories to test.";echo "tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE3
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_ACTION_PROFILE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3299 more memories to test.";echo "tr 52 M=EXACT_MATCH_DEFAULT_POLICY IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_DEFAULT_POLICY IS=min IE=max ITERations=1;echo
"done";
echo "there are 3298 more memories to test.";echo "tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3297 more memories to test.";echo "tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3296 more memories to test.";echo "tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3295 more memories to test.";echo "tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3294 more memories to test.";echo "tr 52
M=EXACT_MATCH_HIT_ONLY IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_HIT_ONLY
IS=min IE=max ITERations=1;echo "done";'
echo "there are 3293 more memories to test.";echo "tr 52 M=EXACT_MATCH_KEY_GEN_MASK IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_KEY_GEN_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 3292 more memories to test.";echo "tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3291 more memories to test.";echo "tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 3290 more memories to test.";echo "tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3289 more memories to test.";echo "tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3288 more memories to test.";echo "tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3287 more memories to test.";echo "tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3286 more memories to test.";echo "tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3285 more memories to test.";echo "tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3284 more memories to test.";echo "tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3283 more memories to test.";echo "tr 52 M=EXACT_MATCH_LOGICAL_TABLE_SELECT
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_LOGICAL_TABLE_SELECT IS=min IE=max
ITERations=1;echo "done";
echo "there are 3282 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3281 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3280 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3279 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3278 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3277 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3276 more memories to test.";echo "tr 52
```

```
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3275 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3274 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3273 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3272 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3271 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3270 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3269 more memories to test.";echo "tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3268 more memories to test.";echo "tr 52 M=EXACT_MATCH_QOS_ACTIONS_PROFILE
IS=min IE=max ITERations=1";tr 52 M=EXACT_MATCH_QOS_ACTIONS_PROFILE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3267 more memories to test.";echo "tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3266 more memories to test.";echo "tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3265 more memories to test.";echo "tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3264 more memories to test.";echo "tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max ITERations=1";tr 52
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3263 more memories to test.";echo "tr 52 M=FAST_TRUNK_GROUP IS=min IE=max
ITERations=1";tr 52 M=FAST_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3262 more memories to test.";echo "tr 52 M=FPEM_ECC IS=min IE=max
ITERations=1";tr 52 M=FPEM_ECC IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3261 more memories to test.";echo "tr 52 M=FPEM_ECC_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=FPEM_ECC_PIPE0 IS=min IE=max ITERations=1;echo "done";'
```

```
if $?fpem_mem_entries 'echo "there are 3260 more memories to test.";echo "tr 52 M=FPEM_ECC_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=FPEM_ECC_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3259 more memories to test.";echo "tr 52 M=FPEM_ECC_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=FPEM_ECC_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3258 more memories to test.";echo "tr 52 M=FPEM_ECC_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=FPEM_ECC_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3257 more memories to test.";echo "tr 52 M=FPEM_LP IS=min IE=max
ITERations=1";tr 52 M=FPEM_LP IS=min IE=max ITERations=1;echo "done";'
echo "there are 3256 more memories to test.";echo "tr 52 M=GTP_PORT_TABLE IS=min IE=max
ITERations=1";tr 52 M=GTP_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3255 more memories to test.";echo "tr 52 M=HGT_DLB_CONTROL IS=min IE=max
ITERations=1";tr 52 M=HGT_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3254 more memories to test.";echo "tr 52 M=HG_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3253 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min
IE=max ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3252 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 3251 more memories to test.";echo "tr 52 M=HG_TRUNK_GROUP IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 3250 more memories to test.";echo "tr 52 M=HG_TRUNK_RR_CNT IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_RR_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 3249 more memories to test.";echo "tr 52 M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3248 more memories to test.";echo "tr 52 M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3247 more memories to test.";echo "tr 52 M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3246 more memories to test.";echo "tr 52 M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3245 more memories to test.";echo "tr 52 M=HG_TRUNK_MEMBER IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3244 more memories to test.";echo "tr 52 M=HG_TRUNK_MODE IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_MODE IS=min IE=max ITERations=1;echo "done";
#echo "there are 3243 more memories to test.";echo "tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=max
ITERations=1";tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3242 more memories to test.";echo "tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=max
ITERations=1";tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3241 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3240 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3239 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3238 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 3237 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3236 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3235 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3234 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3233 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3232 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3231 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3230 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3229 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3228 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3227 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3226 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3225 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3224 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3223 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3222 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3221 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 3220 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3219 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3218 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3217 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3216 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3215 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3214 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3213 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3212 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3211 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3210 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3209 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3208 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3207 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3206 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3205 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3204 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 3203 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3202 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3201 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3200 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3199 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3198 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3197 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3196 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3195 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3194 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3193 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3192 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3191 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3190 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3189 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3188 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3187 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 3186 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3185 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3184 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3183 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3182 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3181 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3180 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3179 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3178 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3177 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3176 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3175 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3174 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3173 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3172 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3171 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3170 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3169 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3168 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3167 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3166 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3165 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3164 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3163 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3162 more memories to test.";echo "tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3161 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3160 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3159 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3158 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3157 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3156 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3155 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3154 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3153 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3152 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3151 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3150 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3149 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3148 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3147 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3146 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3145 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3144 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3143 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3142 more memories to test.";echo "tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3141 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3140 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3139 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3138 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3137 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3136 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3135 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 3134 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3133 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3132 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3131 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3130 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3129 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3128 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3127 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3126 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3125 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3124 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3123 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3122 more memories to test.";echo "tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3121 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3120 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3119 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3118 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 3117 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3116 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3115 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3114 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3113 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3112 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3111 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3110 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3109 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3108 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3107 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3106 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3105 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3104 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3103 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3102 more memories to test.";echo "tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3101 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 3100 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3099 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3098 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3097 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3096 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3095 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3094 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3093 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3092 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3091 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3090 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3089 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3088 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3087 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3086 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3085 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3084 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 3083 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3082 more memories to test.";echo "tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3081 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3080 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3079 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3078 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3077 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3076 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3075 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3074 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3073 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3072 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3071 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3070 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3069 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3068 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3067 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 3066 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3065 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3064 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3063 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3062 more memories to test.";echo "tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3061 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3060 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3059 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3058 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3057 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3056 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3055 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3054 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3053 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3052 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3051 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3050 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3049 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3048 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3047 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3046 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3045 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3044 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3043 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3042 more memories to test.";echo "tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3041 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3040 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3039 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3038 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3037 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3036 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3035 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3034 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3033 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3032 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3031 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3030 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3029 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3028 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3027 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3026 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3025 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3024 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3023 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3022 more memories to test.";echo "tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3021 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3020 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3019 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3018 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3017 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3016 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3015 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 3014 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3013 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3012 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3011 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3010 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3009 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3008 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3007 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3006 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3005 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3004 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3003 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3002 more memories to test.";echo "tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3001 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3000 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2999 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2998 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 2997 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2996 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2995 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2994 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2993 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2992 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2991 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2990 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2989 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2988 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2987 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2986 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2985 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2984 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2983 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2982 more memories to test.";echo "tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2981 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 2980 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2979 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2978 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2977 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2976 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2975 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2974 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2973 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2972 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2971 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2970 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2969 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2968 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2967 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2966 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2965 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2964 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2963 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2962 more memories to test.";echo "tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2961 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2960 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2959 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2958 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2957 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2956 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2955 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2954 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2953 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2952 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2951 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2950 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2949 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2948 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2947 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2946 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2945 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2944 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2943 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2942 more memories to test.";echo "tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2941 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2940 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2939 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2938 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2937 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2936 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2935 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2934 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2933 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2932 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2931 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2930 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2929 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2928 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2927 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2926 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2925 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2924 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2923 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2922 more memories to test.";echo "tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2921 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2920 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2919 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2918 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2917 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2916 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2915 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2914 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2913 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2912 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2911 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2910 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2909 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2908 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2907 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2906 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2905 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2904 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2903 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2902 more memories to test.";echo "tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2901 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2900 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2899 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2898 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2897 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2896 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2895 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 2894 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2893 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2892 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2891 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2890 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2889 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2888 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2887 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2886 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2885 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2884 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2883 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2882 more memories to test.";echo "tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2881 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2880 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2879 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2878 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 2877 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2876 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2875 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2874 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2873 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2872 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2871 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2870 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2869 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2868 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2867 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2866 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2865 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2864 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2863 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2862 more memories to test.";echo "tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2861 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 2860 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2859 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2858 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2857 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2856 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2855 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2854 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2853 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2852 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2851 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2850 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2849 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2848 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2847 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2846 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2845 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2844 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2843 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2842 more memories to test.";echo "tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2841 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2840 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2839 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2838 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2837 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2836 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2835 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2834 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2833 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2832 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2831 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2830 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2829 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2828 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2827 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

#echo "there are 2826 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2825 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2824 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2823 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2822 more memories to test.";echo "tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2821 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2820 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2819 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2818 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2817 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2816 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2815 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2814 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2813 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2812 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2811 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2810 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2809 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min

```
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2808 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2807 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2806 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2805 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2804 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2803 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2802 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2801 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2800 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2799 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2798 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2797 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2796 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2795 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2794 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2793 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2792 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2791 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2790 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2789 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2788 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2787 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2786 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2785 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2784 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2783 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2782 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2781 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2780 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2779 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2778 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2777 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2776 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2775 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2774 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2773 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2772 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2771 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2770 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2769 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2768 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2767 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2766 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2765 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2764 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2763 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2762 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2761 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2760 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2759 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2758 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo

"done";
echo "there are 2757 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2756 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2755 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2754 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2753 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2752 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2751 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2750 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2749 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2748 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2747 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2746 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2745 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2744 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2743 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2742 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2741 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 2740 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2739 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2738 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2737 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2736 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2735 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2734 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2733 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2732 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2731 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2730 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2729 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2728 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2727 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2726 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2725 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2724 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2723 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2722 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2721 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2720 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2719 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2718 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2717 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2716 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2715 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2714 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2713 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2712 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2711 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2710 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2709 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2708 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2707 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2706 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2705 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2704 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2703 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2702 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2701 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2700 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2699 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2698 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2697 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2696 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2695 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2694 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2693 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2692 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2691 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2690 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2689 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2688 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2687 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2686 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2685 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2684 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2683 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2682 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2681 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2680 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2679 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2678 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2677 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2676 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2675 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2674 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2673 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2672 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2671 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2670 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2669 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2668 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2667 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2666 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2665 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2664 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2663 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2662 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2661 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2660 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2659 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2658 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2657 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2656 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2655 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2654 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2653 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2652 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2651 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2650 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2649 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2648 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2647 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2646 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2645 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2644 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2643 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2642 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2641 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2640 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2639 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2638 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo

"done";
echo "there are 2637 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2636 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2635 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2634 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2633 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2632 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2631 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2630 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2629 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2628 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2627 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2626 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2625 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2624 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2623 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2622 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2621 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 2620 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2619 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2618 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2617 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2616 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2615 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2614 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2613 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2612 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2611 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2610 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2609 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2608 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2607 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2606 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2605 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2604 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2603 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2602 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2601 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2600 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2599 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2598 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2597 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2596 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2595 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2594 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2593 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2592 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2591 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2590 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2589 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2588 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2587 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

#echo "there are 2586 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2585 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2584 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2583 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2582 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2581 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2580 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2579 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2578 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2577 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2576 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2575 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2574 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2573 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2572 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2571 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2570 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2569 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min

```
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2568 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2567 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2566 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2565 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2564 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2563 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2562 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2561 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2560 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2559 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2558 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2557 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2556 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2555 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2554 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2553 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2552 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2551 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2550 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2549 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2548 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2547 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2546 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2545 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2544 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2543 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2542 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2541 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2540 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2539 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2538 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2537 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2536 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2535 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2534 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2533 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2532 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2531 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2530 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2529 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2528 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2527 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2526 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2525 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2524 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2523 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2522 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2521 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2520 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2519 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2518 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo

```
"done";
echo "there are 2517 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2516 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2515 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2514 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2513 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2512 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2511 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2510 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2509 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2508 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2507 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2506 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2505 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2504 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2503 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2502 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2501 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
```

#echo "there are 2500 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2499 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2498 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2497 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2496 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2495 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2494 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2493 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2492 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2491 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2490 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2489 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2488 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2487 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2486 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2485 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2484 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 2483 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2482 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2481 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2480 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2479 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2478 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2477 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2476 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2475 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2474 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2473 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2472 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2471 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2470 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2469 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2468 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2467 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2466 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2465 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2464 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2463 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2462 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2461 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2460 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2459 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2458 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2457 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2456 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2455 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2454 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2453 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2452 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2451 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2450 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2449 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2448 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2447 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2446 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2445 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2444 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2443 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2442 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2441 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2440 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2439 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2438 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2437 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2436 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2435 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2434 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2433 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2432 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2431 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2430 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2429 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2428 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2427 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2426 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2425 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2424 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2423 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2422 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2421 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2420 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2419 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2418 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2417 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2416 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2415 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2414 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2413 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2412 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2411 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2410 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2409 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2408 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2407 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2406 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2405 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2404 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2403 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2402 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2401 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2400 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2399 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2398 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo

"done";
echo "there are 2397 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2396 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2395 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2394 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2393 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2392 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2391 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2390 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2389 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2388 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2387 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2386 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2385 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2384 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2383 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2382 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2381 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";

#echo "there are 2380 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2379 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2378 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2377 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2376 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2375 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2374 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2373 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2372 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2371 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2370 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2369 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2368 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2367 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2366 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2365 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2364 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 2363 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2362 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2361 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2360 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2359 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2358 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2357 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2356 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2355 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2354 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2353 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2352 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2351 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2350 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2349 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2348 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2347 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 2346 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2345 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2344 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2343 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2342 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2341 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2340 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2339 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2338 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2337 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2336 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2335 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2334 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2333 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2332 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2331 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2330 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2329 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2328 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2327 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2326 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2325 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2324 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2323 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2322 more memories to test.";echo "tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2321 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2320 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2319 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2318 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2317 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2316 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2315 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2314 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2313 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2312 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min
```

IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2311 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2310 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2309 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2308 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2307 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2306 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2305 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2304 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2303 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2302 more memories to test.";echo "tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2301 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2300 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2299 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2298 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2297 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2296 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2295 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2294 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2293 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2292 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2291 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2290 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2289 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2288 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2287 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2286 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2285 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2284 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2283 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2282 more memories to test.";echo "tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2281 more memories to test.";echo "tr 52 M=IFP_COS_MAP IS=min IE=max ITERations=1";tr 52 M=IFP_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2280 more memories to test.";echo "tr 52 M=IFP_HG_CLASSID_SELECT IS=min IE=max ITERations=1";tr 52 M=IFP_HG_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2279 more memories to test.";echo "tr 52 M=IFP_I2E_CLASSID_SELECT IS=min IE=max ITERations=1";tr 52 M=IFP_I2E_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2278 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2277 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min

```
IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2276 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2275 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2274 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2273 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2272 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2271 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2270 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2269 more memories to test.";echo "tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3
IS=min IE=max ITERations=1";tr 52 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2268 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY
IS=min IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2267 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2266 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2265 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2264 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2263 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max
ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2262 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY
IS=min IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 2261 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
```

```
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2260 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2259 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2258 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2257 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2256 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2255 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2254 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2253 more memories to test.";echo "tr 52 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY
IS=min IE=max ITERations=1";tr 52 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 2252 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2251 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2250 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2249 more memories to test.";echo "tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 52
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2248 more memories to test.";echo "tr 52 M=IFP_METER_TABLE IS=min IE=max
ITERations=1";tr 52 M=IFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2247 more memories to test.";echo "tr 52 M=IFP_METER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IFP_METER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2246 more memories to test.";echo "tr 52 M=IFP_METER_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IFP_METER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2245 more memories to test.";echo "tr 52 M=IFP_METER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IFP_METER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2244 more memories to test.";echo "tr 52 M=IFP_METER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IFP_METER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2243 more memories to test.";echo "tr 52 M=IFP_POLICY_TABLE IS=min IE=max
```

```
ITERations=1";tr 52 M=IFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2242 more memories to test.";echo "tr 52 M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2241 more memories to test.";echo "tr 52 M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2240 more memories to test.";echo "tr 52 M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2239 more memories to test.";echo "tr 52 M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2238 more memories to test.";echo "tr 52 M=IFP_PORT_METER_MAP IS=min IE=max
ITERations=1";tr 52 M=IFP_PORT_METER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2237 more memories to test.";echo "tr 52 M=IFP_RANGE_CHECK IS=min IE=max
ITERations=1";tr 52 M=IFP_RANGE_CHECK IS=min IE=max ITERations=1;echo "done";
echo "there are 2236 more memories to test.";echo "tr 52 M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2235 more memories to test.";echo "tr 52 M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2234 more memories to test.";echo "tr 52 M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2233 more memories to test.";echo "tr 52 M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2232 more memories to test.";echo "tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=max
ITERations=1";tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2231 more memories to test.";echo "tr 52 M=IFP_STORM_CONTROL_METERS IS=min IE=max
ITERations=1";tr 52 M=IFP_STORM_CONTROL_METERS IS=min IE=max ITERations=1;echo "done";
echo "there are 2230 more memories to test.";echo "tr 52 M=IFP_TCAM IS=min IE=max ITERations=1";tr 52
M=IFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 2229 more memories to test.";echo "tr 52 M=IFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
52 M=IFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2228 more memories to test.";echo "tr 52 M=IFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
52 M=IFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2227 more memories to test.";echo "tr 52 M=IFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
52 M=IFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2226 more memories to test.";echo "tr 52 M=IFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
52 M=IFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2225 more memories to test.";echo "tr 52 M=IFP_TCAM_WIDE IS=min IE=max ITERations=1";tr
52 M=IFP_TCAM_WIDE IS=min IE=max ITERations=1;echo "done";
echo "there are 2224 more memories to test.";echo "tr 52 M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2223 more memories to test.";echo "tr 52 M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2222 more memories to test.";echo "tr 52 M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2221 more memories to test.";echo "tr 52 M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2220 more memories to test.";echo "tr 52 M=IMIRROR_BITMAP IS=min IE=max
ITERations=1";tr 52 M=IMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2219 more memories to test.";echo "tr 52 M=IM_MTP_INDEX IS=min IE=max ITERations=1";tr
```

```
52 M=IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 2218 more memories to test.";echo "tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=max
ITERations=1";tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 2217 more memories to test.";echo "tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max
ITERations=1";tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
#echo "there are 2216 more memories to test.";echo "tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=max
ITERations=1";tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2215 more memories to test.";echo "tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max
ITERations=1";tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 2214 more memories to test.";echo "tr 52 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max
ITERations=1";tr 52 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 2213 more memories to test.";echo "tr 52 M=ING_DVP_2_TABLE IS=min IE=max
ITERations=1";tr 52 M=ING_DVP_2_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2212 more memories to test.";echo "tr 52 M=ING_DVP_TABLE IS=min IE=max ITERations=1";tr
52 M=ING_DVP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2211 more memories to test.";echo "tr 52 M=ING_EGRMSKBMAP IS=min IE=max
ITERations=1";tr 52 M=ING_EGRMSKBMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 2210 more memories to test.";echo "tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=max
ITERations=1";tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2209 more memories to test.";echo "tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2208 more memories to test.";echo "tr 52 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2207 more memories to test.";echo "tr 52 M=ING_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 52 M=ING_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 2206 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2205 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2204 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2203 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2202 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2201 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2200 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2199 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0 IS=min IE=max
```

ITERations=1;echo "done";
echo "there are 2198 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2197 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2196 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2195 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min IE=max ITERations=1;echo "done";
echo "there are 2194 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2193 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2192 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2191 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2190 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min IE=max ITERations=1;echo "done";
echo "there are 2189 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2188 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2187 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2186 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2185 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min IE=max ITERations=1;echo "done";
echo "there are 2184 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2183 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1 IS=min IE=max

ITERations=1;echo "done";
echo "there are 2182 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2181 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2180 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min IE=max ITERations=1;echo "done";
echo "there are 2179 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2178 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2177 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2176 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2175 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min IE=max ITERations=1;echo "done";
echo "there are 2174 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2173 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2172 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2171 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2170 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min IE=max ITERations=1;echo "done";
echo "there are 2169 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2168 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2167 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2 IS=min IE=max

ITERations=1;echo "done";
echo "there are 2166 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2165 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min IE=max ITERations=1;echo "done";
echo "there are 2164 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2163 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2162 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2161 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2160 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min IE=max ITERations=1;echo "done";
echo "there are 2159 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2158 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2157 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2156 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2155 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min IE=max ITERations=1;echo "done";
echo "there are 2154 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2153 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2152 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2151 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3 IS=min IE=max

ITERations=1;echo "done";
echo "there are 2150 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2149 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2148 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2147 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2146 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2145 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2144 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2143 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2142 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2141 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2140 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2139 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2138 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2137 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2136 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 2135 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0 IS=min IE=max

ITERations=1;echo "done";
echo "there are 2134 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2133 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2132 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2131 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 2130 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2129 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2128 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2127 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2126 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 2125 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2124 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2123 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2122 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2121 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 2120 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2119 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1 IS=min IE=max

```
ITERations=1;echo "done";
echo "there are 2118 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2117 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2116 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2115 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2114 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2113 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2112 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2111 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2110 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2109 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2108 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2107 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3
IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2106 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2105 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2104 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2103 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 2102 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min IE=max ITERations=1;echo "done";
echo "there are 2101 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min IE=max ITERations=1;echo "done";
echo "there are 2100 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min IE=max ITERations=1;echo "done";
echo "there are 2099 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min IE=max ITERations=1;echo "done";
echo "there are 2098 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min IE=max ITERations=1;echo "done";
echo "there are 2097 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min IE=max ITERations=1;echo "done";
echo "there are 2096 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min IE=max ITERations=1;echo "done";
echo "there are 2095 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min IE=max ITERations=1;echo "done";
echo "there are 2094 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2093 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2092 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 2091 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 2090 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 2089 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 2088 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min IE=max ITERations=1;echo "done";
echo "there are 2087 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min IE=max ITERations=1;echo

```
"done";
echo "there are 2086 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2085 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2084 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2083 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2082 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2081 more memories to test.";echo "tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE
IS=min IE=max ITERations=1";tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2080 more memories to test.";echo "tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=max ITERations=1";tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=max ITERations=1;echo
"done";
echo "there are 2079 more memories to test.";echo "tr 52 M=ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 2078 more memories to test.";echo "tr 52 M=ING_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=ING_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2077 more memories to test.";echo "tr 52 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min
IE=max ITERations=1";tr 52 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 2076 more memories to test.";echo "tr 52 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min
IE=max ITERations=1";tr 52 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 2075 more memories to test.";echo "tr 52 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min
IE=max ITERations=1";tr 52 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 2074 more memories to test.";echo "tr 52 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min
IE=max ITERations=1";tr 52 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 2073 more memories to test.";echo "tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2072 more memories to test.";echo "tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2071 more memories to test.";echo "tr 52 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2070 more memories to test.";echo "tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2069 more memories to test.";echo "tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2068 more memories to test.";echo "tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 2067 more memories to test.";echo "tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2066 more memories to test.";echo "tr 52 M=ING_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2065 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 2064 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2063 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2062 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2061 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2060 more memories to test.";echo "tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 2059 more memories to test.";echo "tr 52 M=ING_SER_FIFO IS=min IE=max ITERations=1";tr
52 M=ING_SER_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 2058 more memories to test.";echo "tr 52 M=ING_SER_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=ING_SER_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2057 more memories to test.";echo "tr 52 M=ING_SER_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=ING_SER_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2056 more memories to test.";echo "tr 52 M=ING_SER_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=ING_SER_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2055 more memories to test.";echo "tr 52 M=ING_SER_FIFO_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=ING_SER_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2054 more memories to test.";echo "tr 52 M=ING_SNAT IS=min IE=max ITERations=1";tr 52
M=ING_SNAT IS=min IE=max ITERations=1;echo "done";
echo "there are 2053 more memories to test.";echo "tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2052 more memories to test.";echo "tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2051 more memories to test.";echo "tr 52 M=ING_SNAT_ONLY IS=min IE=max ITERations=1";tr
52 M=ING_SNAT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2050 more memories to test.";echo "tr 52 M=ING_TRILL_ADJACENCY IS=min IE=max
ITERations=1";tr 52 M=ING_TRILL_ADJACENCY IS=min IE=max ITERations=1;echo "done";
#echo "there are 2049 more memories to test.";echo "tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=max
ITERations=1";tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 2048 more memories to test.";echo "tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=max ITERations=1";tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=max
ITERations=1;echo "done";
echo "there are 2047 more memories to test.";echo "tr 52 M=ING_TUNNEL_ECN_DECAP IS=min IE=max
ITERations=1";tr 52 M=ING_TUNNEL_ECN_DECAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2046 more memories to test.";echo "tr 52 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max
ITERations=1";tr 52 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2045 more memories to test.";echo "tr 52 M=ING_UNTAGGED_PHB IS=min IE=max
```

```
ITERations=1";tr 52 M=ING_UNTAGGED_PHB IS=min IE=max ITERations=1;echo "done";
echo "there are 2044 more memories to test.";echo "tr 52 M=ING_VLAN_RANGE IS=min IE=max
ITERations=1";tr 52 M=ING_VLAN_RANGE IS=min IE=max ITERations=1;echo "done";
echo "there are 2043 more memories to test.";echo "tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2042 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 2041 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max ITERations=1;echo
"done";
echo "there are 2040 more memories to test.";echo "tr 52 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max
ITERations=1";tr 52 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 2039 more memories to test.";echo "tr 52 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max
ITERations=1";tr 52 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 2038 more memories to test.";echo "tr 52 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max
ITERations=1";tr 52 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 2037 more memories to test.";echo "tr 52 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max
ITERations=1";tr 52 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 2036 more memories to test.";echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 2035 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP IS=min IE=max
ITERations=1";tr 52 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 2034 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=max
ITERations=1";tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 2033 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=max
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2032 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2031 more memories to test.";echo "tr 52 M=INSTRUMENTATION_TRIGGERS_ENABLE
IS=min IE=max ITERations=1";tr 52 M=INSTRUMENTATION_TRIGGERS_ENABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 2030 more memories to test.";echo "tr 52 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max
ITERations=1";tr 52 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2029 more memories to test.";echo "tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ITERations=1";tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2028 more memories to test.";echo "tr 52 M=IP_MULTICAST_TCAM IS=min IE=max
ITERations=1";tr 52 M=IP_MULTICAST_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 2027 more memories to test.";echo "tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2026 more memories to test.";echo "tr 52 M=IP_PROTO_MAP IS=min IE=max ITERations=1";tr
52 M=IP_PROTO_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2025 more memories to test.";echo "tr 52 M=IP_PROTO_MAP_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IP_PROTO_MAP_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2024 more memories to test.";echo "tr 52 M=IP_PROTO_MAP_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IP_PROTO_MAP_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 2023 more memories to test.";echo "tr 52 M=IP_PROTO_MAP_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IP_PROTO_MAP_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2022 more memories to test.";echo "tr 52 M=IP_PROTO_MAP_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IP_PROTO_MAP_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2021 more memories to test.";echo "tr 52 M=IP_TO_INT_CN_MAPPING IS=min IE=max
ITERations=1";tr 52 M=IP_TO_INT_CN_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 2020 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR0 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2019 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2018 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2017 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2016 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2015 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR1 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2014 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2013 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2012 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2011 more memories to test.";echo "tr 52 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2010 more memories to test.";echo "tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 2009 more memories to test.";echo "tr 52 M=L2MC IS=min IE=max ITERations=1";tr 52 M=L2MC
IS=min IE=max ITERations=1;echo "done";
echo "there are 2008 more memories to test.";echo "tr 52 M=L2_BULK IS=min IE=max ITERations=1";tr 52
M=L2_BULK IS=min IE=max ITERations=1;echo "done";
echo "there are 2007 more memories to test.";echo "tr 52 M=L2X IS=min IE=max ITERations=1";tr 52 M=L2X
IS=min IE=max ITERations=1;echo "done";
#echo "there are 2006 more memories to test.";echo "tr 52 M=L2_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 52 M=L2_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 2005 more memories to test.";echo "tr 52 M=L2_ENTRY_LP IS=min IE=max ITERations=1";tr 52
M=L2_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 2004 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 2003 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY_TILE IS=min IE=max
ITERations=1";tr 52 M=L2_ENTRY_ONLY_TILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2002 more memories to test.";echo "tr 52 M=L2_ENTRY_TILE IS=min IE=max ITERations=1";tr
52 M=L2_ENTRY_TILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2001 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY IS=min IE=max ITERations=1";tr
52 M=L2_HITDA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2000 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY IS=min IE=max ITERations=1";tr
52 M=L2_HITSA_ONLY IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1999 more memories to test.";echo "tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=max
ITERations=1";tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1998 more memories to test.";echo "tr 52 M=L2_MGMT_SER_FIFO IS=min IE=max
ITERations=1";tr 52 M=L2_MGMT_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1997 more memories to test.";echo "tr 52 M=L2_MOD_FIFO IS=min IE=max ITERations=1";tr 52
M=L2_MOD_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1996 more memories to test.";echo "tr 52 M=L2_USER_ENTRY IS=min IE=max ITERations=1";tr
52 M=L2_USER_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 1995 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1994 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max
ITERations=1";tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1993 more memories to test.";echo "tr 52 M=L3_DEFIP IS=min IE=max ITERations=1";tr 52
M=L3_DEFIP IS=min IE=max ITERations=1;echo "done";
if $?l3_alpm_enable 'echo "there are 1992 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_ECC IS=min
IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_ECC IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1991 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_HIT_ONLY
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max ITERations=1;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1990 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min
IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1989 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4_1
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1988 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_128
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max ITERations=1;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1987 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1986 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64_1
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max ITERations=1;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1985 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_RAW
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_ALPM_RAW IS=min IE=max ITERations=1;echo "done";'
echo "there are 1984 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1983 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max ITERations=1;echo "done";
echo "there are 1982 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 1981 more memories to test.";echo "tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1980 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1979 more memories to test.";echo "tr 52 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1";tr
52 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1;echo "done";
if $?l3_alpm_enable 'echo "there are 1978 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128 IS=min
IE=max ITERations=1";tr 52 M=L3_DEFIP_PAIR_128 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1977 more memories to test.";echo "tr 52
```

```
M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1";tr 52
M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1976 more memories to test.";echo "tr 52
M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1";tr 52
M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1975 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_ONLY
IS=min IE=max ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max ITERations=1;echo
"done";'
echo "there are 1974 more memories to test.";echo "tr 52 M=L3_ECMP IS=min IE=max ITERations=1";tr 52
M=L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 1973 more memories to test.";echo "tr 52 M=L3_ECMP_COUNT IS=min IE=max ITERations=1";tr
52 M=L3_ECMP_COUNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1972 more memories to test.";echo "tr 52 M=L3_ECMP_RRLB_CNT IS=min IE=max
ITERations=1";tr 52 M=L3_ECMP_RRLB_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1971 more memories to test.";echo "tr 52 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1970 more memories to test.";echo "tr 52 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1969 more memories to test.";echo "tr 52 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1968 more memories to test.";echo "tr 52 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1967 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1966 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1965 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1964 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1963 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITERations=1;echo "done";
#echo "there are 1962 more memories to test.";echo "tr 52 M=L3_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 1961 more memories to test.";echo "tr 52 M=L3_ENTRY_LP IS=min IE=max ITERations=1";tr 52
M=L3_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 1960 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1";tr
52 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1959 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 1958 more memories to test.";echo "tr 52 M=L3_IIF IS=min IE=max ITERations=1";tr 52
M=L3_IIF IS=min IE=max ITERations=1;echo "done";
echo "there are 1957 more memories to test.";echo "tr 52 M=L3_IIF_PROFILE IS=min IE=max ITERations=1";tr
52 M=L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 1956 more memories to test.";echo "tr 52 M=L3_IPMC IS=min IE=max ITERations=1";tr 52
M=L3_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 1955 more memories to test.";echo "tr 52 M=L3_IPMC_REMAP IS=min IE=max ITERations=1";tr
52 M=L3_IPMC_REMAP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1954 more memories to test.";echo "tr 52 M=L3_MTU_VALUES IS=min IE=max ITERations=1";tr
52 M=L3_MTU_VALUES IS=min IE=max ITERations=1;echo "done";
echo "there are 1953 more memories to test.";echo "tr 52 M=L3_TUNNEL IS=min IE=max ITERations=1";tr 52
M=L3_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 1952 more memories to test.";echo "tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1951 more memories to test.";echo "tr 52 M=L3_TUNNEL_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_TUNNEL_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1950 more memories to test.";echo "tr 52 M=LAG_DLB_CONTROL IS=min IE=max
ITERations=1";tr 52 M=LAG_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 1949 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max ITERations=1;echo
"done";
echo "there are 1948 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max
ITERations=1;echo "done";
echo "there are 1947 more memories to test.";echo "tr 52 M=LPORT_TAB IS=min IE=max ITERations=1";tr 52
M=LPORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 1946 more memories to test.";echo "tr 52 M=MAC_BLOCK IS=min IE=max ITERations=1";tr 52
M=MAC_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 1945 more memories to test.";echo "tr 52 M=MIRROR_CONTROL IS=min IE=max
ITERations=1";tr 52 M=MIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 1944 more memories to test.";echo "tr 52 M=MMU_CBPData0 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1943 more memories to test.";echo "tr 52 M=MMU_CBPData0_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1942 more memories to test.";echo "tr 52 M=MMU_CBPData0_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1941 more memories to test.";echo "tr 52 M=MMU_CBPData0_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1940 more memories to test.";echo "tr 52 M=MMU_CBPData0_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1939 more memories to test.";echo "tr 52 M=MMU_CBPData1 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1938 more memories to test.";echo "tr 52 M=MMU_CBPData10 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData10 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1937 more memories to test.";echo "tr 52 M=MMU_CBPData100 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData100 IS=min IE=max ITERations=1;echo "done";
echo "there are 1936 more memories to test.";echo "tr 52 M=MMU_CBPData100_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData100_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1935 more memories to test.";echo "tr 52 M=MMU_CBPData100_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData100_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1934 more memories to test.";echo "tr 52 M=MMU_CBPData100_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData100_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1933 more memories to test.";echo "tr 52 M=MMU_CBPData100_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData100_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1932 more memories to test.";echo "tr 52 M=MMU_CBPData101 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData101 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1931 more memories to test.";echo "tr 52 M=MMU_CBPData101_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData101_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1930 more memories to test.";echo "tr 52 M=MMU_CBPData101_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData101_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1929 more memories to test.";echo "tr 52 M=MMU_CBPData101_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData101_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1928 more memories to test.";echo "tr 52 M=MMU_CBPData101_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData101_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1927 more memories to test.";echo "tr 52 M=MMU_CBPData102 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData102 IS=min IE=max ITERations=1;echo "done";
echo "there are 1926 more memories to test.";echo "tr 52 M=MMU_CBPData102_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData102_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1925 more memories to test.";echo "tr 52 M=MMU_CBPData102_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData102_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1924 more memories to test.";echo "tr 52 M=MMU_CBPData102_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData102_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1923 more memories to test.";echo "tr 52 M=MMU_CBPData102_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData102_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1922 more memories to test.";echo "tr 52 M=MMU_CBPData103 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData103 IS=min IE=max ITERations=1;echo "done";
echo "there are 1921 more memories to test.";echo "tr 52 M=MMU_CBPData103_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData103_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1920 more memories to test.";echo "tr 52 M=MMU_CBPData103_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData103_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1919 more memories to test.";echo "tr 52 M=MMU_CBPData103_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData103_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1918 more memories to test.";echo "tr 52 M=MMU_CBPData103_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData103_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1917 more memories to test.";echo "tr 52 M=MMU_CBPData104 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData104 IS=min IE=max ITERations=1;echo "done";
echo "there are 1916 more memories to test.";echo "tr 52 M=MMU_CBPData104_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData104_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1915 more memories to test.";echo "tr 52 M=MMU_CBPData104_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData104_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1914 more memories to test.";echo "tr 52 M=MMU_CBPData104_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData104_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1913 more memories to test.";echo "tr 52 M=MMU_CBPData104_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData104_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1912 more memories to test.";echo "tr 52 M=MMU_CBPData105 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData105 IS=min IE=max ITERations=1;echo "done";
echo "there are 1911 more memories to test.";echo "tr 52 M=MMU_CBPData105_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData105_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1910 more memories to test.";echo "tr 52 M=MMU_CBPData105_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData105_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1909 more memories to test.";echo "tr 52 M=MMU_CBPData105_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData105_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1908 more memories to test.";echo "tr 52 M=MMU_CBPData105_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData105_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1907 more memories to test.";echo "tr 52 M=MMU_CBPData106 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData106 IS=min IE=max ITERations=1;echo "done";
echo "there are 1906 more memories to test.";echo "tr 52 M=MMU_CBPData106_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData106_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1905 more memories to test.";echo "tr 52 M=MMU_CBPData106_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData106_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1904 more memories to test.";echo "tr 52 M=MMU_CBPData106_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData106_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1903 more memories to test.";echo "tr 52 M=MMU_CBPData106_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData106_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1902 more memories to test.";echo "tr 52 M=MMU_CBPData107 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData107 IS=min IE=max ITERations=1;echo "done";
echo "there are 1901 more memories to test.";echo "tr 52 M=MMU_CBPData107_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData107_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1900 more memories to test.";echo "tr 52 M=MMU_CBPData107_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData107_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1899 more memories to test.";echo "tr 52 M=MMU_CBPData107_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData107_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1898 more memories to test.";echo "tr 52 M=MMU_CBPData107_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData107_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1897 more memories to test.";echo "tr 52 M=MMU_CBPData108 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData108 IS=min IE=max ITERations=1;echo "done";
echo "there are 1896 more memories to test.";echo "tr 52 M=MMU_CBPData108_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData108_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1895 more memories to test.";echo "tr 52 M=MMU_CBPData108_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData108_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1894 more memories to test.";echo "tr 52 M=MMU_CBPData108_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData108_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1893 more memories to test.";echo "tr 52 M=MMU_CBPData108_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData108_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1892 more memories to test.";echo "tr 52 M=MMU_CBPData109 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData109 IS=min IE=max ITERations=1;echo "done";
echo "there are 1891 more memories to test.";echo "tr 52 M=MMU_CBPData109_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData109_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1890 more memories to test.";echo "tr 52 M=MMU_CBPData109_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData109_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1889 more memories to test.";echo "tr 52 M=MMU_CBPData109_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData109_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1888 more memories to test.";echo "tr 52 M=MMU_CBPData109_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData109_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1887 more memories to test.";echo "tr 52 M=MMU_CBPData10_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData10_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1886 more memories to test.";echo "tr 52 M=MMU_CBPData10_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData10_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1885 more memories to test.";echo "tr 52 M=MMU_CBPData10_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData10_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1884 more memories to test.";echo "tr 52 M=MMU_CBPData10_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData10_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1883 more memories to test.";echo "tr 52 M=MMU_CBPData11 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData11 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1882 more memories to test.";echo "tr 52 M=MMU_CBPData110 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData110 IS=min IE=max ITERations=1;echo "done";
echo "there are 1881 more memories to test.";echo "tr 52 M=MMU_CBPData110_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData110_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1880 more memories to test.";echo "tr 52 M=MMU_CBPData110_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData110_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1879 more memories to test.";echo "tr 52 M=MMU_CBPData110_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData110_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1878 more memories to test.";echo "tr 52 M=MMU_CBPData110_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData110_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1877 more memories to test.";echo "tr 52 M=MMU_CBPData111 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData111 IS=min IE=max ITERations=1;echo "done";
echo "there are 1876 more memories to test.";echo "tr 52 M=MMU_CBPData111_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData111_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1875 more memories to test.";echo "tr 52 M=MMU_CBPData111_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData111_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1874 more memories to test.";echo "tr 52 M=MMU_CBPData111_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData111_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1873 more memories to test.";echo "tr 52 M=MMU_CBPData111_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData111_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1872 more memories to test.";echo "tr 52 M=MMU_CBPData11_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData11_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1871 more memories to test.";echo "tr 52 M=MMU_CBPData11_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData11_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1870 more memories to test.";echo "tr 52 M=MMU_CBPData11_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData11_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1869 more memories to test.";echo "tr 52 M=MMU_CBPData11_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData11_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1868 more memories to test.";echo "tr 52 M=MMU_CBPData12 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData12 IS=min IE=max ITERations=1;echo "done";
echo "there are 1867 more memories to test.";echo "tr 52 M=MMU_CBPData12_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData12_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1866 more memories to test.";echo "tr 52 M=MMU_CBPData12_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData12_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1865 more memories to test.";echo "tr 52 M=MMU_CBPData12_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData12_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1864 more memories to test.";echo "tr 52 M=MMU_CBPData12_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData12_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1863 more memories to test.";echo "tr 52 M=MMU_CBPData13 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData13 IS=min IE=max ITERations=1;echo "done";
echo "there are 1862 more memories to test.";echo "tr 52 M=MMU_CBPData13_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData13_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1861 more memories to test.";echo "tr 52 M=MMU_CBPData13_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData13_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1860 more memories to test.";echo "tr 52 M=MMU_CBPData13_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData13_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1859 more memories to test.";echo "tr 52 M=MMU_CBPData13_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData13_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1858 more memories to test.";echo "tr 52 M=MMU_CBPData14 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData14 IS=min IE=max ITERations=1;echo "done";
echo "there are 1857 more memories to test.";echo "tr 52 M=MMU_CBPData14_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData14_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1856 more memories to test.";echo "tr 52 M=MMU_CBPData14_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData14_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1855 more memories to test.";echo "tr 52 M=MMU_CBPData14_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData14_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1854 more memories to test.";echo "tr 52 M=MMU_CBPData14_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData14_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1853 more memories to test.";echo "tr 52 M=MMU_CBPData15 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData15 IS=min IE=max ITERations=1;echo "done";
echo "there are 1852 more memories to test.";echo "tr 52 M=MMU_CBPData15_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData15_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1851 more memories to test.";echo "tr 52 M=MMU_CBPData15_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData15_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1850 more memories to test.";echo "tr 52 M=MMU_CBPData15_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData15_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1849 more memories to test.";echo "tr 52 M=MMU_CBPData15_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData15_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1848 more memories to test.";echo "tr 52 M=MMU_CBPData16 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData16 IS=min IE=max ITERations=1;echo "done";
echo "there are 1847 more memories to test.";echo "tr 52 M=MMU_CBPData16_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData16_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1846 more memories to test.";echo "tr 52 M=MMU_CBPData16_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData16_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1845 more memories to test.";echo "tr 52 M=MMU_CBPData16_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData16_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1844 more memories to test.";echo "tr 52 M=MMU_CBPData16_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData16_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1843 more memories to test.";echo "tr 52 M=MMU_CBPData17 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData17 IS=min IE=max ITERations=1;echo "done";
echo "there are 1842 more memories to test.";echo "tr 52 M=MMU_CBPData17_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData17_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1841 more memories to test.";echo "tr 52 M=MMU_CBPData17_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData17_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1840 more memories to test.";echo "tr 52 M=MMU_CBPData17_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData17_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1839 more memories to test.";echo "tr 52 M=MMU_CBPData17_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData17_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1838 more memories to test.";echo "tr 52 M=MMU_CBPData18 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData18 IS=min IE=max ITERations=1;echo "done";
echo "there are 1837 more memories to test.";echo "tr 52 M=MMU_CBPData18_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData18_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1836 more memories to test.";echo "tr 52 M=MMU_CBPData18_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData18_XPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1835 more memories to test.";echo "tr 52 M=MMU_CBPData18_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData18_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1834 more memories to test.";echo "tr 52 M=MMU_CBPData18_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData18_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1833 more memories to test.";echo "tr 52 M=MMU_CBPData19 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData19 IS=min IE=max ITERations=1;echo "done";
echo "there are 1832 more memories to test.";echo "tr 52 M=MMU_CBPData19_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData19_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1831 more memories to test.";echo "tr 52 M=MMU_CBPData19_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData19_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1830 more memories to test.";echo "tr 52 M=MMU_CBPData19_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData19_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1829 more memories to test.";echo "tr 52 M=MMU_CBPData19_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData19_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1828 more memories to test.";echo "tr 52 M=MMU_CBPData1_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1827 more memories to test.";echo "tr 52 M=MMU_CBPData1_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1826 more memories to test.";echo "tr 52 M=MMU_CBPData1_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1825 more memories to test.";echo "tr 52 M=MMU_CBPData1_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData1_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1824 more memories to test.";echo "tr 52 M=MMU_CBPData2 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1823 more memories to test.";echo "tr 52 M=MMU_CBPData20 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData20 IS=min IE=max ITERations=1;echo "done";
echo "there are 1822 more memories to test.";echo "tr 52 M=MMU_CBPData20_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData20_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1821 more memories to test.";echo "tr 52 M=MMU_CBPData20_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData20_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1820 more memories to test.";echo "tr 52 M=MMU_CBPData20_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData20_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1819 more memories to test.";echo "tr 52 M=MMU_CBPData20_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData20_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1818 more memories to test.";echo "tr 52 M=MMU_CBPData21 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData21 IS=min IE=max ITERations=1;echo "done";
echo "there are 1817 more memories to test.";echo "tr 52 M=MMU_CBPData21_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData21_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1816 more memories to test.";echo "tr 52 M=MMU_CBPData21_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData21_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1815 more memories to test.";echo "tr 52 M=MMU_CBPData21_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData21_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1814 more memories to test.";echo "tr 52 M=MMU_CBPData21_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData21_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1813 more memories to test.";echo "tr 52 M=MMU_CBPData22 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData22 IS=min IE=max ITERations=1;echo "done";
echo "there are 1812 more memories to test.";echo "tr 52 M=MMU_CBPData22_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData22_XPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1811 more memories to test.";echo "tr 52 M=MMU_CBPData22_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData22_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1810 more memories to test.";echo "tr 52 M=MMU_CBPData22_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData22_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1809 more memories to test.";echo "tr 52 M=MMU_CBPData22_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData22_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1808 more memories to test.";echo "tr 52 M=MMU_CBPData23 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData23 IS=min IE=max ITERations=1;echo "done";
echo "there are 1807 more memories to test.";echo "tr 52 M=MMU_CBPData23_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData23_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1806 more memories to test.";echo "tr 52 M=MMU_CBPData23_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData23_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1805 more memories to test.";echo "tr 52 M=MMU_CBPData23_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData23_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1804 more memories to test.";echo "tr 52 M=MMU_CBPData23_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData23_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1803 more memories to test.";echo "tr 52 M=MMU_CBPData24 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData24 IS=min IE=max ITERations=1;echo "done";
echo "there are 1802 more memories to test.";echo "tr 52 M=MMU_CBPData24_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData24_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1801 more memories to test.";echo "tr 52 M=MMU_CBPData24_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData24_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1800 more memories to test.";echo "tr 52 M=MMU_CBPData24_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData24_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1799 more memories to test.";echo "tr 52 M=MMU_CBPData24_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData24_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1798 more memories to test.";echo "tr 52 M=MMU_CBPData25 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData25 IS=min IE=max ITERations=1;echo "done";
echo "there are 1797 more memories to test.";echo "tr 52 M=MMU_CBPData25_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData25_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1796 more memories to test.";echo "tr 52 M=MMU_CBPData25_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData25_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1795 more memories to test.";echo "tr 52 M=MMU_CBPData25_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData25_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1794 more memories to test.";echo "tr 52 M=MMU_CBPData25_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData25_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1793 more memories to test.";echo "tr 52 M=MMU_CBPData26 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData26 IS=min IE=max ITERations=1;echo "done";
echo "there are 1792 more memories to test.";echo "tr 52 M=MMU_CBPData26_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData26_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1791 more memories to test.";echo "tr 52 M=MMU_CBPData26_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData26_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1790 more memories to test.";echo "tr 52 M=MMU_CBPData26_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData26_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1789 more memories to test.";echo "tr 52 M=MMU_CBPData26_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData26_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1788 more memories to test.";echo "tr 52 M=MMU_CBPData27 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData27 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1787 more memories to test.";echo "tr 52 M=MMU_CBPData27_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData27_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1786 more memories to test.";echo "tr 52 M=MMU_CBPData27_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData27_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1785 more memories to test.";echo "tr 52 M=MMU_CBPData27_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData27_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1784 more memories to test.";echo "tr 52 M=MMU_CBPData27_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData27_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1783 more memories to test.";echo "tr 52 M=MMU_CBPData28 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData28 IS=min IE=max ITERations=1;echo "done";
echo "there are 1782 more memories to test.";echo "tr 52 M=MMU_CBPData28_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData28_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1781 more memories to test.";echo "tr 52 M=MMU_CBPData28_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData28_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1780 more memories to test.";echo "tr 52 M=MMU_CBPData28_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData28_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1779 more memories to test.";echo "tr 52 M=MMU_CBPData28_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData28_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1778 more memories to test.";echo "tr 52 M=MMU_CBPData29 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData29 IS=min IE=max ITERations=1;echo "done";
echo "there are 1777 more memories to test.";echo "tr 52 M=MMU_CBPData29_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData29_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1776 more memories to test.";echo "tr 52 M=MMU_CBPData29_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData29_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1775 more memories to test.";echo "tr 52 M=MMU_CBPData29_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData29_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1774 more memories to test.";echo "tr 52 M=MMU_CBPData29_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData29_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1773 more memories to test.";echo "tr 52 M=MMU_CBPData2_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData2_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1772 more memories to test.";echo "tr 52 M=MMU_CBPData2_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData2_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1771 more memories to test.";echo "tr 52 M=MMU_CBPData2_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData2_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1770 more memories to test.";echo "tr 52 M=MMU_CBPData2_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData2_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1769 more memories to test.";echo "tr 52 M=MMU_CBPData3 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1768 more memories to test.";echo "tr 52 M=MMU_CBPData30 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData30 IS=min IE=max ITERations=1;echo "done";
echo "there are 1767 more memories to test.";echo "tr 52 M=MMU_CBPData30_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData30_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1766 more memories to test.";echo "tr 52 M=MMU_CBPData30_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData30_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1765 more memories to test.";echo "tr 52 M=MMU_CBPData30_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData30_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1764 more memories to test.";echo "tr 52 M=MMU_CBPData30_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData30_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1763 more memories to test.";echo "tr 52 M=MMU_CBPData31 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData31 IS=min IE=max ITERations=1;echo "done";
echo "there are 1762 more memories to test.";echo "tr 52 M=MMU_CBPData31_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData31_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1761 more memories to test.";echo "tr 52 M=MMU_CBPData31_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData31_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1760 more memories to test.";echo "tr 52 M=MMU_CBPData31_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData31_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1759 more memories to test.";echo "tr 52 M=MMU_CBPData31_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData31_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1758 more memories to test.";echo "tr 52 M=MMU_CBPData32 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData32 IS=min IE=max ITERations=1;echo "done";
echo "there are 1757 more memories to test.";echo "tr 52 M=MMU_CBPData32_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData32_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1756 more memories to test.";echo "tr 52 M=MMU_CBPData32_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData32_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1755 more memories to test.";echo "tr 52 M=MMU_CBPData32_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData32_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1754 more memories to test.";echo "tr 52 M=MMU_CBPData32_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData32_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1753 more memories to test.";echo "tr 52 M=MMU_CBPData33 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData33 IS=min IE=max ITERations=1;echo "done";
echo "there are 1752 more memories to test.";echo "tr 52 M=MMU_CBPData33_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData33_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1751 more memories to test.";echo "tr 52 M=MMU_CBPData33_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData33_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1750 more memories to test.";echo "tr 52 M=MMU_CBPData33_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData33_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1749 more memories to test.";echo "tr 52 M=MMU_CBPData33_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData33_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1748 more memories to test.";echo "tr 52 M=MMU_CBPData34 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData34 IS=min IE=max ITERations=1;echo "done";
echo "there are 1747 more memories to test.";echo "tr 52 M=MMU_CBPData34_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData34_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1746 more memories to test.";echo "tr 52 M=MMU_CBPData34_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData34_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1745 more memories to test.";echo "tr 52 M=MMU_CBPData34_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData34_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1744 more memories to test.";echo "tr 52 M=MMU_CBPData34_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData34_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1743 more memories to test.";echo "tr 52 M=MMU_CBPData35 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData35 IS=min IE=max ITERations=1;echo "done";
echo "there are 1742 more memories to test.";echo "tr 52 M=MMU_CBPData35_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData35_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1741 more memories to test.";echo "tr 52 M=MMU_CBPData35_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData35_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1740 more memories to test.";echo "tr 52 M=MMU_CBPData35_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData35_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1739 more memories to test.";echo "tr 52 M=MMU_CBPData35_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData35_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1738 more memories to test.";echo "tr 52 M=MMU_CBPData36 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData36 IS=min IE=max ITERations=1;echo "done";
echo "there are 1737 more memories to test.";echo "tr 52 M=MMU_CBPData36_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData36_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1736 more memories to test.";echo "tr 52 M=MMU_CBPData36_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData36_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1735 more memories to test.";echo "tr 52 M=MMU_CBPData36_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData36_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1734 more memories to test.";echo "tr 52 M=MMU_CBPData36_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData36_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1733 more memories to test.";echo "tr 52 M=MMU_CBPData37 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData37 IS=min IE=max ITERations=1;echo "done";
echo "there are 1732 more memories to test.";echo "tr 52 M=MMU_CBPData37_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData37_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1731 more memories to test.";echo "tr 52 M=MMU_CBPData37_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData37_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1730 more memories to test.";echo "tr 52 M=MMU_CBPData37_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData37_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1729 more memories to test.";echo "tr 52 M=MMU_CBPData37_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData37_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1728 more memories to test.";echo "tr 52 M=MMU_CBPData38 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData38 IS=min IE=max ITERations=1;echo "done";
echo "there are 1727 more memories to test.";echo "tr 52 M=MMU_CBPData38_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData38_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1726 more memories to test.";echo "tr 52 M=MMU_CBPData38_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData38_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1725 more memories to test.";echo "tr 52 M=MMU_CBPData38_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData38_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1724 more memories to test.";echo "tr 52 M=MMU_CBPData38_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData38_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1723 more memories to test.";echo "tr 52 M=MMU_CBPData39 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData39 IS=min IE=max ITERations=1;echo "done";
echo "there are 1722 more memories to test.";echo "tr 52 M=MMU_CBPData39_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData39_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1721 more memories to test.";echo "tr 52 M=MMU_CBPData39_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData39_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1720 more memories to test.";echo "tr 52 M=MMU_CBPData39_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData39_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1719 more memories to test.";echo "tr 52 M=MMU_CBPData39_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData39_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1718 more memories to test.";echo "tr 52 M=MMU_CBPData3_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData3_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1717 more memories to test.";echo "tr 52 M=MMU_CBPData3_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData3_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1716 more memories to test.";echo "tr 52 M=MMU_CBPData3_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData3_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1715 more memories to test.";echo "tr 52 M=MMU_CBPData3_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData3_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1714 more memories to test.";echo "tr 52 M=MMU_CBPData4 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData4 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1713 more memories to test.";echo "tr 52 M=MMU_CBPData40 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData40 IS=min IE=max ITERations=1;echo "done";
echo "there are 1712 more memories to test.";echo "tr 52 M=MMU_CBPData40_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData40_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1711 more memories to test.";echo "tr 52 M=MMU_CBPData40_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData40_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1710 more memories to test.";echo "tr 52 M=MMU_CBPData40_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData40_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1709 more memories to test.";echo "tr 52 M=MMU_CBPData40_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData40_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1708 more memories to test.";echo "tr 52 M=MMU_CBPData41 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData41 IS=min IE=max ITERations=1;echo "done";
echo "there are 1707 more memories to test.";echo "tr 52 M=MMU_CBPData41_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData41_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1706 more memories to test.";echo "tr 52 M=MMU_CBPData41_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData41_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1705 more memories to test.";echo "tr 52 M=MMU_CBPData41_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData41_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1704 more memories to test.";echo "tr 52 M=MMU_CBPData41_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData41_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1703 more memories to test.";echo "tr 52 M=MMU_CBPData42 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData42 IS=min IE=max ITERations=1;echo "done";
echo "there are 1702 more memories to test.";echo "tr 52 M=MMU_CBPData42_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData42_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1701 more memories to test.";echo "tr 52 M=MMU_CBPData42_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData42_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1700 more memories to test.";echo "tr 52 M=MMU_CBPData42_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData42_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1699 more memories to test.";echo "tr 52 M=MMU_CBPData42_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData42_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1698 more memories to test.";echo "tr 52 M=MMU_CBPData43 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData43 IS=min IE=max ITERations=1;echo "done";
echo "there are 1697 more memories to test.";echo "tr 52 M=MMU_CBPData43_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData43_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1696 more memories to test.";echo "tr 52 M=MMU_CBPData43_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData43_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1695 more memories to test.";echo "tr 52 M=MMU_CBPData43_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData43_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1694 more memories to test.";echo "tr 52 M=MMU_CBPData43_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData43_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1693 more memories to test.";echo "tr 52 M=MMU_CBPData44 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData44 IS=min IE=max ITERations=1;echo "done";
echo "there are 1692 more memories to test.";echo "tr 52 M=MMU_CBPData44_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData44_XPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1691 more memories to test.";echo "tr 52 M=MMU_CBPData44_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData44_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1690 more memories to test.";echo "tr 52 M=MMU_CBPData44_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData44_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1689 more memories to test.";echo "tr 52 M=MMU_CBPData44_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData44_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1688 more memories to test.";echo "tr 52 M=MMU_CBPData45 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData45 IS=min IE=max ITERations=1;echo "done";
echo "there are 1687 more memories to test.";echo "tr 52 M=MMU_CBPData45_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData45_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1686 more memories to test.";echo "tr 52 M=MMU_CBPData45_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData45_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1685 more memories to test.";echo "tr 52 M=MMU_CBPData45_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData45_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1684 more memories to test.";echo "tr 52 M=MMU_CBPData45_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData45_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1683 more memories to test.";echo "tr 52 M=MMU_CBPData46 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData46 IS=min IE=max ITERations=1;echo "done";
echo "there are 1682 more memories to test.";echo "tr 52 M=MMU_CBPData46_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData46_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1681 more memories to test.";echo "tr 52 M=MMU_CBPData46_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData46_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1680 more memories to test.";echo "tr 52 M=MMU_CBPData46_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData46_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1679 more memories to test.";echo "tr 52 M=MMU_CBPData46_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData46_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1678 more memories to test.";echo "tr 52 M=MMU_CBPData47 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData47 IS=min IE=max ITERations=1;echo "done";
echo "there are 1677 more memories to test.";echo "tr 52 M=MMU_CBPData47_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData47_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1676 more memories to test.";echo "tr 52 M=MMU_CBPData47_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData47_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1675 more memories to test.";echo "tr 52 M=MMU_CBPData47_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData47_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1674 more memories to test.";echo "tr 52 M=MMU_CBPData47_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData47_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1673 more memories to test.";echo "tr 52 M=MMU_CBPData48 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData48 IS=min IE=max ITERations=1;echo "done";
echo "there are 1672 more memories to test.";echo "tr 52 M=MMU_CBPData48_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData48_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1671 more memories to test.";echo "tr 52 M=MMU_CBPData48_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData48_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1670 more memories to test.";echo "tr 52 M=MMU_CBPData48_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData48_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1669 more memories to test.";echo "tr 52 M=MMU_CBPData48_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData48_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1668 more memories to test.";echo "tr 52 M=MMU_CBPData49 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData49 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1667 more memories to test.";echo "tr 52 M=MMU_CBPData49_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData49_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1666 more memories to test.";echo "tr 52 M=MMU_CBPData49_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData49_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1665 more memories to test.";echo "tr 52 M=MMU_CBPData49_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData49_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1664 more memories to test.";echo "tr 52 M=MMU_CBPData49_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData49_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1663 more memories to test.";echo "tr 52 M=MMU_CBPData4_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData4_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1662 more memories to test.";echo "tr 52 M=MMU_CBPData4_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData4_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1661 more memories to test.";echo "tr 52 M=MMU_CBPData4_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData4_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1660 more memories to test.";echo "tr 52 M=MMU_CBPData4_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData4_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1659 more memories to test.";echo "tr 52 M=MMU_CBPData5 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData5 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1658 more memories to test.";echo "tr 52 M=MMU_CBPData50 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData50 IS=min IE=max ITERations=1;echo "done";
echo "there are 1657 more memories to test.";echo "tr 52 M=MMU_CBPData50_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData50_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1656 more memories to test.";echo "tr 52 M=MMU_CBPData50_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData50_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1655 more memories to test.";echo "tr 52 M=MMU_CBPData50_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData50_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1654 more memories to test.";echo "tr 52 M=MMU_CBPData50_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData50_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1653 more memories to test.";echo "tr 52 M=MMU_CBPData51 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData51 IS=min IE=max ITERations=1;echo "done";
echo "there are 1652 more memories to test.";echo "tr 52 M=MMU_CBPData51_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData51_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1651 more memories to test.";echo "tr 52 M=MMU_CBPData51_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData51_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1650 more memories to test.";echo "tr 52 M=MMU_CBPData51_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData51_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1649 more memories to test.";echo "tr 52 M=MMU_CBPData51_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData51_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1648 more memories to test.";echo "tr 52 M=MMU_CBPData52 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData52 IS=min IE=max ITERations=1;echo "done";
echo "there are 1647 more memories to test.";echo "tr 52 M=MMU_CBPData52_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData52_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1646 more memories to test.";echo "tr 52 M=MMU_CBPData52_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData52_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1645 more memories to test.";echo "tr 52 M=MMU_CBPData52_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData52_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1644 more memories to test.";echo "tr 52 M=MMU_CBPData52_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData52_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1643 more memories to test.";echo "tr 52 M=MMU_CBPData53 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData53 IS=min IE=max ITERations=1;echo "done";
echo "there are 1642 more memories to test.";echo "tr 52 M=MMU_CBPData53_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData53_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1641 more memories to test.";echo "tr 52 M=MMU_CBPData53_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData53_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1640 more memories to test.";echo "tr 52 M=MMU_CBPData53_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData53_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1639 more memories to test.";echo "tr 52 M=MMU_CBPData53_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData53_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1638 more memories to test.";echo "tr 52 M=MMU_CBPData54 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData54 IS=min IE=max ITERations=1;echo "done";
echo "there are 1637 more memories to test.";echo "tr 52 M=MMU_CBPData54_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData54_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1636 more memories to test.";echo "tr 52 M=MMU_CBPData54_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData54_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1635 more memories to test.";echo "tr 52 M=MMU_CBPData54_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData54_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1634 more memories to test.";echo "tr 52 M=MMU_CBPData54_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData54_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1633 more memories to test.";echo "tr 52 M=MMU_CBPData55 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData55 IS=min IE=max ITERations=1;echo "done";
echo "there are 1632 more memories to test.";echo "tr 52 M=MMU_CBPData55_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData55_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1631 more memories to test.";echo "tr 52 M=MMU_CBPData55_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData55_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1630 more memories to test.";echo "tr 52 M=MMU_CBPData55_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData55_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1629 more memories to test.";echo "tr 52 M=MMU_CBPData55_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData55_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1628 more memories to test.";echo "tr 52 M=MMU_CBPData56 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData56 IS=min IE=max ITERations=1;echo "done";
echo "there are 1627 more memories to test.";echo "tr 52 M=MMU_CBPData56_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData56_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1626 more memories to test.";echo "tr 52 M=MMU_CBPData56_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData56_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1625 more memories to test.";echo "tr 52 M=MMU_CBPData56_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData56_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1624 more memories to test.";echo "tr 52 M=MMU_CBPData56_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData56_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1623 more memories to test.";echo "tr 52 M=MMU_CBPData57 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData57 IS=min IE=max ITERations=1;echo "done";
echo "there are 1622 more memories to test.";echo "tr 52 M=MMU_CBPData57_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData57_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1621 more memories to test.";echo "tr 52 M=MMU_CBPData57_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData57_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1620 more memories to test.";echo "tr 52 M=MMU_CBPData57_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData57_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1619 more memories to test.";echo "tr 52 M=MMU_CBPData57_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData57_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1618 more memories to test.";echo "tr 52 M=MMU_CBPData58 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData58 IS=min IE=max ITERations=1;echo "done";
echo "there are 1617 more memories to test.";echo "tr 52 M=MMU_CBPData58_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData58_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1616 more memories to test.";echo "tr 52 M=MMU_CBPData58_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData58_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1615 more memories to test.";echo "tr 52 M=MMU_CBPData58_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData58_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1614 more memories to test.";echo "tr 52 M=MMU_CBPData58_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData58_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1613 more memories to test.";echo "tr 52 M=MMU_CBPData59 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData59 IS=min IE=max ITERations=1;echo "done";
echo "there are 1612 more memories to test.";echo "tr 52 M=MMU_CBPData59_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData59_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1611 more memories to test.";echo "tr 52 M=MMU_CBPData59_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData59_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1610 more memories to test.";echo "tr 52 M=MMU_CBPData59_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData59_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1609 more memories to test.";echo "tr 52 M=MMU_CBPData59_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData59_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1608 more memories to test.";echo "tr 52 M=MMU_CBPData5_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData5_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1607 more memories to test.";echo "tr 52 M=MMU_CBPData5_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData5_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1606 more memories to test.";echo "tr 52 M=MMU_CBPData5_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData5_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1605 more memories to test.";echo "tr 52 M=MMU_CBPData5_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData5_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1604 more memories to test.";echo "tr 52 M=MMU_CBPData6 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData6 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1603 more memories to test.";echo "tr 52 M=MMU_CBPData60 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData60 IS=min IE=max ITERations=1;echo "done";
echo "there are 1602 more memories to test.";echo "tr 52 M=MMU_CBPData60_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData60_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1601 more memories to test.";echo "tr 52 M=MMU_CBPData60_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData60_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1600 more memories to test.";echo "tr 52 M=MMU_CBPData60_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData60_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1599 more memories to test.";echo "tr 52 M=MMU_CBPData60_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData60_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1598 more memories to test.";echo "tr 52 M=MMU_CBPData61 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData61 IS=min IE=max ITERations=1;echo "done";
echo "there are 1597 more memories to test.";echo "tr 52 M=MMU_CBPData61_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData61_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1596 more memories to test.";echo "tr 52 M=MMU_CBPData61_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData61_XPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1595 more memories to test.";echo "tr 52 M=MMU_CBPData61_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData61_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1594 more memories to test.";echo "tr 52 M=MMU_CBPData61_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData61_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1593 more memories to test.";echo "tr 52 M=MMU_CBPData62 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData62 IS=min IE=max ITERations=1;echo "done";
echo "there are 1592 more memories to test.";echo "tr 52 M=MMU_CBPData62_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData62_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1591 more memories to test.";echo "tr 52 M=MMU_CBPData62_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData62_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1590 more memories to test.";echo "tr 52 M=MMU_CBPData62_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData62_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1589 more memories to test.";echo "tr 52 M=MMU_CBPData62_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData62_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1588 more memories to test.";echo "tr 52 M=MMU_CBPData63 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData63 IS=min IE=max ITERations=1;echo "done";
echo "there are 1587 more memories to test.";echo "tr 52 M=MMU_CBPData63_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData63_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1586 more memories to test.";echo "tr 52 M=MMU_CBPData63_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData63_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1585 more memories to test.";echo "tr 52 M=MMU_CBPData63_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData63_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1584 more memories to test.";echo "tr 52 M=MMU_CBPData63_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData63_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1583 more memories to test.";echo "tr 52 M=MMU_CBPData64 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData64 IS=min IE=max ITERations=1;echo "done";
echo "there are 1582 more memories to test.";echo "tr 52 M=MMU_CBPData64_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData64_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1581 more memories to test.";echo "tr 52 M=MMU_CBPData64_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData64_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1580 more memories to test.";echo "tr 52 M=MMU_CBPData64_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData64_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1579 more memories to test.";echo "tr 52 M=MMU_CBPData64_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData64_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1578 more memories to test.";echo "tr 52 M=MMU_CBPData65 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData65 IS=min IE=max ITERations=1;echo "done";
echo "there are 1577 more memories to test.";echo "tr 52 M=MMU_CBPData65_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData65_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1576 more memories to test.";echo "tr 52 M=MMU_CBPData65_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData65_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1575 more memories to test.";echo "tr 52 M=MMU_CBPData65_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData65_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1574 more memories to test.";echo "tr 52 M=MMU_CBPData65_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData65_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1573 more memories to test.";echo "tr 52 M=MMU_CBPData66 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData66 IS=min IE=max ITERations=1;echo "done";
echo "there are 1572 more memories to test.";echo "tr 52 M=MMU_CBPData66_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData66_XPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1571 more memories to test.";echo "tr 52 M=MMU_CBPData66_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData66_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1570 more memories to test.";echo "tr 52 M=MMU_CBPData66_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData66_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1569 more memories to test.";echo "tr 52 M=MMU_CBPData66_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData66_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1568 more memories to test.";echo "tr 52 M=MMU_CBPData67 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData67 IS=min IE=max ITERations=1;echo "done";
echo "there are 1567 more memories to test.";echo "tr 52 M=MMU_CBPData67_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData67_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1566 more memories to test.";echo "tr 52 M=MMU_CBPData67_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData67_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1565 more memories to test.";echo "tr 52 M=MMU_CBPData67_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData67_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1564 more memories to test.";echo "tr 52 M=MMU_CBPData67_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData67_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1563 more memories to test.";echo "tr 52 M=MMU_CBPData68 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData68 IS=min IE=max ITERations=1;echo "done";
echo "there are 1562 more memories to test.";echo "tr 52 M=MMU_CBPData68_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData68_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1561 more memories to test.";echo "tr 52 M=MMU_CBPData68_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData68_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1560 more memories to test.";echo "tr 52 M=MMU_CBPData68_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData68_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1559 more memories to test.";echo "tr 52 M=MMU_CBPData68_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData68_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1558 more memories to test.";echo "tr 52 M=MMU_CBPData69 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData69 IS=min IE=max ITERations=1;echo "done";
echo "there are 1557 more memories to test.";echo "tr 52 M=MMU_CBPData69_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData69_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1556 more memories to test.";echo "tr 52 M=MMU_CBPData69_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData69_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1555 more memories to test.";echo "tr 52 M=MMU_CBPData69_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData69_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1554 more memories to test.";echo "tr 52 M=MMU_CBPData69_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData69_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1553 more memories to test.";echo "tr 52 M=MMU_CBPData6_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData6_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1552 more memories to test.";echo "tr 52 M=MMU_CBPData6_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData6_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1551 more memories to test.";echo "tr 52 M=MMU_CBPData6_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData6_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1550 more memories to test.";echo "tr 52 M=MMU_CBPData6_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData6_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1549 more memories to test.";echo "tr 52 M=MMU_CBPData7 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData7 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1548 more memories to test.";echo "tr 52 M=MMU_CBPData70 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData70 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1547 more memories to test.";echo "tr 52 M=MMU_CBPData70_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData70_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1546 more memories to test.";echo "tr 52 M=MMU_CBPData70_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData70_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1545 more memories to test.";echo "tr 52 M=MMU_CBPData70_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData70_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1544 more memories to test.";echo "tr 52 M=MMU_CBPData70_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData70_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1543 more memories to test.";echo "tr 52 M=MMU_CBPData71 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData71 IS=min IE=max ITERations=1;echo "done";
echo "there are 1542 more memories to test.";echo "tr 52 M=MMU_CBPData71_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData71_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1541 more memories to test.";echo "tr 52 M=MMU_CBPData71_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData71_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1540 more memories to test.";echo "tr 52 M=MMU_CBPData71_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData71_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1539 more memories to test.";echo "tr 52 M=MMU_CBPData71_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData71_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1538 more memories to test.";echo "tr 52 M=MMU_CBPData72 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData72 IS=min IE=max ITERations=1;echo "done";
echo "there are 1537 more memories to test.";echo "tr 52 M=MMU_CBPData72_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData72_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1536 more memories to test.";echo "tr 52 M=MMU_CBPData72_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData72_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1535 more memories to test.";echo "tr 52 M=MMU_CBPData72_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData72_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1534 more memories to test.";echo "tr 52 M=MMU_CBPData72_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData72_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1533 more memories to test.";echo "tr 52 M=MMU_CBPData73 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData73 IS=min IE=max ITERations=1;echo "done";
echo "there are 1532 more memories to test.";echo "tr 52 M=MMU_CBPData73_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData73_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1531 more memories to test.";echo "tr 52 M=MMU_CBPData73_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData73_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1530 more memories to test.";echo "tr 52 M=MMU_CBPData73_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData73_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1529 more memories to test.";echo "tr 52 M=MMU_CBPData73_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData73_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1528 more memories to test.";echo "tr 52 M=MMU_CBPData74 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData74 IS=min IE=max ITERations=1;echo "done";
echo "there are 1527 more memories to test.";echo "tr 52 M=MMU_CBPData74_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData74_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1526 more memories to test.";echo "tr 52 M=MMU_CBPData74_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData74_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1525 more memories to test.";echo "tr 52 M=MMU_CBPData74_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData74_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1524 more memories to test.";echo "tr 52 M=MMU_CBPData74_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData74_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1523 more memories to test.";echo "tr 52 M=MMU_CBPData75 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData75 IS=min IE=max ITERations=1;echo "done";
echo "there are 1522 more memories to test.";echo "tr 52 M=MMU_CBPData75_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData75_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1521 more memories to test.";echo "tr 52 M=MMU_CBPData75_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData75_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1520 more memories to test.";echo "tr 52 M=MMU_CBPData75_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData75_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1519 more memories to test.";echo "tr 52 M=MMU_CBPData75_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData75_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1518 more memories to test.";echo "tr 52 M=MMU_CBPData76 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData76 IS=min IE=max ITERations=1;echo "done";
echo "there are 1517 more memories to test.";echo "tr 52 M=MMU_CBPData76_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData76_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1516 more memories to test.";echo "tr 52 M=MMU_CBPData76_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData76_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1515 more memories to test.";echo "tr 52 M=MMU_CBPData76_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData76_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1514 more memories to test.";echo "tr 52 M=MMU_CBPData76_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData76_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1513 more memories to test.";echo "tr 52 M=MMU_CBPData77 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData77 IS=min IE=max ITERations=1;echo "done";
echo "there are 1512 more memories to test.";echo "tr 52 M=MMU_CBPData77_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData77_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1511 more memories to test.";echo "tr 52 M=MMU_CBPData77_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData77_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1510 more memories to test.";echo "tr 52 M=MMU_CBPData77_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData77_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1509 more memories to test.";echo "tr 52 M=MMU_CBPData77_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData77_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1508 more memories to test.";echo "tr 52 M=MMU_CBPData78 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData78 IS=min IE=max ITERations=1;echo "done";
echo "there are 1507 more memories to test.";echo "tr 52 M=MMU_CBPData78_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData78_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1506 more memories to test.";echo "tr 52 M=MMU_CBPData78_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData78_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1505 more memories to test.";echo "tr 52 M=MMU_CBPData78_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData78_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1504 more memories to test.";echo "tr 52 M=MMU_CBPData78_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData78_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1503 more memories to test.";echo "tr 52 M=MMU_CBPData79 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData79 IS=min IE=max ITERations=1;echo "done";
echo "there are 1502 more memories to test.";echo "tr 52 M=MMU_CBPData79_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData79_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1501 more memories to test.";echo "tr 52 M=MMU_CBPData79_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData79_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1500 more memories to test.";echo "tr 52 M=MMU_CBPData79_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData79_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1499 more memories to test.";echo "tr 52 M=MMU_CBPData79_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData79_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1498 more memories to test.";echo "tr 52 M=MMU_CBPData7_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData7_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1497 more memories to test.";echo "tr 52 M=MMU_CBPData7_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData7_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1496 more memories to test.";echo "tr 52 M=MMU_CBPData7_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData7_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1495 more memories to test.";echo "tr 52 M=MMU_CBPData7_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData7_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1494 more memories to test.";echo "tr 52 M=MMU_CBPData8 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData8 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1493 more memories to test.";echo "tr 52 M=MMU_CBPData80 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData80 IS=min IE=max ITERations=1;echo "done";
echo "there are 1492 more memories to test.";echo "tr 52 M=MMU_CBPData80_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData80_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1491 more memories to test.";echo "tr 52 M=MMU_CBPData80_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData80_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1490 more memories to test.";echo "tr 52 M=MMU_CBPData80_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData80_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1489 more memories to test.";echo "tr 52 M=MMU_CBPData80_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData80_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1488 more memories to test.";echo "tr 52 M=MMU_CBPData81 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData81 IS=min IE=max ITERations=1;echo "done";
echo "there are 1487 more memories to test.";echo "tr 52 M=MMU_CBPData81_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData81_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1486 more memories to test.";echo "tr 52 M=MMU_CBPData81_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData81_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1485 more memories to test.";echo "tr 52 M=MMU_CBPData81_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData81_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1484 more memories to test.";echo "tr 52 M=MMU_CBPData81_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData81_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1483 more memories to test.";echo "tr 52 M=MMU_CBPData82 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData82 IS=min IE=max ITERations=1;echo "done";
echo "there are 1482 more memories to test.";echo "tr 52 M=MMU_CBPData82_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData82_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1481 more memories to test.";echo "tr 52 M=MMU_CBPData82_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData82_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1480 more memories to test.";echo "tr 52 M=MMU_CBPData82_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData82_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1479 more memories to test.";echo "tr 52 M=MMU_CBPData82_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData82_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1478 more memories to test.";echo "tr 52 M=MMU_CBPData83 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData83 IS=min IE=max ITERations=1;echo "done";
echo "there are 1477 more memories to test.";echo "tr 52 M=MMU_CBPData83_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData83_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1476 more memories to test.";echo "tr 52 M=MMU_CBPData83_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData83_XPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1475 more memories to test.";echo "tr 52 M=MMU_CBPData83_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData83_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1474 more memories to test.";echo "tr 52 M=MMU_CBPData83_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData83_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1473 more memories to test.";echo "tr 52 M=MMU_CBPData84 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData84 IS=min IE=max ITERations=1;echo "done";
echo "there are 1472 more memories to test.";echo "tr 52 M=MMU_CBPData84_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData84_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1471 more memories to test.";echo "tr 52 M=MMU_CBPData84_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData84_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1470 more memories to test.";echo "tr 52 M=MMU_CBPData84_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData84_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1469 more memories to test.";echo "tr 52 M=MMU_CBPData84_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData84_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1468 more memories to test.";echo "tr 52 M=MMU_CBPData85 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData85 IS=min IE=max ITERations=1;echo "done";
echo "there are 1467 more memories to test.";echo "tr 52 M=MMU_CBPData85_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData85_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1466 more memories to test.";echo "tr 52 M=MMU_CBPData85_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData85_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1465 more memories to test.";echo "tr 52 M=MMU_CBPData85_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData85_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1464 more memories to test.";echo "tr 52 M=MMU_CBPData85_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData85_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1463 more memories to test.";echo "tr 52 M=MMU_CBPData86 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData86 IS=min IE=max ITERations=1;echo "done";
echo "there are 1462 more memories to test.";echo "tr 52 M=MMU_CBPData86_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData86_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1461 more memories to test.";echo "tr 52 M=MMU_CBPData86_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData86_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1460 more memories to test.";echo "tr 52 M=MMU_CBPData86_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData86_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1459 more memories to test.";echo "tr 52 M=MMU_CBPData86_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData86_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1458 more memories to test.";echo "tr 52 M=MMU_CBPData87 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData87 IS=min IE=max ITERations=1;echo "done";
echo "there are 1457 more memories to test.";echo "tr 52 M=MMU_CBPData87_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData87_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1456 more memories to test.";echo "tr 52 M=MMU_CBPData87_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData87_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1455 more memories to test.";echo "tr 52 M=MMU_CBPData87_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData87_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1454 more memories to test.";echo "tr 52 M=MMU_CBPData87_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData87_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1453 more memories to test.";echo "tr 52 M=MMU_CBPData88 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData88 IS=min IE=max ITERations=1;echo "done";
echo "there are 1452 more memories to test.";echo "tr 52 M=MMU_CBPData88_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData88_XPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1451 more memories to test.";echo "tr 52 M=MMU_CBPData88_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData88_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1450 more memories to test.";echo "tr 52 M=MMU_CBPData88_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData88_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1449 more memories to test.";echo "tr 52 M=MMU_CBPData88_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData88_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1448 more memories to test.";echo "tr 52 M=MMU_CBPData89 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData89 IS=min IE=max ITERations=1;echo "done";
echo "there are 1447 more memories to test.";echo "tr 52 M=MMU_CBPData89_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData89_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1446 more memories to test.";echo "tr 52 M=MMU_CBPData89_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData89_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1445 more memories to test.";echo "tr 52 M=MMU_CBPData89_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData89_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1444 more memories to test.";echo "tr 52 M=MMU_CBPData89_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData89_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1443 more memories to test.";echo "tr 52 M=MMU_CBPData8_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData8_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1442 more memories to test.";echo "tr 52 M=MMU_CBPData8_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData8_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1441 more memories to test.";echo "tr 52 M=MMU_CBPData8_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData8_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1440 more memories to test.";echo "tr 52 M=MMU_CBPData8_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData8_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1439 more memories to test.";echo "tr 52 M=MMU_CBPData9 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData9 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1438 more memories to test.";echo "tr 52 M=MMU_CBPData90 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData90 IS=min IE=max ITERations=1;echo "done";
echo "there are 1437 more memories to test.";echo "tr 52 M=MMU_CBPData90_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData90_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1436 more memories to test.";echo "tr 52 M=MMU_CBPData90_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData90_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1435 more memories to test.";echo "tr 52 M=MMU_CBPData90_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData90_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1434 more memories to test.";echo "tr 52 M=MMU_CBPData90_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData90_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1433 more memories to test.";echo "tr 52 M=MMU_CBPData91 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData91 IS=min IE=max ITERations=1;echo "done";
echo "there are 1432 more memories to test.";echo "tr 52 M=MMU_CBPData91_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData91_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1431 more memories to test.";echo "tr 52 M=MMU_CBPData91_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData91_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1430 more memories to test.";echo "tr 52 M=MMU_CBPData91_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData91_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1429 more memories to test.";echo "tr 52 M=MMU_CBPData91_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData91_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1428 more memories to test.";echo "tr 52 M=MMU_CBPData92 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData92 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1427 more memories to test.";echo "tr 52 M=MMU_CBPData92_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData92_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1426 more memories to test.";echo "tr 52 M=MMU_CBPData92_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData92_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1425 more memories to test.";echo "tr 52 M=MMU_CBPData92_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData92_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1424 more memories to test.";echo "tr 52 M=MMU_CBPData92_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData92_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1423 more memories to test.";echo "tr 52 M=MMU_CBPData93 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData93 IS=min IE=max ITERations=1;echo "done";
echo "there are 1422 more memories to test.";echo "tr 52 M=MMU_CBPData93_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData93_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1421 more memories to test.";echo "tr 52 M=MMU_CBPData93_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData93_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1420 more memories to test.";echo "tr 52 M=MMU_CBPData93_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData93_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1419 more memories to test.";echo "tr 52 M=MMU_CBPData93_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData93_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1418 more memories to test.";echo "tr 52 M=MMU_CBPData94 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData94 IS=min IE=max ITERations=1;echo "done";
echo "there are 1417 more memories to test.";echo "tr 52 M=MMU_CBPData94_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData94_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1416 more memories to test.";echo "tr 52 M=MMU_CBPData94_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData94_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1415 more memories to test.";echo "tr 52 M=MMU_CBPData94_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData94_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1414 more memories to test.";echo "tr 52 M=MMU_CBPData94_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData94_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1413 more memories to test.";echo "tr 52 M=MMU_CBPData95 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData95 IS=min IE=max ITERations=1;echo "done";
echo "there are 1412 more memories to test.";echo "tr 52 M=MMU_CBPData95_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData95_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1411 more memories to test.";echo "tr 52 M=MMU_CBPData95_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData95_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1410 more memories to test.";echo "tr 52 M=MMU_CBPData95_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData95_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1409 more memories to test.";echo "tr 52 M=MMU_CBPData95_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData95_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1408 more memories to test.";echo "tr 52 M=MMU_CBPData96 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData96 IS=min IE=max ITERations=1;echo "done";
echo "there are 1407 more memories to test.";echo "tr 52 M=MMU_CBPData96_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData96_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1406 more memories to test.";echo "tr 52 M=MMU_CBPData96_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData96_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1405 more memories to test.";echo "tr 52 M=MMU_CBPData96_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData96_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1404 more memories to test.";echo "tr 52 M=MMU_CBPData96_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData96_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1403 more memories to test.";echo "tr 52 M=MMU_CBPData97 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData97 IS=min IE=max ITERations=1;echo "done";
echo "there are 1402 more memories to test.";echo "tr 52 M=MMU_CBPData97_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData97_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1401 more memories to test.";echo "tr 52 M=MMU_CBPData97_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData97_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1400 more memories to test.";echo "tr 52 M=MMU_CBPData97_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData97_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1399 more memories to test.";echo "tr 52 M=MMU_CBPData97_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData97_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1398 more memories to test.";echo "tr 52 M=MMU_CBPData98 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData98 IS=min IE=max ITERations=1;echo "done";
echo "there are 1397 more memories to test.";echo "tr 52 M=MMU_CBPData98_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData98_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1396 more memories to test.";echo "tr 52 M=MMU_CBPData98_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData98_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1395 more memories to test.";echo "tr 52 M=MMU_CBPData98_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData98_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1394 more memories to test.";echo "tr 52 M=MMU_CBPData98_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData98_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1393 more memories to test.";echo "tr 52 M=MMU_CBPData99 IS=min IE=max ITERations=1";tr
52 M=MMU_CBPData99 IS=min IE=max ITERations=1;echo "done";
echo "there are 1392 more memories to test.";echo "tr 52 M=MMU_CBPData99_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData99_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1391 more memories to test.";echo "tr 52 M=MMU_CBPData99_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData99_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1390 more memories to test.";echo "tr 52 M=MMU_CBPData99_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData99_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1389 more memories to test.";echo "tr 52 M=MMU_CBPData99_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData99_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1388 more memories to test.";echo "tr 52 M=MMU_CBPData9_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData9_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1387 more memories to test.";echo "tr 52 M=MMU_CBPData9_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData9_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1386 more memories to test.";echo "tr 52 M=MMU_CBPData9_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData9_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1385 more memories to test.";echo "tr 52 M=MMU_CBPData9_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CBPData9_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1384 more memories to test.";echo "tr 52 M=MMU_CCP_MEM IS=min IE=max ITERations=1";tr
52 M=MMU_CCP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1383 more memories to test.";echo "tr 52 M=MMU_CCP_MEM_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1382 more memories to test.";echo "tr 52 M=MMU_CCP_MEM_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1381 more memories to test.";echo "tr 52 M=MMU_CCP_MEM_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1380 more memories to test.";echo "tr 52 M=MMU_CCP_MEM_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1379 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1378 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1377 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1376 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1375 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1374 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1373 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1372 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1371 more memories to test.";echo "tr 52 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1370 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1369 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1368 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1367 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1366 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1365 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1364 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK10 IS=min IE=max ITERations=1;echo "done";
echo "there are 1363 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK10_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1362 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK10_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1361 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK10_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1360 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK10_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1359 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK11 IS=min IE=max ITERations=1;echo "done";
echo "there are 1358 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK11_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1357 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK11_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1356 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK11_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1355 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK11_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1354 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK12 IS=min IE=max ITERations=1;echo "done";
echo "there are 1353 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK12_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1352 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK12_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1351 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK12_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1350 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK12_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1349 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK13 IS=min IE=max ITERations=1;echo "done";
echo "there are 1348 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK13_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1347 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK13_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1346 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK13_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1345 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK13_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1344 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1343 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1342 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1341 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK1_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1340 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1339 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK2_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1338 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK2_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1337 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK2_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1336 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK2_XPE3 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 1335 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1334 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK3_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1333 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK3_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1332 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK3_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1331 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK3_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1330 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK4 IS=min IE=max ITERations=1;echo "done";
echo "there are 1329 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK4_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1328 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK4_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1327 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK4_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1326 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK4_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1325 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK5 IS=min IE=max ITERations=1;echo "done";
echo "there are 1324 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK5_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1323 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK5_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1322 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK5_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1321 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK5_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1320 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK6 IS=min IE=max ITERations=1;echo "done";
echo "there are 1319 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK6_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1318 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK6_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1317 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK6_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1316 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK6_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1315 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK7 IS=min IE=max ITERations=1;echo "done";
echo "there are 1314 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK7_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1313 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK7_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1312 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK7_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1311 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK7_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1310 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK8 IS=min IE=max ITERations=1;echo "done";
echo "there are 1309 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK8_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1308 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK8_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1307 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK8_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1306 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK8_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1305 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK9 IS=min IE=max ITERations=1;echo "done";
echo "there are 1304 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK9_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1303 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK9_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1302 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK9_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1301 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAP_BANK9_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1300 more memories to test.";echo "tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
ITERations=1";tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 1299 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1298 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1297 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1296 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1295 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1294 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1293 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1292 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1291 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3
```

```
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1290 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1289 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1288 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1287 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1286 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1285 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1284 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1283 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1282 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1281 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1280 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1279 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1278 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1277 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1276 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1275 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 1274 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1273 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1272 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1271 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1270 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1269 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1268 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1267 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1266 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1265 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1264 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1263 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1262 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1261 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1260 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1259 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1258 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 1257 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1256 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1255 more memories to test.";echo "tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1254 more memories to test.";echo "tr 52 M=MMU_ENQS_CT_FIFO IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_CT_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1253 more memories to test.";echo "tr 52 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1252 more memories to test.";echo "tr 52 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1251 more memories to test.";echo "tr 52 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1250 more memories to test.";echo "tr 52 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1249 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB IS=min IE=max ITERations=1;echo "done";
echo "there are 1248 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1247 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1246 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1245 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1244 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1243 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1242 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1241 more memories to test.";echo "tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1240 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min
IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min IE=max ITERations=1;echo
"done";
echo "there are 1239 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1238 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1237 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0
```

IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1236 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1235 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1234 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1233 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1232 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1231 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min IE=max ITERations=1;echo "done";
echo "there are 1230 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1229 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1228 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1227 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1226 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1225 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1224 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1223 more memories to test.";echo "tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1222 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI IS=min IE=max ITERations=1;echo "done";
echo "there are 1221 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max ITERations=1;echo

"done";
echo "there are 1220 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1219 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1218 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1217 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1216 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1215 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1214 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1213 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max ITERations=1;echo "done";
echo "there are 1212 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1211 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1210 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1209 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1208 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1207 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1206 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1205 more memories to test.";echo "tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";

```
#echo "there are 1204 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_EPRG_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1203 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_EPRG_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1202 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_EPRG_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1201 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_EPRG_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1200 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_EPRG_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1199 more memories to test.";echo "tr 52 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 52 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1198 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 1197 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1196 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1195 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1194 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1193 more memories to test.";echo "tr 52 M=MMU_INTFO_TIMESTAMP IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1192 more memories to test.";echo "tr 52 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1191 more memories to test.";echo "tr 52 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1190 more memories to test.";echo "tr 52 M=MMU_LINK_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_LINK_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1189 more memories to test.";echo "tr 52 M=MMU_LINK_MEM_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_LINK_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1188 more memories to test.";echo "tr 52 M=MMU_LINK_MEM_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_LINK_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1187 more memories to test.";echo "tr 52 M=MMU_LINK_MEM_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_LINK_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1186 more memories to test.";echo "tr 52 M=MMU_LINK_MEM_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_LINK_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1185 more memories to test.";echo "tr 52 M=MMU_MCFP IS=min IE=max ITERations=1";tr 52
M=MMU_MCFP IS=min IE=max ITERations=1;echo "done";
echo "there are 1184 more memories to test.";echo "tr 52 M=MMU_MCFP_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCFP_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1183 more memories to test.";echo "tr 52 M=MMU_MCFP_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCFP_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1182 more memories to test.";echo "tr 52 M=MMU_MCFP_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCFP_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1181 more memories to test.";echo "tr 52 M=MMU_MCFP_XPE3 IS=min IE=max
```

```
ITERations=1";tr 52 M=MMU_MCFP_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1180 more memories to test.";echo "tr 52 M=MMU_MCQDB_X IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1179 more memories to test.";echo "tr 52 M=MMU_MCQDB_X_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1178 more memories to test.";echo "tr 52 M=MMU_MCQDB_X_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1177 more memories to test.";echo "tr 52 M=MMU_MCQDB_X_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1176 more memories to test.";echo "tr 52 M=MMU_MCQDB_X_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1175 more memories to test.";echo "tr 52 M=MMU_MCQDB_Y IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1174 more memories to test.";echo "tr 52 M=MMU_MCQDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1173 more memories to test.";echo "tr 52 M=MMU_MCQDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1172 more memories to test.";echo "tr 52 M=MMU_MCQDB_Y_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1171 more memories to test.";echo "tr 52 M=MMU_MCQDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1170 more memories to test.";echo "tr 52 M=MMU_MCQE IS=min IE=max ITERations=1";tr 52
M=MMU_MCQE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1169 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_X IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1168 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1167 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1166 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1165 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1164 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_Y IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1163 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1162 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1161 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1160 more memories to test.";echo "tr 52 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1159 more memories to test.";echo "tr 52 M=MMU_MCQE_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1158 more memories to test.";echo "tr 52 M=MMU_MCQE_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1157 more memories to test.";echo "tr 52 M=MMU_MCQE_XPE2 IS=min IE=max
```

```
ITERations=1";tr 52 M=MMU_MCQE_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1156 more memories to test.";echo "tr 52 M=MMU_MCQE_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQE_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1155 more memories to test.";echo "tr 52 M=MMU_MCQN IS=min IE=max ITERations=1";tr 52
M=MMU_MCQN IS=min IE=max ITERations=1;echo "done";
echo "there are 1154 more memories to test.";echo "tr 52 M=MMU_MCQN_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQN_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1153 more memories to test.";echo "tr 52 M=MMU_MCQN_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQN_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1152 more memories to test.";echo "tr 52 M=MMU_MCQN_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQN_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1151 more memories to test.";echo "tr 52 M=MMU_MCQN_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MCQN_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1150 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1149 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1148 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1147 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1146 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1145 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1144 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1143 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1142 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1141 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1140 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1139 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 1138 more memories to test.";echo "tr 52
```

```
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1137 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1136 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1135 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1134 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 1133 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1132 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1131 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1130 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1129 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1128 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1127 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1126 more memories to test.";echo "tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1125 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM IS=min IE=max ITERations=1;echo "done";
#echo "there are 1124 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_A IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_A IS=min IE=max ITERations=1;echo "done";
echo "there are 1123 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1122 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1121 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1120 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1119 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_B IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_B IS=min IE=max ITERations=1;echo "done";
echo "there are 1118 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1117 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1116 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1115 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1114 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1113 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1112 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1111 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1110 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM IS=min IE=max ITERations=1;echo "done";
#echo "there are 1109 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_A IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_A IS=min IE=max ITERations=1;echo "done";
echo "there are 1108 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1107 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1106 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1105 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1104 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_B IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_B IS=min IE=max ITERations=1;echo "done";
echo "there are 1103 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1102 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1101 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1100 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1099 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1098 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1097 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1096 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1095 more memories to test.";echo "tr 52 M=MMU_PDB_X IS=min IE=max ITERations=1";tr 52
M=MMU_PDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1094 more memories to test.";echo "tr 52 M=MMU_PDB_X_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1093 more memories to test.";echo "tr 52 M=MMU_PDB_X_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1092 more memories to test.";echo "tr 52 M=MMU_PDB_X_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1091 more memories to test.";echo "tr 52 M=MMU_PDB_X_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1090 more memories to test.";echo "tr 52 M=MMU_PDB_Y IS=min IE=max ITERations=1";tr 52
M=MMU_PDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1089 more memories to test.";echo "tr 52 M=MMU_PDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1088 more memories to test.";echo "tr 52 M=MMU_PDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1087 more memories to test.";echo "tr 52 M=MMU_PDB_Y_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1086 more memories to test.";echo "tr 52 M=MMU_PDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1085 more memories to test.";echo "tr 52 M=MMU_PKTHDR IS=min IE=max ITERations=1";tr
52 M=MMU_PKTHDR IS=min IE=max ITERations=1;echo "done";
echo "there are 1084 more memories to test.";echo "tr 52 M=MMU_PKTHDR_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PKTHDR_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1083 more memories to test.";echo "tr 52 M=MMU_PKTHDR_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PKTHDR_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1082 more memories to test.";echo "tr 52 M=MMU_PKTHDR_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PKTHDR_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1081 more memories to test.";echo "tr 52 M=MMU_PKTHDR_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PKTHDR_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1080 more memories to test.";echo "tr 52 M=MMU_PORTCNT IS=min IE=max ITERations=1";tr
52 M=MMU_PORTCNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1079 more memories to test.";echo "tr 52 M=MMU_PORTCNT_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PORTCNT_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1078 more memories to test.";echo "tr 52 M=MMU_PORTCNT_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PORTCNT_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1077 more memories to test.";echo "tr 52 M=MMU_PORTCNT_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PORTCNT_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1076 more memories to test.";echo "tr 52 M=MMU_PORTCNT_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PORTCNT_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1075 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1074 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE0_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1073 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE0_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1072 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE0_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1071 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE0_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1070 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE1_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1069 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE1_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1068 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE1_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1067 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE1_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1066 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_PQE1_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1065 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1064 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1063 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1062 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1061 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1060 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1059 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0
IS=min IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1058 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max ITERations=1";tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1057 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max ITERations=1";tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1056 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1
IS=min IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1055 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max ITERations=1";tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1054 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max ITERations=1";tr 52
```

```
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1053 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max ITERations=1";tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1052 more memories to test.";echo "tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max ITERations=1";tr 52
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1051 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1050 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1049 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1048 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1047 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1046 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1045 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1044 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1043 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1042 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1041 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1040 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1039 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1038 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1037 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1036 more memories to test.";echo "tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1035 more memories to test.";echo "tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min
IE=max ITERations=1";tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1034 more memories to test.";echo "tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min
IE=max ITERations=1";tr 52 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1033 more memories to test.";echo "tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 1032 more memories to test.";echo "tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0
IS=min IE=max ITERations=1";tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1031 more memories to test.";echo "tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1
IS=min IE=max ITERations=1";tr 52 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1030 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_LOWER
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_LOWER IS=min IE=max
ITERations=1;echo "done";
echo "there are 1029 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1028 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1027 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1026 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1025 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max ITERations=1;echo "done";
echo "there are 1024 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1023 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1022 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1021 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1020 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1019 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 1018 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1017 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1016 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max ITERations=1";tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max ITERations=1;echo "done";
echo "there are 1015 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1014 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1013 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1012 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1011 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1010 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1009 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1008 more memories to test.";echo "tr 52
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max ITERations=1";tr
52 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1007 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER IS=min IE=max
ITERations=1;echo "done";
echo "there are 1006 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0
```

```
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1005 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1004 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1003 more memories to test.";echo "tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1002 more memories to test.";echo "tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1001 more memories to test.";echo "tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1000 more memories to test.";echo "tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 999 more memories to test.";echo "tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 998 more memories to test.";echo "tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 997 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 996 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 995 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 994 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 993 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 992 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 991 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 990 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 989 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 988 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 987 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 986 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 985 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 984 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 983 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 982 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 981 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 980 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 979 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 978 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 977 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 976 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 975 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 974 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 973 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 972 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 971 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 970 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 969 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 968 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 967 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 966 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 965 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 964 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 963 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 962 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 961 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 960 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 959 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 958 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 957 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 956 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 955 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 954 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 953 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 952 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 951 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 950 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 949 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 948 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 947 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 946 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 945 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 944 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 943 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 942 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 941 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 940 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 939 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 938 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 937 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 936 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 935 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 934 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 933 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 932 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 931 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 930 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET IS=min IE=max ITERations=1;echo
"done";
#echo "there are 929 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 928 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 927 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 926 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 925 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 924 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 923 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 922 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 921 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 920 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 919 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 918 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 917 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 915 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 914 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 911 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 910 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 909 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 908 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 907 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 906 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 905 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 904 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 903 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 901 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST IS=min IE=max ITERations=1;echo
"done";
echo "there are 900 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 898 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 897 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 893 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 892 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 891 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 888 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 886 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 883 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 882 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 881 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min IE=max
ITERations=1;echo "done";
echo "there are 880 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 879 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 878 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 877 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 876 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 875 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 874 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 873 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 872 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max
ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 871 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 870 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 869 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 868 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 867 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 866 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 865 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 864 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 862 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 861 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0
```

```
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 860 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 859 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 858 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 857 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 856 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 855 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 854 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 853 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 852 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min IE=max
ITERations=1;echo "done";
echo "there are 851 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 850 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 849 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 848 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 847 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 846 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 845 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2
```

```
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 844 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 843 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 842 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 841 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 840 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 839 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 838 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 837 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 836 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 835 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 834 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min IE=max ITERations=1;echo
"done";
#echo "there are 833 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 832 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3
```

```
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 828 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 827 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 823 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 822 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 814 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min IE=max ITERations=1;echo
"done";
echo "there are 813 more memories to test.";echo "tr 52
```

```
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 811 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 810 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 809 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 808 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 807 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 806 more memories to test.";echo "tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 805 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_BST_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 804 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 803 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 802 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 801 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 800 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 799 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 798 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 797 more memories to test.";echo "tr 52 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 796 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 790 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 787 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 785 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 784 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 783 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 782 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 781 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 780 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min
```

```
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 779 more memories to test.";echo "tr 52 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 778 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT IS=min IE=max ITERations=1;echo "done";
#echo "there are 777 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 775 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 774 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 773 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 772 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 771 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 770 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 769 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 768 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 767 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 766 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 765 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 764 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 763 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max
```

```
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max ITERations=1;echo "done";
#echo "there are 762 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 761 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 760 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 759 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 758 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 757 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 755 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 754 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 753 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 752 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 751 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 750 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 749 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 748 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max ITERations=1;echo "done";
#echo "there are 747 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 745 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 744 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 743 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 742 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 740 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 739 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 738 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 737 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 736 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 735 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 734 more memories to test.";echo "tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 733 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 729 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 726 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 724 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 723 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 722 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 716 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 715 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 712 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 711 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 707 more memories to test.";echo "tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 706 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max ITERations=1;echo "done";
#echo "there are 705 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 703 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 702 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 701 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 700 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 699 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 698 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 697 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 696 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 695 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 694 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 693 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 692 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 691 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max ITERations=1;echo "done";
#echo "there are 690 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 688 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 687 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 686 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 685 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 683 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 682 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 681 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 680 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 679 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 678 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 677 more memories to test.";echo "tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 676 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 675 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 673 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 672 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 671 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 670 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 669 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 668 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 667 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 666 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 665 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max ITERations=1;echo "done";
echo "there are 664 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 663 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 662 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 661 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min
```

```
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 660 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 659 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 658 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 657 more memories to test.";echo "tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 656 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT IS=min IE=max ITERations=1;echo "done";
#echo "there are 655 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 654 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 653 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 652 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 651 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 650 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT1 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 649 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 648 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 647 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 646 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 645 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT2 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 644 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 643 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 642 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 641 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 640 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 639 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 638 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 637 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 636 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 631 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 629 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 628 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
```

```
#echo "there are 627 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 624 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 623 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 52 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS IS=min IE=max ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE IS=min IE=max ITERations=1;echo
"done";
#echo "there are 616 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 615 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 614 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 613 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 612 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 611 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
#echo "there are 610 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 607 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 606 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 605 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 604 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 603 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 602 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 601 more memories to test.";echo "tr 52 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 600 more memories to test.";echo "tr 52 M=MMU_UCQDB_X IS=min IE=max ITERations=1";tr
52 M=MMU_UCQDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 599 more memories to test.";echo "tr 52 M=MMU_UCQDB_X_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 598 more memories to test.";echo "tr 52 M=MMU_UCQDB_X_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 597 more memories to test.";echo "tr 52 M=MMU_UCQDB_X_XPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 52 M=MMU_UCQDB_X_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 595 more memories to test.";echo "tr 52 M=MMU_UCQDB_Y IS=min IE=max ITERations=1";tr
52 M=MMU_UCQDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 52 M=MMU_UCQDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 52 M=MMU_UCQDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 52 M=MMU_UCQDB_Y_XPE2 IS=min IE=max
```

```
ITERations=1";tr 52 M=MMU_UCQDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 52 M=MMU_UCQDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_UCQDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 590 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE IS=min IE=max ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 588 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 587 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 586 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 585 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 584 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 583 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 582 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 581 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 579 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 578 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 577 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 576 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 575 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 574 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 573 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 572 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 571 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 568 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 565 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 563 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 562 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 561 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 560 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 559 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_A IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 558 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 557 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 556 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 555 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min IE=max ITERations=1;echo
"done";
echo "there are 553 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_6_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 550 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_7_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min IE=max ITERations=1;echo
"done";
echo "there are 547 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8_A
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8_B
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_8_B IS=min IE=max
ITERations=1;echo "done";
#echo "there are 545 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD IS=min IE=max ITERations=1;echo
"done";
#echo "there are 544 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_MARK
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_MARK IS=min IE=max
ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
```

```
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 540 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 537 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 536 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 527 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 520 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 518 more memories to test.";echo "tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 517 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 515 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 514 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
```

```
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 509 more memories to test.";echo "tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min
IE=max ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 508 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 500 more memories to test.";echo "tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK IS=min IE=max
ITERations=1;echo "done";
echo "there are 499 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
```

```
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 491 more memories to test.";echo "tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 490 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max ITERations=1;echo
"done";
echo "there are 489 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min
IE=max ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min
IE=max ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min
IE=max ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min
IE=max ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min
IE=max ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min
IE=max ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min
IE=max ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min
```

```
IE=max ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 475 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 473 more memories to test.";echo "tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 472 more memories to test.";echo "tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min
IE=max ITERations=1";tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 471 more memories to test.";echo "tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min
IE=max ITERations=1";tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 470 more memories to test.";echo "tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min
IE=max ITERations=1";tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 469 more memories to test.";echo "tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min
IE=max ITERations=1";tr 52 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 52 M=MODPORT_MAP_M0 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 52 M=MODPORT_MAP_M1 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M1 IS=min IE=max ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 52 M=MODPORT_MAP_M2 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 52 M=MODPORT_MAP_M3 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M3 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 464 more memories to test.";echo "tr 52 M=MODPORT_MAP_MIRROR IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_MIRROR IS=min IE=max ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 52 M=MODPORT_MAP_SW IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SW IS=min IE=max ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 52 M=MPLS_ENTRY IS=min IE=max ITERations=1";tr 52
M=MPLS_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 52 M=MPLS_ENTRY_ECC IS=min IE=max
ITERations=1";tr 52 M=MPLS_ENTRY_ECC IS=min IE=max ITERations=1;echo "done";
#echo "there are 460 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min
IE=max ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 459 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 458 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 457 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 456 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 52 M=MY_STATION_TCAM IS=min IE=max
ITERations=1";tr 52 M=MY_STATION_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 454 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 453 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 452 more memories to test.";echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ITERations=1";tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 451 more memories to test.";echo "tr 52 M=PHB2_COS_MAP IS=min IE=max ITERations=1";tr 52
M=PHB2_COS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 450 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR0 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 449 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 448 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 447 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 446 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 445 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR1 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 444 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 443 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 442 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 441 more memories to test.";echo "tr 52 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 440 more memories to test.";echo "tr 52 M=PORT_BRIDGE_BMAP IS=min IE=max
ITERations=1";tr 52 M=PORT_BRIDGE_BMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 439 more memories to test.";echo "tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max
ITERations=1";tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE IS=min IE=max ITERations=1";tr
52 M=PORT_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=max
ITERations=1";tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=max
ITERations=1";tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 52 M=PORT_TAB IS=min IE=max ITERations=1";tr 52
M=PORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max
ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 432 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 431 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 430 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 429 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max
ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 427 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 426 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 425 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
#echo "there are 424 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_IVP IS=min IE=max
ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_IVP IS=min IE=max ITERations=1;echo "done";
#echo "there are 423 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 422 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 421 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 420 more memories to test.";echo "tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 419 more memories to test.";echo "tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 418 more memories to test.";echo "tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 414 more memories to test.";echo "tr 52 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max
ITERations=1";tr 52 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 412 more memories to test.";echo "tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 411 more memories to test.";echo "tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 410 more memories to test.";echo "tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 409 more memories to test.";echo "tr 52 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max
ITERations=1";tr 52 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 407 more memories to test.";echo "tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 406 more memories to test.";echo "tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 405 more memories to test.";echo "tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 404 more memories to test.";echo "tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 403 more memories to test.";echo "tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 399 more memories to test.";echo "tr 52 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max
ITERations=1";tr 52 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 397 more memories to test.";echo "tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 396 more memories to test.";echo "tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 395 more memories to test.";echo "tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 394 more memories to test.";echo "tr 52 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max
ITERations=1";tr 52 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 392 more memories to test.";echo "tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 391 more memories to test.";echo "tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 390 more memories to test.";echo "tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 389 more memories to test.";echo "tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 388 more memories to test.";echo "tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 384 more memories to test.";echo "tr 52 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max
ITERations=1";tr 52 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 382 more memories to test.";echo "tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 381 more memories to test.";echo "tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 380 more memories to test.";echo "tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 379 more memories to test.";echo "tr 52 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min
IE=max ITERations=1";tr 52 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo
"done";
#echo "there are 378 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 373 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 372 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 370 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 52 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max
ITERations=1";tr 52 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max ITERations=1;echo "done";
#echo "there are 367 more memories to test.";echo "tr 52 M=RQE_FREE_LIST IS=min IE=max ITERations=1";tr
52 M=RQE_FREE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 52 M=RQE_FREE_LIST_XPE0 IS=min IE=max
ITERations=1";tr 52 M=RQE_FREE_LIST_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 52 M=RQE_FREE_LIST_XPE1 IS=min IE=max
ITERations=1";tr 52 M=RQE_FREE_LIST_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 52 M=RQE_FREE_LIST_XPE2 IS=min IE=max
ITERations=1";tr 52 M=RQE_FREE_LIST_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 52 M=RQE_FREE_LIST_XPE3 IS=min IE=max
ITERations=1";tr 52 M=RQE_FREE_LIST_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 362 more memories to test.";echo "tr 52 M=RQE_LINK_LIST IS=min IE=max ITERations=1";tr
52 M=RQE_LINK_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 361 more memories to test.";echo "tr 52 M=RQE_LINK_LIST_XPE0 IS=min IE=max
ITERations=1";tr 52 M=RQE_LINK_LIST_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 52 M=RQE_LINK_LIST_XPE1 IS=min IE=max
ITERations=1";tr 52 M=RQE_LINK_LIST_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 52 M=RQE_LINK_LIST_XPE2 IS=min IE=max
ITERations=1";tr 52 M=RQE_LINK_LIST_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 52 M=RQE_LINK_LIST_XPE3 IS=min IE=max
ITERations=1";tr 52 M=RQE_LINK_LIST_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 357 more memories to test.";echo "tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=max
ITERations=1";tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=max
ITERations=1";tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 52 M=SER_ACC_TYPE_MAP IS=min IE=max
ITERations=1";tr 52 M=SER_ACC_TYPE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 52 M=SER_MEMORY IS=min IE=max ITERations=1";tr 52
M=SER_MEMORY IS=min IE=max ITERations=1;echo "done";
#echo "there are 351 more memories to test.";echo "tr 52 M=SER_RESULT_0 IS=min IE=max ITERations=1";tr
52 M=SER_RESULT_0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 350 more memories to test.";echo "tr 52 M=SER_RESULT_1 IS=min IE=max ITERations=1";tr
52 M=SER_RESULT_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 349 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_0 IS=min IE=max
ITERations=1";tr 52 M=SER_RESULT_DATA_0 IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 348 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_1 IS=min IE=max
ITERations=1";tr 52 M=SER_RESULT_DATA_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 347 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=max
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 346 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=max
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 52 M=SFLOW_ING_DATA_SOURCE IS=min IE=max
ITERations=1";tr 52 M=SFLOW_ING_DATA_SOURCE IS=min IE=max ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 52 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min
IE=max ITERations=1";tr 52 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min IE=max ITERations=1;echo
"done";
echo "there are 343 more memories to test.";echo "tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 52 M=SOURCE_VP IS=min IE=max ITERations=1";tr 52
M=SOURCE_VP IS=min IE=max ITERations=1;echo "done";
echo "there are 339 more memories to test.";echo "tr 52 M=SOURCE_VP_2 IS=min IE=max ITERations=1";tr 52
M=SOURCE_VP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 52 M=SRC_COMPRESSION IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION IS=min IE=max ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max
ITERations=1";tr 52 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min
```

```
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 52 M=SRC_MODID_EGRESS IS=min IE=max
ITERations=1";tr 52 M=SRC_MODID_EGRESS IS=min IE=max ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max
ITERations=1";tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 52 M=STATS_INTF_QUEUE_LIST IS=min IE=max
ITERations=1";tr 52 M=STATS_INTF_QUEUE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 52 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max
ITERations=1";tr 52 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=max
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 318 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 317 more memories to test.";echo "tr 52 M=SYS_PORTMAP IS=min IE=max ITERations=1";tr 52
M=SYS_PORTMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 316 more memories to test.";echo "tr 52 M=TCB_BUFFER_METADATA IS=min IE=max
ITERations=1";tr 52 M=TCB_BUFFER_METADATA IS=min IE=max ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 52 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max
ITERations=1";tr 52 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 52 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max
ITERations=1";tr 52 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 52 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max
ITERations=1";tr 52 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 52 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max
ITERations=1";tr 52 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 311 more memories to test.";echo "tr 52 M=TCB_EVENT_BUFFER IS=min IE=max
ITERations=1";tr 52 M=TCB_EVENT_BUFFER IS=min IE=max ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 52 M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max
ITERations=1";tr 52 M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 52 M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max
ITERations=1";tr 52 M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 52 M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max
ITERations=1";tr 52 M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 52 M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max
ITERations=1";tr 52 M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 306 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER IS=min IE=max
ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 305 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 304 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 303 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 302 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 301 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 300 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 299 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 298 more memories to test.";echo "tr 52 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 297 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 296 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 295 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 291 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 290 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 289 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3
IS=min IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 285 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 284 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 283 more memories to test.";echo "tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min
IE=max ITERations=1";tr 52 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 282 more memories to test.";echo "tr 52 M=TCP_FN IS=min IE=max ITERations=1";tr 52
M=TCP_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 281 more memories to test.";echo "tr 52 M=TCP_FN_PIPE0 IS=min IE=max ITERations=1";tr 52
M=TCP_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 280 more memories to test.";echo "tr 52 M=TCP_FN_PIPE1 IS=min IE=max ITERations=1";tr 52
M=TCP_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 52 M=TCP_FN_PIPE2 IS=min IE=max ITERations=1";tr 52
M=TCP_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 278 more memories to test.";echo "tr 52 M=TCP_FN_PIPE3 IS=min IE=max ITERations=1";tr 52
M=TCP_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 277 more memories to test.";echo "tr 52 M=TDM_CALENDAR0 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 52 M=TDM_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 275 more memories to test.";echo "tr 52 M=TDM_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 52 M=TDM_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 52 M=TDM_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 272 more memories to test.";echo "tr 52 M=TDM_CALENDAR1 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 52 M=TDM_CALENDAR1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 52 M=TDM_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 269 more memories to test.";echo "tr 52 M=TDM_CALENDAR1_PIPE2 IS=min IE=max
```

```
ITERations=1";tr 52 M=TDM_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 268 more memories to test.";echo "tr 52 M=TDM_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=TDM_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 267 more memories to test.";echo "tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min
IE=max ITERations=1";tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min IE=max ITERations=1;echo
"done";
#echo "there are 266 more memories to test.";echo "tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0
IS=min IE=max ITERations=1";tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 265 more memories to test.";echo "tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1
IS=min IE=max ITERations=1";tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 264 more memories to test.";echo "tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2
IS=min IE=max ITERations=1";tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 263 more memories to test.";echo "tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3
IS=min IE=max ITERations=1";tr 52 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 262 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 259 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 258 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 257 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 256 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 253 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 251 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min
```

```
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 248 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 247 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 246 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 244 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 242 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 235 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max ITERations=1;echo "done";
echo "there are 234 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 232 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 226 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max ITERations=1;echo "done";
echo "there are 225 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 224 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 223 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 221 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 220 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 219 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 217 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 216 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 215 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 214 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 212 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 203 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT IS=min IE=max ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 201 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 200 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 199 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 198 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 197 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 196 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 195 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min
```

```
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 194 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH IS=min IE=max ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 192 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 191 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 190 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 189 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 188 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 187 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 186 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 185 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG IS=min IE=max ITERations=1;echo "done";
#echo "there are 184 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0 IS=min IE=max ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 179 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1 IS=min IE=max ITERations=1;echo "done";
echo "there are 178 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 175 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 174 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2 IS=min IE=max ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 171 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 52 M=TOS_FN IS=min IE=max ITERations=1";tr 52
M=TOS_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 164 more memories to test.";echo "tr 52 M=TOS_FN_PIPE0 IS=min IE=max ITERations=1";tr 52
M=TOS_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 52 M=TOS_FN_PIPE1 IS=min IE=max ITERations=1";tr 52
M=TOS_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 52 M=TOS_FN_PIPE2 IS=min IE=max ITERations=1";tr 52
M=TOS_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 52 M=TOS_FN_PIPE3 IS=min IE=max ITERations=1";tr 52
M=TOS_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 160 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS IS=min IE=max
ITERations=1";tr 52 M=TRILL_DROP_STATS IS=min IE=max ITERations=1;echo "done";
#echo "there are 159 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=TRILL_DROP_STATS_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=TRILL_DROP_STATS_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 157 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=TRILL_DROP_STATS_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 156 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=TRILL_DROP_STATS_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 52 M=TRUNK_BITMAP IS=min IE=max ITERations=1";tr
52 M=TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 52 M=TRUNK_CBL_TABLE IS=min IE=max
ITERations=1";tr 52 M=TRUNK_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 52 M=TRUNK_GROUP IS=min IE=max ITERations=1";tr 52
M=TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 52 M=TRUNK_RR_CNT IS=min IE=max ITERations=1";tr
52 M=TRUNK_RR_CNT IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 151 more memories to test.";echo "tr 52 M=TRUNK_RR_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=TRUNK_RR_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 150 more memories to test.";echo "tr 52 M=TRUNK_RR_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=TRUNK_RR_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 52 M=TRUNK_RR_CNT_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=TRUNK_RR_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 52 M=TRUNK_RR_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=TRUNK_RR_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 52 M=TRUNK_MEMBER IS=min IE=max ITERations=1";tr
52 M=TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 52 M=TTL_FN IS=min IE=max ITERations=1";tr 52
M=TTL_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 52 M=TTL_FN_PIPE0 IS=min IE=max ITERations=1";tr 52
M=TTL_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 52 M=TTL_FN_PIPE1 IS=min IE=max ITERations=1";tr 52
M=TTL_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 52 M=TTL_FN_PIPE2 IS=min IE=max ITERations=1";tr 52
M=TTL_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 52 M=TTL_FN_PIPE3 IS=min IE=max ITERations=1";tr 52
M=TTL_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 141 more memories to test.";echo "tr 52 M=TX_INITIAL_PROT_GROUP_TABLE IS=min
IE=max ITERations=1";tr 52 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 140 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM
IS=min IE=max ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 139 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM
IS=min IE=max ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 138 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1
IS=min IE=max ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 137 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET IS=min IE=max ITERations=1";tr
52 M=FP_UDF_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 136 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_OFFSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 135 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_OFFSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_OFFSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_OFFSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 52 M=FP_UDF_TCAM IS=min IE=max ITERations=1";tr 52
M=FP_UDF_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 52 M=FP_UDF_TCAM_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 52 M=FP_UDF_TCAM_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 129 more memories to test.";echo "tr 52 M=FP_UDF_TCAM_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 52 M=FP_UDF_TCAM_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=FP_UDF_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=max
ITERations=1";tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min
IE=max ITERations=1";tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 125 more memories to test.";echo "tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min
IE=max ITERations=1";tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 124 more memories to test.";echo "tr 52 M=VFI IS=min IE=max ITERations=1";tr 52 M=VFI
IS=min IE=max ITERations=1;echo "done";
echo "there are 123 more memories to test.";echo "tr 52 M=VFI_1 IS=min IE=max ITERations=1";tr 52 M=VFI_1
IS=min IE=max ITERations=1;echo "done";
echo "there are 122 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 121 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 120 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 118 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 52 M=VFP_TCAM IS=min IE=max ITERations=1";tr 52
M=VFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 52 M=VFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
52 M=VFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 52 M=VFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
52 M=VFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 112 more memories to test.";echo "tr 52 M=VFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
52 M=VFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 52 M=VFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
52 M=VFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 52 M=VLAN_TAB IS=min IE=max ITERations=1";tr 52
M=VLAN_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 52 M=VLAN_2_TAB IS=min IE=max ITERations=1";tr 52
M=VLAN_2_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 52 M=VLAN_MAC IS=min IE=max ITERations=1";tr 52
M=VLAN_MAC IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 107 more memories to test.";echo "tr 52 M=VLAN_MPLS IS=min IE=max ITERations=1";tr 52
M=VLAN_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 52 M=VLAN_PROFILE_TAB IS=min IE=max
ITERations=1";tr 52 M=VLAN_PROFILE_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 52 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1";tr
52 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL IS=min IE=max ITERations=1";tr
52 M=VLAN_PROTOCOL IS=min IE=max ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max
ITERations=1";tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 52 M=STG_TAB IS=min IE=max ITERations=1";tr 52
M=STG_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 52 M=VLAN_SUBNET IS=min IE=max ITERations=1";tr 52
M=VLAN_SUBNET IS=min IE=max ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max
ITERations=1";tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 52 M=VLAN_XLATE IS=min IE=max ITERations=1";tr 52
M=VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 52 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1";tr
52 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 52 M=VLAN_XLATE_LP IS=min IE=max ITERations=1";tr
52 M=VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 52 M=VRF IS=min IE=max ITERations=1";tr 52 M=VRF
IS=min IE=max ITERations=1;echo "done";
#echo "there are 94 more memories to test.";echo "tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 93 more memories to test.';echo 'tr 52 M=EDB_1DBG_B IS=min IE=4 ITERations=1';tr 52
M=EDB_1DBG_B IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 92 more memories to test.';echo 'tr 52 M=LINK_STATUS IS=min IE=4 ITERations=1';tr 52
M=LINK_STATUS IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 91 more memories to test.';echo 'tr 52 M=DLB_ECMP_PORT_STATE IS=min IE=4
ITERations=1';tr 52 M=DLB_ECMP_PORT_STATE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 90 more memories to test.';echo 'tr 52 M=DLB_HGT_LAG_PORT_STATE IS=min IE=4
ITERations=1';tr 52 M=DLB_HGT_LAG_PORT_STATE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 89 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 88 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 87 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 86 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 85 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0
```

```
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 84 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 83 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 82 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3 IS=min IE=4
ITERations=1;echo 'done';
#---------------------------- VENDOR memories-----------------------------------------------------------------
#echo 'there are 81 more memories to test.';echo 'tr 52 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 80 more memories to test.';echo 'tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 79 more memories to test.';echo 'tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 78 more memories to test.';echo 'tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 77 more memories to test.';echo 'tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 76 more memories to test.';echo 'tr 52 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 75 more memories to test.';echo 'tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 74 more memories to test.';echo 'tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 73 more memories to test.';echo 'tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 72 more memories to test.';echo 'tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 71 more memories to test.';echo 'tr 52 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 70 more memories to test.';echo 'tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 69 more memories to test.';echo 'tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 68 more memories to test.';echo 'tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 67 more memories to test.';echo 'tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 66 more memories to test.';echo 'tr 52 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 65 more memories to test.';echo 'tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 64 more memories to test.';echo 'tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 63 more memories to test.';echo 'tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 62 more memories to test.';echo 'tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 61 more memories to test.';echo 'tr 52 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 60 more memories to test.';echo 'tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 59 more memories to test.';echo 'tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 58 more memories to test.';echo 'tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 57 more memories to test.';echo 'tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 56 more memories to test.';echo 'tr 52 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 55 more memories to test.';echo 'tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 54 more memories to test.';echo 'tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 53 more memories to test.';echo 'tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 52 more memories to test.';echo 'tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 51 more memories to test.';echo 'tr 52 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 50 more memories to test.';echo 'tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 49 more memories to test.';echo 'tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 48 more memories to test.';echo 'tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 47 more memories to test.';echo 'tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 46 more memories to test.';echo 'tr 52 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 45 more memories to test.';echo 'tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 44 more memories to test.';echo 'tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 52 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 39 more memories to test.';echo 'tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 37 more memories to test.';echo 'tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 52 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 52 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 28 more memories to test.';echo 'tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 52 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 21 more memories to test.';echo 'tr 52 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 52 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 52
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1';tr 52
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min
IE=4 ITERations=1';tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min IE=4 ITERations=1;echo
'done';
```

```
#echo 'there are 5 more memories to test.';echo 'tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=4 ITERations=1';tr 52 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=4
ITERations=1;echo 'done';
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr52_bcm56970_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchValidEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchValidEntry.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: atmf.soc,v 1.90 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

set RCError=off
debug appl shell warn
rcload ./bcm88202_dram_tune.soc
debug appl shell =
set RCError=on


debug info
debug appl rcload warn
debug appl symtab warn
debug bcm rx,tx,link,attach warn
debug soc tests warn
```

```
debug soc rx,phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,ddr warn
debug soc common err
debug sys verinet warn
debug soc init verb

set RCError=off
rcload combo28_dram.soc
set RCError=on

# Set modid:
# If diag_chassis is enabled (two line cards), and 'slot' is defined (slot is defined only when
# working without a management card - set modid to be 'slot'
# Otherwise (single line card, or management card), set modid to be 0 for unit 0, and 1 for unit != 0
# If module_id is set, then set modid to have module_id value
if $?diag_chassis && $?slot "\
 local modid $slot" \
else "\
 local modid $unit"
expr $modid >= 1; local modid $?

if $?module_id " \
 local modid $module_id"

echo "$unit: modid=$modid"

# Set base_modid:
# Id base_module_id is set, then set base_modid to have base_module_id value.
# Otherwise, set base_modid to be 0.
if $?base_module_id " \
 local base_modid $base_module_id" \
else " \
 local base_modid 0"

expr $base_modid > 0
if $? " \
 echo '$unit: base_modid=$base_modid'"

# Set nof_devices:
# If diag_chassis is enabled (mgmt card) - set nof_devices to be 2.
# Otherwise, set nof_devices to be 1.
# If n_devices is set, then set nof_devices to have n_devices value.
if $?diag_chassis " \
 local nof_devices 2" \
else "\
 local nof_devices 1"

if $?n_devices " \
 local nof_devices $n_devices"
```

```
expr $nof_devices > 1
if $? " \
 echo '$unit: nof_devices=$nof_devices'"

if $?mng_cpu " \
 echo '$unit:management card - polling is set on'; \
 config add polled_irq_mode.BCM88650=1; \
 config add schan_intr_enable.BCM88650=0; \
 config add tdma_intr_enable.BCM88650=0; \
 config add tslam_intr_enable.BCM88650=0; \
 config add miim_intr_enable.BCM88650=0; \
 config add polled_irq_mode.BCM88750=1; \
 config add schan_intr_enable.BCM88750=0; \
 config add tdma_intr_enable.BCM88750=0; \
 config add tslam_intr_enable.BCM88750=0; \
 config add miim_intr_enable.BCM88750=0; "

#default values in a case which these parameters are not exist
if !$?diag_cosq_disable "\
 local diag_cosq_disable 0"
if !$?warmboot "\
 local warmboot 0"
if !$?diag_disable "\
 local diag_disable 0"
if !$?diag_no_appl_stk "\
 local diag_no_appl_stk 0"
if !$?diag_no_itmh_prog_mode "\
 local diag_no_itmh_prog_mode 0"
if !$?l2_mode "\
 local l2_mode 0"

INIT_DNX ModID=$modid BaseModID=$base_modid NofDevices=$nof_devices
CosqDisable=$diag_cosq_disable NoAppl=$diag_disable Warmboot=$warmboot NoApplStk=$diag_no_appl_stk
NoItmhProgMode=$diag_no_itmh_prog_mode L2Mode=$l2_mode

debug bcm rx verb

echo "atmf.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/atmf.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_fpga.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/utils_fpga.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/utils_fpga.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fe600_bsp.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fe600_bsp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: zm73xx.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*             [BSC] - Broadcom Serical Control (I2C constroller)
*               |
*      ==========O=======o================ I2C bus
*                    |
*                [pca9548 - 8-port mux]
*                 |||||||
*          [eeprom]  - |||||||
*           [max6653]  - ||||||
*            [max6653]   - |||
*              [max6653]   - ||
*                [max6653]   -   - [zm73xx]
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/zm73xx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipv4_fap.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_ipv4_fap.c
* Purpose: Example of how to deliver IP traffic from one source to multiple receivers.
*
* CINT assumes diag_init has been executed
*
* for one device call bcm_l3_main(int unit, int second_unit, int dst_port) with second_unit<0
* Example: bcm_l3_main(unit,-1, 1);
*
* for two devices when one device configures the second device call bcm_l3_main(unit, 1, 1)
* make sure that master device is unit 0 with modid 0 and slave device is unit 1 with modid 1
*
* traffic example for two devices:
*
* the cint generates 4 routes and hosts listed below
*   device 0:
*   ---------
*     port: 1          host   6737170e : 103.55.23.14
*     port: 1          route  78400000 : 120.64.0.0        mask  ffc00000 : 255.192.0.0
*     port: 2          host   6837170f : 104.55.23.15
*     port: 2          route  88400000 : 136.64.0.0        mask  ffe00000 : 255.224.0.0
*
*   device 1:
*   ---------
*     port: 100        host   6537170c : 101.55.23.12
*     port: 100        route  70000000 : 112.0.0.0         mask  ff000000 : 255.0.0.0
*     port: 101        host   6637170d : 102.55.23.13
*     port: 101        route  64000000 : 100.0.0.0         mask  ff800000 : 255.128.0.0
*
* L3 one simple path application:
* Sets up interfaces and route to match packets send from the CPU
*
* Example:
* bcm_l3_test(unit);
* pkt_test1();
*
* L3 application:
* Sample usage and random routes. User responsible to set traffic according to settings.
* This can be done by changing pkt test script or by using traffic generator with the
* matching packet header.
*
* Example:
```

```
*      BCM> cint cint_qos_l3.c
*      BCM> cint cint_ipv4_fap.c
*      BCM> cint
*      cint> bcm_l3_main(unit, second_unit, dst_port);
*
* Note: You can also use the individual functions that are included in the example file.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipv4_fap.c
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvramstubs.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/nvramstubs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/phy5464.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.114 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* General Switch Control
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ucodemgr.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    ucodemgr.c
* Purpose: Ucode image download manager
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ucodemgr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmIngressPortEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmIngressPortEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_e2e_dual_shaper.c
* Purpose: Example of Dual Shaper Validation
*
* Environment
*    - Default Egress queue mapping in play.
*    - Default Egress Port Scheduler hierarchy in play.
*    - Default Ingress Scheduling Discipline (delay tolerance), queues sizes
*    - Packet Size 1500 - size should be aligned with credit source settings
*
* - Port Scheduler (HR)
*   -> setup HR scheduling mode (via *_REPLACE flag)
*   -> setup flow control mapping
*   - 2 FQ schedulers
*       -> hookup 1st FQ scheduler to SP0 of HR and 2nd FQ scheduler to SP1 of HR
```

```
*   - Dual Shaper scheduling element, CIR (CL - SP mode) and PIR (FQ) scheduling elements
*       -> Hookup CIR (CL) scheduler to 1st FQ scheduler and PIR (FQ) scheduler to 2nd FQ Scheduler
*       -> CIR (CL) scheduler rate set to 500 Mbps
*       -> PIR (FQ) scheduler rate set to 100 Mbps
*   - 1 Queue Group / Connector Group (4 elements in bundle)
*       -> 1st Connector element hooked up to CIR (CL) scheduler
*       -> 2nd Connector element hooked up to PIR (FQ) scheduler. Slow configuration enabled.
*
* - Input
*   - Queue - Cos 0
*     Input 100 Mbps
*   - Queue - Cos 1
*     Input 400 Mbps
*
* - Expected Output
*   - Queue - Cos 0
*     Expected Output 100 Mbps
*     Observed 100 Mbps
*   - Queue - Cos 1
*     Expected Output 400 Mbps
*     Observed 400 Mbps
*
*  ~~~
```

```
* |                  |                |                  |
* |                 \/               \/                  |
* | +-------------------------------------------------------------+         |
* | |           +-----------------         +------+         |        |
* | | Dual      / CL (4 SP levels) \        /   FQ   \         |        |
* | |          /                \      +----------+        |        |
* | | Shaper    / SP0   SP1  SP2   SP3 \          |           |        |
* | |        +------------------------+         |           |        |
* | +-------------------------------------------------------------+         |
* |                  |                |                  |
* |                  |                |                  |
* |                 SPR               SPR                 |
* |               (500 Mbps)          (500 Mbps)                |
* |                  |                |                  |
* |                  |                |                  |
* |                 \/               \/                  |
* |              |   |            |   |                |
* |              |   |            |   |                |
* |              |   |            |   |                |
* |              |   |            |   |                |
* |              |   |            |   |                |
* |              +-----+            +-----+   +----------------+ |
* |              Input:100 Mbps       Input:400 Mbps |     KEY      | |
* |                                      +----------------+ |
* |                                      |SPR- Rate Shaper| |
* |                                      |            | |
* |                                      +----------------+ |
* |              +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                    |
* |              |  Figure 9: Dual Shaper  |                    |
*  ~~~~~~~~~~~~~~~~~~~
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type27.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbox.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Shared Memory Mailbox infrastruction - mbox communications & debug logging
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/mbox.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56965_a0.c
* Purpose:     bcm56965_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56965_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_pon_vmac.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_vmac.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaSrManualDeskewEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaSrManualDeskewEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io_mmi.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/io_mmi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag tx (transmit) and rx (receive) commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/txrx.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod16.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
```

```
*-----------------------------------------------------------------------
*  Description: define enumerators
*-----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkInit.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:     Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkInit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ilkn_drv.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC ILKN DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/ilkn_drv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_line_gfa.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_line_gfa.h
No license file was found, but licenses were detected in source scan.

```
# $Id:
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Dram dq swaps for BCM88270

#Dram HW properties

#RX polarity
config add phy_rx_polarity_flip.BCM88270=0

config add phy_rx_polarity_flip_phy1.BCM88270=0
config add phy_rx_polarity_flip_phy2.BCM88270=1
config add phy_rx_polarity_flip_phy3.BCM88270=1
config add phy_rx_polarity_flip_phy4.BCM88270=0

config add phy_rx_polarity_flip_phy5.BCM88270=1
config add phy_rx_polarity_flip_phy6.BCM88270=0
config add phy_rx_polarity_flip_phy7.BCM88270=0
config add phy_rx_polarity_flip_phy8.BCM88270=1



config add phy_rx_polarity_flip_phy9.BCM88270=0
config add phy_rx_polarity_flip_phy10.BCM88270=1
config add phy_rx_polarity_flip_phy11.BCM88270=1
config add phy_rx_polarity_flip_phy12.BCM88270=1

config add phy_rx_polarity_flip_phy13.BCM88270=0
config add phy_rx_polarity_flip_phy14.BCM88270=0
config add phy_rx_polarity_flip_phy15.BCM88270=0
config add phy_rx_polarity_flip_phy16.BCM88270=0

config add phy_rx_polarity_flip_phy17.BCM88270=1
config add phy_rx_polarity_flip_phy18.BCM88270=0
config add phy_rx_polarity_flip_phy19.BCM88270=0
config add phy_rx_polarity_flip_phy20.BCM88270=0

config add phy_rx_polarity_flip_phy21.BCM88270=0
config add phy_rx_polarity_flip_phy22.BCM88270=1
config add phy_rx_polarity_flip_phy23.BCM88270=1
config add phy_rx_polarity_flip_phy24.BCM88270=1
```

```
config add phy_rx_polarity_flip_phy25.BCM88270=1
config add phy_rx_polarity_flip_phy26.BCM88270=0
config add phy_rx_polarity_flip_phy27.BCM88270=0
config add phy_rx_polarity_flip_phy28.BCM88270=0

config add phy_rx_polarity_flip_phy29.BCM88270=0
config add phy_rx_polarity_flip_phy30.BCM88270=0
config add phy_rx_polarity_flip_phy31.BCM88270=0
config add phy_rx_polarity_flip_phy32.BCM88270=1

config add phy_rx_polarity_flip_phy33.BCM88270=0
config add phy_rx_polarity_flip_phy34.BCM88270=0
config add phy_rx_polarity_flip_phy35.BCM88270=1
config add phy_rx_polarity_flip_phy36.BCM88270=0

#TX polarity
config add phy_tx_polarity_flip.BCM88270=0

config add phy_tx_polarity_flip_phy1.BCM88270=0
config add phy_tx_polarity_flip_phy2.BCM88270=1
config add phy_tx_polarity_flip_phy3.BCM88270=1
config add phy_tx_polarity_flip_phy4.BCM88270=0

config add phy_tx_polarity_flip_phy5.BCM88270=0
config add phy_tx_polarity_flip_phy6.BCM88270=0
config add phy_tx_polarity_flip_phy7.BCM88270=0
config add phy_tx_polarity_flip_phy8.BCM88270=0


config add phy_tx_polarity_flip_phy9.BCM88270=1
config add phy_tx_polarity_flip_phy10.BCM88270=0
config add phy_tx_polarity_flip_phy11.BCM88270=1
config add phy_tx_polarity_flip_phy12.BCM88270=1

config add phy_tx_polarity_flip_phy13.BCM88270=1
config add phy_tx_polarity_flip_phy14.BCM88270=1
config add phy_tx_polarity_flip_phy15.BCM88270=0
config add phy_tx_polarity_flip_phy16.BCM88270=1

config add phy_tx_polarity_flip_phy17.BCM88270=0
config add phy_tx_polarity_flip_phy18.BCM88270=0
config add phy_tx_polarity_flip_phy19.BCM88270=0
config add phy_tx_polarity_flip_phy20.BCM88270=1

config add phy_tx_polarity_flip_phy21.BCM88270=1
config add phy_tx_polarity_flip_phy22.BCM88270=1
config add phy_tx_polarity_flip_phy23.BCM88270=1
```

```
config add phy_tx_polarity_flip_phy24.BCM88270=1

config add phy_tx_polarity_flip_phy25.BCM88270=1
config add phy_tx_polarity_flip_phy26.BCM88270=1
config add phy_tx_polarity_flip_phy27.BCM88270=1
config add phy_tx_polarity_flip_phy28.BCM88270=1

config add phy_tx_polarity_flip_phy29.BCM88270=0
config add phy_tx_polarity_flip_phy30.BCM88270=1
config add phy_tx_polarity_flip_phy31.BCM88270=0
config add phy_tx_polarity_flip_phy32.BCM88270=0

config add phy_tx_polarity_flip_phy33.BCM88270=0
config add phy_tx_polarity_flip_phy34.BCM88270=0
config add phy_tx_polarity_flip_phy35.BCM88270=0
config add phy_tx_polarity_flip_phy36.BCM88270=0

#rx lane swap
config add phy_rx_lane_map.BCM88270=0x3210
config add phy_rx_lane_map_quad0.BCM88270=0x3210
config add phy_rx_lane_map_quad1.BCM88270=0x2103
config add phy_rx_lane_map_quad2.BCM88270=0x2031
config add phy_rx_lane_map_quad3.BCM88270=0x0213
config add phy_rx_lane_map_quad4.BCM88270=0x0231
config add phy_rx_lane_map_quad5.BCM88270=0x2031
config add phy_rx_lane_map_quad6.BCM88270=0x0132
config add phy_rx_lane_map_quad7.BCM88270=0x3210
config add phy_rx_lane_map_quad8.BCM88270=0x3210

#tx lane swap
config add phy_tx_lane_map.BCM88270=0x3210
config add phy_tx_lane_map_quad0.BCM88270=0x0312
config add phy_tx_lane_map_quad1.BCM88270=0x3120
config add phy_tx_lane_map_quad2.BCM88270=0x1302
config add phy_tx_lane_map_quad3.BCM88270=0x0213
config add phy_tx_lane_map_quad4.BCM88270=0x1203
config add phy_tx_lane_map_quad5.BCM88270=0x1302
config add phy_tx_lane_map_quad6.BCM88270=0x1023
config add phy_tx_lane_map_quad7.BCM88270=0x3210
config add phy_tx_lane_map_quad8.BCM88270=0x3210


# Dram dq swaps for BCM88270
#soc for interface = 0 byte = 0
config add ext_ram_dq_swap_dram0_byte0_bit0.BCM88270=5
config add ext_ram_dq_swap_dram0_byte0_bit1.BCM88270=3
config add ext_ram_dq_swap_dram0_byte0_bit2.BCM88270=1
config add ext_ram_dq_swap_dram0_byte0_bit3.BCM88270=7
```

```
config add ext_ram_dq_swap_dram0_byte0_bit4.BCM88270=0
config add ext_ram_dq_swap_dram0_byte0_bit5.BCM88270=4
config add ext_ram_dq_swap_dram0_byte0_bit6.BCM88270=2
config add ext_ram_dq_swap_dram0_byte0_bit7.BCM88270=6

# soc for interface = 0 byte = 1
config add ext_ram_dq_swap_dram0_byte1_bit0.BCM88270=7
config add ext_ram_dq_swap_dram0_byte1_bit1.BCM88270=1
config add ext_ram_dq_swap_dram0_byte1_bit2.BCM88270=5
config add ext_ram_dq_swap_dram0_byte1_bit3.BCM88270=3
config add ext_ram_dq_swap_dram0_byte1_bit4.BCM88270=6
config add ext_ram_dq_swap_dram0_byte1_bit5.BCM88270=2
config add ext_ram_dq_swap_dram0_byte1_bit6.BCM88270=4
config add ext_ram_dq_swap_dram0_byte1_bit7.BCM88270=0

# soc for interface = 0 byte = 2
config add ext_ram_dq_swap_dram0_byte2_bit0.BCM88270=1
config add ext_ram_dq_swap_dram0_byte2_bit1.BCM88270=5
config add ext_ram_dq_swap_dram0_byte2_bit2.BCM88270=3
config add ext_ram_dq_swap_dram0_byte2_bit3.BCM88270=4
config add ext_ram_dq_swap_dram0_byte2_bit4.BCM88270=0
config add ext_ram_dq_swap_dram0_byte2_bit5.BCM88270=7
config add ext_ram_dq_swap_dram0_byte2_bit6.BCM88270=2
config add ext_ram_dq_swap_dram0_byte2_bit7.BCM88270=6

# soc for interface = 0 byte = 3
config add ext_ram_dq_swap_dram0_byte3_bit0.BCM88270=3
config add ext_ram_dq_swap_dram0_byte3_bit1.BCM88270=5
config add ext_ram_dq_swap_dram0_byte3_bit2.BCM88270=7
config add ext_ram_dq_swap_dram0_byte3_bit3.BCM88270=1
config add ext_ram_dq_swap_dram0_byte3_bit4.BCM88270=6
config add ext_ram_dq_swap_dram0_byte3_bit5.BCM88270=2
config add ext_ram_dq_swap_dram0_byte3_bit6.BCM88270=0
config add ext_ram_dq_swap_dram0_byte3_bit7.BCM88270=4

# Dram bank addr swaps for BCM88270
config add ext_ram_addr_bank_swap_dram0_bit12.BCM88270=4
config add ext_ram_addr_bank_swap_dram0_bit5.BCM88270=5
config add ext_ram_addr_bank_swap_dram0_bit9.BCM88270=15
config add ext_ram_addr_bank_swap_dram0_bit15.BCM88270=17
config add ext_ram_addr_bank_swap_dram0_bit7.BCM88270=6
config add ext_ram_addr_bank_swap_dram0_bit13.BCM88270=7
config add ext_ram_addr_bank_swap_dram0_bit6.BCM88270=8
config add ext_ram_addr_bank_swap_dram0_bit14.BCM88270=9
config add ext_ram_addr_bank_swap_dram0_bit10.BCM88270=10
config add ext_ram_addr_bank_swap_dram0_bit11.BCM88270=11
config add ext_ram_addr_bank_swap_dram0_bit8.BCM88270=12
config add ext_ram_addr_bank_swap_dram0_bit4.BCM88270=13
```

```
config add ext_ram_addr_bank_swap_dram0_bit2.BCM88270=0
config add ext_ram_addr_bank_swap_dram0_bit0.BCM88270=1
config add ext_ram_addr_bank_swap_dram0_bit1.BCM88270=2
config add ext_ram_addr_bank_swap_dram0_bit17.BCM88270=14
config add ext_ram_addr_bank_swap_dram0_bit16.BCM88270=16

##Dram HW properties
config add ext_ram_present.BCM88270=1
config add dram_type_DDR4_MICRON_MT40A256M16GE_062_4GBIT=1
config add ext_ram_freq.BCM88270=1600
config add ext_ram_abi.BCM88270=0
config add ext_ram_write_dbi.BCM88270=0
config add ext_ram_read_dbi.BCM88270=0
config add ext_ram_write_crc.BCM88270=0
config add ext_ram_read_crc.BCM88270=0
config add ext_ram_cmd_par_latency.BCM88270=6
config add ext_ram_type.BCM88270=DDR4
config add ext_ram_total_size.BCM88270=1000
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88270_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmRateDeltaMaxTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmRateDeltaMaxTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_multicast_fabric.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_multicast_fabric.c
*
* MODULE PREFIX:  soc_jer2_tmcmult_fabric
*
* FILE DESCRIPTION: refer to H file
*
* REMARKS:
```

```
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lock.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains locking definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/lock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCfgCtrlEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceCfgCtrlEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu_h.stg,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_cmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macsec_cmn.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    macsec_cmn.c
* Purpose: MACSEC software module intergation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/macsec_cmn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c, 2014/01/14 yiwenz Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Tomahawk switch doesn't completely support the hardware based l2 aging
* mechanism. Although it provides the l2 aging function, it doesn't have
* a periodic timer to trigger the function.
* This file implements a timer thread to support the software triggered
* L2 aging. The thread periodically performs the aging function through
* the L2_BULK_CONTROL register at the user configured time interval.
* The aging action checkes the hit bit of each entry in the l2 table.
* If the hit bit is not set, the entry is deleted. If it is set, the
* hit bit is cleared and the entry remains. Only static entries are
* excluded from l2 aging.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc useful os-independent macros and functions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* $Id: bcmutils.h,v 1.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 WARM BOOT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_warm_boot.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_io.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_io.h
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common inline defs for reg spec for chip ca
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id: hal_ca_inline.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ca_inline.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_diagnostics.c 2014/04/04 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier2/furia_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: tdm.c,v 1.5.16.6 Broadcom SDK $
*
* File:    sws.c
* Purpose: Caladan3 SWS drivers, TDM determination
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54680.c,v 1.166 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54680.c
* Purpose:     PHY driver for BCM54680
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54680.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: edline.c,v 1.17 2013/04/05 05:32:36 mrapeti Exp $
*  ed - standard editor
*  ^^
* Authors: Brian Beattie, Kees Bot, and others
*
* Copyright 1987 Brian Beattie Rights Reserved.
* Permission to copy or distribute granted under the following conditions:
* 1). No charge may be made other than reasonable charges for reproduction.
* 2). This notice must remain intact.
* 3). No further restrictions may be added.
*
* - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
*  TurboC mods and cleanup 8/17/88 RAMontante.
*  Further information (posting headers, etc.) at end of file.
* _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
* Modification log:
* 25Aug92  (W.Metzenthen) Changed malloc() call to calloc() in makebitmap()
*         to remove bugs under Linux. Changed a few '^' to the correct '~'.
*         General tidying. Recognize Linux via the __linux__ symbol.
*         Main change based upon suggestion by Wolfgang Thiel.
* 07Sep99  Changed large amounts of stuff to simplify  --Curt McDowell
*/
/*****************************************************************************
* BITMAP.C - makebitmap, setbit, testbit
*   bit-map manipulation routines.
*
* Copyright (c) Allen I. Holub, all rights reserved.  This program may
*  for copied for personal, non-profit use only.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/edline.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmrangemgr.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmrangemgr/nlmrangemgr.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: techsupport_loadbalance.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_loadbalance.c
* Purpose: This file implements techsupport utility for
*          loadbalance.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/loadbalance/techsupport_load_balance.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_egr_queuing.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_egr_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_api_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibMVTConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibMVTConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/hal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/raptor/hal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log State
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bslfile.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bsldnx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bslcons.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bslenable.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_tsc_field_access.h                                    *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  Serdes IP Register and Field access APIs                    *
*  Revision      :  $Id: eagle_tsc_field_access.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                   *
*      Broadcom Corporation                                                     *
*      5300 California Avenue                                                   *
*      Irvine, CA  92617                                                        *
*                                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_field_access.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/failover.c
* Purpose:     BCMX Forwarding Failover Protection APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/failover.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  *
*                                                                             *
*  Description   :  Register access macros for FALCON16_TSC
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_fields.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/falcon16_tsc_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: cmd.h,v 1.34.16.1 Broadcom SDK $
*
* TMU CMD defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/cmd.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: allenum.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allenum.h
* Purpose: Enumerated types for fields, memories, registers
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/allenum.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
```

```
*      5300 California Avenue                                    *
*      Irvine, CA  92617                                         *
*                                                                *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_pgm.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_pmf_low_level.c
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_pmf_low_level_pgm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCITConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibCITConsole.hx

No license file was found, but licenses were detected in source scan.

/* $Id: ui_fap21v_acc_mac.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_mac.c
No license file was found, but licenses were detected in source scan.

/* $Id: dnx_multicast_ingress.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_multicast_ingress.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_multicast_linked_list.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_rand.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_rand.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_rand.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_device_management.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_device_management.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_device_management.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_mpls.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_mpls.c
* Purpose: Maintains all the debug information for mpls
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mpls/trident2plus_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x_funcs.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/include/phy8806x_funcs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/include/phy8806x_ctr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flex_ctr_egress.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flex_ctr_egress.c
* Purpose:     Manage flex counter ingress group creation and deletion
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flexctr/flex_ctr_egress.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.h,v 1.6 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     stat.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback2.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Loopback Test definitions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/loopback2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS TD2 Bulk Aging Management.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyreg.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyreg.h
*
* Data structures and function prototypes for PHY register access.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyreg.h
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ocm_diags_h.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE STACK H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_stack.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :   *
*                                                                                       *
```

```
*  Description   :  Register access macros for MERLIN16
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/public/merlin16_fields_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reset.c, v1 06/06/2016 kkotsev $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/drv/drv_reset.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcVlanApi.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcVlanApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/ea/tk371x/CtcVlanApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: editline.h,v 1.4 2011/08/31 18:26:51 dkelley Exp $
*
* $Copyright: (c) 2011 Broadcom Corporation
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/editline/editline.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_egr_queuing.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_c_ext_sim.stg,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_tmu_sim.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_tmu_sim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hpcm.h,v 1.4.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* hpcm  : Heap chunk memory manager
*        allocates pool of dynamic memory & manages them without need for
*        multiple malloc's
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/hpcm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: common_drv.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC COMMON DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/common_drv.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_sesto_internal.c                                    *
*  Created On    :  13/02/2014                                                 *
*  Created By    :  Justin Gaither                                             *
*  Description   :  APIs for Serdes IPs                                        *
*  Revision      :  $Id: merlin_sesto_internal.c 865 2015-01-22 16:43:59Z jgaither $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* Hardware-specific MIB definition for
* Broadcom Home Networking Division
* GbE Unimac core
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmgmacmib.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmgmacmib.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_board_general.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/utils_board_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2_tdm.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk2_tdm.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/tomahawk2_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_1EntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_1EntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enduro.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       enduro.h
* Purpose:     Function declarations for Enduro  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/enduro.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phydefs.h,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     phydefs.h
* Purpose:  Basic defines for PHYs.
*           This should be included after all other SOC include files and
*           before all other PHY include files.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phydefs.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stktask.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Stack Task:
*     Stacking coordination software
*     Finite state machine based module to control discovery, topology
*     analysis/programming, attaching remote devices and synchronizing
*     inter-box state.
*
* Protected Resources:
*     st_state            Current state
*     bcm_st_disc_db      Discovery database
*     bcm_st_cur_db       Current (active) database
*     st_new_events
*     st_pending_events
*     st_blocked_events
*                 Event bitmaps
*     st_disc_tid   Discovery thread ID; used as running signal as well
*     bcm_st_flags      Convey state (working to eliminate)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/stktask.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8481.h,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8481.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8481.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceEBSEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceEBSEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cM41T81Clock.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/i2cM41T81Clock.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_cint_data.c,v 1.70 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* soc_cint_data.c
*
* Hand-coded support for a few SAL core routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/soc_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.h
* Purpose:    Internal structures and definitions for TX module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/tx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_tsc_iblk.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/acc/phymod_tsc_iblk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgs.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board_support.h
* Purpose:    Board support library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board_int/xgs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls_lm_dm_pack.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls_lm_dm_pack.h
* Purpose:    Interface to pack and unpack routines common to
*             SDK and uKernel for:
*             - MPLS_LM_DM Control messages
*             - Network Packet headers
*
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mpls_lm_dm_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mos_coredump.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    MOS_COREDUMP.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mos_coredump.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbG2SsFeIngRouteHeader.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbG2SsFeIngRouteHeader.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_mgmt.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    cop.h
* Purpose: Caladan3 COP defines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/cop.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_eyescan.c,v 1.3 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE EYESCAN
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/dfe_eyescan.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56634_a0.c
* Purpose:     bcm56634_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56634_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* OTP support.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmotp.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmotp.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name  :  falcon16_tsc_functions.h
*  Created On :  29/04/2013
*  Created By :  Kiran Divakar
```

```
*  Description:  Header file with API functions for Serdes IPs
*  Revision   :
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  No portions of this material may be reproduced in any form without
*  the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
*  All information contained in this document is Broadcom Corporation
*  company private proprietary, and trade secret.
*
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     TD2+ SOC Port driver.
*
*            Contains information and interfaces for the
*            physical port in the device.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2p/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: viper.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       viper.c
* Purpose:     Support Broadcom 28nm XGXS/SGMIIPLUS2 internal SerDes
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/viper.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwBwpEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwBwpEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwBwpEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_scheduler.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: prbs_1g_6p25.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : prbs_1g_6p25.soc
# * Description: prbs_1g_6p25
# *-----------------------------------------------------------------------*/
```

```
# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
local lane 0
phy raw sbus $port 0.0 0x9010 0x0000
sleep 1;

phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081

# osr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.$lane 0xd080 0x8005
phy raw sbus $port 1.$lane 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.$lane 0xd127 0x0002
phy raw sbus $port 1.$lane 0xd127

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.$lane 0xd0f4 0x2271
phy raw sbus $port 1.$lane 0xd0f4



# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.$lane 0x9000 0x6400
phy raw sbus $port 0.$lane 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137
```

```
# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


phy raw sbus $port 1.0 0xd0d1 0xb
phy raw sbus $port 1.0 0xd0e1 0xb

# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.$lane 0xc050 0x0003
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 0.0 0xc154 # pcs live link status

sleep 5
phy raw sbus $port 1.$lane 0xd0d9

#Activate Pkill
#phy raw sbus 0xb1 1.0 0xd0f2 0x4002
#phy raw sbus 0xb1 1.0 0xd083 0x000f

#Restart PLL
#phy raw sbus 0xb1 1.0 0xd124 0x280d
#phy raw sbus 0xb1 1.0 0xd124 0xa80d

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/examples/soc_scripts/prbs_1g_6p25.soc
No license file was found, but licenses were detected in source scan.

# $Id: bcm56520sanity.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
```

```
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
```

```
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
```

```
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
```

```
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
```

```
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
```

```
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
```

```
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
```

```
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
```

```
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
```

```
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
```

```
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
```

```
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
```

```
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
```

```
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
```

```
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
```

```
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
```

```
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
```

```
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
```

```
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
```

```
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
```

```
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
```

```
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
```

```
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
```

```
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
```

```
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
```

```
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
```

```
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
```

```
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
```

```
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
```

```
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
```

```
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
```

```
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
```

```
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
```

```
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
```

```
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
```

```
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
```

```
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
```

```
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
```

```
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
```

```
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
```

```
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
```

```
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
```

```
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
```

```
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
```

```
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
```

```
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
```

```
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
```

```
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
```

```
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
```

```
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
```

```
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
```

```
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
```

```
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
```

```
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
```

```
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done
```

```
#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
```

```
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
```

```
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
```

```
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56520sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sweep_app.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_sweep_app.h
No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA module.
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* $Id: hnddma.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hnddma.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88202_a0.c
* Purpose:     bcm88202_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88202_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_fabric.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_fabric.h
*
* MODULE PREFIX:  soc_tmcfabric
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rce.h,v 1.27.12.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    rce.h
* Purpose: Caladan3 Rule Classifier drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/rce.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switchctl.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Switch Control commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/switchctl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.297 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Triumph L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Trident Front Panel and Higig Trunking
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: falcon2_madura_enum.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFabCommon.c,v 1.62 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Link configuration for QE, BME
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbFabCommon.c
No license file was found, but licenses were detected in source scan.

```
/*
* In strata Switch, this file is auto-generated from the
* registers file. But not the same with Strata Switch,
* BCM47XX has no such generator/tool to prepare this
*
* $Id: bcm4713_a0.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcm4713_a0.i
* Purpose: bcm4713_a0 chip specific information (register)
*
* Note :
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm4713_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaPmLastLine.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaPmLastLine.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_trap_mgmt.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_trap_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM3200 Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bme3200/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_links.c,v 1.21.20.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC LINKS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_links.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bits.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/bits.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: bigmac.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS 10Gigabit Media Access Controller Driver (bigmac)
* This file is renamed from xmac.c.
*
* This module is used for:
*
*   - All ports on XGS Hercules family (10Gig x 8)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/bigmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmice_schan.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  CMICE S-Channel (internal command bus) support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmice_schan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptable.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ptable.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	allmems_ufalias.i
* Purpose:	Memory user-friendly aliases.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_ufalias.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy84756_fcmap_int.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756_fcmap_int.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_multicast_fabric.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

/* $Id: ppd_api_ptp.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_ptp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	portctrl.c

```
* Purpose:     SDK Port Control Layer
*
*             The purpose is to encapsulate port functionality
*             related to the xxPORT block (i.e. XLPORT, CPORT)
*             MAC and PHY.
*
*             Currently, only the PortMod library is being supported.
*             The PortMod library provides support for the MAC, PHY,
*             and xxPORT registers.
*
*             Callers of the Port Control routines should check
*             before calling into them with the macro:
*                SOC_USE_PORTCTRL()
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/portctrl.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_packet_queuing.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmDemandCfgDataEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmDemandCfgDataEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_multicast.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* RAMON FABRIC MULTICAST H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_multicast.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpSlimVlanRecord.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpSlimVlanRecord.hx
No license file was found, but licenses were detected in source scan.

/* $Id: utils_d_os_ssf.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_d_os_ssf.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmfibtblmgr_refapp.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
****

Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
   OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
   OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
   ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmfibtblmgr_refapp.c,v 1.4 Broadcom SDK $

* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_refapp/nlmfibtblmgr_refapp.c
No license file was found, but licenses were detected in source scan.

/* $Id: tmc_api_end2end_scheduler.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_end2end_scheduler.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: xbar.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* QE2000 Crossbar configuration accessors
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/xbar.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: async_server.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Asynchronous BCM API Server
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/async_server.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaHi4Selected_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_1Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: client.c
* Purpose: client BCM API dispatch driver
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/client.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_ac.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_ac.h
*
* MODULE PREFIX:  soc_ppd_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/PPD/ppd_api_eg_ac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: here we have the internal implementation for the ACCESS layer MACROs.
*       this allow changing the behaviour of the infrastructure without changing the autocoder
*       and the autogenerated access code
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/swstate/sw_state_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $ID: cint_field_exhaustive.c 2015/11/30 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_field_exhaustive.c
* Purpose: Cint for testing the usage of field DBs with Key-A
*
* Main Functions:
*     run_main_last(INPUT unit) -> Creates L2, L3 and Key-A DBs
*     run_main_first(INPUT unit) -> Creates Key-A, L2 and L3 DBs
*     run_main_negative(INPUT unit) -> Creates L2, L3(with one more qualifier) and Key-A DBs
*     exaustive_test_field_group_tcam(INPUT unit, INPUT group_priority,
*       INPUT num_of_groups, INPUT num_of_tcam_entries)
*         -> creates num_of_groups groups with total num_of_tcam_entries
*            entries to fill TCAM_ACTION
*
* Cleanup functions:
*     destroyAll(INPUT unit) -> Flushes groups with entries, destroys qualifiers and preselectors
*     destroyGroup(INPUT unit) -> Flushes groups with entries
*     destroyQualify(INPUT unit) -> Destroys qualifiers
*     destroyPresel(INPUT unit) -> Destroys preselectors
*     cleanup_field_group_tcam(INPUT unit, INPUT num_of_groups)
*         -> flushes groups 0 to num_of_groups
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_exhaustive.c

No license file was found, but licenses were detected in source scan.

```
/*
* Include file private to the SOC Interconnect support files.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: siutils_priv.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/siutils_priv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/siutils_priv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_status.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC STATUS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_status.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_1Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
```

```
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_vid_assign.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_vid_assign.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       shr_bprof.h
* Purpose:     Defines profiling tool data structures
* Usage:   define enum for the profiling section of code and add entry for
* corresponding text in shr_bprof.c and use SHR_BPROF_STATS_TIME()
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_bprof.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_stack.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 STACK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_stack.c

No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_vpls_gre_wa.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_vpls_gre_wa.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_error_code.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_error_code.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_error_code.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsLastSentPriAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLastSentPriAddrConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600FoTestInfo.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600FoTestInfo.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: wlan.c,v 1.34 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    wlan.c
* Purpose: Manages WLAN functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: modular.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    modular.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_modular_enable_get
*     bcm_common_ptp_modular_enable_set
*     bcm_common_ptp_modular_phyts_get
*     bcm_common_ptp_modular_phyts_set
*     bcm_common_ptp_modular_portbitmap_get
*     bcm_common_ptp_modular_portbitmap_set
*     bcm_common_ptp_modular_verbose_get
*     bcm_common_ptp_modular_verbose_set
*
*     _bcm_ptp_modular_init
*     _bcm_ptp_modular_shutdown
*     _bcm_ptp_modular_supervisor
*     _bcm_ptp_modular_physync_synchronize
*     _bcm_ptp_modular_physync_configure
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/modular.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiRawSpiReadEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEiRawSpiReadEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/stat.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_cos.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_cos.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_cos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trie.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    trie.c
* Purpose: Custom Trie Data structure
```

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/trie.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.h
* Purpose:    Internal structures and definitions for RX module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_links.c,v 1.27 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC LINKS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_links.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tas.c
* Purpose:     Greyhound2 specific TAS driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/tas.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_fabric_cell.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: et_export.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Required functions exported by the port-specific (os-dependent) driver
* to common (os-independent) driver code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/et_export.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56544sanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56544 Sanity
#
# Script to run all available tests as quickly as possible.
```

```
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x3fffffffffe
local pbmhg 0xc440000000000
local pbmport 0xc47fffffffffe

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

fb4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
#tr 60
#$done

#echo "Testing CPU DMA loopback ..."
#tr 17
$done
```

```
#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
#tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 21 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=21G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
#tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 21 Gb/s all HG21 ports"
tr 19 PortBitMap=$pbmhg speed=21G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
```

```
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

#echo "Running internal snake on XE ports, MAC loopback ..."
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
#$done

#echo "Running internal snake on HG ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
#$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
#tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
#tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=max
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=max
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56544sanity.soc

No license file was found, but licenses were detected in source scan.

```
/* $Id: dnx_sand_exact_match_hash.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_exact_match_hash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600.c,v 1.35 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*   bm9600.c :   bm9600 driver
*   This file contains Read/Write access routines for each of the Bm9600 tables
*   It was derived from auto-generated code, so there's room for optimization
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/bm9600.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_field_mim_32k_isids.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mim_32k_isids.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macsecphy.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       macsecphy.h
*
```

```
* Header file for MACSEC PHYs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/macsecphy.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_occupation_mgmt.c,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_occupation_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_pp_isem_access.c,v 1.162 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_isem_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       link.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsRateTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsRateTableEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_module_management.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_module_management.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_module_management.c
No license file was found, but licenses were detected in source scan.

$Id: README.txt,v 1.55 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

~ Name:
```
+-----------------------+
|   Link Monitoring    |
+-----------------------+
```
~ Description:
An example application to monitor the state of the links and to react to port/link failures.

1. Setting topology for local module.
2. Setting topology for FAP groups.

~ File Reference:
cint_linkscan.c

~ Name:
```
+-------------------------+
|   Snake Application    |
+-------------------------+
```
~ Description:
The test is a stress test on the BCM88750 (FE1600) links. The test validates the links performance under a burst of cells.

~ File Reference:
cint_snake_test.c

~ Name:
+----------+
| Topology |
+----------+
~ Description:
Examples of topology configuration.
- Topology for local module
- Topology for FAP groups

~ File Reference:
cint_topology.c

~ Name:
+----------+
| Multicast |
+----------+
~ Description:
The cint demonstrate two examples of multicast applications, direct and indirect.
- Direct: Set multicast table
- Indirect: Set multicast table and create a static topology

~ File Reference:
cint_multicast_test.c

~ Name:
+----------+
| Warm Boot |
+----------+
~ Description:
Test for BCM88750 (FE1600) warm reboot.

~ File Reference:
cint_warmboot.c

~ Name:
+----------+
| Flow Control |
+----------+
~ Description:
This example demonstrates and tests the FIFO threshold sequence.

~ File Reference:
 cint_fifos.c

~ Name:
+----------+
| Flow Control FE3200 |
+----------+
~ Description:
 This example demonstrates and tests the FIFO threshold pipe_set/get API for BCM88770 (FE3600, previously known as FE3200).

~ File Reference:
 cint_flow_control_fe3200.c

~ Name:
+----------+
| FE3200 Interop |
+----------+
~ Description:
 This example demonstrate the configuration required when connecting BCM88770 (FE3600, previously known as FE3200) to legacy devices.

~ File Reference:
 cint_fe3200_interop.c

~ Name:
+----------+
| RX |
+----------+
~ Description:
 This example demonstrates a configuration when using the CPU2CPU packets mechanism.

~ File Reference:
 cint_dfe_cpu_packets.c

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/README.txt
No license file was found, but licenses were detected in source scan.

/*
* $Id: qax_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* SOC QAX INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_intr_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_lrp.h,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* lrp.h : LRP defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_lrp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_flow_control.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC FLOW CONTROL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_flow_control.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy56xxx5601x.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     phy56xxx_5601x.c
* Purpose:
*     Fiber driver for 56xxx_5601x using internal Serdes PHY with shadow
```

```
*      registers.
*
* For BCM56504, the internal GMACC core of the GPORT should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*      phy_56xxx_5601x_notify_duplex
*      phy_56xxx_5601x_notify_speed
*      phy_56xxx_5601x_notify_stop
*      phy_56xxx_5601x_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy56xxx5601x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast Table Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_serdes.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* SOC ARAD SERDES
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_serdes.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle2_tsc2pll_dv_functions.c                                        *
*  Created On    :  22/05/2014                                                           *
*  Created By    :  Kiran Divakar                                                        *
*  Description   :  APIs for Serdes IPs ported over from DV                              *
*  Revision      :  $Id: eagle2_tsc2pll_dv_functions.c 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_dv_functions_c.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56541sanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56541, BCM56546 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false
```

```
# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x201ffffffe
if "expr $bcm56540_4x10_2x42 + 0" \
   'local pbmhg 0x3c000000000000; local testhg20 1; local pbmhg20 0x30000000000000; \
    local pbmhg42 0xc000000000000; local pbmport 0x3c00201ffffffe'
if !"expr $bcm56540_4x10_2x42 + 0" \
   'local testxe 1; local pbmxe 0x3c000000000000; local pbmhg 0xc0000000000000; \
    local pbmhg42 0xc0000000000000; local pbmport 0xfc00201ffffffe'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
```

```
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

fb4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
```

```
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

if !"expr $testxe + 0" \
      'echo "Testing MAC Loopback - 10 Gb/s all XE ports"; \
       tr 18 PortBitMap=$pbmxe Speed=10G; $done'

echo "Testing MAC Loopback - 21 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=21G
$done

echo "Testing MAC Loopback - 42 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg42 Speed=42G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

if !"expr $testxe + 0" \
      'echo "Testing PHY Loopback - 10 Gb/s all XE ports"; \
       tr 19 PortBitMap=$pbmxe Speed=10G; $done'

if !"expr $testhg20 + 0" \
      'echo "Testing PHY Loopback - 21 Gb/s all HG21 ports"; \
       tr 19 PortBitMap=$pbmhg20 speed=21G; $done'

echo "Testing PHY Loopback - 42 Gb/s all HG42 ports"
tr 19 PortBitMap=$pbmhg42 Speed=42G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done
```

```
echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

if !"expr $testxe + 0" \
      'echo "Running internal snake on XE ports, MAC loopback ..."; \
       tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe; $done'

if !"expr $testxe + 0" \
      'echo "Running internal snake on XE ports, PHY loopback ..."; \
       tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe; $done'

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

if !"expr $testxe + 0" \
      'echo "Running Traffic Test on XE ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G; $done'

if !"expr $testxe + 0" \
      'echo "Running Traffic Test on XE ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G; $done'

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=max
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=max
$done

# if you have cable with following paring
```

```
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
```

```
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56541sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_intr.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-100g.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100G setup
#

ddr3_auto_tune=0

load_firmware=1
#lrp_bypass=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=1
ucode_port.port1.0=il0.il100.0.0:clport1.hg126.0.0

# ORIG From Trup
xgxs_rx_lane_map_core0_il0=0x1230
xgxs_rx_lane_map_core1_il0=0x1032
xgxs_rx_lane_map_core2_il0=0x1230


xgxs_tx_lane_map_core0_il0=0x1032
```

```
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312


phy_rx_polarity_flip_il0=0x0bf9

phy_tx_polarity_flip_il0=0x0cf3


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

higig2_hdr_mode_hg0=1

#C3 Fabric side no pority swap

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# For system ".132"
#ddr3_tune_addrc_ci14=0x000000ae
#ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci14=0x80808080
#ddr3_tune_vref_ci14=0x00000820
#ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
#ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
#ddr3_tune_rd_data_dly_ci14=0x00000404
#ddr3_tune_addrc_ci12=0x000000b1
#ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
```

```
#ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci12=0x80808080
#ddr3_tune_vref_ci12=0x0000079e
#ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
#ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
#ddr3_tune_rd_data_dly_ci12=0x00000404
#ddr3_tune_addrc_ci10=0x000000af
#ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
#ddr3_tune_wr_dq_ci10=0x80808080
#ddr3_tune_vref_ci10=0x000007df
#ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
#ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
#ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
#ddr3_tune_rd_data_dly_ci10=0x00000404
#ddr3_tune_addrc_ci8=0x000000b1
#ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci8=0x80808080
#ddr3_tune_vref_ci8=0x0000079e

#ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
#ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
#ddr3_tune_rd_data_dly_ci8=0x00000404
#ddr3_tune_addrc_ci6=0x000000b3
#ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
#ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci6=0x80808080
#ddr3_tune_vref_ci6=0x0000079e
#ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
#ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
#ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
#ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
#ddr3_tune_rd_data_dly_ci6=0x00000404
#ddr3_tune_addrc_ci4=0x000000b2
```

```
#ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci4=0x80808080
#ddr3_tune_vref_ci4=0x0000079e
#ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
#ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
#ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
#ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
#ddr3_tune_rd_data_dly_ci4=0x00000404
#ddr3_tune_addrc_ci2=0x000000b2
#ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
#ddr3_tune_wr_dq_ci2=0x80808080
#ddr3_tune_vref_ci2=0x000007df
#ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
#ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
#ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
#ddr3_tune_rd_data_dly_ci2=0x00000404
#ddr3_tune_addrc_ci0=0x000000b2
#ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
#ddr3_tune_wr_dq_ci0=0x80808080
#ddr3_tune_vref_ci0=0x000007df
#ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
#ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
#ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
#ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
#ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
#ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
#ddr3_tune_rd_data_dly_ci0=0x00000404
```

```
# For system ".133"
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_wl0_ci4.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x99999797,0x96969292
ddr3_tune_vref_ci6.0=0x0000075d
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10.0=0x00a2a4a0,0x009d9f9b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x97979797
ddr3_tune_rd_en_ci2.0=0x009c9d9c,0x00a0a39d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000af
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000075d
ddr3_tune_rd_en_ci12.0=0x009a9a9b,0x00969895
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci12.0=0x92929494,0x97979898
ddr3_tune_rd_dqs_ci0.0=0x92929a9a,0x99999696
ddr3_tune_rd_en_ci4.0=0x009b9a9c,0x00989a96
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000af
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00999a99,0x009b9e98
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b

ddr3_tune_rd_dqs_ci14.0=0x98989a9a,0x9a9a9797
ddr3_tune_rd_dqs_ci2.0=0x98989797,0x98989797
ddr3_tune_rd_en_ci6.0=0x00999a98,0x00959793
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dqs_ci4.0=0x97979797,0x98989898
ddr3_tune_rd_en_ci8.0=0x00979797,0x00989b96
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci6.0=0x98989191,0x9a9a9999
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a09fa2,0x009c9f99
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1xil100_1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200NextPriMemEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NextPriMemEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200NextPriMemEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_engine.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_engine.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Enables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bslenable.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       allregs_a.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_a.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* device CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dev.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv4.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv4.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_stat.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC JER2_ARAD FABRIC STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_stat.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_stat.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_vsi.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_vsi.h
*
* MODULE PREFIX:  soc_ppd_vsi
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_vsi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: autoneg.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/autoneg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptp_init.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ptp_init.c
*
* Purpose:
*
* Functions:
```

```
*     bcm_common_ptp_detach
*     bcm_common_ptp_lock
*     bcm_common_ptp_unlock
*     bcm_common_ptp_init
*     bcm_common_ptp_stack_create
*     bcm_common_ptp_time_format_set
*     bcm_common_ptp_cb_register
*     bcm_common_ptp_cb_unregister
*
*     _bcm_ptp_clock_cache_init
*     _bcm_ptp_clock_cache_detach
*     _bcm_ptp_clock_cache_stack_create
*     _bcm_ptp_clock_cache_info_create
*     _bcm_ptp_clock_cache_info_get
*     _bcm_ptp_clock_cache_info_set
*     _bcm_ptp_clock_cache_signal_get
*     _bcm_ptp_clock_cache_signal_set
*     _bcm_ptp_clock_cache_tod_input_get
*     _bcm_ptp_clock_cache_tod_input_set
*     _bcm_ptp_clock_cache_tod_output_get
*     _bcm_ptp_clock_cache_tod_output_set
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/ptp_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5690.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
* phy5690.c
* Purpose:
* Fiber driver for 5690 using internal QuadSerdes PHY.
*
* For BCM5690, the internal GMACC core of the GPIC should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
```

```
* _phy_5690_notify_duplex
* _phy_5690_notify_speed
* _phy_5690_notify_stop
* _phy_5690_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5690.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_pp_array_memory_allocator.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_array_memory_allocator.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsE2QEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsE2QEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Notes on Boot Flags

Curt McDowell, Broadcom Corp. 01-28-02
Last Updated: 01-28-02

Several Boot Flags are defined in <krn/boot.h>.

In VxWorks, the Boot Flags are a configuration parameter in the form of a 32-bit value stored persistently in NVRAM. The value may be adjusted in hexadecimal form using the Configuration (c) command in the boot ROM. VxWorks reserves many of the bits in the Boot Flag value, so the Broadcom software uses values starting at bit 12 (0x1000).

In Unix, the Boot Flags are derived from a hexadecimal number read from the environment variable SOC_BOOT_FLAGS. If the variable is not set, the default value is 0x22000.

The meanings of the Boot Flags currently available are as follows:

0x1000 BOOT_F_NO_RC Do not load rc.soc automatically on each StrataSwitch device after once they are all attached.

0x2000 BOOT_F_NO_PROBE Do not probe the PCI bus for StrataSwitch devices (also implies BOOT_F_NO_ATTACH and BOOT_F_NO_RC).

0x4000 BOOT_F_NO_ATTACH Do not attach StrataSwitch devices (also implies BOOT_F_NO_RC).

0x8000 BOOT_F_SHELL_ON_TRAP For VxWorks, when Control-\ is typed, do not reboot as normal, but instead fork a VxWorks shell. If the main application process dies, this may be useful in getting backtraces using VxWorks commands such as "i" and "tt".

0x10000 BOOT_F_QUICKTURN Indicates to software that the device is attached to a chip emulator. The software uses this mainly to lengthen the timeout values on various chip operations.

0x20000 BOOT_F_PLISIM Indicates to software that the device is attached to a software chip simulator such as pcid or a Verilog model.

0x40000 BOOT_F_48PORT_BOARD Set to indicate that the software is running on a 48-port integrated design with two StrataSwitch chips back to back.

This flag will be obsoleted because all
new boards provide a board type and
revision ID.

In addition to the Boot Flags, it is possible to set the Boot Script.
In VxWorks, this is another NVRAM parameter that is also set via the
Configuration (c) command. On Unix, the name of the Boot Script is read
from the SOC_BOOT_SCRIPT environment variable.

If set, the Boot Script is executed with the BCM image boots, after all
devices are probed and attached, but before the rc.soc script is run on
each device. The Boot Script is only run once regardless of the number
of devices. The Boot Script must be a .soc file (BCM shell script).

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/boot-flags.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l2xmsg.c
* Purpose: Provide a reliable stream of L2 insert/delete messages.
*
* This module monitors the L2X table for changes and performs callbacks
* for each insert, delete, or port movement that is detected.
*
* There is a time lag from the actual table change to the callback
* because the l2xmsg task scans the L2X table only periodically.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3/l2xmsg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JERICHO STAT H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Hurricane L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaNextPriEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaNextPriEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proc_req.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       proc_req.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/proc_req.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    trunk.c
* Purpose: Tomahawk2 HGT LAG dynamic load balancing
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: aiutils_priv.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Include file private to the SOC Interconnect support files.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/aiutils_priv.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_header.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/SOC_SAND/Utils/include/soc_sand_header.h
*
* MODULE PREFIX:  SOC_SAND
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_header.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_multicast_ingress.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_multicast_ingress.c
*
* MODULE PREFIX:  soc_tmcmult_ing
*
* FILE DESCRIPTION: refer to H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_multicast_ingress.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_code_hamming.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       dnx_sand_code_hamming.h
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_code_hamming.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_ipv4_acl.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_ipv4_acl.c
*
* Purpose: examples of IPv4 classificaiton and ACLs.
*
* ACL Classification Test cases:
*     IPv4 classification based on IPv4 DA IP and IPv4 DA IP + L4 Dst Port.
*     1. Map Tunnel 100, DA IP 192.168.0.1 to queue 7 and COS 7.
*     2. Map Tunnel 100, DA IP 192.168.0.2 to queue 5 and COS 5.
*     3. Map Tunnel 101, DA IP 192.168.0.3 and L4 Dst port 99 to queue 3 and COS 3.
*     4. Map Tunnel 101, DA IP 192.168.0.3 and L4 Dst port 200 to queue 1 and COS 1.
*
* ACL Service Test cases:
*     1. Drop Tunnel 100, DA 00:00:00:00:00:01, SA 00:00:00:00:00:02, VLANID 3000, UDP, SIP 10.1.1.2 from
pon_port
*     2. Drop Tunnel 101, DA [00:00:00:00:00:01, 00:00:00:FF:FF:FF] from pon_port
*     3. Drop Tunnel 102, SA [00:00:00:00:00:01, 00:00:00:FF:FF:FF] from pon_port
*     3. Drop Tunnel 103, L4SrcPort [2, 0x3FF] from pon_port
*     3. Drop Tunnel 104, L4DstPort [2, 0x3FF] from pon_port
*
* PP Model: N:1 Service.
*     PON Port 4              <-----------------> NNI Port 128
*     Tunnel-ID 100 CVLAN 10   <--------|
*     Tunnel-ID 100 CVLAN 3000 <--------|
*     Tunnel-ID 101 CVLAN 20   <--------|--------> CVLAN 100
*     Tunnel-ID 102 CVLAN 30   <--------|
*     Tunnel-ID 103 CVLAN 40   <--------|
*     Tunnel-ID 104 CVLAN 50   <--------|
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_up_scheduler.c
*     BCM> cint examples/dpp/pon/cint_pon_ipv4_acl.c
*     BCM> cint
* To Activate PON service models:
*     cint> pon_ipv4_acl_service_init(0, 4, 128);
*     cint> pon_ipv4_acl_service_setup(0);
* To Activate ACL Classification Run:
*     cint> pon_up_scheduler_init(0);
*     cint> pon_up_scheduler_setup(0);
*     cint> pon_ipv4_acl_classification_setup(0);
* To Deactivate ACL Classification Run:
*     cint> pon_ipv4_acl_classification_cleanup(0);
*     cint> pon_up_scheduler_cleanup(0);
```

```
* To Activate ACL Service Run:
*     cint> pon_ipv4_acl_init(4);
*     cint> pon_ipv4_acl_setup(0);
* To Deactivate ACL Service Run:
*     cint> pon_ipv4_acl_cleanup(0);
* To Dectivate PON service models:
*     cint> pon_ipv4_acl_service_cleanup(0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_ipv4_acl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon16_tsc_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :   *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane3.c,v 1.1.8.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane3.c
* Purpose:
```

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdescombo5601x.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     physerdescombo_5601x.c
* Purpose:
*     Fiber driver for serdescombo_5601x using internal Serdes PHY with
*     shadow registers.
*
* For BCM56218, the internal GMACC core of the GPORT should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     _phy_serdescombo_5601x_notify_duplex
*     _phy_serdescombo_5601x_notify_speed
*     _phy_serdescombo_5601x_notify_stop
*     _phy_serdescombo_5601x_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo5601x.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: phy54xx.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	phy54xx.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54xx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_ilm.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:	DuneDriver/ppd/include/soc_ppd_api_frwrd_ilm.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_ilm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	tx.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/tx.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_oam_ccm_nested_mdlevels.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/caladan3_oam_ccm_nested_mdlevels.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dispatch.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dispatch.c
* Purpose:    Dispatch related diagnostic commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dispatch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:mpls.h,v 1.1 2013/6/28 13:05:00 Jianping Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the mpls table
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_eval_ast_print.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_eval_ast_print.h
* Purpose:    CINT print interface
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_ast_print.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOnuApi.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOnuApi.c
* Purpose:
*
*/
/*
*  Function:
*      TkExtOamOnuInfo
* Purpose:
*      Get the extended proprietary ONU information of the EPON MAC
* Parameters:
*      pathId    - The EPON chipset unit number.
*      LinkId    - The link index which will be attached to the message
*      pRXBuf    - The ONU information
* Returns:
*      ERROR code or OK
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkOnuApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/stack.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/port.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cm.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cm.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_MADURA.
* This file provides all basic definitions required to program the BCMI_MADURA.
*
* This file is autogenerated. Please do not edit.
*
*******************************************************************************/
/*******************************************************************************
* CHIP:  BCMI_MADURA
* REGISTER:  CL73_BAMCTL1
* BLOCKS:   CL73_USER_BLK0
* REGADDR:  0xc372
* DEVAD:    7
* DESC:     Clause 73 BAM control 1 (NOT USED)
* RESETVAL: 0x6000 (24576)
* ACCESS:   R/W
* FIELDS:
*     UD_CODE_FIELD_41_32 BAM73's User-defined  Code Field bits [41:32], I.e. UD_code_field[41:32]
*     CL73_HPEN        Enables third party proprietary mode
*     CL73_BAM_TEST_MP5_HALT_STEP CL73_bam_test_MP5_halt_step
*     CL73_BAM_TEST_MP5_HALT_EN CL73_bam_test_MP5_halt_en
*     CL73_BAMNP_AFTER_BP_EN Enables STA to send BAM73 NPs immediately after BP; otherwise send
BAM73 NPs following software NPs
*     CL73_BAM_STATION_MNGR_EN BAM73 Station Manager enable
*     CL73_BAMEN       Clause73 BAM73 AN enable
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/bcmi_madura_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: queue.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/queue.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_debug.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/alloc_debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: atp.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       atp_bet.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/atp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Notes on StrataSwitch Counter API
Curt McDowell, Broadcom Corp. 11-03-99
Last Updated: 12-02-01

---

1. Overview

StrataSwitch counters comprise a set of statistics registers located in the ingress/egress modules of the StrataSwitch PIC blocks. For example, on BCM5600, there are 49 statistics per fast ethernet port and 40 per gigabit ethernet port, totaling 1256.

The statistics registers have various widths including 12, 16, 20, 24, and 32 bits. On the XGS family, all counters are 32 bits except for the 10 gig counters, which are 64 bits.

2. Counter Collection

The StrataSwitch driver implements a counter collection mechanism to implement 64-bit "virtual," or "software" counters. The collection mechanism runs at a programmable interval, performing a periodic collection cycle.

A collection cycle processes each counter. For each counter, it:

1. Reads the hardware counter value.

2. Subtracts the counter values read during the previous cycle to find out the increments since the last cycle.

3. Takes into account counter overflow wrap-around, a condition which applies if the new value is less than the previous value.

4. Adds the increment to 64-bit software counter values.

5. Sets a per-counter flag whenever a counter is modified by incrementing or clearing.

The driver maintains state in the driver control structure (soc_control) including the software counter values and counter previous values.

3. Counter Clearing

The software accumulation counters are cleared by simultaneously setting the hardware and software counters to zero.

The current API actually allows the counter (hardware and software) to be set to any arbitrary value.

4. Counter DMA

BCM56xx family chips support the automatic, transparent transfer of counter values directly from the chip into the host CPU memory via DMA.

This is helpful because the numerous counters otherwise have to be read individually over the S-Channel bus. Doing so results in a cost to read all counters from approximately 15 milliseconds (best case with polling register reads) to 45 milliseconds (interrupt-driven register reads) on a 200 MHz PPC603 processor.

Counter DMA is a feature of the CMIC. When counter DMA is active, the CMIC periodically reads all the counters at an interval selectable from 0 to 1048512 usec in increments of 64 usec. (If a longer interval is desired, the software can single-trigger individual counter DMA cycles).

During the counter read process, the CMIC issues S-Channel read operations to the EPIC and/or GPIC blocks. The S-Channel access is properly shared with normal CPU access, with the CPU receiving higher priority.

After the transfer of all counters is complete, the CMIC interrupts the driver so the driver can perform counter collection and processing.

5. Counter Thread

When counter collection is enabled in the driver, the driver starts a counter processing thread. If requested, it also enables the hardware counter DMA mode with appropriate parameters and interrupt setup.

When the CMIC sends the completion interrupt, the interrupt handler wakes up the counter thread, which then performs a collection cycle on the contents of the DMA buffer.

6. Aliasing effects

Because the software collection process maintains state about the previous value of a counter, changing the counter value without going through the Counter API can confuse the collection process.

For example, if the value of a 20-bit counter is changed from 1 to 0, software has no other choice than to assume the counter has wrapped all the way around, and therefore it adds 2^20-1 to the software counter value.

If, for seemingly inexplicable reasons, a counter increments by huge amounts in the vicinity of 2^20, 2^24, or 2^32, the most likely explanation is that a counter register is being written to directly. That might result from invalid use of the BCM "setreg" command, Tcl "soc setreg" command, or a soc_reg_write() API routine.

Always use a proper API routine to change the value of a software-maintained counter, such as the BCM "clear counters" command, Tcl "soc counter <name> <value>" command, or a soc_counter_set() API routine.

7. Counter API

The driver includes a set of routines for counter management at the lowest level. Upper-layer applications (or higher-level APIs such as the BCM API) should be built on these routines.

Some of the more important routines are described below. Refer to the Device Driver Writer's Guide for more information.

7.1. int soc_counter_start(int unit, uint32 flags, int interval, pbmp_t pbmp)

Starts the counter collection thread. If the flags specify to use counter DMA, configures the thread to use counter DMA. A counter collection is run every 'interval' microseconds. Counters are collected only for the ports specified in the pbmp port bitmap.

7.2. int soc_counter_stop(int unit)

Stops the counter collection thread, and cancels counter DMA if in use.

7.3. int soc_counter_get(int unit, soc_port_t port,
soc_reg_t ctr_reg, uint64 *val)
int soc_counter_get32(int unit, soc_port_t port,
soc_reg_t ctr_reg, uint32 *val)

Returns the value of a specified software counter. The 32-bit version truncates the value to 32 bits. The desired counter is specified by giving a port and a counter register as defined in socregs (e.g. TVLANr). The routine is very fast since it just reads out of a memory buffer.

7.4. int soc_counter_set(int unit, soc_port_t port,
soc_reg_t ctr_reg, uint64 val)
int soc_counter_set32(int unit, soc_port_t port,
soc_reg_t ctr_reg, uint32 val)

Sets the value of a specified software counter. The desired counter is specified by giving a port and a counter register as defined in socregs (e.g. TVLANr).

The routine also sets the hardware counter to the same value, modulo the counter size, and records it as the previous value so the next read pass will not register a change. This routine is primarily used to zero a counter.

7.5. int soc_counter_set_by_port(int unit, pbmp_t pbmp, uint64 val)
int soc_counter_set32_by_port(int unit, pbmp_t pbmp, uint32 val)

For each port in the port bitmap pbmp, calls soc_counter_set (or soc_counter_set32) for each counter associated with that port.

This routine is primarily used to zero all counters for a given port, group of ports, or all ports (PBMP_ALL).

7.6. int soc_counter_set_by_reg(int unit, soc_reg_t ctr_reg, uint64 val)
int soc_counter_set32_by_reg(int unit, soc_reg_t ctr_reg, uint32 val)

Calls soc_counter_set (or soc_counter_set32) to set the value of a specified counter for all applicable ports.

This routine is primarily used to zero a specified counter for all applicable ports.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/counter.txt
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_fmf.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fmf.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_scheduler_elements.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/ARAD/arad_scheduler_elements.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: sysSerial.c,v 1.4 2008/04/03 22:19:20 bhsueh Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/sysSerial.c
No license file was found, but licenses were detected in source scan.

```
/*
* ! \file algo_port.h Internal DNX Port Managment APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/algo_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    extender.c
* Purpose: Implements bcm_extender_forward_* APIs for Greyhound.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/extender.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_64cnt.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_64cnt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_64cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type33.h
* Purpose:    Define dma control block (DCB) format for a type33 DCB
*             used by the 56860 (TD2+)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type33.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcompiler.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bcompiler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_diag_cint_data.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dpp_diag_cint_data.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: reload.soc,v 1.11 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

*:warmboot on
*:init noreset
*:init misc
*:init mmu
# Note: Un-comment the following debug verbose and dbm bcm lines to get more debug info.
#       They are turned off by default to reduce init time.

#debug +verbose
#dbm bcm fp VVERbose
MCSMsg INIT;
MCSMsg 0;
if $?feature_iproc && !$?rcpu_only && $?num_ucs\
   'if !"expr $num_ucs > 1" "MCSMsg 1";'\
   'if !"expr $num_ucs > 2" "MCSMsg 2";'
*:init bcm
#dbm bcm -fp -VVERbose
#debug -verbose
*:linkscan 250000
if $?feature_arl_hashed && !$?simulator && !$?rcpu_only \
   "l2mode interval=3000000"
sleep 1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/reload.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_z.i
```

* Purpose: Field declarations.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_z.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: katana.c,v 1.152 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: katana.c
* Purpose:
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/katana.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: tdm_ap_main.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip main functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_main.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: i2cM41T81Clock.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2cM41T81Clock.c
No license file was found, but licenses were detected in source scan.

/*

```
* Misc utility routines for accessing PMU corerev specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndpmu.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndpmu.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndpmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPriExpTosRewrite.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpPriExpTosRewrite.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph2.h,v 1.90 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       triumph2.h
* Purpose:     Function declarations for Triumph 2 bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/triumph2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_init.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.154 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x40g_8x10g_1xhg127.h,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1x40g_8x10g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proxy.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* Proxy initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm_ces_sal.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* bcm_ces_sal.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ces/sal/bcm_ces_sal.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_trap.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_trap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sync.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sync.c
* Purpose: Defines SAL routines for mutexes and semaphores
*
* Mutex and Binary Semaphore abstraction
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/sync.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56450_b1.c
* Purpose:     bcm56450_b1 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56450_b1.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xapi_ref.c
* Purpose: BCMX API routines reference
* Generator: mkdispatch 1.54
* Generated: Thu Feb 21 13:03:48 2013
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/api_ref.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_egr_acl.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_egr_acl.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_callback_handles.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_callback_handles.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_callback_handles.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_tsc_iblk.c,v 1.1.2.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS internal PHY read function with AER support.
*
* This function accepts a 32-bit PHY register address and will
* properly configure clause 45 DEVAD and XAUI lane access.
* Please see phymod_reg.h for additional information.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/acc/phymod_tsc_iblk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: missing.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_unit/missing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr.c,v 1.312 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_local_lif.c
* Purpose:     Local Lif allocation manager for SOC_SAND chips.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr_local_lif.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: drv.c,v 1.146 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/drv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_isem_access.h,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright: (c) 2013 Broadcom Corporation All Rights Reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_isem_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: atptrans_socket.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     atptrans_socket.h
* Purpose:   Declaration for ATP transport over Sockets support routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/atptrans_socket.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtdebugbank0Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank0Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bhh.h
* Purpose: BHH definitions common to SDK and uKernel
*
* Notes:   Definition changes should be avoided in order to
*          maintain compatibility between SDK and uKernel since
*          both images are built and loaded separately.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bhh.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: boards.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board.h
* Purpose:     Definitions for the board type.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/boards.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra28_reg_access.h 2014/04/02 aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_reg_access.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56524sanity.soc,v 1.8 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
```

```
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
```

```
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
```

```
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
```

```
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
```

```
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
```

```
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
```

```
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
```

```
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
```

```
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
```

```
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
```

```
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
```

```
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
```

```
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
```

```
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
```

```
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
```

```
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
```

```
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
```

```
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
```

```
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
```

```
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
```

```
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
```

```
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
```

```
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
```

```
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
```

```
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
```

```
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
```

```
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
```

```
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
```

```
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
```

```
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
```

```
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
```

```
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
```

```
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
```

```
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
```

```
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
```

```
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
```

```
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
```

```
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
```

```
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
```

```
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
```

```
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
```

```
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
```

```
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
```

```
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
```

```
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
```

```
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
```

```
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
```

```
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
```

```
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
```

```
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
```

```
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
```

```
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
```

```
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
```

```
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
```

```
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
```

```
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
```

```
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
```

```
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
```

```
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56524sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_platform_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_address.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_phyreg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_register_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm988230.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm988230.c
* Purpose:    bcm988230 (Sirius) board driver
*
* This is an example of how existing Sirius board driver code could
* be bootstrapped into the board driver framework. This is not
* intended for production use.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/bcm988230.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_device.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_device.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_defi.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_defi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Common Multicast Initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.197 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Library Initialization
*
*   This module calls the initialization routine of each BCM module.
*
* Initial System Configuration
*
*   Each module should initialize itself without reference to other BCM
*   library modules to avoid a chicken-and-the-egg problem.  To do
```

```
*   this, each module should initialize its respective internal state
*   and hardware tables to match the Initial System Configuration.  The
*   Initial System Configuration is:
*
*   STG 1 containing VLAN 1
*   STG 1 all ports in the DISABLED state
*   VLAN 1 with
* PBMP = all switching Ethernet ports (non-fabric) and the CPU.
* UBMP = all switching Ethernet ports (non-fabric).
*   No trunks configured
*   No mirroring configured
*   All L2 and L3 tables empty
*   Ingress VLAN filtering disabled
*   BPDU reception enabled
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmPortBwCfgTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmPortBwCfgTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
-----------------------------------------------------------------------
            Notes on port mappings in the BCM shell
                Broadcom Corp. April 7, 2008
               Last Updated: January 13, 2009
-----------------------------------------------------------------------


(1) Background

In most cases the physical port numbers used internally in a switch
chip are different from the port numbers used in the silk screen on
```

the actual switch hardware. The switch software needs to provide some kind of abstraction in the user interface that hides the internal port numbers and associates each front panel port with a logical port name.

When dealing with port numbers in the SDK it is important to understand how a front panel port is referenced depending on the context.

Pin Group Port Number

A front panel port is connected to a group of pins on the switch chip, and the port number here is called the the pin-group port number. Typically these numbers are tied to a port type and are named GE1, GE2, XG1, etc. These names can be found in the pin list in the datasheet.

Physical Port Number

Within the register programming interface each port is referenced by a physical port number. The physical port number is typically used in register address calculations and for indexing memory tables and port bitmap fields in registers and memories. The physical port number is always relative to the switch chip ID aka the unit number.

System Port ID

In order to support a stacking environment any port within the stack can be identified by a module ID and a module port number. The module ID is assigned to a switch device through the register programming interface, whereas the module port number in most cases has a fixed relation to the physical port number. The important thing to understand is that the physical port number and the module port number may be different for a particular port. The System port ID is typically used when programming the switching tables and trunks.

(2) Diag Shell Port Mapping

By default the diag shell (aka the BCM shell) uses a simple port number abstraction that divides the ports into classes (fe, ge, hg, etc.) and assigns a zero-based sequential number to the ports within each class. For example, Fast Ethernet ports are named fe0, fe1, etc. and HiGig ports are named hg0, hg1, etc. The symbolic port names are translated to physical port numbers before any calls are made to the BCM API.

Historically the above port naming convention would assume that the internal port numbers are in the same order as the front-panel ports,

but this is not necessarily the case for some newer XGS chips such as the BCM56624 chip. The result is that it has become increasingly difficult to associate a port name in the BCM shell with a front-panel port number.

The BCM shell has been expanded to use a more flexible port naming system based on an individual mapping of each internal port. The default port mappings are designed to match the Broadcom reference designs, but the port mappings can be changed either through function calls or configuration settings.

For the basic user interface the BCM shell uses the following macros:

DPORT_TO_PORT(unit, dport)

This macro translates a diag shell port number to an internal port number.

DPORT_FROM_PORT(unit, port)

This macro translates a diag shell port number to an internal port number.

DPORT_PBMP_ITER(unit, pbmp, dport, port)

This macro iterates over a port bitmap (as used by the BCM API) in dport order, which may be different from the bit order in the port bitmap.

Consider the following example port mapping:

Shell	Internal
1	0
2	3
3	1
4	2

From this we get:

DPORT_TO_PORT(1) = 0
DPORT_TO_PORT(3) = 1

DPORT_FROM_PORT(1) = 3
DPORT_FROM_PORT(3) = 2

DPORT_PBMP_ITER(unit, 0xe, dport, port)
1st iteration: dport = 2, port = 3
2nd iteration: dport = 3, port = 1

3rd iteration: dport = 4, port = 2

The following new configuration parameters (shown with their default value) are supported:

dport_map_enable=1

Enable diag shell port mapping. Port names will be assigned in dport order, and the BCM shell will list multiple ports in dport order regardless of the internal port numbering.

dport_map_indexed=1

Port names for each port type (fe, ge, etc.) will increment by one starting at zero, e.g. if a switch has four xe ports with dport numbers 24, 25, 26, and 27, they will be named xe0, xe1, xe2, and xe3. In non-indexed mode the ports would be named xe24, xe25, xe26, and xe27.

dport_map_direct=0

Traditionally, specifying a raw number instead of a port name in the diag shell will be parsed as if port numbers are counted from 1 up to the number of enabled ports. Typically this would mean that for a gigabit switch, port 1 would correspond to ge0, and so forth. Setting this flag causes raw port numbers to be parsed as internal port numbers.

dport_map_port_<port>=<dport>

Map dport number <dport> to internal port number <port>.

(3) BCM API Port Mapping

A particular problem arises when a design replaces an older switch chip with a newer pin-compatible switch chip. The register abstraction provided by the BCM API combined with pin-compatibility should ideally make the application migration from the old to the new device straight-forward, however, if the API port maps are different between the old and the new device, many application functions will break.

In order to address such differences in the API port maps, the BCM API supports port remapping within the API itself. As an example it is possible to make the port map of a BCM56620 device look like the port map of a BCM56504 device.

By default BCM API port mapping is not compiled into the SDK libraries. To enable this feature, the following setting must be added to Make.local:

```
CFGFLAGS += -DINCLUDE_BCM_API_XLATE_PORT
```

Several pre-configured port translation maps are provided for convenience, otherwise a translation map must be built from scratch. In both cases the configuration is done through config variables.

To use a pre-configured translation map, e.g. BCM56620 to BCM56504, the following configuration variable must be added:

```
bcm_xlate_port_map=bcm56620_to_bcm56504
```

The example below shows a custom mapping that maps physical port 2 to BCM API port 0:

```
bcm_xlate_port_2=0
```

To manually map BCM56620 to BCM56504, the following config variables must be added:

```
bcm_xlate_port_2=0
bcm_xlate_port_3=1
bcm_xlate_port_4=2
bcm_xlate_port_5=3
bcm_xlate_port_6=4
bcm_xlate_port_7=5
bcm_xlate_port_18=6
bcm_xlate_port_19=7
bcm_xlate_port_14=8
bcm_xlate_port_15=9
bcm_xlate_port_16=10
bcm_xlate_port_17=11
bcm_xlate_port_26=12
bcm_xlate_port_32=13
bcm_xlate_port_33=14
bcm_xlate_port_34=15
bcm_xlate_port_35=16
bcm_xlate_port_36=17
bcm_xlate_port_46=18
bcm_xlate_port_47=19
bcm_xlate_port_27=20
bcm_xlate_port_43=21
bcm_xlate_port_44=22
bcm_xlate_port_45=23
```

bcm_xlate_port_28=24
bcm_xlate_port_29=25
bcm_xlate_port_30=26
bcm_xlate_port_31=27
bcm_xlate_port_0=28

The new port namespace created by this mapping applies to physical port numbers only, and it is normally called the API port number space.

When BCM port mapping is active it is essential that an application always uses the bcm_port_gport_get API for translating an API port number into a system port ID (e.g. when adding an L2 address to the ARL table), even if the switch is not a member of a stack.

(4) Additional Information

The commands in the BCM shell will translate the logical port names (ge0, etc.) into either a physical port number or an API port number depending on the context. For example any direct register access (getreg, etc.) will always use physical port numbers whereas BCM commands (vlan, etc.) will use API port numbers.

Use the pbmp command to see how a logical port name is translated into a physical port and API port number respectively:

```
 pbmp ge0
 pbmp bcm ge0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/port-mapping.txt
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_reg_access.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_jer2_tmcreg_access.c
*
* MODULE PREFIX:  soc_jer2_tmcreg_access
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
```

```
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_extender_dynamic_switching.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_port_extender_dynamic_switching.c
* Purpose: An example of the port extender dynamic switching.
*          The following CINT provides a calling sequence example to set port extender type between COE and regular dynamically.
*
* Calling sequence:
*
*  1. Add the following port configureations to config-sand.bcm
*       ucode_port_1.BCM88650=10GBase-R13.0
*       ucode_port_2.BCM88650=10GBase-R13.1
*       ucode_port_3.BCM88650=10GBase-R14
*       custom_feature_map_port_extr_enabled.BCM88650=2
*  2. Enable port extender for port X.
*       - call bcm_port_control_set() with bcmPortControlExtenderEnable.
*  3. Map port and COE VLAN ID to in pp port.
*       - call bcm_port_extender_mapping_info_set()
*  3. Set COE VLAN ID which is stamped into egress COE tag.
*       - call bcm_port_class_set() with bcmPortClassProgramEditorEgressPacketProcessing
*  4. Set the system port of the in pp port
*       - call bcm_stk_sysport_gport_set()
*  5. Create service VLAN.
*       - call bcm_vlan_create()
*  6. Add pp ports and local port into VLAN.
*       - call bcm_vlan_port_add()
*
* Service Model:
*    port + COE VID <----> COE PP port   <---VLAN 100---> Local port
*      1  +     10   <----->    1          <--------------->  5
*      1  +     20   <----->    2          <--------------->  5
*
* Traffic:
*  1. Local port 5 <-> VLAN 100 <-> COE port 1 (port 1, COE VID 10)
*       - From Local port:
```

```
*           - ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:02
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From COE port:
*           - ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           - VLAN tag: COE VLAN tag type 0x8100, VID = 10, VLAN tag type 0x8100, VID = 100
*
*  2.  COE port 1 (port 1, COE VID 10) <-> VLAN 100 <-> Local port 5
*       - From COE port:
*           - ethernet header with DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           - VLAN tag:  COE VLAN tag type 0x8100, VID = 10, VLAN tag type 0x8100, VID = 100
*       - From Local port:
*           - ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*
*  3. Local port 5 <-> VLAN 100 <-> COE port 2 (port 1, COE VID 20)
*       - From Local port:
*           - ethernet header with DA 00:00:00:00:00:03, SA 00:00:00:00:00:02
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From COE port:
*           - ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:03
*           - VLAN tag: COE VLAN tag type 0x8100, VID = 20, VLAN tag type 0x8100, VID = 100
*
*  4.  COE port 2 (port 1, COE VID 20) <-> VLAN 100 <-> Local port 5
*       - From COE port:
*           - ethernet header with DA 00:00:00:00:00:02, SA 00:00:00:00:00:03
*           - VLAN tag:  COE VLAN tag type 0x8100, VID = 20, VLAN tag type 0x8100, VID = 100
*       - From Local port:
*           - ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:03
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*
*
* Disable port extender for local port 1
* Service Model:
*   local port    ---VLAN 10---> Local port
*      1          ------------->  5
*
*   local port    <---VLAN 100-- Local port
*      1          <-------------  5
*
*  1. Local port 5 <-> VLAN 100 <-> Local port 1
*       - From local port 5:
*           - ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:02
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From local port 1:
*           - ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           - VLAN tag: VLAN tag type 0x8100, VID = 100
*
*  2. Local port 1 COE VID 10 <-> VLAN 100 <-> Local port 5
```

```
*       - From local port 1:
*           -   ethernet header with DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           -   VLAN tag:  COE VLAN tag type 0x8100, VID = 10, VLAN tag type 0x8100, VID = 100
*       - From local port5 :
*           -   ethernet header with DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           -   VLAN tag:  COE VLAN tag type 0x8100, VID = 10, VLAN tag type 0x8100, VID = 100
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/utility/cint_utils_global.c
*     BCM> cint examples/dpp/cint_port_extender_dynamic_switching.c
*     BCM> cint
*     cint> port_extender_dynamic_swithing_coe_info_init(0, 1, 10, 1);
*     cint> port_extender_dynamic_swithing_coe_info_init(1, 2, 20, 1);
*     cint> port_extender_dynamic_swithing_coe_vlan_init(100, 3);
*     cint> port_extender_dynamic_swithing_coe_service(unit);
*     cint> port_extender_dynamic_swithing_coe_service_clean_up(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_extender_dynamic_switching.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Helix4 Memory Sanity
#
# Note:
# Since this is a subset of the HX4 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1;
local xlport0 1;
local xwport0 1; local xwport1 1; local xwport2 1;
```

```
if $?BCM56342_A0 || $?BCM56548_A0 || $?BCM56346_A0 \
   'local xtport3 0'
if $?BCM56548H_A0  \
   'local xtport2 0; local xtport3 0;'
if $?BCM56345_A0 \
   'local xwport0 0;'

echo "Hx4 Memory sanity testsuite: started"
ibodsync off
init soc
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';


if !"expr $xtport0 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
if !"expr $xtport1 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $xwport0 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
      $tr50 ie=15; $tr51 ie=15; \
```

```
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'

# Skip Service Meter Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "SVM_METER_TABLE"; $name; $tr50; $tr51; $tr52;'

local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;

# Skip REGEX Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$BCM56346_A0 \
'local mem "AXP_SM_CHAR_REMAP0"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP1"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP2"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP3"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP4"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP5"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP6"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP7"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP8"; $name; $tr50; $tr51; $tr52; \
```

```
local mem "AXP_SM_CHAR_REMAP9"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP10"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP11"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP12"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP13"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP14"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP15"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP16"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP17"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP18"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP19"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP20"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP21"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP22"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP23"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP24"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP25"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP26"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP27"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP28"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP29"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP30"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_CHAR_REMAP31"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_DATA"; $name; $tr50; \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_MASK"; $name; $tr50; \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA"; $name; $tr50; \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK"; $name; $tr50; \
local mem "AXP_SM_FLOW_TABLE_MEM"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM0"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM1"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM2"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM3"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_DATA"; $name; $tr50; \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_MASK"; $name; $tr50; \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA"; $name; $tr50; \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK"; $name; $tr50; \
local mem "AXP_SM_MATCH_TABLE_MEM0"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_TABLE_MEM1"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_TABLE_MEM2"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_TABLE_MEM3"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_PACKET_BUFFER_MEM"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_DATA"; $name; $tr50; \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_MASK"; $name; $tr50; \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_DATA"; $name; $tr50; \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_MASK"; $name; $tr50; \
local mem "AXP_SM_STATE_TABLE_MEM0"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM1"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM2"; $name; $tr50; $tr51; $tr52; \
```

```
local mem "AXP_SM_STATE_TABLE_MEM3"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM4"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM5"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM6"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_STATE_TABLE_MEM7"; $name; $tr50; $tr51; $tr52;'

local mem 'AXP_WLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_WCD'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;

# Skip EGR Flex Stats Mem Verfication for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "EGR_FLEX_CTR_COUNTER_TABLE_0"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_1"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_2"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_3"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_4"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_5"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_6"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_7"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_0"; $name; $tr50; $tr51; $tr52; \
```

```
local mem "EGR_FLEX_CTR_OFFSET_TABLE_1"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_2"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_3"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_4"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_5"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_6"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_7"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_PKT_PRI_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_PKT_RES_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_PORT_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_PRI_CNG_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "EGR_FLEX_CTR_TOS_MAP"; $name; $tr50; $tr51; $tr52;'

local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;

# Skip REGEX Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "FT_AGE_PROFILE"; $name; $tr50; $tr51; $tr52; \
local mem "FT_DST_LAG_CONFIG"; $name; $tr50; $tr51; $tr52; \
local mem "FT_DST_PORT_CONFIG"; $name; $tr50; $tr51; $tr52; \
local mem "FT_EOP_TBL"; $name; $tr50; $tr51; $tr52; \
local mem "FT_EXPORT_CNTR_ONLY"; $name; $tr50; $tr51; $tr52; \
local mem "FT_EXPORT_DATA_ONLY"; $name; $tr50; $tr51; $tr52; \
local mem "FT_EXPORT_FIFO"; $name; $tr50; $tr51; $tr52; \
local mem "FT_L4PORT"; $name; $tr50; $tr51; $tr52; \
local mem "FT_POLICY"; $name; $tr50; $tr51; $tr52; \
local mem "FT_SESSION"; $name; $tr50; $tr51; $tr52; \
local mem "FT_SESSION_IPV6"; $name; $tr50; $tr51; $tr52;'

local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;

# Skip ING Flex Stats Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "ING_FLEX_CTR_COUNTER_TABLE_0"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_1"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_2"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_3"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_4"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_5"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_6"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_7"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_0"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_1"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_2"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_3"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_4"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_5"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_6"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_7"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_PKT_PRI_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_PKT_RES_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_PORT_MAP"; $name; $tr50; $tr51; $tr52; \
```

```
local mem "ING_FLEX_CTR_PRI_CNG_MAP"; $name; $tr50; $tr51; $tr52; \
local mem "ING_FLEX_CTR_TOS_MAP"; $name; $tr50; $tr51; $tr52;'

local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;

# Skip OAM Mem verification for specific SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "LMEP"; $name; $tr50; $tr51; $tr52; \
local mem "LMEP_DA"; $name; $tr50; $tr51; $tr52;'

local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;

# Skip OAM Mem verification for specific SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "MAID_REDUCTION"; $name; $tr50; $tr51; $tr52; \
local mem "MA_INDEX"; $name; $tr50; $tr51; $tr52; \
local mem "MA_STATE"; $name; $tr50; $tr51; $tr52;'

local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
# QCN_CNM_TIMER_TBL is commented out due to bench-screen issues
# local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;

# Skip OAM Mem Verification for specific SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "OAM_LM_COUNTERS"; $name; $tr50; $tr51; $tr52; \
local mem "OAM_OPCODE_CONTROL_PROFILE"; $name; $tr50; $tr51; $tr52;'
```

```
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;

# Skip OAM Mem Verification for specific SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "RMEP"; $name; $tr50; $tr51; $tr52;'

local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_OFFSET_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
# Hx4 has no holes in FP/EFP/VFP TCAM. so these are tested.
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr50; $tr51; $tr52; - RO memory
local mem 'SER_MEMORY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
$done
```

```
#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2;'

if !"expr $xwport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'

if !"expr $xwport1 + 0" \
```

```
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xwport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'

# Reverse SLAM problems: Place-holder
# Run the script on the memories and remove $tr71_3 for which ever memories
# have the Reverse SLAM issues

# Also, following is the complete list of memories in HX4 (copied from above.
# If a specific memory does not support SLAM DMA, then

# Skip Service Meter Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "SVM_METER_TABLE"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip REGEX Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$BCM56346_A0 \
'local mem "AXP_SM_CHAR_REMAP0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP5"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP6"; $name; $tr71_1; $tr71_2; $tr71_3; \
```

```
local mem "AXP_SM_CHAR_REMAP7"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP8"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP9"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP10"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP11"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP12"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP13"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP14"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP15"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP16"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP17"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP18"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP19"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP20"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP21"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP22"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP23"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP24"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP25"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP26"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP27"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP28"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP29"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP30"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_CHAR_REMAP31"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_FLOW_TABLE_MEM"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_COUNTERS_MEM0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_COUNTERS_MEM1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_COUNTERS_MEM2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_COUNTERS_MEM3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_MEM0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_MEM1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_MEM2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_MATCH_TABLE_MEM3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_PACKET_BUFFER_MEM"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM0"; $name; $tr71_1; $tr71_2; $tr71_3; \
```

```
local mem "AXP_SM_STATE_TABLE_MEM1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM5"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM6"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "AXP_SM_STATE_TABLE_MEM7"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'AXP_WLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WRX_WCD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip EGR Flex Stats Mem Verfication for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "EGR_FLEX_CTR_COUNTER_TABLE_0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_5"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_COUNTER_TABLE_6"; $name; $tr71_1; $tr71_2; $tr71_3; \
```

```
local mem "EGR_FLEX_CTR_COUNTER_TABLE_7"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_5"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_6"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_OFFSET_TABLE_7"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_PKT_PRI_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_PKT_RES_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_PORT_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_PRI_CNG_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "EGR_FLEX_CTR_TOS_MAP"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip REGEX Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "FT_AGE_PROFILE"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_DST_LAG_CONFIG"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_DST_PORT_CONFIG"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_EOP_TBL"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_EXPORT_CNTR_ONLY"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_EXPORT_DATA_ONLY"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_EXPORT_FIFO"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_L4PORT"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_POLICY"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_SESSION"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "FT_SESSION_IPV6"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

# IBOD_xxx memories are not supported in TDMA. Explicit check prevents it.
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip ING Flex Stats Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "ING_FLEX_CTR_COUNTER_TABLE_0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_5"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_6"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_COUNTER_TABLE_7"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_0"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_1"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_2"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_3"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_4"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_5"; $name; $tr71_1; $tr71_2; $tr71_3; \
```

```
local mem "ING_FLEX_CTR_OFFSET_TABLE_6"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_OFFSET_TABLE_7"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_PKT_PRI_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_PKT_RES_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_PORT_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_PRI_CNG_MAP"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "ING_FLEX_CTR_TOS_MAP"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L2_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
local mem 'L2_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L3_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
local mem 'L3_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'LLS_L0_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'LLS_L1_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_EMPTY_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_HEADS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;

#local mem 'LMEP'; $name; $tr71_1; $tr71_2; $tr71_3; <- pr=19665 - hw issue
# Skip OAM Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "LMEP_DA"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip OAM Mem Verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "MAID_REDUCTION"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "MA_INDEX"; $name; $tr71_1; $tr71_2; $tr71_3; \
local mem "MA_STATE"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'AGING_CTR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AGING_EXP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA8'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'CBPDATA9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA48'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA51'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK0'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MMU_CFAP_BANK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_COLOR_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_MC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_UC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'BASE_INDEX_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MERGE_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OFFSET_MAP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PFC_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ST_TRANS_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_RVD_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TBID_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TOV_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO11'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO52'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO56'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO58'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO60'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO61'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO52_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTHDR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PQE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CPQST_QLEN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CPQST_TSSLS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_QFBTB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_SITB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_CFIFO_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_CFIFO_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'RDE_DESCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_FREELIST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PRCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_HEAD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IPMC_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UCQ_WP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMULINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_QGROUP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip OAM Mem verification for non supporting SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "OAM_LM_COUNTERS"; $name; $tr71_1; $tr71_2; $tr71_3;
local mem "OAM_OPCODE_CONTROL_PROFILE"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

# Skip OAM Mem Verification for specific SKUs
if !$?BCM56345_A0 && !$?BCM56346_A0 \
'local mem "RMEP"; $name; $tr71_1; $tr71_2; $tr71_3;'

local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_OFFSET_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr71_1; $tr71_2; $tr71_3; - RO memory
local mem 'SER_MEMORY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
# Since this is a subset of the HX4 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hx4_mem.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CMICm peripherals commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cmicm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: assert.c,v 1.9 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/assert.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.152 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IP Multicast API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ipmc.c
No license file was found, but licenses were detected in source scan.

```
# $Id: tdsanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

if $?BCM56743_A0 || $?BCM56743_A1 || $?BCM56743_A2 || $?BCM56743_A3 || \
  $?BCM56743_A4 || $?BCM56743_B0 || $?BCM56743_B1 \
   'local titan 1'
if $?BCM56745_A0 || $?BCM56745_A1 || $?BCM56745_A2 || $?BCM56743_A5 || \
  $?BCM56745_A4 || $?BCM56745_B0 || $?BCM56745_B1 \
   'local titan 1'
if $?BCM56744_A0 || $?BCM56744_A1 \
   'local titan 1'
```

```
if $?BCM56746_A0 || $?BCM56746_A1 \
   'local titan 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
```

```
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';

init soc;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr50;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GM_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'IARB_MAIN_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN0'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN1'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr50;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr50;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'L2_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA52'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA53'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA54'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA55'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA56'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA60'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA61'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA62'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA63'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA64'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA65'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA66'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA67'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA68'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA69'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA70'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA71'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA72'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA73'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA74'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA75'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA76'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA77'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA78'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA79'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA80'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA81'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA82'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA83'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA84'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA85'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA86'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA87'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA88'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA89'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA90'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA91'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA92'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA93'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA94'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA95'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA96'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA97'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA98'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA99'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA100'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA101'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA102'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA103'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK2'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK3'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CPQLINK'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP1'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP2'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP3'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP4'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP5'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP6'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IPMC_GROUP7'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP8'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP9'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP10'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP11'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP12'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP13'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP14'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP15'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP16'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP17'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP18'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP19'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP20'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP21'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP22'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP23'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP24'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP25'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP26'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP27'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP28'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP29'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP30'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP31'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP32'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP33'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP34'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP35'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP36'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP37'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP38'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP39'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP40'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP41'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP42'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP43'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP44'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP45'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP46'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP47'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP48'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP49'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP50'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP51'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP52'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP53'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP54'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IPMC_GROUP55'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP56'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP57'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP60'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP61'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP62'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP63'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP64'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP65'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO62'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO63'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO64'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO65'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQCFG'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_RP'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ1'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr50;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDO_OFFSET_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MAC'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;

init soc
init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
```

```
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GM_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_MAIN_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MPLS_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MAC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;

init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
if !$?titan \
  'echo "Running L2 insert/delete/lookup test ..." \
   tr 32 \
   $done'

if !$?titan \
  'echo "Running L2 overflow insert test ..." \
   tr 33 \
   $done'

if !$?titan \
  'echo "Running L2 hash test ..." \
   tr 34 \
   $done'

if !$?titan \
  'echo "Running L2 delete by port test ..." \
   tr 35 \
   $done'

if !$?titan \
  'echo "Running L2 delete by vlan test ..." \
```

```
    tr 36 \
    $done'

if !$?titan \
   'echo "Running IPV4 overflow insert test ..." \
    tr 87 IPMCEnable=False \
    tr 87 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV4 hash test ..." \
    tr 88 IPMCEnable=False \
    tr 88 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 overflow insert test ..." \
    tr 85 IPMCEnable=False \
    tr 85 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 hash test ..." \
    tr 86 IPMCEnable=False \
    tr 86 IPMCEnable=True \
    $done'

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 Hash=0
tr 101 Hash=1
tr 101 Hash=2
tr 101 Hash=3
tr 101 Hash=4
tr 101 Hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 Hash=0
tr 103 Hash=1
tr 103 Hash=2
tr 103 Hash=3
```

```
tr 103 Hash=4
tr 103 Hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 Hash=0
tr 105 Hash=1
tr 105 Hash=2
tr 105 Hash=3
tr 105 Hash=4
tr 105 Hash=5
$done

echo "Running MDIO Linkscan test"
tr 60
$done

if !$?titan \
   'echo "Testing CPU DMA loopback ..." \
    tr 17 \
    $done'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=10G
$done

#PHY Loopback
```

```
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=10G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
if !$?titan \
  'echo "Running internal snake on all ports, MAC loopback ..." \
   tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe \
   $done'

if !$?titan \
  'echo "Running internal snake on all ports, PHY loopback ..." \
   tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe \
   $done'

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=xe
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tdsanity.soc

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_fabric.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_fabric.h
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: pkg_c3_lib_c.stg,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Author: vn-1109210841
*
* C3Asm3__PkgInt.c
*
* Support library for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/asm3/asm3_pkg_intf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    eth_lm_dm_sdk_pack.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/eth_lm_dm_sdk_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_h_ext_sim.stg,v 1.10 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_tmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_tmu_sim.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_ce_instruction.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_ce_instruction.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allfields.h
* Purpose: Field declarations for memory and registers
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
```

```
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/allfields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmrangemgr2.c,v 1.1.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr/nlmrangemgr2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.94 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.c
* Purpose:
* Requires:
*
* Notes on internals:
*    The basic tx function is bcm_tx.  In this case, a chain
*    corresponds to a single packet.  The done chain interrupt (dv done)
*    is used to indicate the end of packet for async transmission.
*
*    Arrays may be transmitted using bcm_tx_array; similarly, linked lists
*    can be transmitted with bcm_tx_list.  In both cases, the
*    tx_dv_info_t structure is associated with the DV.  Currently,
*    only one call back is supported for a chain of packets.  It
*    wouldn't be too difficult to have a per packet callback using
*    the packet's call back member.
*/
/* Fill brcm proprietary tag */
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_combo16.c,v 1.1.2.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR4 & GDDR5 Memory Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/shmoo_combo16.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ocm.c,v 1.47.10.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:       ocm.c
* Purpose: Caladan3 on chip memory drivers
* Requires:
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ocm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_0Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_0Entry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_mymac.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_mymac.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xasync.c
* Purpose: Asynchronous BCMX API routines
* Generator: mkdispatch 1.54
* Generated: Thu Feb 21 13:03:48 2013
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/async.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: multicast.h,v 1.8 Broadcom SDK $
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: multicast header file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/sirius/multicast.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Symbol table file for the BCMI_TSCE_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
```

```
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/bcmi_tsce_xgxs_resetval.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_lif.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/QAX_PP/qax_pp_lif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmutility.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmutility.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56624_a0.c
* Purpose:    bcm56624_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56624_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyctrl.h,v 1.170 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyctrl.h
*
* Data structures and function prototypes for PHY register access.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phyctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbal)internal.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueParamEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQueueParamEntry.hx
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

echo "testsuite: started: sanity"
#
# Check current unit is attached
#

if !"expr $?pcidev != 1" " \
 echo 'Error: Current unit is not attached' ; \
```

```
 exit ; \
"

# QE2000
if !"expr $pcidev == 0x300" \
       "tr 107 reinit=0"

# C1 on Polaris board
if !"expr $pcidev == 0x0380" && !"expr $unit == 2" \
 "tr 119; tr 118; tr 114; tr 116; tr 107"

if !"expr $pcidev == 0x0380" && !"expr $unit == 1" \
 "tr 114; tr 116; tr 107"

# C2 board
if !"expr $pcidev == 0x0580" \
 "tr 119; tr 118; tr 114; tr 116; tr 107"

# polaris, reg r/w test, SFI/SCI prbs to QE
if !"expr $pcidev == 0x0480" \
 "tr 111; tr 110"

tl
local returnCode $?

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sbxsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* SiliconBackplane Chipcommon core hardware definitions.
*
* The chipcommon core provides chip identification, SB control,
* jtag, 0/1/2 uarts, clock frequency control, a watchdog interrupt timer,
* gpio interface, extbus, and support for serial and parallel flashes.
*
* $Id: sbchipc.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbchipc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpOneBitEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpOneBitEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: dnx_multicast_egress.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_multicast_egress.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Link Scan
*
* Linkscan should always run for all chips in a system. It manages
* the current chip LINK state (EPC_LINK or equivalent), and programs
* MACs to match auto-negotiated links.
*
* Linkscan is also responsible for determining the link up/down
* status for a port. Since link down events signaled by most PHYs are
* latched low and cleared on read, it is important that accesses to
* to the PHY itself be managed carefully. Linkscan is intended to be
* the only process that reads the actual PHY (using
* _bcm_port_link_get). All other calls to retrieve link status
* results in calls to _bcm_robo_link_get which returns the linkscan view
* of the link status. This ensures linkscan is the only process that
* reads the actual PHYs.
*
* All modifications to the linkscan state are protected by LC_LOCK.
*
```

```
* Linkscan maintains the following port bitmaps
*
*    lc_pbm_link:
*            Current physical link up/down status. When a bit
*            in this mask is set, a link up or link down event
*            is recognized and signaled to any registered
*            handlers.
*
*    lc_pbm_link_change:
*            Mask of ports that need to recognize a link
*            down event. Ports are added to this mask by the
*            function bcm_link_change.
*
*    lc_pbm_override_ports:
*            Bit map of ports that are currently
*            being explicitly set to a value. These actual value
*            is determined by lb_pbm_override_link. Ports are
*            added and removed from this mode by the routine
*            _bcm_link_force.
*
*            Ports that are forced to an UP state do NOT result
*            in a call to bcm_port_update. It is the
*            responsibility of the caller to configure the
*            correct MAC and PHY state.
*
*    lc_pbm_override_link:
*            Bit map indicating the link-up/link-down
*            status for those ports with override set.
*
* Calls to _bcm_robo_link_get always returns the current status as
* indicated by lc_pbm_link.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_multicast_applications.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mutlicast_applications.c
* Purpose: Example of multicast application for TM users.
*
* The Configuration enables creating two types of multicast groups:
*     o   Port level
```

```
*     o   Device level
*
* In port-level scheduled MC, the configuration results in a fully scheduled MC scheme.
* Its drawback is that it consumes the most resources
* (that is, ingress memory MC linked-lists, VoQs, fabric utilization, and scheduling elements at the egress).
* See cint_multicast_application_port_lvl_example.c for application-based example.
*
* In the Device-level scheduled MC, configuration results in a partially scheduled MC scheme.
* It consumes relatively few resources. It is a viable compromise between port-level scheduled MC
* and Fabric MC. See cint_multicast_application_device_lvl_example.c for application-based example.
*
* The MC configurations above require opening MC groups in the ingress and egress FAPs.
* The following MC configuration types can be specified:
*     o   Ingress Port-Level Scheduled: Sets the ingress FAP configuration for Port-Level Scheduled MC.
*     o   Ingress Device-Level Scheduled: Sets the ingress FAP configuration for Device-Level Scheduled MC.
*
* The Configuration assumes only one Soc_petra-B device and ERP port (for device level) is enabled.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_multicast_applications.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_stat.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC ARAD FABRIC STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_stat.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/qe2k/sbZfKaQsPriLutAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2.h,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/trident2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: onu.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     onu.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/onu.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_dino_functions.c                                  *
*  Created On    :  29/04/2013                                               *
*  Created By    :  Kiran Divakar                                            *
*  Description   :  APIs for Serdes IPs                                      *
*  Revision      :  $Id: merlin_dino_functions.c 1404 2016-04-14 22:49:19Z cvazquez $ *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
```

```
*  company private proprietary, and trade secret.                    *
*                                                                    *
*************************************************************************
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_functions.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
*************************************************************************
*  File Name     :  falcon2_madura_field_access.h                       *
*  Created On    :  29/04/2013                                          *
*  Created By    :  Kiran Divakar                                       *
*  Description   :  Serdes IP Register and Field access APIs            *
*  Revision      :  $Id: falcon2_madura_field_access.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                           *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                                *
*                                                                       *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                       *
*                                                                       *
*************************************************************************
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcmap_cmn.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/fcmap_cmn.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: chip.h,v 1.64.18.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chip.h
* Purpose:     Defines for chip types, etc.
* Requires:    soctypes.h, memory, register and feature defs.
*
* System on Chip (SOC) basic structures and typedefs
* Each chip consists of a number of blocks.  Each block can be
* a port interface controller (PIC) that contains ports.
* The mcm/bcm*.i files contain definitions of each block and port
* in the associated chip.  The structures used in those files
* are defined here.  They are used to build internal use data
* structures defined in soc/drv.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/chip.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport_mgmt_sw_db.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_alloc.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/gport_mgmt_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_2xhg10_4x1g_1xil50.h,v 1.1.2.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_2xhg10_4x1g_1xil50.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVIT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibVIT.h
*
* <pre>
*
* ====================================================================
* ==  sbZfSbQe2000ElibVIT.h - VLAN Indirection Record Table ZFrame  ==
* ====================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibVIT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibVIT.h
*
* ABSTRACT:
*
*     VLAN Indirection Record Table ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
```

* CREATION DATE:
*
* 19-January-2005
* </pre>
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVIT.hx
No license file was found, but licenses were detected in source scan.

/*
****
*
* Copyright 2000,2001
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license to Wind River Systems, Inc.
* and may be used only in accordance with the terms and conditions
* of this license. No title or ownership is transferred hereby.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250JTAGSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250DuartSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250DuartSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250SmBus.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250Timer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sysBcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sysBcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250Timer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250SmBus.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250JTAGSio.c
No license file was found, but licenses were detected in source scan.

/**********

```
* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
 flow

File Name:
   trnsmit_and_QM_cfg.h

File Description:

$Revision: 1.1.2.1 $  - Visual SourceSafe revision number

History:
   Date           Name           Comment
   ----           ----           -------
   5/2/2001  Uri
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/flow/trnsmit_and_QM_cfg.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                            *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1251 2015-11-18 22:47:25Z abhished $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/common/srds_api_err_code.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/public/srds_api_err_code_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTSingle.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTSingle.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkSdkInitApi.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkSdkInitApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkSdkInitApi.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: phy8806x_tsc_fields.h 925 2015-02-24 23:23:58Z kirand $ *
*                                                                                       *
*  Description   :  Register access macros for PHY8806X_TSC                            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
```

```
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_fields.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code_public.h 1078 2015-07-07 23:43:37Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*     Broadcom Corporation                                                 *
*     5300 California Avenue                                               *
*     Irvine, CA  92617                                                    *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/public/srds_api_err_code_public.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                          *
*  Revision    :  $Id: merlin_sesto_interface.h 869 2015-01-23 00:24:44Z kirand $   *
*                                                                          *
*  Description :  Interface functions targeted to IP user                  *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*     Broadcom Corporation                                                 *
*     5300 California Avenue                                               *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                          *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/merlin_sesto/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* merlin_sesto_interface.h - provides the primary functionality.
*
* merlin_sesto_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils_arad_card.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       utils_arad_card.h
* Purpose:     arad card Utilities Header.
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_arad_card.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod_main.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  Copyright: (c) 2012 Broadcom Corp.
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  File       : tscmod_main.c
*  Description: Implements function that selects the tier 1
*             : It is the main entry point to the TSC serdes driver.
*---------------------------------------------------------------------- */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod_main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0_1Entry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_0_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Time - Broadcom Time BroadSync API (Petra).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/time.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/time.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_1Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_ucode.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wcmod_ucode_warpLite_revA0.c
* Purpose:     Firmware used by Warpcore/WarpLite micro-Controller.
*--------------------------------------------------
*          Version 0103 (CRC: 0x69A2)
*--------------------------------------------------
* 1) Enabled support for 12G optical application.
*
*--------------------------------------------------
*          Version 0102 (CRC: 0x0E22)
*--------------------------------------------------
* 1) Fixed initialization of CL72 variables upon LOS.
*
*--------------------------------------------------
*          Version 0101 (CRC: 0x9c60)
*--------------------------------------------------
* 1) Enhanced CL72 OS->BR transition criterion.
* 2) Improved OSDFE mode phase optimization loop on
*  mid to long channels when a small pre-cursor is
*  present at the link partner.
*
*--------------------------------------------------
*          Version D203 (CRC: 0x88FA)
*--------------------------------------------------
*
* 1) Enhanced main PF tuning for certain short channels.
*
*--------------------------------------------------
*          Version D202 (CRC: 0x94F1)
```

```
*-------------------------------------------------
* 1) JIRA CRWARPCORE3-31
*  Improved transient state protection on polling
*  variables.
*
*-------------------------------------------------
*          Version D201 (CRC: 0xECE8)
*-------------------------------------------------
*
* 1) Enabled full support for OSx2 CDR with DFE operation.
* 2) JIRA CRWARPCORE3-26
*  Fixed OSx2 horizontal eye margin extrapolation.
* 3) JIRA CRWARPCORE3-29
*  Optimized CL72 equations to handle long channels
*  of IL>30dB
* 4) JIRA CRWARPCORE3-27
*  Removed BG/VddR autoselect (not needed for WL/WC3).
* 5) Optimized p1 slicer offset tuning to improve 2D eye
*  vertical symmetry.
*
*-------------------------------------------------
*          Version D10A (CRC: 0xC4B0)
*-------------------------------------------------
*
* 1) JIRA CRWARPCORE3-12
*  Fixed sensitivity of resolved TXFIR taps during
*  Clause 72 to high temperature. This fix improves
*  cross talk tolerance for certain long channels.
* 2) JIRA CRWARPCORE3-17
*  Patch to fix micro command based VGA/DFE freezing
*  and unfreezing problem.
* 3) JIRA CRWARPCORE3-21
*  Added glitch protection for peaking filter updates
*  after PMD lock in XFI & XLAUI modes. This fix
*  improves BER in XFI & XLAUI modes.
* 4) JIRA CRWARPCORE3-23
*  Fixed slicer separation in OSx2 (used in XAUI) modes.
*  This fix improves BER and jitter tolerance in OSx2
*  modes.
* 5) JIRA CRWARPCORE3-24
*  Added firmware_mode to allow temperature based
*  peaking filter compensation in SFP and nPPI Optics.
*
*-------------------------------------------------
*          Version D109 (CRC: 0x0229)
*-------------------------------------------------
*
* 1) Updated peaking filter equations for KR modes.
```

```
*  This fix improves BER for backplane modes.
* 2) Updated temperature compensation tables for KR/CL72.
*  This fix improves BER for backplane modes.
* 3) Fixed saturation logic of live-link diagnostics.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* The general level I2C driver for KeyStone I2C interface.
*
* The I2C interfaces (two I2C I/O ports) in Keystone can support the I2C
* features are :
*  1. Speed mode :
*      - Standard Mode (SM): 100 kbit/s
*      - Fast Mode(FM) : 400 kbit/s
*      - High-speed Mode(HM) : 3.4 mbit/s
*  2. M/S mode :
*      - Master Mode :
*      - Slave Mode : HW supported but SW is not supported yet.
*      - Mix Mode : In the case for Multi-Master connected on the I2C bus.
*                SW is not supported yet.
*  3. Addressing mode.
*      -7 bits Mode : default supported.
*      - 10 bits mode : HW supportd but SW is not supported yet.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: chipc_i2c.c,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/chipc_i2c.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm956504r48.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        bcm956504r48.c
* Purpose:     BCM956504R48 and similar Dual Firebolt and similar
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/bcm956504r48.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_mpls.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_mpls.c
* Purpose: Maintains all the debug information for mpls
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mpls/trident2_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-knet-kcom.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  kcom.c
* Purpose:  Provides a kcom interface using device IOCTL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/bcm-knet-kcom.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0_1EntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_0_1EntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: port.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       src/bcmx/port.c
* Purpose:     BCMX port APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dma.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ism.h,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ISM management routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ism.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_policer_metering_example.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_policer_metering_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ecn.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ECN - Broadcom StrataSwitch ECN API internal definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/ecn.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_conv.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_conv.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_conv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: error.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Error translation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/error.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    PTP_feature.h
*
* Holds SDK features version info, to be shared with PTP FW
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/PTP_feature.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_tmu.c,v 1.73 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_tmu.c
* Purpose: Caladan3 TMU test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_tmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/mem.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#

# run g3p1 ucode
diag_emulator_partial_init=0
#lrp_bypass=2
load_firmware=0x1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a
```

```
# ucode port definition
ucode_num_ports.0=7
ucode_port.port1.0=clport0.xle.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xe.1.0:il1.il100.0.1
ucode_port.port3.0=clport0.xe.1.1:il1.il100.0.2
ucode_port.port4.0=clport0.xe.1.2:il1.il100.0.3
ucode_port.port5.0=clport0.xe.1.3:il1.il100.0.4
ucode_port.port6.0=clport0.xe.2.0:il1.il100.0.5
ucode_port.port7.0=clport0.xe.2.1:il1.il100.0.6

# C3 Line side
# 40G xe port lane map
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032
xgxs_rx_lane_map_xe5=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe5=0x1032

# 40G xe rx/tx polarity
phy_xaui_rx_polarity_flip_xe0=0x0009
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0000
phy_xaui_rx_polarity_flip_xe8=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0003
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0000
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0001


#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_il1=0x1032
xgxs_rx_lane_map_core1_il1=0x3210
xgxs_rx_lane_map_core2_il1=0x1032

xgxs_tx_lane_map_core0_il1=0x1032
```

```
xgxs_tx_lane_map_core1_il1=0x3210
xgxs_tx_lane_map_core2_il1=0x1032

higig2_hdr_mode_hg0=0
port_init_speed_il0=10312

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
```

ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999
ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a

ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-1x40g_6x10g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: ptp_common.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ptp_common.h
* Purpose: Common PTP API functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ptp_common.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File:       l2.h
* Purpose:     L2 internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/l2.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ac_1to1_coupled_protection.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ac_1to1_coupled_protection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry poit for Crash Recovery feature
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_crash_recovery.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_crash_recovery.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.127 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Manages MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/mpls.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.h,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       link.h
* Purpose:     Hardware Linkscan module definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ipv6_fap.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPv6 Example script
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipv6_fap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCurvesTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredCurvesTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_micro_seq.h 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_micro_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_defines.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM macro values for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/trident2p/tdm_td2p_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashInputW0.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashInputW0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_pgm.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_low_level_pgm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trie.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* trie data structure
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/trie.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_vlan.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_vlan.c
* Purpose: Maintains all the debug information for vlan
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vlan/trident2plus_vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_appl.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       llm_appl.c
* Purpose:     LLM application routines for:
*             - llm Control application
*             - Network Packet headers (PDUs)
*
*
* LLM control application
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/llm_appl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :   *
```

```
*                                                                    *
*  Description   :  API Dependencies to be provided by IP user                    *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                              *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
**************************************************************************************
**************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_dependencies.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    failover.c
* Purpose: Handle trident2plus specific failover APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2BEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2BEntry.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: aiutils.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/aiutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmPortsetLinkEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmPortsetLinkEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_reg_access.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_reg_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvram.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/nvram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socend.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: socend.h
* Purpose: Defines SOC private device control structure for
*  VxWorks SENS driver.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/socend.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_iarb.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip specific IARB arbitration schedules
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_iarb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmexterncstart.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmexterncstart.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
```

```
*
* Definition file for the BCMI_TSCF_16NM_XGXS.
* This file provides all basic definitions required to program the BCMI_TSCF_16NM_XGXS.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tscf_16nm_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etu_tcam.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tcam.c
* Purpose:     external TCAM access
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/etu/etu_tcam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: typedefs.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/typedefs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pci.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PCI Local Bus: constants, structures, and SAL procedure calls
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/pci.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcVlanApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcVlanApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcVlanApi.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Symbol table file for the PHY8806X.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/src/phy8806x_syms.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.1620 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     API for Field Processor (FP) for XGS3 family and later.
*
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/field_common.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.h
* Purpose:     Internal structures and definitions for RX module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/rx.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 2x10g+32x1g
# $Id: Broadcom SDK $



# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

#
# ucode ports definition
#

ucode_num_ports.0=36


# ====================================================
# WC 0
# ====================================================
# Lane 0
#
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
```

```
# Lane 1
#
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1


# Lane 2
#
# Not used
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2


# Lane 3
#
# Not used
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3


# ====================================================
# WC 1
# ====================================================
# Lane 0
ucode_port.port5.0=xtport0.ge.0.4:clport1.hg126.0.4
ucode_port.port6.0=xtport0.ge.0.5:clport1.hg126.0.5
ucode_port.port7.0=xtport0.ge.0.6:clport1.hg126.0.6
ucode_port.port8.0=xtport0.ge.0.7:clport1.hg126.0.7

# Lane 1
ucode_port.port9.0=xtport0.ge.0.8:clport1.hg126.0.8
ucode_port.port10.0=xtport0.ge.0.9:clport1.hg126.0.9
ucode_port.port11.0=xtport0.ge.0.10:clport1.hg126.0.10
ucode_port.port12.0=xtport0.ge.0.11:clport1.hg126.0.11

# Lane 2
ucode_port.port13.0=xtport1.ge.0.0:clport1.hg126.0.12
ucode_port.port14.0=xtport1.ge.0.1:clport1.hg126.0.13
ucode_port.port15.0=xtport1.ge.0.2:clport1.hg126.0.14
ucode_port.port16.0=xtport1.ge.0.3:clport1.hg126.0.15

# Lane 3
ucode_port.port17.0=xtport1.ge.0.4:clport1.hg126.0.16
ucode_port.port18.0=xtport1.ge.0.5:clport1.hg126.0.17
ucode_port.port19.0=xtport1.ge.0.6:clport1.hg126.0.18
ucode_port.port20.0=xtport1.ge.0.7:clport1.hg126.0.19


# ====================================================
```

```
# WC 2
# ====================================================
# Lane 0
ucode_port.port21.0=xtport1.ge.0.8:clport1.hg126.0.20
ucode_port.port22.0=xtport1.ge.0.9:clport1.hg126.0.21
ucode_port.port23.0=xtport1.ge.0.10:clport1.hg126.0.22
ucode_port.port24.0=xtport1.ge.0.11:clport1.hg126.0.23

# Lane 1
ucode_port.port25.0=xtport2.ge.0.0:clport1.hg126.0.24
ucode_port.port26.0=xtport2.ge.0.1:clport1.hg126.0.25
ucode_port.port27.0=xtport2.ge.0.2:clport1.hg126.0.26
ucode_port.port28.0=xtport2.ge.0.3:clport1.hg126.0.27

# Lane 2
ucode_port.port29.0=xtport2.ge.0.4:clport1.hg126.0.28
ucode_port.port30.0=xtport2.ge.0.5:clport1.hg126.0.29
ucode_port.port31.0=xtport2.ge.0.6:clport1.hg126.0.30
ucode_port.port32.0=xtport2.ge.0.7:clport1.hg126.0.31

# Lane 3
ucode_port.port33.0=xtport2.ge.0.8:clport1.hg126.0.32
ucode_port.port34.0=xtport2.ge.0.9:clport1.hg126.0.33
ucode_port.port35.0=xtport2.ge.0.10:clport1.hg126.0.34
ucode_port.port36.0=xtport2.ge.0.11:clport1.hg126.0.35


#==========================================================================


# Required so phy comes up in SGMII and NOT QSGMII
#serdes_qsgmii_sgmii_override_ge0=2



diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

phy_fiber_pref_ge=1
phy_automedium_ge=1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_ge0=0x3210
xgxs_rx_lane_map_ge16=0x1032

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_ge0=0x1032
```

```
xgxs_tx_lane_map_ge16=0x3210

phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000



phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0001
phy_xaui_rx_polarity_flip_ge11=0x0001
phy_xaui_rx_polarity_flip_ge12=0x0001
phy_xaui_rx_polarity_flip_ge13=0x0001
phy_xaui_rx_polarity_flip_ge14=0x0001
phy_xaui_rx_polarity_flip_ge15=0x0001
phy_xaui_rx_polarity_flip_ge16=0x0001
phy_xaui_rx_polarity_flip_ge17=0x0001
phy_xaui_rx_polarity_flip_ge18=0x0001
phy_xaui_rx_polarity_flip_ge19=0x0001
phy_xaui_rx_polarity_flip_ge20=0x0001
phy_xaui_rx_polarity_flip_ge21=0x0001
phy_xaui_rx_polarity_flip_ge22=0x0001
phy_xaui_rx_polarity_flip_ge23=0x0001
phy_xaui_rx_polarity_flip_ge24=0x0001
phy_xaui_rx_polarity_flip_ge25=0x0001
phy_xaui_rx_polarity_flip_ge26=0x0001
phy_xaui_rx_polarity_flip_ge27=0x0001
phy_xaui_rx_polarity_flip_ge28=0x0001
phy_xaui_rx_polarity_flip_ge29=0x0001
phy_xaui_rx_polarity_flip_ge30=0x0001
phy_xaui_rx_polarity_flip_ge31=0x0001
#
#
```

```
#
#
phy_port_primary_and_offset_ge0=0x1000
phy_port_primary_and_offset_ge1=0x1001
phy_port_primary_and_offset_ge2=0x1002
phy_port_primary_and_offset_ge3=0x1003
phy_port_primary_and_offset_ge4=0x1004
phy_port_primary_and_offset_ge5=0x1005
phy_port_primary_and_offset_ge6=0x1006
phy_port_primary_and_offset_ge7=0x1007
phy_port_primary_and_offset_ge8=0x1800
phy_port_primary_and_offset_ge9=0x1801
phy_port_primary_and_offset_ge10=0x1802
phy_port_primary_and_offset_ge11=0x1803
phy_port_primary_and_offset_ge12=0x1804
phy_port_primary_and_offset_ge13=0x1805
phy_port_primary_and_offset_ge14=0x1806
phy_port_primary_and_offset_ge15=0x1807
phy_port_primary_and_offset_ge16=0x2000
phy_port_primary_and_offset_ge17=0x2001
phy_port_primary_and_offset_ge18=0x2002
phy_port_primary_and_offset_ge19=0x2003
phy_port_primary_and_offset_ge20=0x2004
phy_port_primary_and_offset_ge21=0x2005
phy_port_primary_and_offset_ge22=0x2006
phy_port_primary_and_offset_ge23=0x2007
phy_port_primary_and_offset_ge24=0x2800
phy_port_primary_and_offset_ge25=0x2801
phy_port_primary_and_offset_ge26=0x2802
phy_port_primary_and_offset_ge27=0x2803
phy_port_primary_and_offset_ge28=0x2804
phy_port_primary_and_offset_ge29=0x2805
phy_port_primary_and_offset_ge30=0x2806
phy_port_primary_and_offset_ge31=0x2807


#phy_port_primary_and_offset_ge0=0x0000
#phy_port_primary_and_offset_ge1=0x0001
#phy_port_primary_and_offset_ge2=0x0002
#phy_port_primary_and_offset_ge3=0x0003
#phy_port_primary_and_offset_ge4=0x0004
#phy_port_primary_and_offset_ge5=0x0005
#phy_port_primary_and_offset_ge6=0x0006
#phy_port_primary_and_offset_ge7=0x0007
#phy_port_primary_and_offset_ge8=0x0800
#phy_port_primary_and_offset_ge9=0x0801
#phy_port_primary_and_offset_ge10=0x0802
#phy_port_primary_and_offset_ge11=0x0803
```

```
#phy_port_primary_and_offset_ge12=0x0804
#phy_port_primary_and_offset_ge13=0x0805
#phy_port_primary_and_offset_ge14=0x0806
#phy_port_primary_and_offset_ge15=0x0807
#phy_port_primary_and_offset_ge16=0x1000
#phy_port_primary_and_offset_ge17=0x1001
#phy_port_primary_and_offset_ge18=0x1002
#phy_port_primary_and_offset_ge19=0x1003
#phy_port_primary_and_offset_ge20=0x1004
#phy_port_primary_and_offset_ge21=0x1005
#phy_port_primary_and_offset_ge22=0x1006
#phy_port_primary_and_offset_ge23=0x1007
#phy_port_primary_and_offset_ge24=0x1800
#phy_port_primary_and_offset_ge25=0x1801
#phy_port_primary_and_offset_ge26=0x1802
#phy_port_primary_and_offset_ge27=0x1803
#phy_port_primary_and_offset_ge28=0x1804
#phy_port_primary_and_offset_ge29=0x1805
#phy_port_primary_and_offset_ge30=0x1806
#phy_port_primary_and_offset_ge31=0x1807
#



higig2_hdr_mode_hg0=1


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032



# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
```

```
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0


# System .21
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x95959797,0x99999797
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10.0=0x00a1a3a0,0x009ea19b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci10.0=0x99999292,0x98989494
ddr3_tune_rd_en_ci2.0=0x009b9b9c,0x009fa19d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000ae
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a999b,0x00979a95
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x92929898,0x97979393
ddr3_tune_rd_dqs_ci0.0=0x91919696,0x96969797
ddr3_tune_rd_en_ci4.0=0x00999999,0x00959694
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x93939393,0x93939393
```

ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_vref_ci14.0=0x0000075d
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989899,0x009a9e97
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci14.0=0x95959999,0x99999292
ddr3_tune_rd_dqs_ci2.0=0x91919797,0x96969696
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000ae
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_wl0_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci4.0=0x97979191,0x97979898
ddr3_tune_rd_en_ci8.0=0x00959596,0x009a9c98
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x90909393,0x99999898

ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x009d9d9e,0x009a9c98
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x91919191,0x91919191
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-2x10g_32x1g-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000DmaMgr.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000DmaMgr.h : FE2000 DMA Engine Driver
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000DmaMgr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_cnt.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cxp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Driver for CXP/QSFP device
*  Derived from XFP driver, more ioctls supported
*  Limited to page 0
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/cxp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag register commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/reg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: disc_int.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       disc_int.h
* Purpose:    Internal header file for discovery
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/discover/disc_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: helix4.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       helix4.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/helix4.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_ac.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56970_a0.c
* Purpose:     bcm56970_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56970_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: greyhound.h,v 1.1.8.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       greyhound.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/greyhound.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtdebugbank1Entry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank1Entry.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwQ2NPCEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQ2NPCEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwQ2NPCEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaNextPriEntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaNextPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dcb.c
* Purpose:    DCB manipulation routines
*             Provide a uniform means of manipulation of DMA control blocks
*             that is independent of the actual DCB format used in any
*             particular chip.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/dcb.c
No license file was found, but licenses were detected in source scan.

```
# $Id: rc.soc,v 1.192 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Initialization RC (run commands) file
#
#       These are default commands that are read and executed by default
#       when BCM boots up.  Typically this file is called rc.soc and resides
#       in the flash filesystem, NVRAM, or disk.
#
# Board Configuration Setting
#
#       This file uses configuration properties to know on which board
#       it is running.  Currently one of following settings must be made:
#
#       BCM95670K8          config add herc8=1
#       BCM95690K24         config add draco_b2b=1
#       BCM95690K24S        config add draco_stk=1
#       BCM95690R24         config add galahad=1
#       BCM95690R24S        config add merlin=1
#       BCM95690R48S        config add lancelot=1
#       BCM95691K12         config add draco_k12=1
#       White Knight        config add white_knight=1 (not shipping)
#       Black Knight        config add black_knight=1 (not shipping)
#       BCM95673K2S         config add twolynx=1
#       BCM95673R8          config add herculynx=1
#       BCM95673R24S        config add lynxalittle=1
#       BCM95673R48S        config add lynxalot=1
#       BCM95695P24SX_10    config add guenevere=1
#       BCM95650K24         config add magnum=1 (automatic for 5650L)
#       BCM95675            config add herc8_15=1
#       BCM95650R24         config add tuc24_ref=1
#       BCM95695P48LM       config add lm48p=1
#       BCM95695P48LM-10    config add lm48p_B=1
#       BCM956504P48LM-10   config add lm48p_C=1
#       BCM956504P48LM-20   config add lm48p_C=1
#       BCM956504P48LM-50   config add lm48p_D=1
#       BCM956504P48POEREF  config add fbpoe=1
#       BCM956504P24REF P0  config add fb24=1
#       BCM956504P24    P0  config add fb24=1
#       BCM956102P48        config add felix48=1
#       BCM953300P24REF     config add mirage24=1
#       BCM956800K20C       config add bradley_1g=1
#       BCM956700K16        config add humv=1
#       BCM956800K20        config add bradley=1
#       BCM956580K16        config add goldwing=1
#       BCM956314P24REF     config add bcm56314p24ref=1
#       BCM956024P48REF     config add BCM956024P48REF=1
#       BCM956224P48REF     config add BCM956224P48REF=1
#       BCM956224R50T       config add BCM956224R50T=1
```

```
#       BCM956024R50T       config add BCM956024R50T=1
#       BCM56820K24XG       config add BCM56820K24XG=1
#       BCM953314R24GS      config add BCM953314R24GS=1
#       BCM953314K24        config add BCM953314K24=1
#       BCM956820R24XG      config add BCM956820R24XG=1
#       BCM956160R          config add bcm956160r=1

if $?BCM56146_A0 \
   'local BCM56146 1'

if $?BCM56147_A0 \
   'local BCM56147 1'



if $?1 "echo rc: arguments not supported; exit"
if !$?unit "echo rc: no current unit; exit"

echo "rc: unit $unit device $devname"
local quiet no
local echo echo
local rcdone \$rc$unit
if !"expr $rcdone + 0" "local echo noecho; local quiet yes"

# Set convenience local variables

# simulation related
#if $?plisim \
#       "local no_bcm 1"
if $?quickturn || $?plisim \
 "local simulator 1"

if $?simulator \
   'echo -n "Chip init starts at: ";date'

# board related
if $?galahad \
 "local draco_b2b 1"
if $?black_knight || $?white_knight || $?merlin \
 "local draco_herc4 1"

#if $?QUX_A0 \
#    'echo blablabla;der 0x40 4 ; exit'

if $?FLAIR_A0 \
   'echo blablabla;der 0x40 4 ; exit'

if $?BCM88750_A0 || $?BCM88750_B0 || $?BCM88753_A0 || $?BCM88753_B0 || $?BCM88752_A0 ||
$?BCM88752_B0 ||  $?BCM88755_B0 || $?BCM88754_A0 || $?BCM88770_A1 || $?BCM88773_A1 ||
```

```
$?BCM88774_A1 || $?BCM88775_A1 || $?BCM88776_A1 || $?BCM88777_A1 || $?BCM88950_A0 ||
$?BCM88950_A1 || $?BCM88953_A1 || $?BCM88954_A1 || $?BCM88955_A1 || $?BCM88956_A1 ||
$?BCM88952_A0 || $?BCM88952_A1 || $?BCM88772_A1 \
  'rcload dfe.soc ; exit'

if $?BCM88790_A0 \
  'rcload dnxf.soc ; exit'

if $?ARAD_A0 || $?ARAD_B0 || $?ARAD_B1 || $?ARADPLUS_A0 || $?BCM88650_A0 || $?BCM88650_B0 ||
$?BCM88650_B1 || $?BCM88652_A0 || $?BCM88652_B0 || $?BCM88350_B1 || $?BCM88351_B1 || \
  $?BCM88450_B1 || $?BCM88451_B1 || $?BCM88550_B1 || $?BCM88551_B1 || $?BCM88552_B1 ||
$?BCM88651_B1 || $?BCM88654_B1 || $?BCM88660_A0 || $?BCM88360_A0 || $?BCM88361_A0 ||
$?BCM88363_A0 ||\
  $?BCM88460_A0 || $?BCM88461_A0 || $?BCM88560_A0 || $?BCM88561_A0 || $?BCM88562_A0 ||
$?BCM88661_A0 || $?BCM88664_A0  \
  'rcload arad.soc ; exit'

if $?BCM83207_A0 \
  'rcload samar.soc ; exit'
if $?BCM83208_A0 \
  'rcload sinai.soc ; exit'

if $?QAX_A0 || $?BCM88470_A0 || $?BCM88471_A0 || $?BCM88473_A0 || $?BCM88474_A0 ||
$?BCM88474H_A0 || $?BCM88476_A0 || $?BCM88477_A0 || \
  $?QAX_B0 || $?BCM88470_B0 || $?BCM88471_B0 || $?BCM88473_B0 || $?BCM88474_B0 ||
$?BCM88474H_B0 || $?BCM88476_B0 || $?BCM88477_B0 \
  'setenv QAX 1'

if $?QUX_A0 || $?BCM88270_A0 || $?BCM88272_A0 || $?BCM88273_A0 || $?BCM88278_A0 \
  'setenv QUX 1'

if $?JERICHO_A0 ||  $?BCM88670_A0 || $?BCM88671_A0 || $?BCM88671M_A0 || $?BCM88672_A0 ||
$?BCM88673_A0 || $?BCM88674_A0 || $?BCM88675_A0 || $?BCM88675M_A0 || $?BCM88676_A0 ||
$?BCM88676M_A0 || $?BCM88677_A0 || $?BCM88678_A0 || $?BCM88679_A0 || \
  $?JERICHO_A1 ||  $?BCM88670_A1 || $?BCM88671_A1 || $?BCM88671M_A1 || $?BCM88672_A1 ||
$?BCM88673_A1 || $?BCM88674_A1 || $?BCM88675_A1 || $?BCM88675M_A1 || $?BCM88676_A1 ||
$?BCM88676M_A1 || $?BCM88677_A1 || $?BCM88678_A1 || $?BCM88679_A1 || \
  $?QMX_A0     ||  $?BCM88370_A0 || $?BCM88371_A0 || $?BCM88371M_A0 || $?BCM88375_A0 ||
$?BCM88376_A0 || $?BCM88376M_A0 || $?BCM88377_A0 || $?BCM88378_A0 || $?BCM88379_A0 || \
  $?QMX_A1     ||  $?BCM88370_A1 || $?BCM88371_A1 || $?BCM88371M_A1 || $?BCM88375_A1 ||
$?BCM88376_A1 || $?BCM88376M_A1 || $?BCM88377_A1 || $?BCM88378_A1 || $?BCM88379_A1 || \
  $?JERICHO_B0 ||  $?BCM88670_B0 || $?BCM88671_B0 || $?BCM88671M_B0 || $?BCM88672_B0 ||
$?BCM88673_B0 || $?BCM88674_B0 || $?BCM88675_B0 || $?BCM88675M_B0 || $?BCM88676_B0 ||
$?BCM88676M_B0 || $?BCM88677_B0 || $?BCM88678_B0 || $?BCM88679_B0 || $?BCM88680_A0 || \
  $?QMX_B0     ||  $?BCM88370_B0 || $?BCM88371_B0 || $?BCM88371M_B0 || $?BCM88375_B0 ||
$?BCM88376_B0 || $?BCM88376M_B0 || $?BCM88377_B0 || $?BCM88378_B0 || $?BCM88379_B0 ||
$?BCM88379_A1 || \
  $?JERPLUS    ||  $?BCM88680_A0 ||  $?BCM88681_A0 ||  $?BCM88682_A0 || $?BCM88683_A0 ||
```

```
$?BCM88380_A0 ||  $?BCM88381_A0 \
   'rcload jer.soc ; exit'

if $?BCM88690_A0  \
   'rcload dnx.soc ; exit'

if $?QAX || $?QUX\
   'rcload qax.soc ; exit'


if $?BCM88202_A0 || $?ARDON_A0 || $?BCM88202_A1 || $?ARDON_A1 || $?BCM88202_A2 || $?ARDON_A2\
   'rcload atmf.soc ; exit'

if $?ACP \
   'exit'

if $?BCM88690_A0\
   'exit'

if !"expr $pcidev + 0 == 0x5650" \
 "local magnum 1"
if $?drac || $?drac15 \
 "local drac_any 1"
if $?lynx || $?lynx15 \
 "local lynx_any 1"
if $?tucana || $?magnum \
 "local tucana_any 1"
if $?herc || $?herc15 \
 "local herc_any 1"
if $?firebolt || $?firebolt2 || $?helix || \
  $?felix || $?helix15 || $?felix15 || $?raptor || $?raven || $?hawkeye\
 "local firebolt_any 1"
if !"expr $pcidev + 0 == 0xb501" \
 "local firebolt_10x4 1"
if $?easyrider \
 "local easyrider_any 1"
if !"expr $pcidev + 0 == 0xb602" \
 "local easyrider_1x1 1"
if $?bradley || $?humv || $?goldwing \
 "local bradley_any 1"
if $?drac_any || $?lynx_any || $?tucana_any \
 "local xgs12_switch 1"
if $?firebolt_any || $?easyrider_any || $?bradley_any \
 "local xgs3_switch 1"
if $?xgs12_switch || $?xgs3_switch \
 "local xgs_switch 1"
if $?herc_any \
 "local xgs_fabric 1"
```

```
if $?xgs_fabric || $?xgs_switch \
 "local xgs 1"
if !$?xgs \
 "local strata 1"
if $?strata && !$?gsl \
 "local PBMP_ALL 0x0bffffff"
if $?strata && $?gsl \
 "local PBMP_ALL 0x080000ff"
if $?BCM56214_A0 || $?BCM56014_A0 || $?BCM56215_A0 || \
  $?BCM56214_A1 || $?BCM56014_A1 || $?BCM56215_A1 && \
  !$?BCM956024P48REF \
 "local rap24_ref 1"

if $?BCM5655_A0 || $?BCM5655_B0 \
      "local tucana_nohg 1"

if $?BCM956024P48REF || $?BCM956224P48REF || $?BCM956024R50T || \
  $?BCM956224R50T \
      "local raven_eb_48p 1"

if $?BCM953314R24GS \
      "local hawkeye_p24 1"

if $?BCM953314K24 \
      "local hawkeye_k24 1"

if $?firebolt_any && $?lm48p || $?lm48p_D \
      "config add lmfb48=1"

# Set software's wait for S-Channel response to 3 seconds for QuickTurn
# (Recommend at least 10 seconds if the ARL is 100% busy with inserts.)
if $?quickturn "stimeout 3000000"
if $?plisim "stimeout 60000000"

# Direct phy led programming: 5464 activity led becomes link/activity
if $?drac_any && $?lancelot || $?lynxalot || $?guenevere \
 "config add phy_led_ctrl=0x18"

# Shutdown threads if system is already running
if $?triumph3 \
 "ibodSync off"
counter off
linkscan off
if $?feature_arl_hashed && !$?simulator \
      "l2mode off"
if $?feature_ces && $?BCM56440_A0 \
      "ces off"
```

```
# Test on-chip memory before initializing
#if !$?simulator "init soc; bist l3 arl cbp"
init soc

# Initialize miscellaneous chip registers
init misc

# Initialize external TCAM if necessary
# NOTE : tcam is initialized during "init misc" unless
#        tcam_reset_toggle = 1 is configured
if "expr $rcdone + 0" && !"expr $tcam_reset_toggle + 0" \
       "dispatch attach 0 esw 0"
if !"expr $tcam_reset_toggle + 0" "muxsel 0; muxsel 0x80"
if !"expr $tcam_reset_toggle + 0" "init tcam; $echo rc: TCAM initialized"

# Initialize the StrataSwitch MMU registers
init mmu
if $?katana2 \
  kt2config.soc


# Uncomment to turn off Single-Bit Error reporting on 5670
#if $?herc "m mmu_intcntl pp_sbe_en=0"

# Initialize Cell Free Address Pool
# NOTE: this should NOT be done unless chip is known to have bad CFAP
# memory entries that need to be mapped out.
if $?cfap_tests "$echo rc: Initializing CFAP; cfapinit"

$echo rc: MMU initialized

#
# Load uKernel
#

# Pick default FW names if not set already by config
if !$?fw_core_0 \
   'local fw_core_0 ${fw_prefix}_0_bfd_bhh.srec; \
    if $?greyhound || $?hurricane2 || $?hurricane3 "local fw_core_0 ${fw_prefix}_0_ptpfull.srec"; \
    if $?caladan3 "local fw_core_0 ${fw_prefix}_0.srec"; \
    if $?helix4 && !$?feature_bhh "local fw_core_0 ${fw_prefix}_0_bfd.srec"; \
    if $?helix4 && $?feature_bhh "local fw_core_0 ${fw_prefix}_0_bfd_bhh.srec"; \
    if $?tomahawk && !$?feature_bhh "local fw_core_0 ${fw_prefix}_0_bfd.srec"; \
    if $?tomahawk_plus && !$?feature_bhh "local fw_core_0 ${fw_prefix}_0_bfd.srec"; \
    if $?trident2plus && !$?feature_bhh "local fw_core_0 ${fw_prefix}_0_bfd.srec"; \
   '

if !$?fw_core_1 \
```

```
  'local fw_core_1 ${fw_prefix}_1_ptpfull.srec; \
   if $?caladan3 "local fw_core_1 ${fw_prefix}_1_bs.srec"; \
  '

if !$?fw_core_2 \
  "local fw_core_2 ${fw_prefix}_2_eth_lmdm.srec"

# Load the firmwares
if $?feature_cmicm && !$?rcpu_only && !$ihost_mode && !$?feature_iproc \
   "mcsload 0 ${fw_core_0} InitMCS=true; \
    mcsload 1 ${fw_core_1};"

if $?hurricane2 \
  "mcsload 0 ${fw_core_0} InitMCS=true;"

if $?feature_iproc && !$?hurricane2 && !$?hurricane3 && !$?rcpu_only && !$?feature_uc_mhost &&
!$ihost_mode\
   "mcsload 0 ${fw_core_0} InitMCS=true TwoStage=true TwoStageAddr=0x60000000;\
    mcsload 1 ${fw_core_1} TwoStage=true TwoStageAddr=0x6002c000;"

if $?feature_iproc && !$?rcpu_only && $?feature_uc_mhost && $?num_ucs\
   'if !"expr $num_ucs > 0" "mcsload 0 ${fw_core_0} InitMCS=true"; \
    if !"expr $num_ucs > 1" "mcsload 1 ${fw_core_1}"; \
    if !"expr $num_ucs > 2" "mcsload 2 ${fw_core_2}";'

#
# Init CLI and BCM API
#
# This must be done after the raw register writes to avoid having state
# clobbered.  NOTE: Tables are cleared by "init bcm" below.  If
# table modifications are required, put them after "init bcm".  Some
# registers might also be affected.
#

if !$?no_bcm \
 "init bcm; \
  $echo rc: BCM driver initialized"

if $?no_bcm \
 "$echo rc: *** NOT initializing BCM driver ***"

if $?no_bcm && $?strata \
   'write vtable 0 1 VLAN_TAG=0,PORT_BITMAP=0,UT_PORT_BITMAP=0; \
    insert vtable VLAN_TAG=1,PORT_BITMAP=$PBMP_ALL,UT_PORT_BITMAP=$PBMP_ALL; \
    local pv \
        VLAN_TAG=1,SP_ST=3,PORT_BITMAP=$PBMP_ALL,UT_PORT_BITMAP=$PBMP_ALL; \
  write ptable 0 32 PTYPE=0; \
  if !$?gsl "write ptable 0 24 $pv,PTYPE=1"; \
```

```
  if !$?gsl "write ptable 24 2 $pv,PTYPE=2"; \
  if $?gsl  "write ptable 0 8 $pv,PTYPE=2"; \
  write ptable 27 1 $pv,PTYPE=3; \
    local pv'

# Turn on mirroring of hardware ARL operations into software ARL table.
if $?feature_arl_sorted \
 "arlmode intr_dma; \
  $echo rc: ARL DMA shadowing enabled"

if $?feature_arl_hashed && !$?simulator && !$?rcpu_only \
 "l2mode interval=3000000; \
  $echo rc: L2 Table shadowing enabled"

# If running BCM library, start linkscan task and set port modes

if !$?no_bcm && !$?rcpu_only \
 "linkscan 250000; \
  port fe,ge linkscan=on autoneg=on \
  speed=0 fullduplex=true txpause=true rxpause=true; \
  port st linkscan=on txpause=false rxpause=false; \
        port xe,ce linkscan=on autoneg=off \
              speed=0 fullduplex=true txpause=true rxpause=true; \
        port hg linkscan=on fullduplex=true txpause=false rxpause=false; \
  $echo rc: Port modes initialized"

if !$?no_bcm && $?rcpu_only \
 "linkscan 250000; \
  port e linkscan=on; \
  port st linkscan=on; \
    port xe linkscan=on; \
  $echo rc: Port modes initialized"

if !$?no_bcm && $?shadow \
    "port il linkscan=on; \
   $echo rc: Interlaken Port mode initialized"

# Selectively re-enable Auto Negotiation based on config port_force_an_list.
#if $?port_force_an_list \
#    "port $port_force_an_list autoneg=on"

# No spanning tree is running, so put ports all in the forwarding state
# stp support not available for shadow device.

if !$?no_bcm && !$?shadow \
 "stg stp 1 all forward"

# Start counter task unless already started by "init bcm" above.
```

```
if $?plisim "local dma false"
if !$?plisim "local dma true"
if $?device_eb_vli "local dma false"
if $?no_bcm && !$?rcpu_only\
 "counter Interval=1000 Pbm=all Dma=$dma; \
  $echo rc: Counter collection enabled"
if $?rcpu_only \
 "counter Interval=2000000 Pbm=all Dma=false; \
  $echo rc: Counter collection enabled"

# Resynchronize the saved values kept by the 'show counter' command.
if !$?simulator \
   "counter sync"

# By default, dump data of packets that go to CPU.
if !$?testinit \
 "pw report +raw"

# Default LED processor program for various SDKs and reference designs.
# Source code can be found in $SDK/led/examples.

if !$?p48 "local ledcode '\
E0 28 60 7F 67 2F 67 6B 06 7F 80 D2 1A 74 01 12 \
7E 85 05 D2 0F 71 19 52 00 12 7D 85 05 D2 1F 71 \
23 52 00 12 7C 85 05 D2 05 71 2D 52 00 3A 68 32 \
00 97 75 3B 12 A0 FE 7F 02 0A 50 32 01 97 75 47 \
12 BA FE 7F 02 0A 50 12 BA FE 7F 95 75 59 85 12 \
A0 FE 7F 95 75 A8 85 77 9A 12 A0 FE 7F 95 75 63 \
85 77 A1 16 7C DA 02 71 A1 77 A8 32 05 97 71 76 \
06 7D D2 01 71 9A 06 7F 67 93 75 9A 32 02 97 71 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 7E D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'''  # sdk5605.hex

if $?p48 "local ledcode '\
E0 28 60 7F 67 43 67 3C 67 35 67 2F 06 7F 80 D2 \
18 74 01 28 60 7F 67 9B 67 89 67 BF 67 83 67 3C \
67 73 67 68 67 5D 06 7F 80 D2 1A 74 13 3A 70 67 \
AD 71 C3 77 BF 32 03 97 71 C3 77 BF 32 05 97 71 \
C3 77 BF 12 BA FE 7F 32 01 97 75 4F 02 06 50 32 \
00 97 75 57 02 06 50 95 75 C3 85 77 BF 67 AD 75 \
BF 32 04 97 71 C3 77 BF 67 AD 75 BF 32 03 97 71 \
C3 77 BF 67 AD 75 BF 32 03 97 71 BF 32 04 97 71 \
BF 77 C3 67 B6 71 C3 77 BF 12 A0 FE 7F 32 00 97 \
75 95 02 06 50 95 75 C3 85 77 BF 12 BA FE 7F 32 \
01 97 75 A7 02 06 50 95 75 C3 85 77 BF 06 7F 12 \
80 F8 15 1A 00 57 06 7F 12 80 F8 15 1A 07 57 32 \
0F 87 57 32 0E 87 57'''     # p48.hex
```

```
if $?herc && !$?black_knight "local ledcode '\
02 01 67 36 29 32 08 D7 87 32 07 D7 87 32 01 D7 \
87 32 00 D7 87 80 D2 09 74 02 86 7F 06 7F C2 07 \
74 24 86 7E 16 7E CA 07 E0 17 0D 12 08 98 27 D7 \
87 91 74 2D 3A 28 10 DA 07 75 3E FA 02 57 EA 06 \
57'"       # sdk5670.hex

if $?herc && $?black_knight "local ledcode '\
2A 03 32 08 D7 87 32 07 D7 87 32 01 D7 87 32 00 \
D7 87 2A 06 32 08 D7 87 32 07 D7 87 32 01 D7 87 \
32 00 D7 87 3A 08'"     # knigget.hex

if $?drac_any "local ledcode '\
E0 28 60 C3 67 4E 67 8A 06 C3 80 D2 0C 74 01 28 \
60 C3 32 00 D7 87 32 01 D7 87 32 07 D7 87 32 08 \
D7 87 32 0F 87 32 0F 87 32 0F 87 32 0F 87 12 C2 \
85 05 D2 0F 71 38 52 00 12 C1 85 05 D2 1F 71 42 \
52 00 12 C0 85 05 D2 05 71 4C 52 00 3A 38 32 00 \
97 75 5A 12 A0 FE C3 02 0A 50 32 01 97 75 66 12 \
AD FE C3 02 0A 50 12 AD FE C3 95 75 78 85 12 A0 \
FE C3 95 75 C0 85 77 B9 12 A0 FE C3 95 75 82 85 \
77 C7 16 C0 DA 02 71 C7 77 C0 32 05 97 71 9A 32 \
02 97 71 B9 06 C1 D2 01 71 B9 06 C3 67 B2 75 B9 \
32 03 97 71 C0 32 04 97 75 C7 06 C2 D2 07 71 C7 \
77 C0 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 \
32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'"  # sdk5690.hex

if $?draco_k12 "local ledcode '\
02 0B A2 01 28 A2 01 60 C3 67 32 67 6E 06 C3 90 \
75 02 12 C2 85 05 D2 0F 71 1C 52 00 12 C1 85 05 \
D2 1F 71 26 52 00 12 C0 85 05 D2 05 71 30 52 00 \
3A 30 32 00 97 75 3E 12 A0 FE C3 02 0A 50 32 01 \
97 75 4A 12 AC FE C3 02 0A 50 12 AC FE C3 95 75 \
5C 85 12 A0 FE C3 95 75 A6 85 77 9F 12 A0 FE C3 \
95 75 66 85 77 AD 16 C0 DA 02 71 AD 77 A6 32 05 \
97 71 7E 32 02 97 71 9F 06 C1 D2 01 71 9F 06 C3 \
67 96 75 9F 32 03 97 71 A6 32 04 97 75 AD 06 C2 \
D2 07 71 AD 77 A6 12 80 A2 01 F8 15 1A 00 57 32 \
0E 87 32 0E 87 57 32 0E 87 32 0F 87 57 32 0F 87 \
32 0E 87 57'"      # k12-5690.hex

if $?herc && $?white_knight "local ledcode '\
2A 03 67 0A 2A 06 67 0A 3A 08 32 08 D7 87 32 07 \
D7 87 32 01 D7 87 32 00 D7 87 57'"   # wk5670.hex

if $?herc && $?merlin "local ledcode '\
2A 03 67 0A 2A 06 67 0A 3A 08 32 08 D7 87 32 00 \
```

```
D7 87 32 01 D7 87 32 07 D7 87 57'''   # merlin5670.hex

if $?herc && $?lancelot "local ledcode '\
2A 05 67 12 2A 06 67 12 2A 03 67 12 2A 04 67 12 \
3A 10 32 08 D7 87 32 00 D7 87 32 01 D7 87 32 07 \
D7 87 57'''      # lancelot.hex

if $?xgs_fabric && $?guenevere "local ledcode '\
2A 04 67 0A 2A 05 67 0A 3A 04 32 07 D7 87 32 00 \
32 01 B7 D7 87 57'''                              # guenevere5670.hex

if $?drac_any && $?white_knight "local ledcode '\
E0 28 60 C3 67 2f 67 6B 06 C3 80 D2 0C 74 01 12 \
C2 85 05 D2 0F 71 19 52 00 12 C1 85 05 D2 1F 71 \
23 52 00 12 C0 85 05 D2 05 71 2D 52 00 3A 30 32 \
00 97 75 3B 12 A0 FE C3 02 0A 50 32 01 97 75 47 \
12 AC FE C3 02 0A 50 12 AC FE C3 95 75 59 85 12 \
A0 FE C3 95 75 A8 85 77 9A 12 A0 FE C3 95 75 63 \
85 77 A1 16 C0 DA 02 71 A1 77 A8 32 05 97 71 7B \
32 02 97 71 9A 06 C1 D2 01 71 9A 06 C3 67 93 75 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 C2 D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'''  # wk5690.hex

if $?drac_any && $?merlin "local ledcode '\
E0 28 60 C3 67 2F 67 6B 06 C3 80 D2 0C 74 01 12 \
C2 85 05 D2 0F 71 19 52 00 12 C1 85 05 D2 1F 71 \
23 52 00 12 C0 85 05 D2 05 71 2D 52 00 3A 30 32 \
00 97 75 3B 12 A0 FE C3 02 0A 50 32 01 97 75 47 \
12 AC FE C3 02 0A 50 12 AC FE C3 95 75 59 85 12 \
A0 FE C3 95 75 A8 85 77 9A 12 A0 FE C3 95 75 63 \
85 77 A1 16 C0 DA 02 71 A1 77 A8 32 05 97 71 7B \
32 02 97 71 9A 06 C1 D2 01 71 9A 06 C3 67 93 75 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 C2 D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
57 32 0F 87 32 0E 87 57 32 0E 87 32 0F 87 57'''  # merlin5690.hex

if $?drac_any && $?galahad "local ledcode '\
E0 28 60 C3 67 2F 67 6B 06 C3 80 D2 0C 74 01 12 \
C2 85 05 D2 0F 71 19 52 00 12 C1 85 05 D2 1F 71 \
23 52 00 12 C0 85 05 D2 05 71 2D 52 00 3A 30 32 \
00 97 75 3B 12 A0 FE C3 02 0A 50 32 01 97 75 47 \
12 AC FE C3 02 0A 50 12 AC FE C3 95 75 59 85 12 \
A0 FE C3 95 75 A8 85 77 9A 12 A0 FE C3 95 75 63 \
85 77 A1 16 C0 DA 02 71 A1 77 A8 32 05 97 71 7B \
32 02 97 71 9A 06 C1 D2 01 71 9A 06 C3 67 93 75 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 C2 D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
```

```
57 32 0F 87 32 0E 87 57 32 0E 87 32 0F 87 57'''  # galahad.hex

if $?drac_any && $?lm "local ledcode '\
E0 28 60 C3 67 2D 06 C3 80 D2 0C 74 01 12 C2 85 \
05 D2 0F 71 17 52 00 12 C1 85 05 D2 1F 71 21 52 \
00 12 C0 85 05 D2 05 71 2B 52 00 3A 18 32 00 97 \
75 39 12 A0 FE C3 02 0A 50 32 01 97 75 45 12 AC \
FE C3 02 0A 50 12 AC FE C3 95 75 5F 85 12 A0 FE \
C3 95 71 5C 16 C0 DA 02 71 A6 77 B4 85 77 77 12 \
A0 FE C3 95 75 6F 85 16 C0 DA 02 71 A6 77 AD 16 \
C0 DA 02 71 AD 77 B4 32 05 97 71 82 06 C1 D2 01 \
71 A6 06 C3 67 9F 75 A6 32 02 97 71 A6 32 03 97 \
71 B4 32 04 97 75 AD 06 C2 D2 07 71 AD 77 B4 12 \
80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 \
32 0F 87 57 32 0F 87 32 0E 87 57'''      # lm5690.hex

if $?twolynx "local ledcode '\
2A 01 67 0A 2A 00 67 0A 3A 08 32 08 D7 87 32 00 \
D7 87 32 01 D7 87 32 07 D7 87 57'''                # twolynx.hex

if $?lynx_any && $?herculynx || $?lynxalot || $?lm || $?guenevere \
 "local ledcode '\
12 C0 85 05 D2 03 71 0A 52 00 2A 00 67 10 3A 04 \
32 08 D7 87 06 C0 D2 01 71 22 32 0F 87 32 0F 87 \
77 2A 32 00 D7 87 32 01 D7 87 32 07 D7 87 57'''      # herculynx.hex

if $?tucana && !$?magnum "local ledcode '\
E0 67 23 D2 18 74 01 02 20 67 23 D2 38 74 09 02 \
18 67 23 D2 1C 74 11 E9 02 80 45 80 81 DA 0D 74 \
1A 3A 68 28 60 E3 67 4A 67 36 06 E4 30 87 06 E5 \
30 87 06 E3 80 57 32 00 97 71 45 32 01 97 71 45 \
02 0F 60 E5 57 02 0E 60 E5 57 06 E3 12 A0 F8 15 \
1A 00 75 59 02 0E 60 E4 57 02 0F 60 E4 57'''        # sdk5665.hex

if $?magnum && !$?tuc24_ref && !$?BCM5650_C0 "local ledcode '\
E0 28 60 FC 67 5A 67 9C 06 FA 67 DA 06 FB 67 DA \
06 FC 80 D2 1C 74 01 12 FD 85 05 D2 0F 71 21 52 \
00 12 FE 85 05 D2 1F 71 2B 52 00 12 FF 85 05 D2 \
05 71 35 52 00 E9 05 98 98 98 98 C2 0F 60 F9 05 \
88 88 88 88 C2 F0 B6 F9 50 81 DA 0C 74 36 E9 02 \
80 45 80 81 DA 0E 74 51 3A 70 32 00 97 75 66 12 \
C0 FE FC 02 0A 50 32 01 97 75 72 12 DC FE FC 02 \
0A 50 12 DC FE FC 95 75 86 85 12 C0 FE FC 95 02 \
FA 75 D7 85 77 D1 12 C0 FE FC 95 75 92 85 02 FA \
77 D4 16 FF DA 02 02 FA 71 D4 77 D7 32 05 97 71 \
A9 06 FE D2 01 02 FB 71 D1 06 FC 67 CA 02 FB 75 \
D1 32 02 97 71 D1 32 03 97 71 D7 32 04 97 75 D4 \
06 FD D2 07 02 FB 71 D4 77 D7 12 A0 F8 15 1A 00 \
```

```
57 42 00 57 42 01 57 42 02 57 D2 02 74 E3 32 0F \
87 77 E6 32 0E 87 D2 01 74 EE 32 0F 87 57 32 0E \
87 57'''                                # sdk5665.hex

if $?magnum && !$?tuc24_ref && $?BCM5650_C0 ''local ledcode ''\
E0 60 FB D2 18 75 09 A2 01 60 FC 28 67 37 67 73 \
06 FB 80 D2 1C 74 01 12 FD 85 05 D2 0F 71 21 52 \
00 12 FE 85 05 D2 1F 71 2B 52 00 12 FF 85 05 D2 \
05 71 35 52 00 3A 70 32 00 97 75 43 12 C0 FE FC \
02 0A 50 32 01 97 75 4F 12 DC FE FC 02 0A 50 12 \
DC FE FC 95 75 61 85 12 C0 FE FC 95 75 B0 85 77 \
A2 12 C0 FE FC 95 75 6B 85 77 A9 16 FF DA 02 71 \
A9 77 B0 32 05 97 71 7E 06 FE D2 01 71 A2 06 FC \
67 9B 75 A2 32 02 97 71 A2 32 03 97 71 B0 32 04 \
97 75 A9 06 FD D2 07 71 A9 77 B0 12 A0 F8 15 1A \
00 57 32 0F 87 32 0F 87 57 32 0E 87 32 0F 87 57 \
32 0F 87 32 0E 87 57'''                 # magnum_sdk.hex

if $?tuc24_ref && $?BCM5650_C0 ''local ledcode ''\
E0 60 FB D2 18 71 10 60 FC 28 67 D0 67 C0 77 19 \
A2 01 60 FC 28 67 40 67 7C 06 FB 80 D2 1C 74 01 \
12 FD 85 05 D2 0F 71 2A 52 00 12 FE 85 05 D2 1F \
71 34 52 00 12 FF 85 05 D2 05 71 3E 52 00 3A 68 \
32 00 97 75 4C 12 C0 FE FC 02 0A 50 32 01 97 75 \
58 12 DC FE FC 02 0A 50 12 DC FE FC 95 75 6A 85 \
12 C0 FE FC 95 75 B9 85 77 AB 12 C0 FE FC 95 75 \
74 85 77 B2 16 FF DA 02 71 B2 77 B9 32 05 97 71 \
87 06 FE D2 01 71 AB 06 FC 67 A4 75 AB 32 02 97 \
71 AB 32 03 97 71 B9 32 04 97 75 B2 06 FD D2 07 \
71 B2 77 B9 12 A0 F8 15 1A 00 57 32 0F 87 32 0F \
87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57 \
02 0E 32 00 97 71 CD 32 01 97 71 CD 80 30 87 57 \
06 FC 12 A0 F8 15 1A 00 02 0F 75 DD 90 30 87 57'''  # magnum.hex

if $?tuc24_ref && !$?BCM5650_C0 ''local ledcode ''\
E0 28 60 FC D2 18 71 0E 67 E9 67 D9 77 1A 67 5A \
67 9C 06 FA 67 D0 06 FB 67 D0 06 FC 80 D2 1C 74 \
01 12 FE 85 05 D2 1F 71 2B 52 00 12 FF 85 05 D2 \
05 71 35 52 00 E9 05 98 98 98 98 C2 0F 60 F9 05 \
88 88 88 88 C2 F0 B6 F9 50 81 DA 0C 74 36 E9 02 \
80 45 80 81 DA 0D 74 51 3A 68 32 00 97 75 66 12 \
C0 FE FC 02 0A 50 32 01 97 75 72 12 DC FE FC 02 \
0A 50 12 DC FE FC 95 75 86 85 12 C0 FE FC 95 02 \
FA 75 CD 85 77 C7 12 C0 FE FC 95 75 92 85 02 FA \
77 CA 16 FF DA 02 02 FA 71 CA 77 CD 32 05 97 71 \
A9 06 FE D2 01 02 FB 71 C7 06 FC 67 C0 02 FB 75 \
C7 32 02 97 71 C7 32 03 97 71 CD 32 04 97 75 CA \
12 A0 F8 15 1A 00 57 42 FF 57 42 FE 57 42 EF 57 \
```

```
30 87 98 98 98 98 30 87 57 02 0E 32 00 97 71 E6 \
32 01 97 71 E6 80 30 87 57 06 FC 12 A0 F8 15 1A \
00 02 0F 75 F6 90 30 87 57'''                    # tuc24_ref.hex

if $?herc8_15 "local ledcode '\
02 01 28 32 08 D7 87 32 07 D7 87 32 01 D7 87 32 \
00 D7 87 80 D2 09 74 02 86 7F 06 7F C2 07 74 22 \
86 7E 16 7E CA 07 E0 17 0D 12 08 98 27 D7 87 91 \
74 2B 3A 28'''                                   # sdk5675.hex

if $?drac_any && $?lm "local ledcode '\
E0 28 60 C3 67 2D 06 C3 80 D2 0C 74 01 12 C2 85 \
05 D2 0F 71 17 52 00 12 C1 85 05 D2 1F 71 21 52 \
00 12 C0 85 05 D2 05 71 2B 52 00 3A 18 32 00 97 \
75 39 12 A0 FE C3 02 0A 50 32 01 97 75 45 12 AC \
FE C3 02 0A 50 12 AC FE C3 95 75 5F 85 12 A0 FE \
C3 95 71 5C 16 C0 DA 02 71 A6 77 B4 85 77 77 12 \
A0 FE C3 95 75 6F 85 16 C0 DA 02 71 A6 77 AD 16 \
C0 DA 02 71 AD 77 B4 32 05 97 71 82 06 C1 D2 01 \
71 A6 06 C3 67 9F 75 A6 32 02 97 71 A6 32 03 97 \
71 B4 32 04 97 75 AD 06 C2 D2 07 71 AD 77 B4 12 \
80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 \
32 0F 87 57 32 0F 87 32 0E 87 57 00 00 00 00 00'''  # lm5690.hex

if $?drac_any && $?lm48p "local ledcode '\
E0 28 60 C3 67 7C 06 C3 80 28 60 C3 67 7C 67 40 \
06 C3 90 28 60 C3 67 40 06 C3 80 80 D2 0C 74 01 \
12 C2 85 05 D2 0F 71 2A 52 00 12 C1 85 05 D2 1F \
71 34 52 00 12 C0 85 05 D2 05 71 3E 52 00 3A 30 \
32 00 97 75 4C 12 A0 FE C3 02 0A 50 32 01 97 75 \
58 12 AC FE C3 02 0A 50 12 AC FE C3 95 75 6A 85 \
12 A0 FE C3 95 75 B9 85 77 AB 12 A0 FE C3 95 75 \
74 85 77 B2 16 C0 DA 02 71 B2 77 B9 32 05 97 71 \
8C 32 02 97 71 AB 06 C1 D2 01 71 AB 06 C3 67 A4 \
75 AB 32 03 97 71 B9 32 04 97 75 B2 06 C2 D2 07 \
71 B2 77 B9 12 80 F8 15 1A 00 57 32 0E 87 32 0E \
87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'''  # lm48p5695.hex

if $?drac_any && $?lm48p_B "local ledcode '\
E0 28 60 C3 67 79 06 C3 67 3D 06 C3 80 28 60 C3 \
67 3D 06 C3 67 79 06 C3 80 D2 0C 74 01 12 C2 85 \
05 D2 0F 71 27 52 00 12 C1 85 05 D2 1F 71 31 52 \
00 12 C0 85 05 D2 05 71 3B 52 00 3A 30 32 00 97 \
75 49 12 A0 FE C3 02 0A 50 32 01 97 75 55 12 AC \
FE C3 02 0A 50 12 AC FE C3 95 75 67 85 12 A0 FE \
C3 95 75 B6 85 77 A8 12 A0 FE C3 95 75 71 85 77 \
AF 16 C0 DA 02 71 AF 77 B6 32 05 97 71 89 32 02 \
97 71 A8 06 C1 D2 01 71 A8 06 C3 67 A1 75 A8 32 \
```

```
03 97 71 B6 32 04 97 75 AF 06 C2 D2 07 71 AF 77 \
B6 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 \
0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'''  # lm48p5695_10.hex

if $?firebolt_any "local ledcode '\
E0 28 60 E3 67 55 67 91 06 E3 80 28 60 E3 67 91 \
67 55 06 E3 80 D2 18 74 01 28 60 E3 67 B9 75 26 \
67 CE 67 55 77 2E 32 0E 87 32 08 87 67 C0 06 E3 \
80 D2 1C 74 19 12 E2 85 05 D2 0F 71 3F 52 00 12 \
E1 85 05 D2 1F 71 49 52 00 12 E0 85 05 D2 05 71 \
53 52 00 3A 70 32 00 97 75 61 12 A0 FE E3 02 0A \
50 32 01 97 75 6D 12 BC FE E3 02 0A 50 12 BC FE \
E3 95 75 7F 85 12 A0 FE E3 95 75 CE 85 77 C0 12 \
A0 FE E3 95 75 89 85 77 C7 16 E0 DA 02 71 C7 77 \
CE 32 05 97 71 A1 32 02 97 71 C0 06 E1 D2 01 71 \
C0 06 E3 67 B9 75 C0 32 03 97 71 CE 32 04 97 75 \
C7 06 E2 D2 07 71 C7 77 CE 12 80 F8 15 1A 00 57 \
32 0E 87 32 0E 87 57 32 0E 87 32 0F 87 57 32 0F \
87 32 0E 87 57'''  # sdk56504.hex

#Led program for new rev of FB SDK and Ref design
if $?firebolt_any && !$?fb24 "local ledcode '\
E0 28 60 E3 67 4B 67 87 06 E3 80 D2 18 74 01 28 \
60 E3 67 AF 75 1C 67 C4 67 4B 77 24 32 0E 87 32 \
08 87 67 B6 06 E3 80 D2 1C 74 0F 12 E2 85 05 D2 \
0F 71 35 52 00 12 E1 85 05 D2 1F 71 3F 52 00 12 \
E0 85 05 D2 05 71 49 52 00 3A 70 32 00 97 75 57 \
12 A0 FE E3 02 0A 50 32 01 97 75 63 12 BC FE E3 \
02 0A 50 12 BC FE E3 95 75 75 85 12 A0 FE E3 95 \
75 C4 85 77 B6 12 A0 FE E3 95 75 7F 85 77 BD 16 \
E0 DA 02 71 BD 77 C4 32 05 97 71 97 32 02 97 71 \
B6 06 E1 D2 01 71 B6 06 E3 67 AF 75 B6 32 03 97 \
71 C4 32 04 97 75 BD 06 E2 D2 07 71 BD 77 C4 12 \
80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 \
32 0F 87 57 32 0F 87 32 0E 87 57''' # sdk56504ref.hex

#Override Default Firebolt LED program for Line Module
if $?lm && $?firebolt_any "local ledcode '\
E0 28 60 E3 67 79 06 E3 67 3D 06 E3 80 28 60 E3 \
67 3D 06 E3 67 79 06 E3 80 D2 18 74 01 12 E2 85 \
05 D2 0F 71 27 52 00 12 E1 85 05 D2 1F 71 31 52 \
00 12 E0 85 05 D2 05 71 3B 52 00 3A 60 32 00 97 \
75 49 12 A0 FE E3 02 0A 50 32 01 97 75 55 12 BC \
FE E3 02 0A 50 12 BC FE E3 95 75 67 85 12 A0 FE \
E3 95 75 B6 85 77 A8 12 A0 FE E3 95 75 71 85 77 \
AF 16 E0 DA 02 71 AF 77 B6 32 05 97 71 89 32 02 \
97 71 A8 06 E1 D2 01 71 A8 06 E3 67 A1 75 A8 32 \
03 97 71 B6 32 04 97 75 AF 06 E2 D2 07 71 AF 77 \
```

```
B6 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 \
0E 87 32 0F 87 57 32 0F 87 32 0E 87 57''' # lm48p56504.hex

#Override Default Firebolt LED program for Line Module -50 version
if $?lm && $?lm48p_D && $?firebolt_any "local ledcode '\
E0 28 60 E3 67 6D 06 E3 67 31 06 E3 80 D2 18 74 \
01 12 E2 85 05 D2 0F 71 1B 52 00 12 E1 85 05 D2 \
1F 71 25 52 00 12 E0 85 05 D2 05 71 2F 52 00 3A \
60 32 00 97 75 3D 12 A0 FE E3 02 0A 50 32 01 97 \
75 49 12 BC FE E3 02 0A 50 12 BC FE E3 95 75 5B \
85 12 A0 FE E3 95 75 AA 85 77 9C 12 A0 FE E3 95 \
75 65 85 77 A3 16 E0 DA 02 71 A3 77 AA 32 05 97 \
71 7D 32 02 97 71 9C 06 E1 D2 01 71 9C 06 E3 67 \
95 75 9C 32 03 97 71 AA 32 04 97 75 A3 06 E2 D2 \
07 71 A3 77 AA 12 80 F8 15 1A 00 57 32 0E 87 32 \
0E 87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 \
57''' # lm48p56504_50.hex

if $?lm && $?firebolt_10x4 "local ledcode '\
02 18 28 32 07 67 1E 75 0A D7 87 32 01 D7 87 32 \
00 D7 87 32 08 D7 87 80 D2 1C 74 02 3A 0C 12 80 \
F8 15 1A 00 57 ''' # lm12pcx456501.hex

if $?fbpoe && $?firebolt_any "local ledcode '\
E0 28 60 E3 67 85 67 49 06 E3 80 D2 18 74 01 28 \
60 E3 67 AD 75 1A 67 C2 77 20 32 0E 87 32 08 87 \
67 49 06 E3 80 D2 1A 74 0F 12 E2 85 05 D2 0F 71 \
33 52 00 12 E1 85 05 D2 1F 71 3D 52 00 12 E0 85 \
05 D2 05 71 47 52 00 3A 68 32 00 97 75 55 12 A0 \
FE E3 02 0A 50 32 01 97 75 61 12 BA FE E3 02 0A \
50 12 BA FE E3 95 75 73 85 12 A0 FE E3 95 75 C2 \
85 77 B4 12 A0 FE E3 95 75 7D 85 77 BB 16 E0 DA \
02 71 BB 77 C2 32 05 97 71 95 32 02 97 71 B4 06 \
E1 D2 01 71 B4 06 E3 67 AD 75 B4 32 03 97 71 C2 \
32 04 97 75 BB 06 E2 D2 07 71 BB 77 C2 12 80 F8 \
15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F \
87 57 32 0F 87 32 0E 87 57''' # poe48p56504.hex

#Override Default Firebolt LED program for felix
if $?felix || $?felix15 "local ledcode '\
E0 28 60 E3 67 6B 67 A7 06 E3 80 D2 18 74 01 02 \
18 28 60 E3 67 49 02 19 28 60 E3 67 49 32 0E 87 \
32 0E 87 32 0E 87 32 0E 87 12 E2 85 05 D2 0F 71 \
33 52 00 12 E1 85 05 D2 1F 71 3D 52 00 12 E0 85 \
05 D2 05 71 47 52 00 3A 68 67 CF 75 52 32 0E 87 \
77 55 32 0F 87 32 00 97 75 5E 32 0E 87 57 32 01 \
97 75 67 32 0E 87 57 32 0F 87 57 32 00 97 75 77 \
12 A0 FE E3 02 0A 50 32 01 97 75 83 12 BC FE E3 \
```

```
02 0A 50 12 BC FE E3 95 75 95 85 12 A0 FE E3 95 \
75 E4 85 77 D6 12 A0 FE E3 95 75 9F 85 77 DD 16 \
E0 DA 02 71 DD 77 E4 32 05 97 71 B7 32 02 97 71 \
D6 06 E1 D2 01 71 D6 06 E3 67 CF 75 D6 32 03 97 \
71 E4 32 04 97 75 DD 06 E2 D2 07 71 DD 77 E4 12 \
80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 \
32 0F 87 57 32 0E 87 32 0F 87 57'''  # sdk56102.hex

#Override Default Felix LED program for felix48
if $?felix48 && $?felix || $?felix15 "local ledcode '\
E0 28 60 E3 67 6B 67 A7 06 E3 80 D2 18 74 01 02 \
18 28 60 E3 67 49 02 19 28 60 E3 67 49 32 0E 87 \
32 0E 87 32 0E 87 32 0E 87 12 E2 85 05 D2 0F 71 \
33 52 00 12 E1 85 05 D2 1F 71 3D 52 00 12 E0 85 \
05 D2 05 71 47 52 00 3A 68 67 CF 75 52 32 0E 87 \
77 55 32 0F 87 32 00 97 75 5E 32 0E 87 57 32 01 \
97 75 67 32 0E 87 57 32 0F 87 57 32 00 97 75 77 \
12 A0 FE E3 02 0A 50 32 01 97 75 83 12 BC FE E3 \
02 0A 50 12 BC FE E3 95 75 95 85 12 A0 FE E3 95 \
75 E4 85 77 D6 12 A0 FE E3 95 75 9F 85 77 DD 16 \
E0 DA 02 71 DD 77 E4 32 05 97 71 B7 32 02 97 71 \
D6 06 E1 D2 01 71 D6 06 E3 67 CF 75 D6 32 03 97 \
71 E4 32 04 97 75 DD 06 E2 D2 07 71 DD 77 E4 12 \
80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 \
32 0F 87 57 32 0F 87 32 0E 87 57'''  # felix48.hex

if $?easyrider_any "local ledcode '\
E0 28 60 E3 67 59 67 95 06 E3 80 28 60 E3 67 95 \
67 59 06 E3 80 D2 0C 74 01 28 60 E3 67 BD 75 26 \
67 D2 67 59 77 2E 32 0E 87 32 08 87 67 C4 06 E3 \
80 D2 0D 74 19 12 E2 85 05 D2 0F 71 3F 52 00 12 \
E1 85 05 D2 1F 71 49 52 00 12 E0 85 05 D2 05 71 \
53 52 00 67 C4 67 C4 3A 38 32 00 97 75 65 12 A0 \
FE E3 02 0A 50 32 01 97 75 71 12 AD FE E3 02 0A \
50 12 AD FE E3 95 75 83 85 12 A0 FE E3 95 75 D2 \
85 77 C4 12 A0 FE E3 95 75 8D 85 77 CB 16 E0 DA \
02 71 CB 77 D2 32 05 97 71 A5 32 02 97 71 C4 06 \
E1 D2 01 71 C4 06 E3 67 BD 75 C4 32 03 97 71 D2 \
32 04 97 75 CB 06 E2 D2 07 71 CB 77 D2 12 80 F8 \
15 1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F \
87 57 32 0F 87 32 0E 87 57'''   # sdk56601.hex

#Override Default Easyrider LED program for 56602
if $?easyrider_1x1 "local ledcode '\
E0 60 E1 67 7C 67 7C 06 E1 80 D2 0C 74 01 02 0C \
28 60 E1 67 75 75 1D 67 8A 67 39 77 25 32 0E 87 \
32 08 87 67 7C 06 E1 D2 00 02 00 74 10 12 E0 85 \
05 D2 05 71 37 52 00 3A 38 32 00 97 75 45 12 A0 \
```

```
FE E1 02 0A 50 32 01 97 75 51 12 AD FE E1 02 0A \
50 12 AD FE E1 95 75 63 85 12 A0 FE E1 95 75 8A \
85 77 7C 12 A0 FE E1 95 75 6D 85 77 83 16 E0 DA \
02 71 83 77 8A 12 80 F8 15 1A 00 57 32 0E 87 32 \
0E 87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 \
57'''   # sdk56602.hex

#Override Default  LED program for 53300
if $?mirage24 "local ledcode '\
E0 28 60 E3 67 6B 67 2F 06 E3 80 D2 18 74 01 12 \
E2 85 05 D2 0F 71 19 52 00 12 E1 85 05 D2 1F 71 \
23 52 00 12 E0 85 05 D2 05 71 2D 52 00 3A 30 32 \
00 97 75 3B 12 A0 FE E3 02 0A 50 32 01 97 75 47 \
12 BC FE E3 02 0A 50 12 BC FE E3 95 75 59 85 12 \
A0 FE E3 95 75 A2 85 77 9A 12 A0 FE E3 95 75 63 \
85 77 9E 16 E0 DA 02 71 9E 77 A2 32 05 97 71 7B \
32 02 97 71 9A 06 E1 D2 01 71 9A 06 E3 67 93 75 \
9A 32 03 97 71 A2 32 04 97 75 9E 06 E2 D2 07 71 \
9E 77 A2 12 80 F8 15 1A 00 57 32 0F 87 57 32 0E \
87 57 32 0E 87 57'''  # sdk53300.hex

#Override Default LED program for 56314
if $?bcm56314p24ref "local ledcode '\
E0 28 60 E3 67 79 67 3D 06 E3 80 D2 18 74 01 28 \
60 E3 67 79 67 A8 06 E3 80 D2 1C 74 0F 12 E2 85 \
05 D2 0F 71 27 52 00 12 E1 85 05 D2 1F 71 31 52 \
00 12 E0 85 05 D2 05 71 3B 52 00 3A 38 32 00 97 \
75 49 12 A0 FE E3 02 0A 50 32 01 97 75 55 12 BC \
FE E3 02 0A 50 12 BC FE E3 95 75 67 85 12 A0 FE \
E3 95 75 B0 85 77 A8 12 A0 FE E3 95 75 71 85 77 \
AC 16 E0 DA 02 71 AC 77 B0 32 05 97 71 89 32 02 \
97 71 A8 06 E1 D2 01 71 A8 06 E3 67 A1 75 A8 32 \
03 97 71 B0 32 04 97 75 AC 06 E2 D2 07 71 AC 77 \
B0 12 80 F8 15 1A 00 57 32 0F 87 57 32 0E 87 57 \
32 0E 87 57'''  # bcm956314p24ref.hex

if $?bradley "local ledcode '\
E0 28 60 F2 67 1B 06 F2 80 D2 14 74 01 86 F3 12 \
F0 85 05 D2 05 71 19 52 00 3A 28 32 00 97 75 27 \
12 A8 FE F2 02 0A 50 32 01 97 75 33 12 BC FE F2 \
02 0A 50 12 BC FE F2 95 75 45 85 12 A8 FE F2 95 \
75 91 85 77 57 12 A8 FE F2 95 75 4F 85 77 8A 16 \
F0 DA 02 71 8A 77 91 06 F2 12 94 F8 15 02 02 C1 \
74 6E 02 04 C1 74 6E 02 08 C1 74 6E 77 74 C6 F3 \
74 91 77 8A 06 F2 67 7C 75 83 77 91 12 80 F8 15 \
1A 00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F 87 \
57 32 0F 87 32 0E 87 57'''     # sdk56800.hex
```

```
if $?humv "local ledcode '\
E0 28 60 F2 67 21 06 F2 80 D2 08 74 0F F2 02 D2 \
12 74 01 86 F3 12 F0 85 05 D2 05 71 1F 52 00 3A \
20 32 00 97 75 2D 12 A8 FE F2 02 0A 50 32 01 97 \
75 39 12 BA FE F2 02 0A 50 12 BA FE F2 95 75 4B \
85 12 A8 FE F2 95 75 97 85 77 5D 12 A8 FE F2 95 \
75 55 85 77 90 16 F0 DA 02 71 90 77 97 06 F2 12 \
94 F8 15 02 02 C1 74 74 02 04 C1 74 74 02 08 C1 \
74 74 77 7A C6 F3 74 97 77 90 06 F2 67 82 75 89 \
77 97 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 57 \
32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57''' # sdk56700.hex

if $?bradley_1g "local ledcode '\
E0 28 60 E3 67 2F 67 6B 06 E3 80 D2 14 74 01 12 \
E2 85 05 D2 0F 71 19 52 00 12 E1 85 05 D2 1F 71 \
23 52 00 12 E0 85 05 D2 05 71 2D 52 00 3A 50 32 \
00 97 75 3B 12 A0 FE E3 02 0A 50 32 01 97 75 47 \
12 B4 FE E3 02 0A 50 12 B4 FE E3 95 75 59 85 12 \
A0 FE E3 95 75 A8 85 77 9A 12 A0 FE E3 95 75 63 \
85 77 A1 16 E0 DA 02 71 A1 77 A8 32 05 97 71 7B \
32 02 97 71 9A 06 E1 D2 01 71 9A 06 E3 67 93 75 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 E2 D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57 '''  # sdk56800c.hex

if $?goldwing "local ledcode '\
E0 28 60 F3 D2 10 75 0E 67 3B 67 94 77 12 67 94 \
67 3B 06 F3 80 D2 14 74 01 86 F4 12 F2 85 05 D2 \
0F 71 25 52 00 12 F1 85 05 D2 1F 71 2F 52 00 12 \
F0 85 05 D2 05 71 39 52 00 3A 50 32 00 97 75 47 \
12 A8 FE F3 02 0A 50 32 01 97 75 53 12 BC FE F3 \
02 0A 50 12 BC FE F3 95 75 65 85 12 A8 FE F3 95 \
75 C0 85 77 77 12 A8 FE F3 95 75 6F 85 77 B9 16 \
F0 DA 02 71 B9 77 C0 06 F3 12 94 F8 15 02 02 C1 \
74 8E 02 04 C1 74 8E 02 08 C1 74 8E 77 B2 C6 F4 \
74 C0 77 B9 06 F3 67 AB 75 B2 32 04 75 B2 32 03 \
97 71 C0 06 F2 D2 07 71 B9 77 C0 12 80 F8 15 1A \
00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F 87 57 \
32 0F 87 32 0E 87 57 '''                    # sdk56580.hex

if $?humv && $?lm "local ledcode '\
02 04 28 D2 08 74 0A F2 02 28 32 07 67 29 75 11 \
D7 87 60 E4 67 30 06 E4 60 E4 67 4C 06 E4 32 08 \
D7 87 80 D2 12 74 02 3A 30 12 80 F8 15 1A 00 57 \
06 E4 12 94 F8 15 02 10 C1 70 42 12 D2 FE E4 02 \
0A 50 12 D2 FE E4 95 75 6D 85 77 68 06 E4 12 94 \
F8 15 02 20 C1 70 5E 12 C0 FE E4 02 0A 50 12 C0 \
FE E4 95 75 6D 85 77 68 32 0E D7 87 57 32 0F D7 \
```

```
87 57 '''                                # lm12p56802.hex


if $?raptor "local ledcode '\
02 06 28 60 FF 67 64 67 93 06 FF 80 D2 36 74 02 \
02 04 28 60 FF 67 BB 75 1E 32 0E 87 77 21 32 0F \
87 67 7D 06 FF 80 D2 06 74 12 02 01 28 60 FF 67 \
BB 75 38 32 0E 87 77 3B 32 0F 87 67 7D 06 FF 80 \
D2 03 74 2C 12 FE 85 05 D2 0F 71 4E 52 00 12 FD \
85 05 D2 1F 71 58 52 00 12 FC 85 05 D2 05 71 62 \
52 00 3A C8 32 01 97 75 76 32 00 97 75 C9 16 FC \
DA 02 71 C9 77 D0 32 00 97 75 C2 77 D0 32 00 97 \
75 86 32 0E 87 57 32 01 97 75 8F 32 0E 87 57 32 \
0F 87 57 32 05 97 71 A3 32 02 97 71 C2 06 FD D2 \
01 71 C2 06 FF 67 BB 75 C2 32 03 97 71 D0 32 04 \
97 75 C9 06 FE D2 07 71 C9 77 D0 12 A0 F8 15 1A \
00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F 87 57 \
32 0F 87 32 0E 87 57 00 00 00 00 00 00 00 00 00''' # sdk56018.hex

if $?raptor && $?rap24_ref "local ledcode '\
02 06 60 E1 67 48 67 31 06 E1 80 D2 1E 71 02 02 \
05 60 E1 67 48 67 31 06 E1 90 D2 03 74 11 02 02 \
60 E1 67 48 67 31 06 E1 90 D2 00 74 20 86 E0 3A \
38 06 E1 67 50 75 57 28 32 00 32 01 B7 97 75 57 \
16 E0 CA 05 74 5B 77 57 06 E1 67 50 75 57 77 5B \
12 A0 F8 15 1A 00 57 32 0F 87 57 32 0E 87 57 00''' # sdk56214.hex

if $?raven_eb_48p "local ledcode '\
02 06 28 60 C3 67 30 67 6C 06 C3 80 D2 1E 74 02 \
12 C2 85 05 D2 0F 71 1A 52 00 12 C1 85 05 D2 1F \
71 24 52 00 12 C0 85 05 D2 05 71 2E 52 00 3A 60 \
32 00 97 75 3C 12 C0 FE C3 02 0A 50 32 01 97 75 \
48 12 E0 FE C3 02 0A 50 12 E0 FE C3 95 75 5A 85 \
12 C0 FE C3 95 75 A9 85 77 9B 12 C0 FE C3 95 75 \
64 85 77 A2 16 C0 DA 02 71 A2 77 A9 32 05 97 71 \
7C 32 02 97 71 9B 06 C1 D2 01 71 9B 06 C3 67 94 \
75 9B 32 03 97 71 A9 32 04 97 75 A2 06 C2 D2 07 \
71 A2 77 A9 12 A0 F8 15 1A 00 57 32 0E 87 32 0E \
87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57''' #bcm956024p48ref.hex

if $?BCM956024R50T "local ledcode '\
02 06 28 60 C3 67 30 67 6C 06 C3 80 D2 1E 74 02 \
12 C2 85 05 D2 0F 71 1A 52 00 12 C1 85 05 D2 1F \
71 24 52 00 12 C0 85 05 D2 05 71 2E 52 00 3A 60 \
32 00 97 75 3C 12 C0 FE C3 02 0A 50 32 01 97 75 \
48 12 E0 FE C3 02 0A 50 12 E0 FE C3 95 75 5A 85 \
12 C0 FE C3 95 75 A9 85 77 9B 12 C0 FE C3 95 75 \
64 85 77 A2 16 C0 DA 02 71 A2 77 A9 32 05 97 75 \
```

```
7C 32 02 97 71 9B 06 C1 D2 01 71 9B 06 C3 67 94 \
75 9B 32 03 97 71 A9 32 04 97 75 A2 06 C2 D2 07 \
71 A2 77 A9 12 A0 F8 15 1A 00 57 32 0E 87 32 0E \
87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57''' #bcm956024r50t.hex

if $?scorpion || $?conqueror "local ledcode '\
02 18 28 60 E1 67 12 06 E1 90 D2 00 74 02 86 E0 \
3A 18 67 2D 75 34 28 32 00 32 01 B7 97 75 38 16 \
E0 CA 05 74 38 77 34 67 2D 75 34 77 38 12 A0 F8 \
15 1A 00 57 32 0F 87 57 32 0E 87 57 00 00 00 00 \
00 00 00''' #sdk56820.hex

if $?scorpion && $?BCM956820R24XG "local ledcode '\
02 01 28 67 D0 02 02 28 67 D6 67 D0 02 01 28 67 \
D6 02 04 28 67 D0 02 03 28 67 D6 67 D0 02 04 28 \
67 D6 02 05 28 67 D0 02 06 28 67 D6 67 D0 02 05 \
28 67 D6 02 07 28 67 D0 02 08 28 67 D6 67 D0 02 \
07 28 67 D6 02 09 28 67 D0 02 0A 28 67 D6 67 D0 \
02 09 28 67 D6 02 0C 28 67 D0 02 0B 28 67 D6 67 \
D0 02 0C 28 67 D6 02 0D 28 67 D0 02 0E 28 67 D6 \
67 D0 02 0D 28 67 D6 02 0F 28 67 D0 02 10 28 67 \
D6 67 D0 02 0F 28 67 D6 02 11 28 67 D0 02 12 28 \
67 D6 67 D0 02 11 28 67 D6 02 14 28 67 D0 02 13 \
28 67 D6 67 D0 02 14 28 67 D6 02 15 28 67 D0 02 \
16 28 67 D6 67 D0 02 15 28 67 D6 02 17 28 67 D0 \
02 18 28 67 D6 67 D0 02 17 28 67 D6 86 E0 3A 30 \
67 F1 75 F8 77 FC 67 F1 75 F8 28 32 00 32 01 B7 \
97 75 F8 16 E0 CA 05 74 FC 77 F8 67 F1 75 F8 77 \
FC 12 A0 F8 15 1A 00 57 32 0F 87 57 32 0E 87 57 \
''' #bcm956820r24xg.hex

if $?valkyrie "local ledcode '\
02 02 67 A9 67 94 02 03 67 A9 67 94 02 05 67 A9 \
67 94 02 04 67 A9 67 94 02 06 67 A9 67 94 02 07 \
67 A9 67 94 02 12 67 A9 67 94 02 13 67 A9 67 94 \
02 0E 67 A9 67 94 02 0F 67 A9 67 94 02 11 67 A9 \
67 94 02 10 67 A9 67 94 02 1A 67 A9 67 94 02 20 \
67 A9 67 94 02 21 67 A9 67 94 02 22 67 A9 67 94 \
02 23 67 A9 67 94 02 24 67 A9 67 94 02 2F 67 A9 \
67 94 02 2E 67 A9 67 94 02 1B 67 A9 67 94 02 2B \
67 A9 67 94 02 2C 67 A9 67 94 02 2D 67 A9 67 94 \
86 E0 3A 30 67 AF 75 B6 28 32 00 32 01 B7 97 75 \
B6 16 E0 CA 05 74 BA 77 B6 67 AF 75 B6 77 BA 12 \
A0 F8 15 1A 00 57 32 0F 87 57 32 0E 87 57 00 00 \
00''' #sdk56680.hex

if $?valkyrie2 "local ledcode '\
02 1E 67 A9 67 94 02 1F 67 A9 67 94 02 21 67 A9 \
```

```
67 94 02 20 67 A9 67 94 02 22 67 A9 67 94 02 23 \
67 A9 67 94 02 24 67 A9 67 94 02 25 67 A9 67 94 \
02 26 67 A9 67 94 02 27 67 A9 67 94 02 29 67 A9 \
67 94 02 28 67 A9 67 94 02 2A 67 A9 67 94 02 2B \
67 A9 67 94 02 2C 67 A9 67 94 02 2D 67 A9 67 94 \
02 2E 67 A9 67 94 02 2F 67 A9 67 94 02 31 67 A9 \
67 94 02 30 67 A9 67 94 02 32 67 A9 67 94 02 33 \
67 A9 67 94 02 34 67 A9 67 94 02 35 67 A9 67 94 \
86 E0 3A 30 67 AF 75 B6 28 32 00 32 01 B7 97 75 \
B6 16 E0 CA 05 74 BA 77 B6 67 AF 75 B6 77 BA 12 \
A0 F8 15 1A 00 57 32 0F 87 57 32 0E 87 57 00 00 \
00''' #sdk56685.hex

if $?hawkeye_p24 "local ledcode '\
02 01 28 60 E3 67 43 67 1C 06 E3 80 D2 19 74 02 \
12 E0 85 05 D2 03 71 1A 52 00 3A 60 32 00 32 01 \
B7 97 75 2B 12 E4 FE E3 02 01 50 12 E4 FE E3 95 \
75 3B 85 06 E3 67 55 75 6A 77 5C 16 E0 DA 01 71 \
6A 77 5C 06 E3 67 55 75 6A 32 03 97 71 5C 32 04 \
97 75 6A 77 63 12 A0 F8 15 1A 00 57 32 0E 87 32 \
0F 87 57 32 0F 87 32 0E 87 57 32 0F 87 32 0F 87 \
57'''  #bcm953314p24ref.hex

if $?hawkeye_k24 "local ledcode '\
02 01 28 60 E1 67 3D 67 1C 06 E1 80 D2 19 74 02 \
12 E0 85 05 D2 05 71 1A 52 00 3A 30 32 00 32 01 \
B7 97 75 2B 12 E2 FE E1 02 0A 50 12 E2 FE E1 95 \
75 35 85 77 50 16 E0 DA 02 71 4C 77 50 06 E1 67 \
45 75 50 77 4C 12 A0 F8 15 1A 00 57 32 0E 87 57 \
32 0F 87 57 00 00 00 00 00 00 00 00 00 00 00 00''' #bcm953314k24.hex

if !"expr $pcidev + 0 == 0xb624" "local ledcode '\
02 1C 28 67 18 02 1D 28 67 18 02 1E 28 67 18 02 \
1F 28 67 18 86 E0 3A 08 67 3B 75 20 67 46 77 24 \
67 42 77 42 28 32 00 32 01 B7 97 75 42 16 E0 CA \
05 74 46 77 42 67 3B 75 42 77 46 12 A0 F8 15 1A \
00 57 32 0F 87 57 32 0E 87 57 00 00 00 00 00 00''' #sdk56624.hex

if !"expr $pcidev + 0 == 0xb626" "local ledcode '\
02 1A 28 67 22 02 1B 28 67 22 02 1C 28 67 22 02 \
1D 28 67 22 02 1E 28 67 22 02 1F 28 67 22 86 E0 \
3A 08 67 3D 75 44 28 32 00 32 01 B7 97 75 48 16 \
E0 CA 05 74 48 77 44 67 3D 75 44 77 48 12 A0 F8 \
15 1A 00 57 32 0F 87 57 32 0E 87 57 00 00 00 00''' #sdk56626.hex

if !"expr $pcidev + 0 == 0xb628" "local ledcode '\
02 02 28 67 2C 02 0E 28 67 2C 02 1A 28 67 2C 02 \
1B 28 67 2C 02 1C 28 67 2C 02 1D 28 67 2C 02 1E \
```

```
28 67 2C 02 1F 28 67 2C 86 E0 3A 08 67 47 75 4E \
28 32 00 32 01 B7 97 75 52 16 E0 CA 05 74 52 77 \
4E 67 47 75 4E 77 52 12 A0 F8 15 1A 00 57 32 0F \
87 57 32 0E 87 57 00 00 00 00 00 00 00 00 00 00''' #sdk56628.hex

if !"expr $pcidev + 0 == 0xb629" "local ledcode '\
02 02 28 67 2C 02 0E 28 67 2C 02 1A 28 67 2C 02 \
1B 28 67 2C 02 1C 28 67 2C 02 1D 28 67 2C 02 1E \
28 67 2C 02 1F 28 67 2C 86 E0 3A 08 67 47 75 4E \
28 32 00 32 01 B7 97 75 52 16 E0 CA 05 74 52 77 \
4E 67 47 75 4E 77 52 12 A0 F8 15 1A 00 57 32 0F \
87 57 32 0E 87 57 00 00 00 00 00 00 00 00 00 00''' #sdk56629.hex

if !"expr $pcidev + 0 == 0xb634" "local ledcode '\
02 1A 28 67 18 02 1B 28 67 18 02 1C 28 67 18 02 \
1D 28 67 18 86 E0 3A 08 67 3B 75 20 67 46 77 24 \
67 42 77 42 28 32 00 32 01 B7 97 75 42 16 E0 CA \
05 74 46 77 42 67 3B 75 42 77 46 12 A0 F8 15 1A \
00 57 32 0F 87 57 32 0E 87 57 00 00 00 00 00 00''' #sdk56634.hex

if !"expr $pcidev + 0 == 0xb630" "local ledcode '\
02 1A 28 67 18 02 1B 28 67 18 02 1C 28 67 18 02 \
1D 28 67 18 86 E0 3A 08 67 3B 75 20 67 46 77 24 \
67 42 77 42 28 32 00 32 01 B7 97 75 42 16 E0 CA \
05 74 46 77 42 67 3B 75 42 77 46 12 A0 F8 15 1A \
00 57 32 0F 87 57 32 0E 87 57 00 00 00 00 00 00''' #sdk56634.hex

if !"expr $pcidev + 0 == 0xb636" "local ledcode '\
02 2A 28 67 22 02 32 28 67 22 02 1A 28 67 22 02 \
1B 28 67 22 02 1C 28 67 22 02 1D 28 67 22 86 E0 \
3A 08 67 3D 75 44 28 32 00 32 01 B7 97 75 48 16 \
E0 CA 05 74 48 77 44 67 3D 75 44 77 48 12 A0 F8 \
15 1A 00 57 32 0F 87 57 32 0E 87 57 00 00 00 00''' #sdk56636.hex

if !"expr $pcidev + 0 == 0xb638" "local ledcode '\
02 1E 28 67 2C 02 26 28 67 2C 02 2A 28 67 2C 02 \
32 28 67 2C 02 1A 28 67 2C 02 1B 28 67 2C 02 1C \
28 67 2C 02 1D 28 67 2C 86 E0 3A 08 67 47 75 4E \
28 32 00 32 01 B7 97 75 52 16 E0 CA 05 74 52 77 \
4E 67 47 75 4E 77 52 12 A0 F8 15 1A 00 57 32 0F \
87 57 32 0E 87 57 00 00 00 00 00 00 00 00 00 00''' #sdk56638.hex

if !"expr $pcidev + 0 == 0xb639" "local ledcode '\
02 1E 28 67 2C 02 26 28 67 2C 02 2A 28 67 2C 02 \
32 28 67 2C 02 1A 28 67 2C 02 1B 28 67 2C 02 1C \
28 67 2C 02 1D 28 67 2C 86 E0 3A 08 67 47 75 4E \
28 32 00 32 01 B7 97 75 52 16 E0 CA 05 74 52 77 \
4E 67 47 75 4E 77 52 12 A0 F8 15 1A 00 57 32 0F \
```

```
87 57 32 0E 87 57 00 00 00 00 00 00 00 00 00 00''' #sdk56639.hex

if !"expr $pcidev + 0 == 0xb334" "local ledcode '\
02 02 28 60 E1 67 3D 67 1C 06 E1 80 D2 1E 74 02 \
12 E0 85 05 D2 05 71 1A 52 00 3A 38 32 00 32 01 \
B7 97 75 2B 12 E2 FE E1 02 0A 50 12 E2 FE E1 95 \
75 35 85 77 4C 16 E0 DA 02 71 50 77 4C 06 E1 67 \
45 75 4C 77 50 12 A0 F8 15 1A 00 57 32 0F 87 57 \
32 0E 87 57 00 00 00 00 00 00 00 00 00 00 00 00''' #sdk56334.hex

if $?apollo "local ledcode '\
02 1E 28 60 E0 67 58 67 73 06 E0 80 28 60 E0 67 \
73 67 58 06 E0 80 D2 36 74 02 02 1A 28 60 E0 67 \
9B 75 29 67 B0 67 58 77 31 32 0E 87 32 08 87 67 \
A2 06 E0 80 D2 1E 74 1C 12 E2 85 05 D2 0F 71 42 \
52 00 12 E1 85 05 D2 1F 71 4C 52 00 12 E3 85 05 \
D2 05 71 56 52 00 3A 70 32 00 97 75 64 32 01 97 \
71 6B 77 B0 32 01 97 71 A9 77 A2 16 E3 DA 02 71 \
A9 77 B0 32 05 97 75 83 32 02 97 71 A2 06 E1 D2 \
01 71 A2 06 E0 67 9B 75 A2 32 03 97 71 B0 32 04 \
97 75 A9 06 E2 D2 07 71 A9 77 B0 12 A0 F8 15 1A \
00 57 32 0E 87 32 0E 87 57 32 0E 87 32 0F 87 57 \
32 0F 87 32 0E 87 57 00 00 00 00 00 00 00 00 00''' #sdk56524.hex

if $?tomahawk || $?tomahawk_plus "local ledcode '\
02 00 28 60 E1 67 25 67 14 06 E1 80 D2 40 74 02 \
86 E0 3A FC 28 32 00 32 01 B7 97 75 37 16 E0 CA \
05 74 3E 77 37 67 2B 75 37 77 45 12 A0 F8 15 1A \
00 57 28 32 07 97 57 32 0E 87 32 0E 87 57 32 0F \
87 32 0E 87 57 32 0E 87 32 0F 87 57 00 00 00 00''' #sdk56960.hex

if $?trident2plus "local ledcode '\
02 01 28 60 E1 67 31 67 20 06 E1 80 D2 31 74 02 \
86 E0 3A C0 67 37 75 1C 67 51 77 20 67 43 77 43 \
28 32 00 32 01 B7 97 75 43 16 E0 CA 05 74 4A 77 \
43 67 37 75 43 77 51 12 A0 F8 15 1A 00 57 28 32 \
07 97 57 32 0E 87 32 0E 87 57 32 0F 87 32 0E 87 \
57 32 0E 87 32 0F 87 57 00 00 00 00 00 00 00 00''' #sdk56860.hex

if $?apache "local ledcode '\
02 00 67 24 67 0F 80 D2 24 74 02 86 E0 3A F8 67 \
34 75 16 77 1D 57 67 3C 75 62 77 44 57 67 3C 75 \
4E 77 58 57 67 2C 75 62 77 70 07 57 07 12 A0 F8 \
15 1A 00 57 07 12 A0 F8 15 1A 04 57 07 12 A0 F8 \
15 1A 05 57 16 E0 CA 1E 74 69 77 62 07 57 16 E0 \
CA 1E 74 70 77 62 07 57 16 E0 CA 1E 74 69 77 70 \
07 57 32 0E 87 32 0E 87 57 32 0F 87 32 0E 87 57 \
32 0E 87 32 0F 87 57 00 00 00 00 00 00 00 00 00''' #sdk56560.hex
```

```
if $?generic8led "local ledcode '\
06 E1 D2 40 71 11 E0 60 E1 16 E3 DA 01 71 15 60 \
E3 67 5D 75 2B 12 01 61 E3 67 71 28 67 32 86 E0 \
16 E2 81 61 E2 DA 1E 75 2B 3A 08 E9 61 E2 86 E1 \
77 00 67 5D 75 38 77 3C 67 64 77 64 67 41 67 4F \
57 28 32 01 97 75 64 16 E0 CA 05 74 68 77 64 28 \
32 00 97 75 64 16 E0 CA 05 74 68 77 64 12 A0 F8 \
15 1A 00 57 32 0F 87 57 32 0E 87 57 09 75 64 77 \
68 12 05 67 6C 12 04 67 6C 12 03 67 6C 12 02 67 \
6C 12 01 67 6C 12 00 67 6C 57 00 00 00 00 00 00''' #generic8led.hex

# Download LED code into LED processor and enable (if applicable).

if $?feature_led_proc && $?ledcode && !$?simulator \
 "led prog $ledcode; \
  led auto on; led start"

# Setup Greyhound LED processor
if $?greyhound \
   "rcload gh_ledup.soc"

# Setup Hurricane3 LED processor
if $?hurricane3 \
   "rcload hr3_led.soc"

# Setup Tomahawk LED processor
if $?tomahawk && !$?simulator \
   "led 1 prog $ledcode; \
    led 1 auto on; led 1 start; \
    led 2 prog $ledcode; \
    led 2 auto on; led 2 start"

# Setup Tomahawk+ LED processor
if $?tomahawk_plus && !$?simulator \
   "led 1 prog $ledcode; \
    led 1 auto on; led 1 start; \
    led 2 prog $ledcode; \
    led 2 auto on; led 2 start"

# If loading multiple rc.soc, upon loading the last unit, restart
# all LED processors so any common blinking is in sync.

if !"expr $?feature_led_proc && !$?simulator && $unit == $units - 1" \
 "*:led stop; *:led start"

# Run counter DMA task 4 times per second to achieve better
# ctr_xaui_activity.
```

```
if $?bradley_any \
      "ctr interval=250000"

# Initialize Hercules UC modid 0 entry to point to the CPU
if $?herc_any \
 "w uc 0 1 1"

# Additional configuration for 48-port in Stacking mode.
# On the 48-port platform, rc.soc is run twice; once on unit 0 and
# then once on unit 1.  The turbo port on unit N is geN.
# All turbo port traffic must be tagged; see vlan add below.
# See $SDK/doc/48-port.txt for more information including how
# to configure IPG values for line rate operation.

if $?p48 && $?unit0 \
 "local turbo_port 0; local my_modid 1;"

if $?p48 && $?unit1 \
 "local turbo_port 1; local my_modid 2;"

if $?p48 \
 "m config st_is_mirr=0 st_module=1 st_mcnt=1 st_simplex=0 st_link=0; \
  m config.g$turbo_port st_link=1; \
  m gmacc2.ge$turbo_port ipgt=8 mclkfq=1; \
  m fe_maxf maxfr=1560; \
  m maxfr maxfr=1568; \
  m config2 my_modid=$my_modid; \
  port ge$turbo_port speed=2500; \
  vlan add 1 pbm=ge$turbo_port ubm=none"

if !$?no_bcm && $?drac_any \
  "m modport_7_0 port_for_mod1=0xc"
if !$?no_bcm && $?lynx_any \
  "m modport_7_0 port_for_mod1=0x1"
if !$?no_bcm && $?tucana \
  "stkmode modid=0;"
if !$?no_bcm && $?tucana && !$?magnum && !$?tucana_nohg \
  "m modport_7_0 port_for_mod2=0x38; \
   m imodport_7_0 port_for_mod0=0 port_for_mod1=0 port_for_mod2=0x38; \
   stkmode modid=0"
if !$?no_bcm && $?xgs_switch && !$?rcpu_only\
  "stkmode modid=0; \
   s CMIC_COS_CTRL_RX CH0_COS_BMP=0,CH1_COS_BMP=0xff, \
      CH2_COS_BMP=0,CH3_COS_BMP=0"

# Back-to-back Draco setup.

# Draco chips must run at 127MHz. Some older versions
```

```
# are not set to this frequency.

if $?draco_stk && $?unit0 \
   "i2c probe quiet; bb clock Ref125 127"

# Applies to SDK Baseboard with either internal or external Higigs,
# as well as the Galahad reference design.

if $?draco_b2b && $?unit0 \
   "stkmode modid=0; \
    m modport_7_0 port_for_mod0=0 port_for_mod1=12; \
    m imodport_7_0 port_for_mod0=0 port_for_mod1=12"

if !$?simulator && $?draco_b2b && $?unit0 \
    "i2c probe quiet; bb clock Ref125 127"

if $?draco_b2b && $?unit1 \
   "stkmode modid=1; \
    m modport_7_0 port_for_mod0=12 port_for_mod1=0; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=0"

# Merlin, White Knight, Black Knight setup.
# Draco unit 1 is on Herc port 8
# Draco unit 2 is on Herc port 1

if $?draco_herc4 && $?unit0 \
   "w uc.hpic7 0 1 0x0; \
    w uc.hpic7 1 1 0x2; \
    w uc.hpic0 0 1 0x100; \
    w uc.hpic0 1 1 0x0"

if !$?simulator && $?draco_herc4 && $?unit0 \
    "i2c probe quiet; bb clock Ref125 127"

if $?draco_herc4 && $?unit1 \
   "stkmode modid=0; \
    m modport_7_0 port_for_mod0=0 port_for_mod1=12; \
    m imodport_7_0 port_for_mod0=0 port_for_mod1=12"

if $?draco_herc4 && $?unit2 \
   "stkmode modid=1; \
    m modport_7_0 port_for_mod0=12 port_for_mod1=0; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=0"

# Lancelot setup
# (enabled by adding the property "lancelot=1")
# Notes:
# Draco unit 1 is on Herc port 7
```

```
# Draco unit 2 is on Herc port 8
# Draco unit 3 is on Herc port 1
# Draco unit 4 is on Herc port 2

if $?lancelot && $?unit0 \
   "w uc.hpic6 0 1 0x0; \
    w uc.hpic6 1 1 0x100; \
    w uc.hpic6 2 1 0x2; \
    w uc.hpic6 3 1 0x4; \
    w uc.hpic7 0 1 0x80; \
    w uc.hpic7 1 1 0x0; \
    w uc.hpic7 2 1 0x2; \
    w uc.hpic7 3 1 0x4; \
    w uc.hpic0 0 1 0x80; \
    w uc.hpic0 1 1 0x100; \
    w uc.hpic0 2 1 0x0; \
    w uc.hpic0 3 1 0x4; \
    w uc.hpic1 0 1 0x80; \
    w uc.hpic1 1 1 0x100; \
    w uc.hpic1 2 1 0x2; \
    w uc.hpic1 3 1 0x0"

if !$?simulator && $?lancelot && $?unit0 \
    "i2c probe quiet; bb clock Draco_Core 127"

if $?lancelot && $?unit1 \
   "stkmode modid=0; \
    m modport_7_0 port_for_mod0=0 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12; \
    m imodport_7_0 port_for_mod0=0 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12"

if $?lancelot && $?unit2 \
   "stkmode modid=1; \
    m modport_7_0 port_for_mod0=12 port_for_mod1=0 \
    port_for_mod2=12 port_for_mod3=12; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=0 \
    port_for_mod2=12 port_for_mod3=12"

if $?lancelot && $?unit3 \
   "stkmode modid=2; \
    m modport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=0 port_for_mod3=12; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=0 port_for_mod3=12"

if $?lancelot && $?unit4 \
   "stkmode modid=3; \
```

```
    m modport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=0; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=0"

# Lynx SDK (TwoLynx) setup
# (enabled by adding the property "twolynx=1")

if $?twolynx && $?unit0 \
   "stkmode modid=0; \
    m modport_7_0 port_for_mod0=0 port_for_mod1=1; \
    m imodport_7_0 port_for_mod0=0 port_for_mod1=1; \
    "

if $?twolynx && $?unit1 \
   "stkmode modid=1; \
    m modport_7_0 port_for_mod0=1 port_for_mod1=0; \
    m imodport_7_0 port_for_mod0=1 port_for_mod1=0; \
    "
# HercuLynx setup
# (enabled by adding the property "herculynx=1")
# Notes:
# Lynx unit 1 is on Herc port 1
# Lynx unit 2 is on Herc port 2
# Lynx unit 3 is on Herc port 3
# Lynx unit 4 is on Herc port 4
# Lynx unit 5 is on Herc port 5
# Lynx unit 6 is on Herc port 6
# Lynx unit 7 is on Herc port 7
# Lynx unit 8 is on Herc port 8

if $?herculynx && $?unit0 \
   " \
    w uc.hpic0 0 1 0x002; \
    w uc.hpic0 1 1 0x004; \
    w uc.hpic0 2 1 0x008; \
    w uc.hpic0 3 1 0x010; \
    w uc.hpic0 4 1 0x020; \
    w uc.hpic0 5 1 0x040; \
    w uc.hpic0 6 1 0x080; \
    w uc.hpic0 7 1 0x100; \
                        ; \
    w uc.hpic1 0 1 0x002; \
    w uc.hpic1 1 1 0x004; \
    w uc.hpic1 2 1 0x008; \
    w uc.hpic1 3 1 0x010; \
    w uc.hpic1 4 1 0x020; \
    w uc.hpic1 5 1 0x040; \
```

```
w uc.hpic1 6 1 0x080; \
w uc.hpic1 7 1 0x100; \
                ; \
w uc.hpic2 0 1 0x002; \
w uc.hpic2 1 1 0x004; \
w uc.hpic2 2 1 0x008; \
w uc.hpic2 3 1 0x010; \
w uc.hpic2 4 1 0x020; \
w uc.hpic2 5 1 0x040; \
w uc.hpic2 6 1 0x080; \
w uc.hpic2 7 1 0x100; \
                ; \
w uc.hpic3 0 1 0x002; \
w uc.hpic3 1 1 0x004; \
w uc.hpic3 2 1 0x008; \
w uc.hpic3 3 1 0x010; \
w uc.hpic3 4 1 0x020; \
w uc.hpic3 5 1 0x040; \
w uc.hpic3 6 1 0x080; \
w uc.hpic3 7 1 0x100; \
                ; \
w uc.hpic4 0 1 0x002; \
w uc.hpic4 1 1 0x004; \
w uc.hpic4 2 1 0x008; \
w uc.hpic4 3 1 0x010; \
w uc.hpic4 4 1 0x020; \
w uc.hpic4 5 1 0x040; \
w uc.hpic4 6 1 0x080; \
w uc.hpic4 7 1 0x100; \
                ; \
w uc.hpic5 0 1 0x002; \
w uc.hpic5 1 1 0x004; \
w uc.hpic5 2 1 0x008; \
w uc.hpic5 3 1 0x010; \
w uc.hpic5 4 1 0x020; \
w uc.hpic5 5 1 0x040; \
w uc.hpic5 6 1 0x080; \
w uc.hpic5 7 1 0x100; \
                ; \
w uc.hpic6 0 1 0x002; \
w uc.hpic6 1 1 0x004; \
w uc.hpic6 2 1 0x008; \
w uc.hpic6 3 1 0x010; \
w uc.hpic6 4 1 0x020; \
w uc.hpic6 5 1 0x040; \
w uc.hpic6 6 1 0x080; \
w uc.hpic6 7 1 0x100; \
                ; \
```

```
    w uc.hpic7 0 1 0x002; \
    w uc.hpic7 1 1 0x004; \
    w uc.hpic7 2 1 0x008; \
    w uc.hpic7 3 1 0x010; \
    w uc.hpic7 4 1 0x020; \
    w uc.hpic7 5 1 0x040; \
    w uc.hpic7 6 1 0x080; \
    w uc.hpic7 7 1 0x100; \
                    ; \
    "

if $?herculynx && $?lynx_any \
    "m modport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    m imodport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    "

if $?herculynx && $?unit1 \
   "stkmode modid=0"

if $?herculynx && $?unit2 \
   "stkmode modid=1"

if $?herculynx && $?unit3 \
   "stkmode modid=2"

if $?herculynx && $?unit4 \
   "stkmode modid=3"

if $?herculynx && $?unit5 \
   "stkmode modid=4"

if $?herculynx && $?unit6 \
   "stkmode modid=5"

if $?herculynx && $?unit7 \
   "stkmode modid=6"

if $?herculynx && $?unit8 \
   "stkmode modid=7"
```

```
# LynxaLot setup
# (enabled by adding the property "lynxalot=1")
# Notes:
# Lynx unit 0 is on Herc port 3 (hg2/hpic2) (mod 0)
# Lynx unit 1 is on Herc port 4 (hg3/hpic3) (mod 1)
# Higig conn 0 is on Herc port 5 (hg4/hpic4)
# Higig conn 1 is on Herc port 6 (hg5/hpic5)
# Draco unit 3 is on Herc port 7 (hg6/hpic6) (mod 2)
# Draco unit 4 is on Herc port 8 (hg7/hpic7) (mod 3)
# Draco unit 5 is on Herc port 1 (hg0/hpic0) (mod 4)
# Draco unit 6 is on Herc port 2 (hg1/hpic1) (mod 5)

if $?lynxalot && $?unit2 \
  " \
   w uc.hpic0 0 1 0x008; \
   w uc.hpic0 1 1 0x010; \
   w uc.hpic0 2 1 0x080; \
   w uc.hpic0 3 1 0x100; \
   w uc.hpic0 4 1 0x002; \
   w uc.hpic0 5 1 0x004; \
                    ; \
   w uc.hpic1 0 1 0x008; \
   w uc.hpic1 1 1 0x010; \
   w uc.hpic1 2 1 0x080; \
   w uc.hpic1 3 1 0x100; \
   w uc.hpic1 4 1 0x002; \
   w uc.hpic1 5 1 0x004; \
                    ; \
   w uc.hpic2 0 1 0x008; \
   w uc.hpic2 1 1 0x010; \
   w uc.hpic2 2 1 0x080; \
   w uc.hpic2 3 1 0x100; \
   w uc.hpic2 4 1 0x002; \
   w uc.hpic2 5 1 0x004; \
                    ; \
   w uc.hpic3 0 1 0x008; \
   w uc.hpic3 1 1 0x010; \
   w uc.hpic3 2 1 0x080; \
   w uc.hpic3 3 1 0x100; \
   w uc.hpic3 4 1 0x002; \
   w uc.hpic3 5 1 0x004; \
                    ; \
   w uc.hpic6 0 1 0x008; \
   w uc.hpic6 1 1 0x010; \
   w uc.hpic6 2 1 0x080; \
   w uc.hpic6 3 1 0x100; \
   w uc.hpic6 4 1 0x002; \
   w uc.hpic6 5 1 0x004; \
```

```
                    ; \
    w uc.hpic7 0 1 0x008; \
    w uc.hpic7 1 1 0x010; \
    w uc.hpic7 2 1 0x080; \
    w uc.hpic7 3 1 0x100; \
    w uc.hpic7 4 1 0x002; \
    w uc.hpic7 5 1 0x004; \
                    ; \
    "

if $?lynxalot && $?lynx_any \
    "m modport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    m imodport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    "

if $?lynxalot && $?drac_any \
   "m modport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12 \
    port_for_mod4=12 port_for_mod5=12 \
    port_for_mod6=12 port_for_mod7=12; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12 \
    port_for_mod4=12 port_for_mod5=12 \
    port_for_mod6=12 port_for_mod7=12; \
    "

if $?lynxalot && $?unit0 \
   "stkmode modid=0"

if $?lynxalot && $?unit1 \
   "stkmode modid=1"

if $?lynxalot && $?unit3 \
   "stkmode modid=2"

if $?lynxalot && $?unit4 \
   "stkmode modid=3"

if $?lynxalot && $?unit5 \
   "stkmode modid=4"
```

```
if $?lynxalot && $?unit6 \
   "stkmode modid=5"

# guenevere setup
# (enabled by adding the property "guenevere=1")
# Notes:
#       hgX mapping based on pbmp_valid.0=0x1b7
# Draco unit 1 is on Herc port 1 (hg0/hpic0) (mod 0)
# Draco unit 2 is on Herc port 2 (hg1/hpic1) (mod 1)
# Lynx unit 3 is on Herc port 8 (hg5/hpic7) (mod 2)
# Lynx unit 4 is on Herc port 7 (hg4/hpic6) (mod 3)
# Higig conn 0 is on Herc port 4 (hg2/hpic3)
# Higig conn 1 is on Herc port 5 (hg3/hpic4)
#       Herc port 3 - Unused (hpic2)
#       Herc port 6 - Unused (hpic5)
if $?guenevere && $?unit0 \
   " \
    w uc.hpic0 0 1 0x002; \
    w uc.hpic0 1 1 0x004; \
    w uc.hpic0 2 1 0x100; \
    w uc.hpic0 3 1 0x080; \
                    ; \
    w uc.hpic1 0 1 0x002; \
    w uc.hpic1 1 1 0x004; \
    w uc.hpic1 2 1 0x100; \
    w uc.hpic1 3 1 0x080; \
                    ; \
    w uc.hpic7 0 1 0x002; \
    w uc.hpic7 1 1 0x004; \
    w uc.hpic7 2 1 0x100; \
    w uc.hpic7 3 1 0x080; \
                    ; \
    w uc.hpic6 0 1 0x002; \
    w uc.hpic6 1 1 0x004; \
    w uc.hpic6 2 1 0x100; \
    w uc.hpic6 3 1 0x080; \
                    ; \
    "

if $?guenevere && $?lynx_any \
    "m modport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    m imodport_7_0 \
    port_for_mod0=1 port_for_mod1=1 \
```

```
    port_for_mod2=1 port_for_mod3=1 \
    port_for_mod4=1 port_for_mod5=1 \
    port_for_mod6=1 port_for_mod7=1; \
    "

if $?guenevere && $?drac_any \
   "m modport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12 \
    port_for_mod4=12 port_for_mod5=12 \
    port_for_mod6=12 port_for_mod7=12; \
    m imodport_7_0 port_for_mod0=12 port_for_mod1=12 \
    port_for_mod2=12 port_for_mod3=12 \
    port_for_mod4=12 port_for_mod5=12 \
    port_for_mod6=12 port_for_mod7=12; \
    "

if $?guenevere && $?unit1 \
   "stkmode modid=0"

if $?guenevere && $?unit2 \
   "stkmode modid=1"

if $?guenevere && $?unit3 \
   "stkmode modid=2"

if $?guenevere && $?unit4 \
   "stkmode modid=3"

# felix48 setup
# (enabled by adding the property "felix48=1")
# Notes:
#       BCM56102 unit-0 higig port (port 26) is connected
#       to BCM56102 Unit-1 higig port (port 26)
#

if $?felix48 && $?unit0 \
   "stkmode modid=0 ; \
    m IEGR_PORT MY_MODID=0; \
    m XPORT_CONFIG MY_MODID=0; \
    w MODPORT_MAP 1 1 HIGIG_PORT_BITMAP=0x4 ; \
    "

if $?felix48 && $?unit1 \
   "stkmode modid=1 ; \
    m IEGR_PORT MY_MODID=1; \
    m XPORT_CONFIG MY_MODID=1; \
    w MODPORT_MAP 0 1 HIGIG_PORT_BITMAP=0x4 ; \
    "
```

```
# fbpoe setup
# (enabled by adding the property "fbpoe=1")
# Notes:
#       BCM56504 unit-0 higig port (port 27,28) is connected
#       to BCM56504 Unit-1 higig port (port 27,28)
#

if $?unit0 && $?firebolt_any && $?fbpoe     \
 "stkmode modid=0;          \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x4; \
  m HIGIG_TRUNK_GROUP HIGIG_TRUNK_RTAG1=3 \
                  HIGIG_TRUNK_ID1_PORT0=2 \
                  HIGIG_TRUNK_ID1_PORT1=3 \
                  HIGIG_TRUNK_ID1_PORT2=2 \
                  HIGIG_TRUNK_ID1_PORT3=3; \
  m HIGIG_TRUNK_CONTROL HIGIG_TRUNK_ID2=1 \
                    HIGIG_TRUNK2=1 \
                    HIGIG_TRUNK_ID3=1 \
                    HIGIG_TRUNK3=1 \
                    HIGIG_TRUNK_BITMAP1=0xc \
                    ACTIVE_PORT_BITMAP=0xf"

if $?unit1 && $?firebolt_any && $?fbpoe \
 "stkmode modid=1; \
  w modport_map 0 1 HIGIG_PORT_BITMAP=0x4; \
  m HIGIG_TRUNK_GROUP HIGIG_TRUNK_RTAG1=3 \
                  HIGIG_TRUNK_ID1_PORT0=2 \
                  HIGIG_TRUNK_ID1_PORT1=3 \
                  HIGIG_TRUNK_ID1_PORT2=2 \
                  HIGIG_TRUNK_ID1_PORT3=3; \
  m HIGIG_TRUNK_CONTROL HIGIG_TRUNK_ID2=1 \
                    HIGIG_TRUNK2=1 \
                    HIGIG_TRUNK_ID3=1 \
                    HIGIG_TRUNK3=1 \
                    HIGIG_TRUNK_BITMAP1=0xc \
                    ACTIVE_PORT_BITMAP=0xf"

# Dual Raptor/Raven boards
if $?raven_eb_48p || $?rap24_ref \
   "local rcpu_system 1"
if $?unit0 && $?rcpu_system \
  "stkmode modid=0"
if $?unit1 && $?rcpu_system \
  "stkmode modid=1"

# LM fb48 platform setup
# (enabled by adding the property "lm48p=1")
#
```

```
if $?unit0 && $?firebolt_any && $?lm48p || $?lm48p_D \
  "stkmode modid=0"

if $?unit1 && $?firebolt_any && $?lm48p || $?lm48p_D \
  "stkmode modid=1"

# Set Firebolt POE power level 170(total) - 110(switch) = 60
if $?fbpoe \
      "local poepower 60"

# Set Draco15 POE power level 170(total) - 80(switch) = 90
if $?drac15\
      "local poepower 90"

# Hurricane3 BCM956160R setup
# Notes:
#       BCM56160 unit-0 higig port (port 29,30) is connected
#       to BCM56160 Unit-1 higig port (port 26,27)
#

if $?bcm956160r && $?unit0  \
 "stkmode modid=0; \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x60000000; \
  trunk add id=128 r=3 pbm=hg0-hg1"

if $?bcm956160r && $?unit1  \
 "stkmode modid=1; \
  w modport_map 0 1 HIGIG_PORT_BITMAP=0xc000000; \
  trunk add id=128 r=3 pbm=hg0-hg1"

# if enable_poe is set, then enable the POE processor for
# either Firebolt or Draco15 platform
if $?unit0 && $?enable_poe && $?fbpoe || $?drac15 \
      "$echo rc: Enabling POE ...; \
       poesel reset; \
       i2c probe quiet; \
       xpoe verbose off; \
       xpoe power $poepower; \
       xpoe verbose on; \
       poesel enable"

# mark this unit so that subsequent rc runs are quiet
setenv rc$unit 1

if $?macsec '\
   macsec sync; \
   $echo "rc: MACSEC CLI Enabled"'
```

```
# cache a copy of rc.soc in memory
rccache addq rc.soc

# setup chassis if requested
if !"expr $?autochassis2 && $unit == $units - 1" \
   "setenv chassis2_no_rc 1; \
    rcload c2switch.soc; \
    setenv chassis2_no_rc; \
   "

# start stacking if requested
if !"expr $?autostack && $unit == $units - 1" \
 "rcload stk.soc"

if !"expr $?aedev + 0" && !"expr $unit == $units - 1" \
      "aedev init"

# hurricane 48p FE platform LED setup for 56146_A0 and 56147_A0 board
# (enabled by adding the property "fe_hu_48p=1")
#
if $?fe_hu_48p && $?BCM56146 || $?BCM56147 \
   "phy fe0 0x1f 0x008b; \
    phy fe0 0x1a 0x3f09;\
    phy fe8 0x1f 0x008b; \
    phy fe8 0x1a 0x3f09; \
    phy fe16 0x1f 0x008b; \
    phy fe16 0x1a 0x3f09"

# enable LED matrix mode for PHY54292 on BCM953411K/R
if $?bcm953411 \
   "rcload gh_bcm953411x.soc"

if $?simulator \
   'echo -n "Chip init finishes at: ";date'
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/rc.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam.c
* Purpose: Manages L3 interface table, forwarding table, routing table
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56685_a0.c
* Purpose:     bcm56685_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56685_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_reg_access.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph2.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       triumph2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/triumph2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_enum_defines.c,v 1.10 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_enum_defines.c
No license file was found, but licenses were detected in source scan.

```
/*
* The general level I2C driver for KeyStone I2C interface.
*
* The I2C interfaces (two I2C I/O ports) in Keystone can support the I2C
* features are :
*  1. Speed mode :
*      - Standard Mode (SM): 100 kbit/s
*      - Fast Mode(FM) : 400 kbit/s
*      - High-speed Mode(HM) : 3.4 mbit/s
*  2. M/S mode :
*      - Master Mode :
*      - Slave Mode : HW supported but SW is not supported yet.
*      - Mix Mode : In the case for Multi-Master connected on the I2C bus.
*                SW is not supported yet.
*  3. Addressing mode.
*      -7 bits Mode : default supported.
*      - 10 bits mode : HW supportd but SW is not supported yet.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: chipc_i2c.c,v 1.7 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/chipc_i2c.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: chipsim.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        chipsim.c
*
*     The main pcid file; simulates BCM 5670 and 5690.
*
```

```
* Requires:
*     util.c routines
*     soc_internal_read/write
*
* Provides:
*     event_init
*     event_enqueue
*     event_peek
*     event_process_through
*     pcid_counter_activity
*     pcid_check_packet_input
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/chipsim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_flow_control.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_flow_control.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56040sanity.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Ranger BCM56040/41/42 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*
```

```
# Enabling all ports; bcm56040 SKU

if $?BCM56040_A0 || $?BCM56340_A0 \
   'local pbmge  0x3e;    local pbmge25 0x0; local pbmmgmt 0x20; local pbmhg 0x180000; \
   local pbmport 0x22200; local pbmxe   0x7fe00 '

if $?BCM56041_A0 \
   'local pbmge  0x1e;   local pbmge25 0x0; local pbmmgmt 0x2000; local pbmhg 0x1e0000; \
   local pbmport 0x3ffe; local pbmxe   0x1fe00; echo **56041** '

if $?BCM56042_A0 \
   'local pbmge  0x3ffe; local pbmge25 0x3dfc000; local pbmmgmt 0x2000; local pbmhg 0x0; \
   local pbmport 0x3ffe; local pbmxe   0x0; echo **56042** '

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: Ranger sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

if !$?ihost_mode \
```

```
  'echo "Running PCI S-Channel Buf ...";\
   tr 4;\
   $done;'

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
#tr 21
$done

ranger_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done
```

```
echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

ps

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 1 Gb/s on Mgmt port"
tr 18 PortBitMap=$pbmmgmt Speed=1000
$done

echo "Testing MAC Loopback - 2.5 Gb/s GE 2.5 ports"
tr 18 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 11 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=11G
$done

echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 1 Gb/s on Mgmt port"
tr 19 PortBitMap=$pbmmgmt Speed=1000
$done

echo "Testing PHY Loopback - 2.5 Gb/s GE 2.5 ports"
tr 19 PortBitMap=$pbmge25 Speed=2500
$done
```

```
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 11 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg Speed=11G
$done

# tr 48 does not work with mix of port types
echo "Running MAC loopback V2 on GE ports..."
tr 48 pbm=$pbmge
$done

echo "Running MAC loopback V2 on XE ports ..."
tr 48 pbm=$pbmxe
$done

echo "Running MAC loopback V2 on HG ports ..."
tr 48 pbm=$pbmhg
$done

# tr 49 does not work with mix of port types
echo "Running PHY loopback V2 on GE ports ..."
tr 49 pbm=$pbmge
$done

echo "Running PHY loopback V2 on XE ports ..."
tr 49 pbm=$pbmxe
$done

echo "Running PHY loopback V2 on HG ports ..."
tr 49 pbm=$pbmhg
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

#echo "Running internal snake on XE ports, MAC loopback ..."
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
#$done

#echo "Running internal snake on XE ports, PHY loopback ..."
```

```
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
#$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

#Traffic Test
echo "Running Traffic Test on GE 2.5 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge25 c=10 sp=2500
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=11G
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=11G
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56040sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* File:    arl.c
* Purpose:
*      Provide Starfighter3 specific ARL soc drivers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_l.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_l.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_interrupt.c,v 1.32 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF INTERRUPT
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_interrupt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_fabric.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allfields.h
* Purpose:    Field declarations for memory and registers
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
*             bcm56685_a0
```

* bcm56685_b0
* bcm56334_a0
* bcm56334_b0
* bcm88230_a0
* bcm88230_b0
* bcm88230_c0
* bcm56840_a0
* bcm56840_b0
* bcm88650_a0
* bcm88650_b0
* bcm88660_a0
* bcm2801pm_a0
* bcm88202_a0
* bcm88675_a0
* bcm83207_a0
* bcm83208_a0
* bcm88732_a0
* bcm56440_a0
* bcm56440_b0
* bcm88030_a0
* bcm88030_a1
* bcm88030_b0
* bcm56640_a0
* bcm88750_a0
* bcm88750_b0
* bcm88754_a0
* bcm88950_a0
* bcm88790_a0
* bcm56850_a0
* bcm56450_a0
* bcm56450_b0
* bcm56450_b1
* bcm56340_a0
* bcm56150_a0
* bcm53400_a0
* bcm56960_a0
* bcm56860_a0
* bcm56560_a0
* bcm56560_b0
* bcm56260_a0
* bcm56260_b0
* bcm88375_a0
* bcm88470_a0
* bcm88470_b0
* bcm88270_a0
* bcm8206_a0
* bcm88675_b0
* bcm88375_b0

```
*           bcm88680_a0
*           bcm88690_a0
*           bcm56160_a0
*           bcm56270_a0
*           bcm56965_a0
*           bcm56970_a0
*           bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/allfields.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_callback_handles.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_callback_handles.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_callback_handles.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:    BCM56230 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.42 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_ports.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmarch.h,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/arch/nlmarch.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: phymod.c,v 1.2.2.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
```

```
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: sws.c,v 1.7.16.11 Broadcom SDK $
*
* File:    sws.c
* Purpose: Caladan3 SWS drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/sws.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-1x40g-8x10g-ilkn100.bcm,v 1.1.2.1 Broadcom SDK $
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

# run g3p1 ucode
diag_emulator_partial_init=0
#lrp_bypass=2
load_firmware=0x1

line_pr_buffer_profile=2

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# ucode port definition
ucode_num_ports.0=9
ucode_port.port1.0=clport0.xle.0.0:il1.il100.0.0
ucode_port.port5.0=clport0.xe.1.0:il1.il100.0.1
ucode_port.port6.0=clport0.xe.1.1:il1.il100.0.2
ucode_port.port7.0=clport0.xe.1.2:il1.il100.0.3
ucode_port.port8.0=clport0.xe.1.3:il1.il100.0.4
ucode_port.port9.0=clport0.xe.2.0:il1.il100.0.5
ucode_port.port10.0=clport0.xe.2.1:il1.il100.0.6
ucode_port.port11.0=clport0.xe.2.2:il1.il100.0.7
ucode_port.port12.0=clport0.xe.2.3:il1.il100.0.8

# C3 Line side
```

```
# 40G xe port lane map
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032
xgxs_rx_lane_map_xe5=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe5=0x1032

# 40G xe rx/tx polarity
phy_xaui_rx_polarity_flip_xe0=0x0009
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0000
phy_xaui_rx_polarity_flip_xe8=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0003
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0000
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0001


#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_il1=0x1032
xgxs_rx_lane_map_core1_il1=0x3210
xgxs_rx_lane_map_core2_il1=0x1032

xgxs_tx_lane_map_core0_il1=0x1032
xgxs_tx_lane_map_core1_il1=0x3210
xgxs_tx_lane_map_core2_il1=0x1032

higig2_hdr_mode_hg0=0
port_init_speed_il0=10312

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110
```

```
# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
```

ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999
ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595

ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1x40g_8x10g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.418 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     API for Field Processor (FP) for ROBO family and later.
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_multicast.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_multicast.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceEBSEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceEBSEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_defs.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: devs.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C driver for the CPU Management Interface Controller (CMIC). This
* module provides for discovery and loading of I2C device drivers and
* manipulation of I2C device state.
*
* See also: bus.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/devs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0AEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0AEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

SDK Linux Kernel Support

The Broadcom SDK can be compiled as a loadable kernel module,
providing driver services to application kernel modules.

The Linux kernel support is comprised of several modules, the source
to which can mostly be found under the 'modules' subdirectory.

Linux kernel support is broken into the following functional modules:

linux-kernel-bde.o
---

source: sdk/systems/bde/linux/kernel

This module implements a Broadcom Device Enumerator interface for the
Linux kernel (see sdk/include/ibde.h). When the driver is running in
kernel mode, it uses the BDE exported by this module for initialization
and chip access. This module must be loaded first, and has no other
module dependencies.

The BDE needs a memory block outside the Linux system memory space for

allocation of DMA memory. The easiest and most flexible way to to this is to use the kernel parameter 'mem', e.g. on a 64MB system, 'mem=56M' will reserve 8MB of memory for DMA.

The linux-kernel-bde module optionally takes two parameters:

dmasize - DMA memory block size (default probe for available memory.)
debug - more verbose output when loading and initializing.

Example:

insmod linux-kernel-bde.o dmasize=8M debug=2

linux-uk-proxy.o
---

source: sdk/systems/linux/kernel/modules/uk-proxy

This module provides an API for creating proxy services between Linux user mode and kernel mode.

The linux-uk-proxy module does not take any parameters.

Example:

insmod linux-uk-proxy.o

linux-bcm-diag-full.o
---

source: sdk/systems/linux/kernel/modules/bcm-diag-full

This module is the core BCM driver and diagnostics shell module. It depends upon the linux-kernel-bde module to provide its BDE and the linux-uk-proxy module to provide a proxy service to allow a user mode application to connect to the diagnostics shell (CLI).

The linux-bcm-diag-full module optionally takes one parameter:

debug - more verbose output when loading and initializing.

Example:

insmod linux-bcm-diag-full.o debug=2

The kernel/user directory contains user mode applications to run on
top of the BCM driver.

The following application is compiled by default:

bcm.user.proxy

This program is a proxy client used for accessing the BCM diagnostics
shell in the linux-bcm-diag-full module. By default the bcm.user.proxy
program will provide a user mode shell on the local system, but it is
possible to let it act as a simple terminal server, which can be
accessed remotely using a telnet client.

The other subdirectories here contain makefile configurations for
the different platforms and kernels currently supported.

For example, building the kernel modules for the BRCM 8245 CPCI board
(BMW) is as easy as:

 cd bmw; gmake;

This command will build the modules described above as well as the
bcm.user.proxy program. The modules must be inserted in the same
order as described above.

All of this, of course, requires the Linux kernel headers for the
platform and a compatible toolchain.

Kernel source and toolchains for the platforms supported here are
available from Broadcom as a separate distribution.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/linux/kernel/README
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR0BwpEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/fabric/sbZfFabBm9600BwR0BwpEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: falcon_furia_fields_public.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                           *
*  Description   :  Register access macros for FALCON_FURIA                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/public/falcon_furia_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_metering.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_metering.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/hurricane2/port.c
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_qe_auto.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_qe_auto.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gmac0_core.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/gmac0_core.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_encap.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_eg_encap.h
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_encap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vswitch.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Generic Virtual Switching
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/vswitch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: feature.h,v 1.545 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC_FEATURE definitions
*
* File:       feature.h
* Purpose:     Define features by chip
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/feature.h
No license file was found, but licenses were detected in source scan.

```
# $Id: ensanity.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Enduro (BCM56334) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56132_A0 || $?BCM56132_B0 || $?BCM56132_B1 \
   'local BCM56132 1'
if $?BCM56134_A0 || $?BCM56134_B0 || $?BCM56134_B1 \
   'local BCM56134 1'
if $?BCM56331_A0 || $?BCM56331_B0 || $?BCM56331_B1 \
```

```
   'local BCM56331 1'
if $?BCM56333_A0 || $?BCM56333_B0 || $?BCM56333_B1 \
   'local BCM56333 1'
if $?BCM56334_A0 || $?BCM56334_B0 || $?BCM56334_B1 \
   'local BCM56334 1'
if $?BCM56338_A0 || $?BCM56338_B0 || $?BCM56338_B1 \
   'local BCM56338 1'
if $?BCM56320_A0 || $?BCM56320_B0 || $?BCM56320_B1 \
   'local BCM56320 1'
if $?BCM56321_A0 || $?BCM56321_B0 || $?BCM56321_B1 \
   'local BCM56321 1'
if $?BCM56230_B1 \
   'local BCM56230 1'
if $?BCM56231_B1 \
   'local BCM56231 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
```

```
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
```

```
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
```

```
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
if $?BCM56331 || $?BCM56333 || $?BCM56334 || $?BCM56338 || $?BCM56132 || $?BCM56134 || $?BCM56230 ||
$?BCM56231 \
```

```
  'echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE"; \
   tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; \
   tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; \
   tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; \
   tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T; \
   tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T; \
   tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;'
echo " EGR_PBE_DEBUG";
#tr 50 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 51 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 52 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=F SLTH=T; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=T SLTH=T; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=T SLTH=F; # EGR_PBE_DEBUG table is NOTEST;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
```

```
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
```

```
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_PORT_FIELD_SEL";
tr 50 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
#tr 51 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
#tr 52 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=F SLTH=T;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=T SLTH=T;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=T SLTH=F;
if $?BCM56334 \
   'tr 50 M=IFP_PORT_FIELD_SEL IS=26 IE=29; \
   tr 51 M=IFP_PORT_FIELD_SEL IS=26 IE=29; \
   tr 52 M=IFP_PORT_FIELD_SEL IS=26 IE=29; \
   tr 71 M=IFP_PORT_FIELD_SEL S=26 C=4 TSE=F SLTH=T; \
   tr 71 M=IFP_PORT_FIELD_SEL S=26 C=4 TSE=T SLTH=T; \
   tr 71 M=IFP_PORT_FIELD_SEL S=26 C=4 TSE=T SLTH=F;'
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
```

```
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_COUNTERS";
tr 50 M=ING_PW_TERM_COUNTERS;
```

```
tr 51 M=ING_PW_TERM_COUNTERS;
tr 52 M=ING_PW_TERM_COUNTERS;
tr 71 M=ING_PW_TERM_COUNTERS TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
```

```
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE";
tr 50 M=IPV6_PROXY_ENABLE;
tr 51 M=IPV6_PROXY_ENABLE;
tr 52 M=IPV6_PROXY_ENABLE;
tr 71 M=IPV6_PROXY_ENABLE TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
```

```
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
```

```
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
tr 71 M=L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
```

```
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_1";
tr 50 M=LMEP_1;
```

```
tr 51 M=LMEP_1;
tr 52 M=LMEP_1;
tr 71 M=LMEP_1 TSE=F SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
```

```
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
tr 71 M=CBPCELLHEADER TSE=F SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
```

```
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
```

```
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
```

```
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADERCPU";
tr 50 M=CBPPKTHEADERCPU;
tr 51 M=CBPPKTHEADERCPU;
tr 52 M=CBPPKTHEADERCPU;
tr 71 M=CBPPKTHEADERCPU TSE=F SLTH=T;
tr 71 M=CBPPKTHEADERCPU TSE=T SLTH=T;
tr 71 M=CBPPKTHEADERCPU TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
```

```
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
```

```
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
```

```
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
```

```
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
```

```
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
```

```
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
tr 71 M=MODPORT_MAP_EM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
tr 71 M=MODPORT_MAP_IM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
```

```
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
if $?BCM56331 || $?BCM56333 || $?BCM56334 || $?BCM56338 || $?BCM56132 || $?BCM56134 || $?BCM56230 ||
$?BCM56231 \
  'echo " MPLS_ENTRY"; \
   tr 50 M=MPLS_ENTRY; \
   tr 51 M=MPLS_ENTRY; \
   tr 52 M=MPLS_ENTRY; \
   tr 71 M=MPLS_ENTRY TSE=F SLTH=T; \
   tr 71 M=MPLS_ENTRY TSE=T SLTH=T; \
   tr 71 M=MPLS_ENTRY TSE=T SLTH=F;'
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
if $?BCM56331 || $?BCM56333 || $?BCM56334 || $?BCM56338 || $?BCM56132 || $?BCM56134 || $?BCM56230 ||
$?BCM56231 \
  'echo " OAM_LM_COUNTERS"; \
   tr 50 M=OAM_LM_COUNTERS; \
   tr 51 M=OAM_LM_COUNTERS; \
   tr 52 M=OAM_LM_COUNTERS; \
   tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T; \
   tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T; \
   tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;'
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
```

```
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
```

```
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
tr 71 M=SRC_MODID_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SVP_DISABLE_VLAN_CHECKS";
tr 50 M=SVP_DISABLE_VLAN_CHECKS;
tr 51 M=SVP_DISABLE_VLAN_CHECKS;
tr 52 M=SVP_DISABLE_VLAN_CHECKS;
tr 71 M=SVP_DISABLE_VLAN_CHECKS TSE=F SLTH=T;
tr 71 M=SVP_DISABLE_VLAN_CHECKS TSE=T SLTH=T;
tr 71 M=SVP_DISABLE_VLAN_CHECKS TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " TCP_FN";
```

```
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
```

```
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
```

```
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
```

```
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
if $?BCM56334 \
  'echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0"; \
   tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0; \
   tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0; \
   tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;'
if $?BCM56334 \
  'echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0"; \
   tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0; \
   tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0; \
   tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;'
if $?BCM56334 \
  'echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0"; \
   tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0; \
   tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0; \
   tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0; \
   tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T; \
   tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T; \
   tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;'
if $?BCM56334 \
  'echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1"; \
   tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1; \
   tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1; \
   tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;'
if $?BCM56334 \
  'echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1"; \
   tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1; \
   tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1; \
   tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T; \
   tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;'
if $?BCM56334 \
  'echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1"; \
   tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1; \
   tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1; \
   tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1; \
```

```
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2"; \
    tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2; \
    tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2; \
    tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2"; \
    tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2; \
    tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2; \
    tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2"; \
    tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2; \
    tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2; \
    tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3"; \
    tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3; \
    tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3; \
    tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3"; \
    tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3; \
    tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3; \
    tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;'
if $?BCM56334 \
   'echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3"; \
    tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3; \
    tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3; \
    tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3; \
```

```
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T; \
    tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;'

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
```

```
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

if $?BCM56331 || $?BCM56333 || $?BCM56334 || $?BCM56338 || $?BCM56132 || $?BCM56134 || $?BCM56230 ||
$?BCM56231 \
  'echo "Running MPLS overflow insert test ..."; \
   tr 104; \
   $done'

if $?BCM56331 || $?BCM56333 || $?BCM56334 || $?BCM56338 || $?BCM56132 || $?BCM56134 || $?BCM56230 ||
$?BCM56231 \
  'echo "Running MPLS hash tests ..."; \
   tr 105 hash=0; \
   tr 105 hash=1; \
```

```
  tr 105 hash=2; \
  tr 105 hash=3; \
  tr 105 hash=4; \
  tr 105 hash=5; \
  $done'

# Disable the link thread while testing the tr 60
# Reload rc will restart the link thread, so set rct=false before testing
set rct=false
rcload rc.soc
linkscan off

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

# Re-initialize to set rct=true after tr 60 testing
#  - link thread with rct=true will be started
set rct=true

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=fe speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=fe speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done
```

```
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 13 Gb/s all HG ports"
tr 18 pbm=hg speed=13G
$done

echo "Testing MAC Loopback - MAX Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=fe speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=fe speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

#echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
#$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 13 Gb/s all HG ports"
tr 19 pbm=hg speed=13G
$done

echo "Testing PHY Loopback - MAX Gb/s all HG ports"
tr 19 pbm=hg speed=MAX

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done
```

```
echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

#Reload Test
echo "TX Reload Test"
tr 90

echo "RX Reload Test"
tr 91

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
```

```
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ensanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOnuApi.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOnuApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOnuApi.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_lif.c
*
* MODULE PREFIX:  DuneDriver/ppc/src/
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_lif.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       credit_request_thresholds.c
*
* Purpose:
* Define default credit request profiles for DPP diag init (appl).
*
* Focal function:
* appl_dpp_cosq_diag_credit_request_thresholds_set()
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/credit_request_thresholds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JERP INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JERP/jerp_intr.h
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc

# VALID memories
```

```
local mem AGM_MONITOR_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
#local mem CENTRAL_CTR_EVICTION_FIFO;                    $name; $tr50; $tr51; $tr52;
#local mem CLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem CPU_PBM;                    $name; $tr50; $tr51; $tr52;
#local mem CPU_PBM_2;                    $name; $tr50; $tr51; $tr52;
local mem CPU_TS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
#local mem DEVICE_LOOPBACK_PORTS_BITMAP;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_ECMP_EEM_CONFIGURATION;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE;                    $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_GLB_QUANTIZE_THRESHOLD;                    $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_ECMP_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_MEMBERSHIP;                  $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_PORT_TO_MEMBER;              $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_STATS;                       $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_STATS_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_STATS_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_STATS_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_GROUP_STATS_PIPE3;                 $name; $tr50; $tr51; $tr52;
#local mem DLB_ECMP_LINK_CONTROL;                     $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_OPTIMAL_CANDIDATE;                 $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0;           $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1;           $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2;           $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3;           $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE;          $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0;    $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1;    $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2;    $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3;    $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE;         $name; $tr50; $tr51;
$tr52;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0;   $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1;   $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2;   $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3;   $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_MAPPING;              $name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL;                $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE;     $name; $tr50;
$tr51; $tr52;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0;                $name;
```

```
$tr50; $tr51; $tr52;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_ECMP_QUANTIZE_CONTROL;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_LAG_EEM_CONFIGURATION;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_STATS;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_LAG_LINK_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE;                    $name; $tr50; $tr51;
$tr52;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0;
    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1;
    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2;
    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3;
    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE;                    $name;
$tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3;
$name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_LAG_QUANTIZE_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_DATA_ONLY_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_DATA_ONLY_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_DATA_ONLY_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_DATA_ONLY_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_TCAM_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem ECMP_DLB_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_EXP_TO_INT_CN_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_INT_CN_TO_EXP_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_INT_CN_TO_IP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_INT_CN_UPDATE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_CUT_THRU_CLASS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_ECN_TO_EXP_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TO_INT_CN_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CELL_CREDIT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS;                    $name; $tr50; $tr51;
$tr52;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TS_ING_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_TS_UTC_CONVERSION;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TUNNEL_ECN_ENCAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TUNNEL_ECN_ENCAP_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_VLAN_STG;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                              $name; $tr50; $tr51; $tr52;
local mem EGR_VNTAG_ETAG_PROFILE;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                                $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                               $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ECC;                     $name; $tr50; $tr51; $tr52;
local mem EGR_VXLT_ACTION_TABLE_A;                        $name; $tr50; $tr51; $tr52;
local mem EGR_VXLT_ACTION_TABLE_B;                        $name; $tr50; $tr51; $tr52;
local mem EGR_VXLT_REMAP_TABLE_A;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VXLT_REMAP_TABLE_B;                         $name; $tr50; $tr51; $tr52;
local mem EGR_XMIT_START_COUNT;                           $name; $tr50; $tr51; $tr52;
local mem EGR_XMIT_START_COUNT_PIPE0;                     $name; $tr50; $tr51; $tr52;
local mem EGR_XMIT_START_COUNT_PIPE1;                     $name; $tr50; $tr51; $tr52;
local mem EGR_XMIT_START_COUNT_PIPE2;                     $name; $tr50; $tr51; $tr52;
local mem EGR_XMIT_START_COUNT_PIPE3;                     $name; $tr50; $tr51; $tr52;
local mem EH_MASK_PROFILE;                                $name; $tr50; $tr51; $tr52;
local mem EH_MASK_PROFILE_PIPE0;                          $name; $tr50; $tr51; $tr52;
local mem EH_MASK_PROFILE_PIPE1;                          $name; $tr50; $tr51; $tr52;
local mem EH_MASK_PROFILE_PIPE2;                          $name; $tr50; $tr51; $tr52;
local mem EH_MASK_PROFILE_PIPE3;                          $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                                $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                               $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                               $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                               $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                                   $name; $tr50; $tr51; $tr52;
#local mem EPC_LINK_BMAP;                                 $name; $tr50; $tr51; $tr52;
#local mem EXACT_MATCH_2;                                 $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_ENTRY_ONLY;                      $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE0;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE1;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE2;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE3;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_PIPE0;                           $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_PIPE1;                           $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_PIPE2;                           $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_2_PIPE3;                           $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4;                                 $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_ENTRY_ONLY;                      $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE0;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE1;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE2;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE3;                $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_PIPE0;                           $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_PIPE1;                           $name; $tr50; $tr51; $tr52;'
```

```
#local mem EXACT_MATCH_4_PIPE2;                    $name; $tr50; $tr51; $tr52;'
#local mem EXACT_MATCH_4_PIPE3;                    $name; $tr50; $tr51; $tr52;'
local mem EXACT_MATCH_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_DEFAULT_POLICY;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem EXACT_MATCH_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;'
local mem EXACT_MATCH_KEY_GEN_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE;                    $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY;                    $name;
$tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY;                    $name;
```

```
$tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0;              $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1;              $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2;              $name; $tr50; $tr51;
$tr52;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3;              $name; $tr50; $tr51;
$tr52;
local mem FAST_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
#local mem FPEM_ECC;                    $name; $tr50; $tr51; $tr52;'
#local mem FPEM_ECC_PIPE0;                    $name; $tr50; $tr51; $tr52;'
#local mem FPEM_ECC_PIPE1;                    $name; $tr50; $tr51; $tr52;'
#local mem FPEM_ECC_PIPE2;                    $name; $tr50; $tr51; $tr52;'
#local mem FPEM_ECC_PIPE3;                    $name; $tr50; $tr51; $tr52;'
#local mem FPEM_LP;                    $name; $tr50; $tr51; $tr52;'
local mem GTP_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem HGT_DLB_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
#local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_RR_CNT;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_RR_CNT_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_RR_CNT_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_RR_CNT_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_RR_CNT_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MODE;                    $name; $tr50; $tr51; $tr52;
#local mem HIGIG_TRUNK_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE0;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE1;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE2;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT0;             $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE0;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE1;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE2;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE3;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT1;             $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE0;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE1;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE2;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE3;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT2;             $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE0;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE1;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE2;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE3;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT3;             $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE0;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE1;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE2;       $name; $tr50; $tr51; $tr52;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT0;            $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE0;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE1;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE2;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE3;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT1;            $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE0;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE1;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE2;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE3;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT2;            $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE0;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE1;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE2;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE3;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT3;            $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE0;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE1;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE2;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE3;      $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT0;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE2;       $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT3;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT0;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE0;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE1;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE2;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE3;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT1;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE0;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE1;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE2;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE3;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT2;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE0;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE1;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE2;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE3;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT3;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE0;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE1;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE2;                 $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE3;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT0;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE3;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT1;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE3;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT2;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE3;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT3;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE3;                 $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM12_ETAG_MAP_PORT0;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM12_ETAG_MAP_PORT1;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM12_ETAG_MAP_PORT2;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM12_ETAG_MAP_PORT3;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM12_PRI_MAP_PORT0;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM12_PRI_MAP_PORT1;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM12_PRI_MAP_PORT2;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM12_PRI_MAP_PORT3;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM13_DSCP_MAP_PORT0;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM13_DSCP_MAP_PORT1;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE1;
```

```
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT0;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT1;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT2;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT3;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT0;               $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE0;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE1;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE2;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE3;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT1;               $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE0;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE1;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE2;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE3;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT2;               $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE0;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE1;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE2;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE3;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT3;               $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE0;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE1;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE2;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE3;         $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE2;          $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM1_ETAG_MAP_PORT0;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM1_ETAG_MAP_PORT1;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM1_ETAG_MAP_PORT2;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM1_ETAG_MAP_PORT3;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT0;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT1;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT2;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT3;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT0;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT1;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE1;
```

```
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE3;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE3;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE0;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE1;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT3;                $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE0;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE1;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE2;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE3;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT0;              $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE0;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE1;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE2;        $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT1;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT2;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT3;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT0;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT1;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT2;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT3;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT0;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT1;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT2;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE0;
```

```
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM5_ETAG_MAP_PORT0;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM5_ETAG_MAP_PORT1;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM5_ETAG_MAP_PORT2;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM5_ETAG_MAP_PORT3;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM5_PRI_MAP_PORT0;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM5_PRI_MAP_PORT1;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM5_PRI_MAP_PORT2;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM5_PRI_MAP_PORT3;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM6_DSCP_MAP_PORT0;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM6_DSCP_MAP_PORT1;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE1;
```

```
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE0;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE1;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE2;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE3;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3;              $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE0;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE1;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE2;        $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE3;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3;             $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE0;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE1;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE2;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE3;       $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT0;              $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE0;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE1;        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE2;        $name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM7_PRI_MAP_PORT1;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM7_PRI_MAP_PORT2;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM7_PRI_MAP_PORT3;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT0;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT1;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT2;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT3;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT0;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT1;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT2;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE0;
```

```
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT3;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT0;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT1;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT2;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT3;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM9_DSCP_MAP_PORT0;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM9_DSCP_MAP_PORT1;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM9_DSCP_MAP_PORT2;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM9_DSCP_MAP_PORT3;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE3;
```

```
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
```

```
#local mem IDB_OBM9_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_HG_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem IFP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0;                     $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1;                     $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2;                     $name; $tr50; $tr51; $tr52;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3;                     $name; $tr50; $tr51; $tr52;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY;                    $name; $tr50; $tr51; $tr52;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0;              $name; $tr50; $tr51;
$tr52;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1;              $name; $tr50; $tr51;
$tr52;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2;              $name; $tr50; $tr51;
$tr52;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3;              $name; $tr50; $tr51;
$tr52;
local mem IFP_LOGICAL_TABLE_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY;                    $name; $tr50; $tr51;
$tr52;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE0;              $name; $tr50; $tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE1;              $name; $tr50; $tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE2;              $name; $tr50; $tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE3;              $name; $tr50; $tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY;                    $name; $tr50; $tr51;
$tr52;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2;              $name; $tr50;
$tr51; $tr52;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3;              $name; $tr50;
$tr51; $tr52;
local mem IFP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IFP_METER_TABLE_PIPE0;              $name; $tr50; $tr51; $tr52;
local mem IFP_METER_TABLE_PIPE1;              $name; $tr50; $tr51; $tr52;
local mem IFP_METER_TABLE_PIPE2;              $name; $tr50; $tr51; $tr52;
local mem IFP_METER_TABLE_PIPE3;              $name; $tr50; $tr51; $tr52;
local mem IFP_POLICY_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem IFP_POLICY_TABLE_PIPE0;             $name; $tr50; $tr51; $tr52;
local mem IFP_POLICY_TABLE_PIPE1;             $name; $tr50; $tr51; $tr52;
local mem IFP_POLICY_TABLE_PIPE2;             $name; $tr50; $tr51; $tr52;
```

```
local mem IFP_POLICY_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IFP_PORT_METER_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_RANGE_CHECK;                    $name; $tr50; $tr51; $tr52;
local mem IFP_RANGE_CHECK_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IFP_RANGE_CHECK_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IFP_RANGE_CHECK_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IFP_RANGE_CHECK_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IFP_STORM_CONTROL_METERS;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_WIDE;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_WIDE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_WIDE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_WIDE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IFP_TCAM_WIDE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
#local mem ING_DEST_PORT_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DNAT_ADDRESS_TYPE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DNAT_ADDRESS_TYPE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                    $name; $tr50; $tr51; $tr52;
#local mem ING_EN_EFILTER_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_ETAG_PCP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_EXP_TO_IP_ECN_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_FC_HEADER_TYPE;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_10;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_11;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_12;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_13;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_14;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_15;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_16;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_17;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_18;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_19;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_8;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_9;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_10;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_11;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_12;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_13;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_14;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_15;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_16;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_17;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_18;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_19;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_8;          $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_OFFSET_TABLE_9;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;               $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                   $name; $tr50;
local mem ING_L3_NEXT_HOP;                                $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_ENTRY_ACTION_TABLE_A;                  $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_ENTRY_ACTION_TABLE_B;                  $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_ENTRY_REMAP_TABLE_A;                   $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_ENTRY_REMAP_TABLE_B;                   $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                           $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem ING_PHY_TO_IDB_PORT_MAP;                        $name; $tr50; $tr51; $tr52;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE3;                  $name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                                $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                            $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_PIPE0;                      $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_PIPE1;                      $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_PIPE2;                      $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_PIPE3;                      $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                     $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_PIPE0;                            $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_PIPE1;                            $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_PIPE2;                            $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_PIPE3;                            $name; $tr50; $tr51; $tr52;
local mem ING_SNAT;                                       $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_DATA_ONLY;                             $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY;                              $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_ONLY;                                  $name; $tr50; $tr51; $tr52;
local mem ING_TRILL_ADJACENCY;                            $name; $tr50; $tr51; $tr52;
#local mem ING_TRILL_PARSE_CONTROL;                       $name; $tr50; $tr51; $tr52;
#local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;               $name; $tr50; $tr51; $tr52;
local mem ING_TUNNEL_ECN_DECAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_TUNNEL_ECN_DECAP_2;                         $name; $tr50; $tr51; $tr52;
local mem ING_UNTAGGED_PHB;                               $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                                 $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                         $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ECC;                     $name; $tr50; $tr51; $tr52;
local mem ING_VXLT_ACTION_TABLE_A;                        $name; $tr50; $tr51; $tr52;
```

```
local mem ING_VXLT_ACTION_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem ING_VXLT_REMAP_TABLE_A;                     $name; $tr50; $tr51; $tr52;
local mem ING_VXLT_REMAP_TABLE_B;                     $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#local mem INSTRUMENTATION_TRIGGERS_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem INT_CN_TO_MMUIF_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IP_PROTO_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IP_PROTO_MAP_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem IP_PROTO_MAP_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem IP_PROTO_MAP_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem IP_PROTO_MAP_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem IP_TO_INT_CN_MAPPING;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR0;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR1;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem IS_TDM_CALENDAR1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
local mem L2_BULK;                    $name; $tr50; $tr51; $tr52;
local mem L2X;                    $name; $tr50; $tr51; $tr52;
#local mem L2_ENTRY_ISS_LP;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_TILE;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_TILE;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr50; $tr51; $tr52;
#local mem L2_MGMT_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_ECC;                    $name; $tr50; $tr51; $tr52;'
```

```
#local mem L3_DEFIP_ALPM_HIT_ONLY; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_IPV4; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_IPV4_1; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_IPV6_128; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_IPV6_64; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_IPV6_64_1; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_ALPM_RAW; $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE; $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_AUX_SCRATCH; $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_TABLE; $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_DATA_ONLY; $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_HIT_ONLY; $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ONLY; $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_PAIR_128_DATA_ONLY; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_PAIR_128_HIT_ONLY; $name; $tr50; $tr51; $tr52;'
#local mem L3_DEFIP_PAIR_128_ONLY; $name; $tr50; $tr51; $tr52;'
local mem L3_ECMP; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_RRLB_CNT; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_RRLB_CNT_PIPE0; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_RRLB_CNT_PIPE1; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_RRLB_CNT_PIPE2; $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_RRLB_CNT_PIPE3; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST; $name; $tr50; $tr51; $tr52;
#local mem L3_ENTRY_ISS_LP; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY; $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC; $name; $tr50; $tr51; $tr52;
local mem L3_IIF; $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE; $name; $tr50; $tr51; $tr52;
local mem L3_IPMC; $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP; $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES; $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL; $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY; $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY; $name; $tr50; $tr51; $tr52;
local mem LAG_DLB_CONTROL; $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM; $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR; $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB; $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK; $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL; $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_CBPData0;
local mem MMU_CBPData0_XPE0;
local mem MMU_CBPData0_XPE1;
local mem MMU_CBPData0_XPE2;
local mem MMU_CBPData0_XPE3;
#local mem MMU_CBPData1;
#local mem MMU_CBPData10;
#local mem MMU_CBPData100;
local mem MMU_CBPData100_XPE0;
local mem MMU_CBPData100_XPE1;
local mem MMU_CBPData100_XPE2;
local mem MMU_CBPData100_XPE3;
#local mem MMU_CBPData101;
local mem MMU_CBPData101_XPE0;
local mem MMU_CBPData101_XPE1;
local mem MMU_CBPData101_XPE2;
local mem MMU_CBPData101_XPE3;
#local mem MMU_CBPData102;
local mem MMU_CBPData102_XPE0;
local mem MMU_CBPData102_XPE1;
local mem MMU_CBPData102_XPE2;
local mem MMU_CBPData102_XPE3;
#local mem MMU_CBPData103;
local mem MMU_CBPData103_XPE0;
local mem MMU_CBPData103_XPE1;
local mem MMU_CBPData103_XPE2;
local mem MMU_CBPData103_XPE3;
#local mem MMU_CBPData104;
local mem MMU_CBPData104_XPE0;
local mem MMU_CBPData104_XPE1;
local mem MMU_CBPData104_XPE2;
local mem MMU_CBPData104_XPE3;
#local mem MMU_CBPData105;
local mem MMU_CBPData105_XPE0;
local mem MMU_CBPData105_XPE1;
local mem MMU_CBPData105_XPE2;
local mem MMU_CBPData105_XPE3;
#local mem MMU_CBPData106;
local mem MMU_CBPData106_XPE0;
local mem MMU_CBPData106_XPE1;
local mem MMU_CBPData106_XPE2;
local mem MMU_CBPData106_XPE3;
#local mem MMU_CBPData107;
local mem MMU_CBPData107_XPE0;
local mem MMU_CBPData107_XPE1;
local mem MMU_CBPData107_XPE2;
local mem MMU_CBPData107_XPE3;
#local mem MMU_CBPData108;
```

```
$name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
        $name; $tr50; $tr51; $tr52;
$name; $tr50; $tr51; $tr52;
  $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
            $name; $tr50; $tr51; $tr52;
    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData108_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData108_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData108_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData108_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData109;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData109_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData109_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData109_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData109_XPE3;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData11;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData110;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData110_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData110_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData110_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData110_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData111;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData111_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData111_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData111_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData111_XPE3;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData12;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData13;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData14;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData15;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15_XPE3;          $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_CBPData16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19_XPE3;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1_XPE0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1_XPE1;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1_XPE2;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1_XPE3;                       $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData2;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData21;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData22;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData23;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData24;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24_XPE1;                        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData24_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData25;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData26;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData27;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData28;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData29;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2_XPE0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2_XPE1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2_XPE2;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2_XPE3;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData3;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData30;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData31;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData32;                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData33;                  $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData33_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData34;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData35;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData36;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData37;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData38;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData39;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData4;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData40;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData41;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41_XPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData41_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData42;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData43;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData44;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData45;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData46;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData47;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData48;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData49;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4_XPE0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4_XPE1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4_XPE2;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4_XPE3;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData5;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData50;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50_XPE0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData50_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData51;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData52;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData53;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData54;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData55;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData56;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData57;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData58;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData59;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59_XPE3;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData5_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData6;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData60;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData61;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData62;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData63;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData64;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData65;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData66;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData67;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData68;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68_XPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData68_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData69;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData7;                      $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData70;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData71;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData72;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData73;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData74;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData75;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData76;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData77;                      $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData77_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData78;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData79;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData8;                      $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData80;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData81;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData82;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData83;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData84;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData84_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData84_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData84_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData84_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData85;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData85_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData85_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData85_XPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData85_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData86;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData86_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData86_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData86_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData86_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData87;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData87_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData87_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData87_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData87_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData88;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData88_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData88_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData88_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData88_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData89;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData89_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData89_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData89_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData89_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8_XPE0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8_XPE1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8_XPE2;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8_XPE3;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData9;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData90;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData90_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData90_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData90_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData90_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData91;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData91_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData91_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData91_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData91_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData92;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData92_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData92_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData92_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData92_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData93;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData93_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData93_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData93_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData93_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData94;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData94_XPE0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData94_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData94_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData94_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData95;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData95_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData95_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData95_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData95_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData96;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData96_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData96_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData96_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData96_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData97;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData97_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData97_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData97_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData97_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData98;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData98_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData98_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData98_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData98_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CBPData99;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData99_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData99_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData99_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData99_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_MEM_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_MEM_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_MEM_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_MEM_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_RESEQ_MEM_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0_XPE0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CFAP_BANK0_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK1;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK10;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK11;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK12;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK13;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13_XPE3;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK3;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK4;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4_XPE3;          $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK5;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5_XPE0;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5_XPE1;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5_XPE2;          $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5_XPE3;          $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9_XPE3;                $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                $name; $tr50; $tr51; $tr52;
#local mem MMU_CTR_COLOR_DROP_MEM;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2;                $name; $tr50; $tr51;
$tr52;
local mem MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3;                $name; $tr50; $tr51;
$tr52;
#local mem MMU_CTR_ING_DROP_MEM;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE0_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE0_PIPE3;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE1_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE1_PIPE3;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE2_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE2_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE3_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM_XPE3_PIPE2;                $name; $tr50; $tr51; $tr52;
#local mem MMU_CTR_MC_DROP_MEM;                $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CTR_MC_DROP_MEM_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CTR_WRED_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQS_CT_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_CT_FIFO_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_CT_FIFO_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_CT_FIFO_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_CT_FIFO_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQS_PBI_DB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQS_PBI_DB_SED1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQX_EARLY_PIPEMEM_HI;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_ENQX_EARLY_PIPEMEM_LO;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_ENQX_PIPEMEM_HI;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQX_PIPEMEM_LO;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_EPRG_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM_XPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_EPRG_MEM_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_GCFG_MEM_FAIL_ADDR_64;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                 $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING0;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING1;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING2;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFO_TIMESTAMP;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFO_TOD_TIMESTAMP;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFO_UTC_TIMESTAMP;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_LINK_MEM;                $name; $tr50; $tr51; $tr52;
local mem MMU_LINK_MEM_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_LINK_MEM_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_LINK_MEM_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_LINK_MEM_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MCFP;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQDB_X;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_X_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_X_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_X_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_X_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQDB_Y;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_Y_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_Y_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_Y_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB_Y_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQE;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQE_PREFETCH_X;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_X_XPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_X_XPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_X_XPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_X_XPE3;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQE_PREFETCH_Y;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_Y_XPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_Y_XPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_Y_XPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_PREFETCH_Y_XPE3;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MCQN;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN_XPE1;                $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_MCQN_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_BUCKET_L0_MEM;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_BUCKET_L1_MEM;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A;                $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3;                $name; $tr50;
$tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B;                $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3;                $name; $tr50;
$tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0;                $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1;                $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2;                $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3;                $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_L0_MEM;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_L0_MEM_A;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_A_PIPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_A_PIPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_A_PIPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_A_PIPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_L0_MEM_B;                $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_MTRO_L0_MEM_B_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_B_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_B_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_B_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_PIPE3;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_L1_MEM;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_L1_MEM_A;                   $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_A_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_A_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_A_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_A_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_L1_MEM_B;                   $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_B_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_B_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_B_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_B_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_PIPE3;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_PDB_X;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_X_XPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_X_XPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_X_XPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_X_XPE3;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_PDB_Y;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_Y_XPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_Y_XPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_Y_XPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_PDB_Y_XPE3;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR_XPE0;                $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR_XPE1;                $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR_XPE2;                $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR_XPE3;                $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;               $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT_XPE0;               $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT_XPE1;               $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT_XPE2;               $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT_XPE3;               $name; $tr50; $tr51; $tr52;
#local mem MMU_PQE0_MEM;              $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM_XPE0;               $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM_XPE1;               $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM_XPE2;               $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM_XPE3;               $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_PQE1_MEM;                                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM_XPE0;                                $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM_XPE1;                                $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM_XPE2;                                $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM_XPE3;                                $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INFO_TBL;                                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE0;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE1;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE2;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE3;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                           $name; $tr50; $tr51;
$tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1;                           $name; $tr50; $tr51;
$tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0;                           $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1;                           $name; $tr50; $tr51;
$tr52;
#local mem MMU_REPL_HEAD_TBL;                                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE2;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE3;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_LIST_TBL;                                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE2;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE3;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_STATE_TBL;                                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE2;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE3;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64_SC0;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64_SC1;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64;                           $name; $tr50; $tr51; $tr52;
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0;                           $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_TCB_BUFFER_CELL_DATA_LOWER;                     $name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0;                 $name; $tr50; $tr51;
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1;                 $name; $tr50; $tr51;
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2;                 $name; $tr50; $tr51;
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3;                 $name; $tr50; $tr51;
$tr52;
#local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3;
$name; $tr50; $tr51; $tr52;
#local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2;
$name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3;
$name; $tr50; $tr51; $tr52;
#local mem MMU_TCB_BUFFER_CELL_DATA_UPPER;                     $name; $tr50; $tr51; $tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0;                 $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_PORTSP_BST;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_PORTSP_CONFIG;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_PORTSP_CONFIG_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_PORTSP_CONFIG_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_PORTSP_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_BST;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_CONFIG;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_CONFIG_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_CONFIG_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_DB_QUEUE_OFFSET;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_OFFSET_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_OFFSET_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_OFFSET_C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_DB_QUEUE_RESUME;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_PORTSP_BST;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3;                    $name; $tr50; $tr51;
```

```
$tr52;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_A;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3;             $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_B;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3;             $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_C;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3;             $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0;               $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1;               $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2;               $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3;               $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_BST;                        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0;              $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1;              $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2;              $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3;              $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0;              $name; $tr50; $tr51;
$tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_MCQE_QUEUE_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDM_MCQE_QUEUE_RESUME;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_THDU_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_PORT_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QGROUP_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_BST_QUEUE_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_CONFIG_PORT_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_PORT_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QGROUP;                       $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QGROUP0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE3;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QGROUP1;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE2;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE3;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QGROUP_PIPE3;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QUEUE;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QUEUE0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE3;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_CONFIG_QUEUE1;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE2;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE3;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE_PIPE0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE_PIPE1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE_PIPE2;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_CONFIG_QUEUE_PIPE3;                   $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_COUNTER_PORT;                        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE0_PIPE0;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE0_PIPE1;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE1_PIPE2;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE1_PIPE3;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE2_PIPE0;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE2_PIPE1;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE3_PIPE2;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_PORT_XPE3_PIPE3;              $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_COUNTER_QGROUP;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0;            $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1;            $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2;            $name; $tr50; $tr51;
$tr52;
```

```
local mem MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_OFFSET_QGROUP0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_OFFSET_QGROUP1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QGROUP_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_OFFSET_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_THDU_OFFSET_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_OFFSET_QUEUE_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_Q_TO_QGRP_MAP0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_Q_TO_QGRP_MAP1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_Q_TO_QGRP_MAP2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_RESUME_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_RESUME_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_RESUME_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_PORT_PIPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_RESUME_PORT_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_RESUME_QGROUP_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_RESUME_QUEUE_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_UCQ_STATS;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_THDU_UCQ_STATS_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_UCQ_STATS_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_UCQ_STATS_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_UCQDB_X;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_X_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_X_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_X_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_X_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_UCQDB_Y;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_Y_XPE0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_Y_XPE1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_Y_XPE2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB_Y_XPE3;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_AVG_QSIZE;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_CONFIG;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_XPE3_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_B;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_WRED_DROP_CURVE_PROFILE_5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_A;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_B;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_6_A;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_6_B;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_7_A;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_7_B;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_8_A;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_8_B;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_PORT_SP_DROP_THD;                  $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_PORT_SP_DROP_THD_MARK;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_WRED_PORT_SP_SHARED_COUNT;                  $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0;                    $name; $tr50;
```

```
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3;                    $name; $tr50;
```

```
$tr51; $tr52;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3;                    $name;
$tr50; $tr51; $tr52;
#local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE;                    $name;
$tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3;
    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0;                    $name; $tr50;
$tr51; $tr52;
```

```
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE0;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE2;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTRY_ECC;                    $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR0;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR0_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR0_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR0_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR1;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR1_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR1_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR1_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem PKT_SCH_CALENDAR1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem PORT_BRIDGE_BMAP;                    $name; $tr50; $tr51; $tr52;
#local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW1;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem PTR_RESULTS_BUFFER_ISW1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW2;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem PTR_RESULTS_BUFFER_IVP;                    $name; $tr50;
local mem PTR_RESULTS_BUFFER_IVP_PIPE0;                    $name; $tr50;
local mem PTR_RESULTS_BUFFER_IVP_PIPE1;                    $name; $tr50;
local mem PTR_RESULTS_BUFFER_IVP_PIPE2;                    $name; $tr50;
local mem PTR_RESULTS_BUFFER_IVP_PIPE3;                    $name; $tr50;
#local mem Q_SCHED_L0_ACCUM_COMP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L0_CREDIT_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L0_WEIGHT_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L1_ACCUM_COMP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L1_CREDIT_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L1_WEIGHT_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L2_ACCUM_COMP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem Q_SCHED_L2_CREDIT_MEM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem Q_SCHED_L2_CREDIT_MEM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem RANDOM_RRLB_HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
#local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem RESPONSIVE_PROTOCOL_MATCH;                    $name; $tr50; $tr51; $tr52;
#local mem RQE_FREE_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem RQE_LINK_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem SER_ACC_TYPE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_0;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_1;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_DATA_0;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_DATA_1;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_EXPECTED_0;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_EXPECTED_1;                    $name; $tr50; $tr51; $tr52;
local mem SFLOW_ING_DATA_SOURCE;                    $name; $tr50; $tr51; $tr52;
local mem SFLOW_ING_FLEX_DATA_SOURCE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem SRC_COMPRESSION_DATA_ONLY_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_TCAM_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                    $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr50; $tr51; $tr52;
local mem STATS_INTF_QUEUE_LIST;                    $name; $tr50; $tr51; $tr52;
local mem STATS_INTF_SERVPOOL_LIST;                    $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem SYS_PORTMAP;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_BUFFER_METADATA;                    $name; $tr50; $tr51; $tr52;
local mem TCB_BUFFER_METADATA_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_BUFFER_METADATA_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_BUFFER_METADATA_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCB_BUFFER_METADATA_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_EVENT_BUFFER;                    $name; $tr50; $tr51; $tr52;
local mem TCB_EVENT_BUFFER_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_EVENT_BUFFER_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_EVENT_BUFFER_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCB_EVENT_BUFFER_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_SCRATCH_BUFFER;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_SCRATCH_BUFFER_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_THRESHOLD_PROFILE_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_THRESHOLD_PROFILE_MAP_A;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TCB_THRESHOLD_PROFILE_MAP_B;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE3;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TDM_CALENDAR0;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TDM_CALENDAR1;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TDM_CALENDAR1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE0;                    $name; $tr50; $tr51;
$tr52;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE1;                    $name; $tr50; $tr51;
$tr52;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE2;                    $name; $tr50; $tr51;
$tr52;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE3;                    $name; $tr50; $tr51;
$tr52;
#local mem THDI_PORT_PG_BST;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CNTRS_RT1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CNTRS_RT2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CNTRS_SH1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CNTRS_SH2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_BST;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CNTRS_RT;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CNTRS_SH;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CONFIG;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CONFIG0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CONFIG1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CONFIG2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN_PIPE3;                    $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS;                    $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS_PIPE0;                    $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS_PIPE1;                    $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS_PIPE2;                    $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_RR_CNT;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_RR_CNT_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_RR_CNT_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_RR_CNT_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_RR_CNT_PIPE3;                    $name; $tr50; $tr51; $tr52;
```

```
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM_1;                    $name; $tr50; $tr51;
$tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM_PIPE2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM_PIPE3;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_2_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                    $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem VRF;                    $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                    $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_ECMP_PORT_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_LAG_PORT_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#---------------------------- VENDOR  memories-----------------------------------------------------------------
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
```

```
$tr52;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
```

```
$tr51; $tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
```

```
$tr51; $tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr50;
$tr51; $tr52;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr50;
$tr51; $tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo 'Running Table DMA Tests ...'
```

```
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';

init soc

# VALID memories

local mem AGM_MONITOR_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CENTRAL_CTR_EVICTION_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CLPORT_WC_UCMEM_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CPU_PBM;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CPU_PBM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DEVICE_LOOPBACK_PORTS_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_ECMP_EEM_CONFIGURATION;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FLOWSET_MEMBER_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FLOWSET_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_ECMP_FLOWSET_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_GLB_QUANTIZE_THRESHOLD;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_PORT_TO_MEMBER;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_STATS_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_STATS_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_STATS_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_GROUP_STATS_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_ECMP_LINK_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_OPTIMAL_CANDIDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_QUALITY_MAPPING;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_ECMP_QUANTIZE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_HGT_LAG_EEM_CONFIGURATION;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_LAG_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_GROUP_STATS_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_HGT_LAG_LINK_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2;                    $name;
```

```
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_MAPPING;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_LAG_QUANTIZE_CONTROL;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_DATA_ONLY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_DATA_ONLY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_DATA_ONLY_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_DATA_ONLY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_TCAM_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE2;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem DST_COMPRESSION_TCAM_ONLY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ECMP_DLB_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EXP_TO_INT_CN_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_INT_CN_TO_EXP_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_INT_CN_TO_IP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_INT_CN_UPDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_CUT_THRU_CLASS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_ECN_TO_EXP_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem EGR_IP_TO_INT_CN_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CELL_CREDIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_TS_ING_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_TS_UTC_CONVERSION;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TUNNEL_ECN_ENCAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TUNNEL_ECN_ENCAP_2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VNTAG_ETAG_PROFILE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ECC;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VXLT_ACTION_TABLE_A;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VXLT_ACTION_TABLE_B;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VXLT_REMAP_TABLE_A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VXLT_REMAP_TABLE_B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_XMIT_START_COUNT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_XMIT_START_COUNT_PIPE0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_XMIT_START_COUNT_PIPE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_XMIT_START_COUNT_PIPE2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_XMIT_START_COUNT_PIPE3;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EH_MASK_PROFILE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EH_MASK_PROFILE_PIPE0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EH_MASK_PROFILE_PIPE1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EH_MASK_PROFILE_PIPE2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EH_MASK_PROFILE_PIPE3;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EPC_LINK_BMAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EXACT_MATCH_2;                         $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_2_ENTRY_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE0;        $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE1;        $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE2;        $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_2_ENTRY_ONLY_PIPE3;        $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_2_PIPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_2_PIPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;'
```

```
#local mem EXACT_MATCH_2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_4_ENTRY_ONLY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;'
#local mem EXACT_MATCH_4_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem EXACT_MATCH_4_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem EXACT_MATCH_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_ACTION_PROFILE_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_DEFAULT_POLICY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_DEFAULT_POLICY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem EXACT_MATCH_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem EXACT_MATCH_KEY_GEN_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_KEY_GEN_MASK_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
```

```
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem FAST_TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FPEM_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;'
```

```
#local mem FPEM_ECC_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem FPEM_ECC_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem FPEM_ECC_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem FPEM_ECC_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem FPEM_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem GTP_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HGT_DLB_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_RR_CNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_RR_CNT_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_RR_CNT_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_RR_CNT_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_RR_CNT_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MODE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HIGIG_TRUNK_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem IDB_OBM10_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM10_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_PRI_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM11_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_PRI_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM12_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM12_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
#local mem IDB_OBM12_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_PRI_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM13_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

#local mem IDB_OBM13_PRI_MAP_PORT0_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT1; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT1_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT2; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT2_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT3; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_PRI_MAP_PORT3_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT0_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT1_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT2_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;

```
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM14_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT1_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_PRI_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT0_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT1_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IDB_OBM15_DSCP_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
#local mem IDB_OBM15_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_ETAG_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_PRI_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE2;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0_PIPE3;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE2;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1_PIPE3;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE2;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2_PIPE3;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE2;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3_PIPE3;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM1_PRI_MAP_PORT0;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT1;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT2;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM1_PRI_MAP_PORT3;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM1_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT0;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM2_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT1;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM2_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT2;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM2_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM2_DSCP_MAP_PORT3;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM2_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM2_ETAG_MAP_PORT0;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM2_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM2_ETAG_MAP_PORT1;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE1;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
  $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
  $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
  $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
  $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
          $name; $tr71_1; $tr71_2; $tr71_3;
   $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
   $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM2_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM2_ETAG_MAP_PORT2;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM2_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM2_ETAG_MAP_PORT3;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM2_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM2_PRI_MAP_PORT0;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM2_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM2_PRI_MAP_PORT1;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM2_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM2_PRI_MAP_PORT2;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM2_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM2_PRI_MAP_PORT3;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM2_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM3_DSCP_MAP_PORT0;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM3_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM3_DSCP_MAP_PORT1;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM3_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM3_DSCP_MAP_PORT2;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM3_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM3_DSCP_MAP_PORT3;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM3_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM3_ETAG_MAP_PORT0;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM3_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM3_ETAG_MAP_PORT1;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM3_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM3_ETAG_MAP_PORT2;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM3_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM3_ETAG_MAP_PORT3;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM3_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT0;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT1;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT2;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM3_PRI_MAP_PORT3;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM3_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT0;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE2;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IDB_OBM4_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT1;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT2;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM4_DSCP_MAP_PORT3;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM4_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT0;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT1;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT2;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM4_ETAG_MAP_PORT3;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM4_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM4_PRI_MAP_PORT0;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM4_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM4_PRI_MAP_PORT1;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM4_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM4_PRI_MAP_PORT2;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE0;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT2_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE0;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE1;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE2;        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3_PIPE3;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM5_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM6_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM6_ETAG_MAP_PORT2;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM6_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM6_ETAG_MAP_PORT3;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM6_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM6_PRI_MAP_PORT0;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM6_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM6_PRI_MAP_PORT1;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM6_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM6_PRI_MAP_PORT2;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE0;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE1;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE2;
#local mem IDB_OBM6_PRI_MAP_PORT2_PIPE3;
#local mem IDB_OBM6_PRI_MAP_PORT3;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE0;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE1;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE2;
#local mem IDB_OBM6_PRI_MAP_PORT3_PIPE3;
local mem IDB_OBM7_DSCP_MAP_PORT0;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE0;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE1;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE2;
local mem IDB_OBM7_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM7_DSCP_MAP_PORT1;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM7_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM7_DSCP_MAP_PORT2;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM7_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM7_DSCP_MAP_PORT3;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT3_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT2_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IDB_OBM8_DSCP_MAP_PORT0_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT1;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT1_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT2;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT2_PIPE3;
local mem IDB_OBM8_DSCP_MAP_PORT3;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE0;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE1;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE2;
local mem IDB_OBM8_DSCP_MAP_PORT3_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT0;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT0_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT1;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT1_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT2;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT2_PIPE3;
#local mem IDB_OBM8_ETAG_MAP_PORT3;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE0;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE1;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE2;
#local mem IDB_OBM8_ETAG_MAP_PORT3_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT0;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT0_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT1;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE0;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE1;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE2;
#local mem IDB_OBM8_PRI_MAP_PORT1_PIPE3;
#local mem IDB_OBM8_PRI_MAP_PORT2;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE0;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT0_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT1_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM9_DSCP_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT0_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT1_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT2_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_ETAG_MAP_PORT3_PIPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM9_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT0_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT1_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT2_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM9_PRI_MAP_PORT3_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_HG_CLASSID_SELECT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_I2E_CLASSID_SELECT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3;                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY;                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2;                $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
#local mem IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem IFP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_METER_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_METER_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_METER_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_METER_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_POLICY_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_POLICY_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_POLICY_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_POLICY_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_PORT_METER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_RANGE_CHECK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_RANGE_CHECK_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_RANGE_CHECK_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_RANGE_CHECK_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_RANGE_CHECK_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_STORM_CONTROL_METERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IFP_TCAM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_WIDE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_WIDE_PIPE0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_WIDE_PIPE1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_WIDE_PIPE2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_TCAM_WIDE_PIPE3;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_DEST_PORT_ENABLE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DNAT_ADDRESS_TYPE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DNAT_ADDRESS_TYPE_ECC;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_EN_EFILTER_BITMAP;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EXP_TO_IP_ECN_MAPPING;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FC_HEADER_TYPE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_10;     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_11;     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1;  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2;  $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_12;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_13;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_14;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_15;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_16;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_17;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_18;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_19;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_8;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3;          $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_10;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_11;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_12;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_13;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_14;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_15;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_16;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_17;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_8;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_ENTRY_ACTION_TABLE_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_MPLS_ENTRY_ACTION_TABLE_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_MPLS_ENTRY_REMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_ENTRY_REMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_PHY_TO_IDB_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PHY_TO_IDB_PORT_MAP_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_PIPE2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_PIPE3;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TRILL_ADJACENCY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_TUNNEL_ECN_DECAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TUNNEL_ECN_DECAP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VXLT_ACTION_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VXLT_ACTION_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VXLT_REMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VXLT_REMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem INSTRUMENTATION_TRIGGERS_ENABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem INT_CN_TO_MMUIF_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_PROTO_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_PROTO_MAP_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_PROTO_MAP_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_PROTO_MAP_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_PROTO_MAP_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_TO_INT_CN_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IS_TDM_CALENDAR1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_ENTRY_ISS_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY_TILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_TILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_MGMT_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_IPV4;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_IPV4_1;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_IPV6_128;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_IPV6_64;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_IPV6_64_1;                    $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_ALPM_RAW;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem L3_DEFIP_HIT_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128; $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_PAIR_128_DATA_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_PAIR_128_HIT_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem L3_DEFIP_PAIR_128_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem L3_ECMP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_RRLB_CNT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_RRLB_CNT_PIPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_RRLB_CNT_PIPE1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_RRLB_CNT_PIPE2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_RRLB_CNT_PIPE3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_ENTRY_ISS_LP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem LAG_DLB_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0_XPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0_XPE1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0_XPE2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0_XPE3; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData1; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData10; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData100; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData100_XPE0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData100_XPE1; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData100_XPE2;
local mem MMU_CBPData100_XPE3;
#local mem MMU_CBPData101;
local mem MMU_CBPData101_XPE0;
local mem MMU_CBPData101_XPE1;
local mem MMU_CBPData101_XPE2;
local mem MMU_CBPData101_XPE3;
#local mem MMU_CBPData102;
local mem MMU_CBPData102_XPE0;
local mem MMU_CBPData102_XPE1;
local mem MMU_CBPData102_XPE2;
local mem MMU_CBPData102_XPE3;
#local mem MMU_CBPData103;
local mem MMU_CBPData103_XPE0;
local mem MMU_CBPData103_XPE1;
local mem MMU_CBPData103_XPE2;
local mem MMU_CBPData103_XPE3;
#local mem MMU_CBPData104;
local mem MMU_CBPData104_XPE0;
local mem MMU_CBPData104_XPE1;
local mem MMU_CBPData104_XPE2;
local mem MMU_CBPData104_XPE3;
#local mem MMU_CBPData105;
local mem MMU_CBPData105_XPE0;
local mem MMU_CBPData105_XPE1;
local mem MMU_CBPData105_XPE2;
local mem MMU_CBPData105_XPE3;
#local mem MMU_CBPData106;
local mem MMU_CBPData106_XPE0;
local mem MMU_CBPData106_XPE1;
local mem MMU_CBPData106_XPE2;
local mem MMU_CBPData106_XPE3;
#local mem MMU_CBPData107;
local mem MMU_CBPData107_XPE0;
local mem MMU_CBPData107_XPE1;
local mem MMU_CBPData107_XPE2;
local mem MMU_CBPData107_XPE3;
#local mem MMU_CBPData108;
local mem MMU_CBPData108_XPE0;
local mem MMU_CBPData108_XPE1;
local mem MMU_CBPData108_XPE2;
local mem MMU_CBPData108_XPE3;
#local mem MMU_CBPData109;
local mem MMU_CBPData109_XPE0;
local mem MMU_CBPData109_XPE1;
local mem MMU_CBPData109_XPE2;
local mem MMU_CBPData109_XPE3;
local mem MMU_CBPData10_XPE0;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData10_XPE1;
local mem MMU_CBPData10_XPE2;
local mem MMU_CBPData10_XPE3;
#local mem MMU_CBPData11;
#local mem MMU_CBPData110;
local mem MMU_CBPData110_XPE0;
local mem MMU_CBPData110_XPE1;
local mem MMU_CBPData110_XPE2;
local mem MMU_CBPData110_XPE3;
#local mem MMU_CBPData111;
local mem MMU_CBPData111_XPE0;
local mem MMU_CBPData111_XPE1;
local mem MMU_CBPData111_XPE2;
local mem MMU_CBPData111_XPE3;
local mem MMU_CBPData11_XPE0;
local mem MMU_CBPData11_XPE1;
local mem MMU_CBPData11_XPE2;
local mem MMU_CBPData11_XPE3;
#local mem MMU_CBPData12;
local mem MMU_CBPData12_XPE0;
local mem MMU_CBPData12_XPE1;
local mem MMU_CBPData12_XPE2;
local mem MMU_CBPData12_XPE3;
#local mem MMU_CBPData13;
local mem MMU_CBPData13_XPE0;
local mem MMU_CBPData13_XPE1;
local mem MMU_CBPData13_XPE2;
local mem MMU_CBPData13_XPE3;
#local mem MMU_CBPData14;
local mem MMU_CBPData14_XPE0;
local mem MMU_CBPData14_XPE1;
local mem MMU_CBPData14_XPE2;
local mem MMU_CBPData14_XPE3;
#local mem MMU_CBPData15;
local mem MMU_CBPData15_XPE0;
local mem MMU_CBPData15_XPE1;
local mem MMU_CBPData15_XPE2;
local mem MMU_CBPData15_XPE3;
#local mem MMU_CBPData16;
local mem MMU_CBPData16_XPE0;
local mem MMU_CBPData16_XPE1;
local mem MMU_CBPData16_XPE2;
local mem MMU_CBPData16_XPE3;
#local mem MMU_CBPData17;
local mem MMU_CBPData17_XPE0;
local mem MMU_CBPData17_XPE1;
local mem MMU_CBPData17_XPE2;
local mem MMU_CBPData17_XPE3;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MMU_CBPData18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1_XPE0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1_XPE1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1_XPE2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1_XPE3;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData2;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData20;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData21;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData22;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData23;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData24;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData25;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25_XPE2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25_XPE3;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData26;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26_XPE0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26_XPE1;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData26_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData27;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData28;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData29;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData3;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData30;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData31;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData32;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData33;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData34;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData35;                      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData35_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData36;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData37;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData38;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData39;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3_XPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3_XPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3_XPE2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3_XPE3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData4;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData40;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData41;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData42;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData43;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData43_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData44;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData45;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData46;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData47;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData48;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData49;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData5;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData50;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData51;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData52;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData52_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData53;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData54;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData55;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData56;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData57;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData58;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData59;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5_XPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5_XPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5_XPE2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5_XPE3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData6;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData60;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MMU_CBPData61;
local mem MMU_CBPData61_XPE0;
local mem MMU_CBPData61_XPE1;
local mem MMU_CBPData61_XPE2;
local mem MMU_CBPData61_XPE3;
#local mem MMU_CBPData62;
local mem MMU_CBPData62_XPE0;
local mem MMU_CBPData62_XPE1;
local mem MMU_CBPData62_XPE2;
local mem MMU_CBPData62_XPE3;
#local mem MMU_CBPData63;
local mem MMU_CBPData63_XPE0;
local mem MMU_CBPData63_XPE1;
local mem MMU_CBPData63_XPE2;
local mem MMU_CBPData63_XPE3;
#local mem MMU_CBPData64;
local mem MMU_CBPData64_XPE0;
local mem MMU_CBPData64_XPE1;
local mem MMU_CBPData64_XPE2;
local mem MMU_CBPData64_XPE3;
#local mem MMU_CBPData65;
local mem MMU_CBPData65_XPE0;
local mem MMU_CBPData65_XPE1;
local mem MMU_CBPData65_XPE2;
local mem MMU_CBPData65_XPE3;
#local mem MMU_CBPData66;
local mem MMU_CBPData66_XPE0;
local mem MMU_CBPData66_XPE1;
local mem MMU_CBPData66_XPE2;
local mem MMU_CBPData66_XPE3;
#local mem MMU_CBPData67;
local mem MMU_CBPData67_XPE0;
local mem MMU_CBPData67_XPE1;
local mem MMU_CBPData67_XPE2;
local mem MMU_CBPData67_XPE3;
#local mem MMU_CBPData68;
local mem MMU_CBPData68_XPE0;
local mem MMU_CBPData68_XPE1;
local mem MMU_CBPData68_XPE2;
local mem MMU_CBPData68_XPE3;
#local mem MMU_CBPData69;
local mem MMU_CBPData69_XPE0;
local mem MMU_CBPData69_XPE1;
local mem MMU_CBPData69_XPE2;
local mem MMU_CBPData69_XPE3;
local mem MMU_CBPData6_XPE0;
local mem MMU_CBPData6_XPE1;
local mem MMU_CBPData6_XPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3;
        $name; $tr71_1; $tr71_2; $tr71_3
```

```
local mem MMU_CBPData6_XPE3;
#local mem MMU_CBPData7;
#local mem MMU_CBPData70;
local mem MMU_CBPData70_XPE0;
local mem MMU_CBPData70_XPE1;
local mem MMU_CBPData70_XPE2;
local mem MMU_CBPData70_XPE3;
#local mem MMU_CBPData71;
local mem MMU_CBPData71_XPE0;
local mem MMU_CBPData71_XPE1;
local mem MMU_CBPData71_XPE2;
local mem MMU_CBPData71_XPE3;
#local mem MMU_CBPData72;
local mem MMU_CBPData72_XPE0;
local mem MMU_CBPData72_XPE1;
local mem MMU_CBPData72_XPE2;
local mem MMU_CBPData72_XPE3;
#local mem MMU_CBPData73;
local mem MMU_CBPData73_XPE0;
local mem MMU_CBPData73_XPE1;
local mem MMU_CBPData73_XPE2;
local mem MMU_CBPData73_XPE3;
#local mem MMU_CBPData74;
local mem MMU_CBPData74_XPE0;
local mem MMU_CBPData74_XPE1;
local mem MMU_CBPData74_XPE2;
local mem MMU_CBPData74_XPE3;
#local mem MMU_CBPData75;
local mem MMU_CBPData75_XPE0;
local mem MMU_CBPData75_XPE1;
local mem MMU_CBPData75_XPE2;
local mem MMU_CBPData75_XPE3;
#local mem MMU_CBPData76;
local mem MMU_CBPData76_XPE0;
local mem MMU_CBPData76_XPE1;
local mem MMU_CBPData76_XPE2;
local mem MMU_CBPData76_XPE3;
#local mem MMU_CBPData77;
local mem MMU_CBPData77_XPE0;
local mem MMU_CBPData77_XPE1;
local mem MMU_CBPData77_XPE2;
local mem MMU_CBPData77_XPE3;
#local mem MMU_CBPData78;
local mem MMU_CBPData78_XPE0;
local mem MMU_CBPData78_XPE1;
local mem MMU_CBPData78_XPE2;
local mem MMU_CBPData78_XPE3;
#local mem MMU_CBPData79;
```

```
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData79_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData8;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData80;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData81;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData82;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData83;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData84;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData84_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData84_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData84_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData84_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData85;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData85_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData85_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData85_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData85_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData86;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData86_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData86_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData86_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData86_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData87;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData87_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData87_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData87_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData87_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData88;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData88_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData88_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData88_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData88_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData89;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData89_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData89_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData89_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData89_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData9;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData90;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData90_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData90_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData90_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData90_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData91;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData91_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData91_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData91_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData91_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData92;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData92_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData92_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData92_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData92_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData93;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData93_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData93_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData93_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData93_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData94;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData94_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData94_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData94_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData94_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData95;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData95_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData95_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData95_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData95_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData96;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData96_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData96_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData96_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData96_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData97;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData97_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData97_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData97_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData97_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData98;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData98_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData98_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData98_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData98_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPData99;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData99_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData99_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData99_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData99_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9_XPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9_XPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9_XPE2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9_XPE3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CCP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM_XPE0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM_XPE1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM_XPE2;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM_XPE3;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CCP_RESEQ_MEM;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_RESEQ_MEM_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0_XPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0_XPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0_XPE2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0_XPE3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK1;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK10;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10_XPE0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10_XPE1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10_XPE2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10_XPE3;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK11;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CFAP_BANK11_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK12;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK13;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK4;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK5;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK6;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK7;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7_XPE0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7_XPE1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7_XPE2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7_XPE3;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MMU_CFAP_BANK8;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8_XPE0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8_XPE1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8_XPE2;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8_XPE3;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CFAP_BANK9;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9_XPE0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9_XPE1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9_XPE2;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9_XPE3;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CTR_COLOR_DROP_MEM;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3;                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE0_PIPE0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE0_PIPE3;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE1_PIPE0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE1_PIPE3;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE2_PIPE1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE2_PIPE2;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE3_PIPE1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_ING_DROP_MEM_XPE3_PIPE2;                  $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_CTR_MC_DROP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE0_PIPE0;                   $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_CTR_MC_DROP_MEM_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_MC_DROP_MEM_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_UC_DROP_MEM_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_CTR_WRED_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
#local mem MMU_ENQS_CT_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_CT_FIFO_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_CT_FIFO_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_CT_FIFO_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_CT_FIFO_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQS_PBI_DB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQS_PBI_DB_SED1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQX_EARLY_PIPEMEM_HI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_ENQX_EARLY_PIPEMEM_LO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
#local mem MMU_ENQX_PIPEMEM_HI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_ENQX_PIPEMEM_LO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_EPRG_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_GCFG_MEM_FAIL_ADDR_64;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFO_TIMESTAMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFO_TOD_TIMESTAMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFO_UTC_TIMESTAMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MMU_LINK_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_LINK_MEM_XPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_LINK_MEM_XPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_LINK_MEM_XPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_LINK_MEM_XPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCFP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQDB_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_X_XPE0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_X_XPE1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_X_XPE2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_X_XPE3;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQDB_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_Y_XPE0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_Y_XPE1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_Y_XPE2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB_Y_XPE3;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQE;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQE_PREFETCH_X;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_X_XPE0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_X_XPE1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_X_XPE2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_X_XPE3;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQE_PREFETCH_Y;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_Y_XPE0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_Y_XPE1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_Y_XPE2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_PREFETCH_Y_XPE3;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MCQN;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_BUCKET_L0_MEM;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE0;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE1;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE2;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_PIPE3;                          $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#local mem MMU_MTRO_BUCKET_L1_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_L0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_L0_MEM_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_A_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_A_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_A_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_A_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_L0_MEM_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_B_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_MTRO_L0_MEM_B_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_B_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_B_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_PIPE0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_PIPE1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_PIPE2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_PIPE3;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_L1_MEM;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_L1_MEM_A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_A_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_A_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_A_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_A_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_L1_MEM_B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_B_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_B_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_B_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_B_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_PIPE0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_PIPE1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_PIPE2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_PIPE3;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PDB_X;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_X_XPE0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_X_XPE1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_X_XPE2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_X_XPE3;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PDB_Y;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_Y_XPE0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_Y_XPE1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_Y_XPE2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB_Y_XPE3;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PORTCNT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT_XPE0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT_XPE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT_XPE2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT_XPE3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PQE0_MEM;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM_XPE0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM_XPE1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM_XPE2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM_XPE3;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_PQE1_MEM;                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_PQE1_MEM_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_REPL_GROUP_INFO_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO_TBL_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_REPL_STATE_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64_SC0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_SCFG_MEM_FAIL_ADDR_64_SC1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_TCB_BUFFER_CELL_DATA_LOWER;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0;                 $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1;                 $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2;                 $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3;                 $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER;                 $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER;                 $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2;
$name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3;
$name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_TCB_BUFFER_CELL_DATA_UPPER;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3;                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_PORTSP_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3;                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_PORTSP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDM_DB_PORTSP_CONFIG_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3;                $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#local mem MMU_THDM_DB_PORTSP_CONFIG_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_PORTSP_CONFIG_C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDM_DB_QUEUE_CONFIG_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_CONFIG_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_CONFIG_C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
#local mem MMU_THDM_DB_QUEUE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDM_DB_QUEUE_OFFSET_A;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3;             $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_OFFSET_B;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3;             $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_OFFSET_C;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE0;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE1;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE2;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_PIPE3;               $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_DB_QUEUE_RESUME;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0;          $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1;          $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2;          $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3;          $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0;          $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_PORTSP_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_PORTSP_CONFIG_C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_CONFIG_C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_OFFSET_C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDM_MCQE_QUEUE_RESUME;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
#local mem MMU_THDU_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_PORT_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QGROUP_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_BST_QUEUE_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDU_CONFIG_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_PORT_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_QGROUP0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_CONFIG_QGROUP1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_CONFIG_QGROUP_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QGROUP_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QGROUP_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QGROUP_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_CONFIG_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_CONFIG_QUEUE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDU_CONFIG_QUEUE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_PORT_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_OFFSET_QGROUP0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_OFFSET_QGROUP1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_OFFSET_QGROUP_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QGROUP_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QGROUP_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QGROUP_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_OFFSET_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_OFFSET_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_OFFSET_QUEUE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_Q_TO_QGRP_MAP0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_Q_TO_QGRP_MAP1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_Q_TO_QGRP_MAP2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP2_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_Q_TO_QGRP_MAP_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_RESUME_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_RESUME_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_RESUME_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDU_RESUME_PORT_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_PORT_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QGROUP_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_RESUME_QUEUE_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_THDU_UCQ_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_UCQ_STATS_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_UCQDB_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_X_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_X_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_X_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_X_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_UCQDB_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_Y_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_Y_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_Y_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB_Y_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_AVG_QSIZE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE0_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE1_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE2_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_AVG_QSIZE_XPE3_PIPE3;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#local mem MMU_WRED_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE0_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE0_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE1_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE1_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE2_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE2_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE3_PIPE2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_XPE3_PIPE3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_6;                $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_WRED_DROP_CURVE_PROFILE_6_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_6_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_7;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_7_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_7_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_8;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_8_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_8_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_WRED_PORT_SP_DROP_THD;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_PORT_SP_DROP_THD_MARK;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_WRED_PORT_SP_SHARED_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3;
    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0;                    $name;
```

```
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_XCFG_MEM_FAIL_ADDR_64_XPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem PKT_SCH_CALENDAR0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PKT_SCH_CALENDAR1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_ISW2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_IVP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_IVP_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_IVP_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_IVP_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTR_RESULTS_BUFFER_IVP_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem Q_SCHED_L0_ACCUM_COMP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem Q_SCHED_L0_CREDIT_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_CREDIT_MEM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem Q_SCHED_L0_WEIGHT_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L0_WEIGHT_MEM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem Q_SCHED_L1_ACCUM_COMP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem Q_SCHED_L1_CREDIT_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_CREDIT_MEM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem Q_SCHED_L1_WEIGHT_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L1_WEIGHT_MEM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem Q_SCHED_L2_ACCUM_COMP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem Q_SCHED_L2_CREDIT_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem Q_SCHED_L2_CREDIT_MEM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RANDOM_RRLB_HG_TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RESPONSIVE_PROTOCOL_MATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem RQE_FREE_LIST_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_ACC_TYPE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_DATA_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SFLOW_ING_DATA_SOURCE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SFLOW_ING_FLEX_DATA_SOURCE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_DATA_ONLY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_TCAM_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem SRC_COMPRESSION_TCAM_ONLY_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SRC_MODID_EGRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STATS_INTF_QUEUE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STATS_INTF_SERVPOOL_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYS_PORTMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TCB_BUFFER_METADATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_BUFFER_METADATA_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_BUFFER_METADATA_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_BUFFER_METADATA_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_BUFFER_METADATA_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TCB_EVENT_BUFFER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_EVENT_BUFFER_XPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_EVENT_BUFFER_XPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_EVENT_BUFFER_XPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_EVENT_BUFFER_XPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TCB_SCRATCH_BUFFER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_SCRATCH_BUFFER_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TCB_THRESHOLD_PROFILE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TCB_THRESHOLD_PROFILE_MAP_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_A_XPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem TCB_THRESHOLD_PROFILE_MAP_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_B_XPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE0;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCB_THRESHOLD_PROFILE_MAP_XPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem TCP_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TDM_CALENDAR0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TDM_CALENDAR1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TDM_CALENDAR1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PKT_STAT_SP_SHARED_COUNT_XPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_PG_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_PG_CNTRS_RT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_PG_CNTRS_RT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_PG_CNTRS_SH1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_PG_CNTRS_SH2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_PG_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_BST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CNTRS_RT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_SP_CNTRS_SH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem THDI_PORT_SP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CONFIG0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CONFIG1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CONFIG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_RR_CNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_RR_CNT_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem TRUNK_RR_CNT_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_RR_CNT_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_RR_CNT_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_OFFSET_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_OFFSET_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_OFFSET_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_OFFSET_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM_PIPE2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM_PIPE3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_2_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VLAN_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;             $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                      $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-------------------------------------------------------------
#local mem DLB_ECMP_PORT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_HGT_LAG_PORT_STATE;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM;   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3;   $name; $tr71_1;
$tr71_2; $tr71_3;
#---------------------------- VENDOR memories----------------------------------------------------------------
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS;      $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3;   $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS;     $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0;   $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1;   $name;
$tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name;
$tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name;
$tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

#----------

echo "done";

config add parity_enable=1

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56970_a0.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: alpm.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* trie data structure for ALPM
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/alpm.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_dram.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_dram.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpPrependConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPrependConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_eval_ast_print.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       cint_eval_ast_print.c
* Purpose:     CINT print function
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_ast_print.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_wb_engine.h,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_wb_engine.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bondoptions.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bondoptions.c
* Purpose:     Populates Apache Bond Options Info.
* Requires:    SOC Common Bond Options Initializer.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/bondoptions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains TRUNK definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/bcm_int/robo/trunk.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbWrappers.h
*
* <pre>
* ==========================================================
* == sbWrappers.h - Wrapper file for commonly used macros ==
* ==========================================================
*
* WORKING REVISION: $Id: sbWrappers.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* MODULE NAME:
*
*     sbWrappers.h
*
* ABSTRACT:
*
*     Commonly used macros, wrapped for checked build vs. production builds
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     12-July-2005
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbWrappers.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTtlRangeConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTtlRangeConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ped_c.stg,v 1.13 Broadcom SDK $"
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$"
*
* g3p1_ped.c: Guadalupe3k V1.0 Ped Configuration
*
* DO NOT EDIT THIS FILE!
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_ped.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_rx.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 RX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_rx.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id cint_fabric_egress_mc.c,v 1 Broadcom SDK$
*
*
* Example walkthrough:
```

```
*
* This example shows how to configure a system of a single FE and multiple faps to replicate mc packets in the fabric and the fap's egress.
*
* The FE function configs the fabric replicate data to all FAPs which have a gport included in the gport array, gport_arr.
*
* The FAP function configs the FAP to replicate data to all the ports in gport_arr which are in the FAP.
*
* cint_fabric_egress_mc_config shows an example of usage of the functions for 1 FE and 2 FAPs
*
*  NOTEs :
*      1. gports recived by FE and FAP funcitons are expected to be MODPORTs.
*      2. The example assumes FE is configure to direct mode.
*
*
*
* Usage example :
*
  cd ../../../../src/examples/dpp

  cint validate/cint_pp_util.c
  cint ../dfe/cint_fe3200_interop.c

  cd ../dcmn

  cint cint_fabric_egress_mc.c

  c

  print cint_fe3200_interop_example(1);

  int fap_0_unit = 0;
  int fap_0_id = 0;
  int fap_0_in_port = 14;

  int fap_1_unit = 2;
  int fap_1_id = 2;

  int fe_unit = 1;

  int nof_ports_fap_0 = 5;
  int ports_fap_0[nof_ports_fap_0] = {13,14,15,16,17};

  int nof_ports_fap_1 = 5;
  int ports_fap_1[nof_ports_fap_1] = {13,14,15,16,17};

  bcm_multicast_t mc_id=5007;
```

```
   bcm_gport_t gport;
   BCM_GPORT_MCAST_SET(gport, mc_id);
   print bcm_port_force_forward_set(fap_0_unit, fap_0_in_port, gport, 1);

   print cint_fabric_egress_mc_config( fap_0_unit,  fap_0_id,  fap_0_in_port,   fap_1_unit,  fap_1_id,  fe_unit,
nof_ports_fap_0,  ports_fap_0,  nof_ports_fap_1,  ports_fap_1,   mc_id );

*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/cint_fabric_egress_mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: parse.c,v 1.47 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       parse.c
* Purpose:     Defines routines used to break up a command line.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/parse.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision    :  $Id: falcon_tsc_interface.h 1266 2015-11-20 13:18:43Z kirand $   *
*                                                                                       *
*  Description :  Interface functions targeted to IP user                              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
```

```
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon_tsc/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* falcon_tsc_interface.h - provides the primary functionality.
*
* falcon_tsc_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_interface.h
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc
init mmu
# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1

echo "there are 635 more memories to test.";echo "tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 634 more memories to test.";echo "tr 52 M=BCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 52 M=PORT_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=PORT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 52 M=COS_MAP_SEL IS=min IE=4 ITERations=1";tr 52
M=COS_MAP_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 631 more memories to test.";echo "tr 52 M=CPU_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 629 more memories to test.";echo "tr 52 M=CPU_COS_MAP_ONLY IS=min IE=4
ITERations=1";tr 52 M=CPU_COS_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 628 more memories to test.";echo "tr 52 M=CPU_PBM IS=min IE=0 ITERations=1";tr 52
M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 627 more memories to test.";echo "tr 52 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 52
M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 52 M=CPU_TS_MAP IS=min IE=4 ITERations=1";tr 52
M=CPU_TS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 52 M=CTR_DEQ_STATUS_MEM IS=min IE=4
ITERations=1";tr 52 M=CTR_DEQ_STATUS_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 624 more memories to test.";echo "tr 52 M=CTR_FLEX_COUNT_0 IS=min IE=4 ITERations=1";tr
52 M=CTR_FLEX_COUNT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 623 more memories to test.";echo "tr 52 M=CTR_FLEX_COUNT_1 IS=min IE=4 ITERations=1";tr
52 M=CTR_FLEX_COUNT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 52 M=CTR_FLEX_COUNT_2 IS=min IE=4 ITERations=1";tr
52 M=CTR_FLEX_COUNT_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 52 M=CTR_FLEX_COUNT_3 IS=min IE=4 ITERations=1";tr
52 M=CTR_FLEX_COUNT_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 52 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min
IE=4 ITERations=1";tr 52 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 619 more memories to test.";echo "tr 52 M=DSCP_TABLE IS=min IE=4 ITERations=1";tr 52
M=DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 618 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS IS=min IE=4 ITERations=1";tr 52
M=E2E_HOL_STATUS IS=min IE=4 ITERations=1;echo "done";
echo "there are 617 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1";tr
52 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 616 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE IS=min IE=4
ITERations=1";tr 52 M=EFP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 615 more memories to test.";echo "tr 52 M=EFP_METER_TABLE IS=min IE=4 ITERations=1";tr
52 M=EFP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 613 more memories to test.";echo "tr 52 M=EFP_TCAM IS=min IE=4 ITERations=1";tr 52
M=EFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 612 more memories to test.";echo "tr 52 M=EGR_1588_SA IS=min IE=4 ITERations=1";tr 52
M=EGR_1588_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 611 more memories to test.";echo "tr 52 M=EGR_COS_MAP IS=min IE=4 ITERations=1";tr 52
```

```
M=EGR_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 610 more memories to test.";echo "tr 52 M=EGR_CPU_COS_MAP IS=min IE=4 ITERations=1";tr
52 M=EGR_CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 52 M=EGR_DNX_HEADER IS=min IE=0 ITERations=1";tr
52 M=EGR_DNX_HEADER IS=min IE=0 ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 52 M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1";tr 52
M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=4
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 605 more memories to test.";echo "tr 52 M=EGR_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 52 M=EGR_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 604 more memories to test.";echo "tr 52 M=EGR_ENABLE IS=min IE=4 ITERations=1";tr 52
M=EGR_ENABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 603 more memories to test.";echo "tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 602 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 600 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 599 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 598 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 597 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 590 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 588 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=4
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=4 ITERations=1;echo "done";
echo "there are 587 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4
```

```
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 586 more memories to test.";echo "tr 52 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1";tr
52 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 585 more memories to test.";echo "tr 52 M=EGR_IPMC IS=min IE=4 ITERations=1";tr 52
M=EGR_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 584 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1";tr 52
M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 583 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4
ITERations=1";tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 582 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=4
ITERations=1";tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 52 M=EGR_L3_INTF IS=min IE=4 ITERations=1";tr 52
M=EGR_L3_INTF IS=min IE=4 ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
52 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 579 more memories to test.";echo "tr 52 M=EGR_LM_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_LM_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 578 more memories to test.";echo "tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 577 more memories to test.";echo "tr 52 M=EGR_MAP_MH IS=min IE=4 ITERations=1";tr 52
M=EGR_MAP_MH IS=min IE=4 ITERations=1;echo "done";
echo "there are 576 more memories to test.";echo "tr 52 M=EGR_MASK IS=min IE=4 ITERations=1";tr 52
M=EGR_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 52 M=EGR_MASK_MODBASE IS=min IE=4
ITERations=1";tr 52 M=EGR_MASK_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 574 more memories to test.";echo "tr 52 M=EGR_MA_INDEX IS=min IE=4 ITERations=1";tr 52
M=EGR_MA_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 573 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 572 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 571 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 565 more memories to test.";echo "tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=4 ITERations=1";tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 52 M=EGR_MP_GROUP IS=min IE=4 ITERations=1";tr 52
M=EGR_MP_GROUP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 563 more memories to test.";echo "tr 52 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 562 more memories to test.";echo "tr 52 M=EGR_OAM_DGLP_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_OAM_DGLP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 561 more memories to test.";echo "tr 52 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL
IS=min IE=4 ITERations=1";tr 52 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=4
ITERations=1;echo "done";
echo "there are 560 more memories to test.";echo "tr 52 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=4
ITERations=1";tr 52 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 559 more memories to test.";echo "tr 52 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 558 more memories to test.";echo "tr 52 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 557 more memories to test.";echo "tr 52 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min
IE=4 ITERations=1";tr 52 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 556 more memories to test.";echo "tr 52 M=EGR_OAM_OPCODE_GROUP IS=min IE=4
ITERations=1";tr 52 M=EGR_OAM_OPCODE_GROUP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 555 more memories to test.";echo "tr 52 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1";tr
52 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=4
ITERations=1";tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 553 more memories to test.";echo "tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 52 M=EGR_PCP_DE_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_PCP_DE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 52 M=EGR_PHYSICAL_PORT IS=min IE=4
ITERations=1";tr 52 M=EGR_PHYSICAL_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 550 more memories to test.";echo "tr 52 M=EGR_PORT IS=min IE=4 ITERations=1";tr 52
M=EGR_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 52 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 548 more memories to test.";echo "tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min
IE=0 ITERations=1";tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 547 more memories to test.";echo "tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min
IE=0 ITERations=1";tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 52 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
52 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=4
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 52 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 52 M=EGR_SAT_CONFIG_MAC_SA IS=min IE=4
ITERations=1";tr 52 M=EGR_SAT_CONFIG_MAC_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 52 M=EGR_SAT_SAMP_DATA IS=min IE=4
ITERations=1";tr 52 M=EGR_SAT_SAMP_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 52 M=EGR_SAT_SAMP_DATA_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_SAT_SAMP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 540 more memories to test.";echo "tr 52 M=EGR_SAT_SAMP_TCAM IS=min IE=4
ITERations=1";tr 52 M=EGR_SAT_SAMP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 52 M=EGR_SERVICE_PRI_MAP_0 IS=min IE=4
ITERations=1";tr 52 M=EGR_SERVICE_PRI_MAP_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 52 M=EGR_SERVICE_PRI_MAP_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_SERVICE_PRI_MAP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 537 more memories to test.";echo "tr 52 M=EGR_SERVICE_PRI_MAP_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_SERVICE_PRI_MAP_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 536 more memories to test.";echo "tr 52 M=EGR_SER_FIFO IS=min IE=4 ITERations=1";tr 52
M=EGR_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 52 M=EGR_VFI IS=min IE=4 ITERations=1";tr 52
M=EGR_VFI IS=min IE=4 ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 52 M=EGR_VLAN IS=min IE=4 ITERations=1";tr 52
M=EGR_VLAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 52 M=EGR_VLAN_STG IS=min IE=4 ITERations=1";tr 52
M=EGR_VLAN_STG IS=min IE=4 ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1";tr
52 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1";tr
52 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL1 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL2 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL3 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 52 M=EM_MTP_INDEX IS=min IE=3 ITERations=1";tr 52
M=EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
#echo "there are 523 more memories to test.";echo "tr 52 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 52
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 52 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=3
ITERations=1";tr 52 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min
IE=4 ITERations=1";tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 520 more memories to test.";echo "tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min
IE=4 ITERations=1";tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 519 more memories to test.";echo "tr 52 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1";tr
52 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 518 more memories to test.";echo "tr 52 M=FP_FLEX_KEY_SELECTOR IS=min IE=3
ITERations=1";tr 52 M=FP_FLEX_KEY_SELECTOR IS=min IE=3 ITERations=1;echo "done";
```

```
echo "there are 517 more memories to test.";echo "tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=4
ITERations=1";tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 515 more memories to test.";echo "tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 514 more memories to test.";echo "tr 52 M=FP_METER_TABLE IS=min IE=4 ITERations=1";tr 52
M=FP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 52 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 52 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1";tr
52 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 52 M=FP_PORT_METER_MAP IS=min IE=4
ITERations=1";tr 52 M=FP_PORT_METER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 52 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1";tr
52 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 509 more memories to test.";echo "tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 508 more memories to test.";echo "tr 52 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 52
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=4
ITERations=1";tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 52 M=FP_TCAM IS=min IE=4 ITERations=1";tr 52
M=FP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 52 M=GTP_PORT_TABLE IS=min IE=3 ITERations=1";tr 52
M=GTP_PORT_TABLE IS=min IE=3 ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 52 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1";tr
52 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 503 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=4
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 52 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1";tr
52 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 500 more memories to test.";echo "tr 52 M=HG_TRUNK_MEMBER IS=min IE=4
ITERations=1";tr 52 M=HG_TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
#echo "there are 499 more memories to test.";echo "tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 52 M=IARB_ING_PHYSICAL_PORT IS=min IE=4
ITERations=1";tr 52 M=IARB_ING_PHYSICAL_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 52 M=IARB_TDM_TABLE IS=min IE=4 ITERations=1";tr 52
M=IARB_TDM_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 52 M=IARB_TDM_TABLE_1 IS=min IE=4 ITERations=1";tr
52 M=IARB_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=4
ITERations=1";tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 52 M=IFP_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=IFP_COS_MAP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 493 more memories to test.";echo "tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 52 M=IMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 52
M=IMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 52 M=IM_MTP_INDEX IS=min IE=3 ITERations=1";tr 52
M=IM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 490 more memories to test.";echo "tr 52 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE
IS=min IE=4 ITERations=1";tr 52 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 52 M=ING_DVP_TABLE IS=min IE=4 ITERations=1";tr 52
M=ING_DVP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 52 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1";tr
52 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 487 more memories to test.";echo "tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 475 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 473 more memories to test.";echo "tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=3 ITERations=1";tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 472 more memories to test.";echo "tr 52 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
52 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 52 M=ING_LM_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 52 M=ING_LM_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 470 more memories to test.";echo "tr 52 M=ING_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=ING_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 469 more memories to test.";echo "tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=4
ITERations=1";tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 52 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=4
ITERations=1";tr 52 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 52 M=ING_OAM_LM_COUNTERS_0 IS=min IE=4
ITERations=1";tr 52 M=ING_OAM_LM_COUNTERS_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 52 M=ING_OAM_LM_COUNTERS_1 IS=min IE=4
ITERations=1";tr 52 M=ING_OAM_LM_COUNTERS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 52 M=ING_OAM_LM_COUNTERS_2 IS=min IE=4
ITERations=1";tr 52 M=ING_OAM_LM_COUNTERS_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 52 M=ING_PHYSICAL_PORT_TABLE IS=min IE=4
ITERations=1";tr 52 M=ING_PHYSICAL_PORT_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 52 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
52 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=4
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=4 ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 52 M=ING_QUEUE_MAP IS=min IE=4 ITERations=1";tr 52
M=ING_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 52 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min
IE=4 ITERations=1";tr 52 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 459 more memories to test.";echo "tr 52 M=ING_SAT_SAMP_DATA IS=min IE=4
ITERations=1";tr 52 M=ING_SAT_SAMP_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 52 M=ING_SAT_SAMP_TCAM IS=min IE=4
ITERations=1";tr 52 M=ING_SAT_SAMP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 457 more memories to test.";echo "tr 52 M=ING_SERVICE_PRI_MAP_0 IS=min IE=4
ITERations=1";tr 52 M=ING_SERVICE_PRI_MAP_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 456 more memories to test.";echo "tr 52 M=ING_SERVICE_PRI_MAP_1 IS=min IE=4
ITERations=1";tr 52 M=ING_SERVICE_PRI_MAP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 52 M=ING_SERVICE_PRI_MAP_2 IS=min IE=4
ITERations=1";tr 52 M=ING_SERVICE_PRI_MAP_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 454 more memories to test.";echo "tr 52 M=ING_SER_FIFO IS=min IE=4 ITERations=1";tr 52
M=ING_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 453 more memories to test.";echo "tr 52 M=ING_SVM_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_SVM_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 452 more memories to test.";echo "tr 52 M=ING_SVM_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_SVM_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 451 more memories to test.";echo "tr 52 M=ING_SVM_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_SVM_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 450 more memories to test.";echo "tr 52 M=ING_SVM_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_SVM_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 52 M=ING_SVM_TOS_MAP IS=min IE=4 ITERations=1";tr
52 M=ING_SVM_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 448 more memories to test.";echo "tr 52 M=ING_UNTAGGED_PHB IS=min IE=4
ITERations=1";tr 52 M=ING_UNTAGGED_PHB IS=min IE=4 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 52 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1";tr
```

```
52 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4
ITERations=1";tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1";tr 52
M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=4
ITERations=1";tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 442 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 441 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min IE=4 ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=3 ITERations=1";tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 438 more memories to test.";echo "tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 52 M=L2MC IS=min IE=4 ITERations=1";tr 52 M=L2MC
IS=min IE=4 ITERations=1;echo "done";
#echo "there are 436 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 435 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_VLANS_PORT_A IS=min IE=4
ITERations=1";tr 52 M=L2_BULK_MATCH_VLANS_PORT_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_VLANS_PORT_B IS=min IE=4
ITERations=1";tr 52 M=L2_BULK_MATCH_VLANS_PORT_B IS=min IE=4 ITERations=1;echo "done";
#echo "there are 432 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 431 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 52 M=L2X IS=min IE=4 ITERations=1";tr 52 M=L2X IS=min
IE=4 ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 428 more memories to test.";echo "tr 52 M=L2_ENTRY_OVERFLOW IS=min IE=1
ITERations=1";tr 52 M=L2_ENTRY_OVERFLOW IS=min IE=1 ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_HITDA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_HITSA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 52 M=L2_MOD_FIFO IS=min IE=4 ITERations=1";tr 52
M=L2_MOD_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 424 more memories to test.";echo "tr 52 M=L2_USER_ENTRY IS=min IE=4 ITERations=1";tr 52
M=L2_USER_ENTRY IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 423 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 52 M=L3_DEFIP IS=min IE=4 ITERations=1";tr 52
M=L3_DEFIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 420 more memories to test.";echo "tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1";tr
52 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 418 more memories to test.";echo "tr 52 M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1";tr 52
M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1";tr
52 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 52 M=L3_ECMP IS=min IE=4 ITERations=1";tr 52
M=L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 52 M=L3_ECMP_COUNT IS=min IE=4 ITERations=1";tr 52
M=L3_ECMP_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 52
M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 52 M=L3_IIF IS=min IE=4 ITERations=1";tr 52 M=L3_IIF
IS=min IE=4 ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 52 M=L3_IPMC IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 52 M=L3_IPMC_1 IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 52 M=L3_IPMC_REMAP IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC_REMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 52 M=L3_MTU_VALUES IS=min IE=4 ITERations=1";tr 52
M=L3_MTU_VALUES IS=min IE=4 ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 52 M=L3_TUNNEL IS=min IE=4 ITERations=1";tr 52
M=L3_TUNNEL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 399 more memories to test.";echo "tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 52 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1";tr
52 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 52 M=LLS_L0_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 396 more memories to test.";echo "tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 52 M=LLS_L0_CONFIG IS=min IE=4 ITERations=1";tr 52
M=LLS_L0_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 394 more memories to test.";echo "tr 52 M=LLS_L0_EF_NEXT IS=min IE=4 ITERations=1";tr 52
M=LLS_L0_EF_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 52 M=LLS_L0_ERROR IS=min IE=4 ITERations=1";tr 52
M=LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 52 M=LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 391 more memories to test.";echo "tr 52 M=LLS_L0_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 52 M=LLS_L0_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 52 M=LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 52 M=LLS_L0_PARENT IS=min IE=4 ITERations=1";tr 52
M=LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 52 M=LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 386 more memories to test.";echo "tr 52 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 52 M=LLS_L0_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 52 M=LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 52 M=LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 382 more memories to test.";echo "tr 52 M=LLS_L0_XOFF IS=min IE=3 ITERations=1";tr 52
M=LLS_L0_XOFF IS=min IE=3 ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 52 M=LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 52 M=LLS_L1_CONFIG IS=min IE=4 ITERations=1";tr 52
M=LLS_L1_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 378 more memories to test.";echo "tr 52 M=LLS_L1_EF_NEXT IS=min IE=4 ITERations=1";tr 52
M=LLS_L1_EF_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 52 M=LLS_L1_ERROR IS=min IE=4 ITERations=1";tr 52
M=LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 52 M=LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
```

```
#echo "there are 375 more memories to test.";echo "tr 52 M=LLS_L1_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 52 M=LLS_L1_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 52 M=LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 52 M=LLS_L1_PARENT IS=min IE=4 ITERations=1";tr 52
M=LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 52 M=LLS_L1_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 370 more memories to test.";echo "tr 52 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 52 M=LLS_L1_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 52 M=LLS_L1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 52 M=LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 366 more memories to test.";echo "tr 52 M=LLS_L1_XOFF IS=min IE=4 ITERations=1";tr 52
M=LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 52 M=LLS_L2_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 52 M=LLS_L2_EMPTY_STATE IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_EMPTY_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 52 M=LLS_L2_ERROR IS=min IE=4 ITERations=1";tr 52
M=LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
#echo "there are 361 more memories to test.";echo "tr 52 M=LLS_L2_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 52 M=LLS_L2_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 52 M=LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 52 M=LLS_L2_PARENT IS=min IE=4 ITERations=1";tr 52
M=LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 357 more memories to test.";echo "tr 52 M=LLS_L2_SHAPER_BUCKET IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_SHAPER_BUCKET IS=min IE=4 ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 52 M=LLS_L2_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_L2_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 52 M=LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1";tr
52 M=LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 354 more memories to test.";echo "tr 52 M=LLS_L2_XOFF IS=min IE=4 ITERations=1";tr 52
M=LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 52 M=LLS_PORT_CONFIG IS=min IE=4 ITERations=1";tr
52 M=LLS_PORT_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 52 M=LLS_PORT_ERROR IS=min IE=4 ITERations=1";tr 52
M=LLS_PORT_ERROR IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 351 more memories to test.";echo "tr 52 M=LLS_PORT_HEADS IS=min IE=4 ITERations=1";tr 52
M=LLS_PORT_HEADS IS=min IE=4 ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 52 M=LLS_PORT_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 349 more memories to test.";echo "tr 52 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 348 more memories to test.";echo "tr 52 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
#echo "there are 347 more memories to test.";echo "tr 52 M=LLS_PORT_TAILS IS=min IE=4 ITERations=1";tr 52
M=LLS_PORT_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 52 M=LLS_PORT_TDM IS=min IE=4 ITERations=1";tr 52
M=LLS_PORT_TDM IS=min IE=4 ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 52 M=LLS_PORT_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
#echo "there are 344 more memories to test.";echo "tr 52 M=LLS_PORT_XOFF IS=min IE=0 ITERations=1";tr 52
M=LLS_PORT_XOFF IS=min IE=0 ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 52 M=LLS_S1_CONFIG IS=min IE=4 ITERations=1";tr 52
M=LLS_S1_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 52 M=LLS_S1_ERROR IS=min IE=4 ITERations=1";tr 52
M=LLS_S1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 52 M=LLS_S1_HEADS IS=min IE=4 ITERations=1";tr 52
M=LLS_S1_HEADS IS=min IE=4 ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 52 M=LLS_S1_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=LLS_S1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 339 more memories to test.";echo "tr 52 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 52 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 52 M=LLS_S1_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 52 M=LLS_S1_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 52 M=LLS_S1_TAILS IS=min IE=4 ITERations=1";tr 52
M=LLS_S1_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 52 M=LLS_S1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=LLS_S1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 52 M=LMEP IS=min IE=4 ITERations=1";tr 52 M=LMEP
IS=min IE=4 ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 52 M=LMEP_1 IS=min IE=4 ITERations=1";tr 52
M=LMEP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=4 ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 332 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=4 ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=4
ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 52 M=LPORT_TAB IS=min IE=4 ITERations=1";tr 52
M=LPORT_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 52 M=MAC_BLOCK IS=min IE=4 ITERations=1";tr 52
M=MAC_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 52 M=MAID_REDUCTION IS=min IE=4 ITERations=1";tr
52 M=MAID_REDUCTION IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 328 more memories to test.";echo "tr 52 M=MA_INDEX IS=min IE=4 ITERations=1";tr 52
M=MA_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 52 M=MA_STATE IS=min IE=4 ITERations=1";tr 52
M=MA_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 52 M=MIRROR_CONTROL IS=min IE=4 ITERations=1";tr
52 M=MIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 52 M=MMU_AGING_CTR_INT IS=min IE=4
ITERations=1";tr 52 M=MMU_AGING_CTR_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 52 M=MMU_AGING_EXP_INT IS=min IE=4
ITERations=1";tr 52 M=MMU_AGING_EXP_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 52 M=MMU_AGING_LMT_INT IS=min IE=4
ITERations=1";tr 52 M=MMU_AGING_LMT_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 52 M=MMU_CBPI_0 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 52 M=MMU_CBPI_1 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 52 M=MMU_CBPI_10 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 52 M=MMU_CBPI_11 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 318 more memories to test.";echo "tr 52 M=MMU_CBPI_2 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 317 more memories to test.";echo "tr 52 M=MMU_CBPI_3 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 52 M=MMU_CBPI_4 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 52 M=MMU_CBPI_5 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 52 M=MMU_CBPI_6 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 52 M=MMU_CBPI_7 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 52 M=MMU_CBPI_8 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 52 M=MMU_CBPI_9 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPI_9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 52 M=MMU_CCPI_MEM IS=min IE=4 ITERations=1";tr 52
M=MMU_CCPI_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 52 M=MMU_CELLLINKI IS=min IE=4 ITERations=1";tr 52
M=MMU_CELLLINKI IS=min IE=4 ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 52 M=MMU_CFAPI_BITMAP IS=min IE=4
ITERations=1";tr 52 M=MMU_CFAPI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 52 M=MMU_CFAPI_STACK IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAPI_STACK IS=min IE=4 ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4
ITERations=1";tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 52
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=4 ITERations=1;echo "done";
#echo "there are 304 more memories to test.";echo "tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 303 more memories to test.";echo "tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 52 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min
IE=4 ITERations=1";tr 52 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 300 more memories to test.";echo "tr 52 M=MMU_ENQ_FAP_BITMAP IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_FAP_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 52 M=MMU_ENQ_FAP_STACK IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_FAP_STACK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 298 more memories to test.";echo "tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 297 more memories to test.";echo "tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 52 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 52 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 52 M=MMU_EXT_MC_GROUP_MAP IS=min IE=4
ITERations=1";tr 52 M=MMU_EXT_MC_GROUP_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 52 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=4
ITERations=1";tr 52 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 52 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=4
ITERations=1";tr 52 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 52 M=MMU_INITIAL_NHOP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INITIAL_NHOP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=3
ITERations=1";tr 52 M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=3 ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 283 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 282 more memories to test.";echo "tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 281 more memories to test.";echo "tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
#echo "there are 280 more memories to test.";echo "tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 278 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 52 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 52 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 275 more memories to test.";echo "tr 52 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 52 M=MMU_IPMC_GROUP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_IPMC_GROUP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 52 M=MMU_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=MMU_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 272 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 269 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 268 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=4
ITERations=1";tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 267 more memories to test.";echo "tr 52 M=MMU_QSTRUCT_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_QSTRUCT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 266 more memories to test.";echo "tr 52 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 265 more memories to test.";echo "tr 52 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 264 more memories to test.";echo "tr 52 M=MMU_RDE_TXQ_FLL IS=min IE=4 ITERations=1";tr
52 M=MMU_RDE_TXQ_FLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 263 more memories to test.";echo "tr 52 M=MMU_RDE_TXQ_QLL IS=min IE=4 ITERations=1";tr
52 M=MMU_RDE_TXQ_QLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 262 more memories to test.";echo "tr 52 M=MMU_RDE_TXQ_STATE IS=min IE=4
ITERations=1";tr 52 M=MMU_RDE_TXQ_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 52 M=MMU_REPL_GRP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_GRP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 259 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 258 more memories to test.";echo "tr 52 M=MMU_REPL_MAP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 257 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 256 more memories to test.";echo "tr 52 M=MMU_RPFAP_BITMAP IS=min IE=4
ITERations=1";tr 52 M=MMU_RPFAP_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 52 M=MMU_RPFAP_STACK IS=min IE=4 ITERations=1";tr
52 M=MMU_RPFAP_STACK IS=min IE=4 ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 52 M=MMU_RQE_QMGR_FLL IS=min IE=4
ITERations=1";tr 52 M=MMU_RQE_QMGR_FLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 253 more memories to test.";echo "tr 52 M=MMU_RQE_QMGR_QLL IS=min IE=4
ITERations=1";tr 52 M=MMU_RQE_QMGR_QLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 52 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min IE=4
ITERations=1";tr 52 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 251 more memories to test.";echo "tr 52 M=MMU_RQE_WORK_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_RQE_WORK_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 52 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 52 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min IE=4 ITERations=1;echo "done";
echo "there are 248 more memories to test.";echo "tr 52 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 247 more memories to test.";echo "tr 52 M=MMU_THDO_OPNCONFIG_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNCONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 246 more memories to test.";echo "tr 52 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 52 M=THDO_OPNCOUNT_QENTRY IS=min IE=4
ITERations=1";tr 52 M=THDO_OPNCOUNT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 244 more memories to test.";echo "tr 52 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 52 M=MMU_THDO_OPNOFFSET_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNOFFSET_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 242 more memories to test.";echo "tr 52 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 52 M=MMU_THDO_OPNSTATUS_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_OPNSTATUS_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 52 M=MMU_THDO_QCONFIG_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QCONFIG_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 52 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 52 M=MMU_THDO_QCOUNT_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QCOUNT_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 52 M=THDO_QCOUNT_QENTRY IS=min IE=4
ITERations=1";tr 52 M=THDO_QCOUNT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 52 M=MMU_THDO_QOFFSET_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QOFFSET_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 235 more memories to test.";echo "tr 52 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 234 more memories to test.";echo "tr 52 M=MMU_THDO_QRESET_VALUE_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QRESET_VALUE_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 52 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 232 more memories to test.";echo "tr 52 M=MMU_THDO_QSTATUS_CELL IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QSTATUS_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 52 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 52 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 52 M=MMU_TOQ_STATE_MEM0 IS=min IE=4
ITERations=1";tr 52 M=MMU_TOQ_STATE_MEM0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 52 M=MMU_TOQ_STATE_MEM1 IS=min IE=4
ITERations=1";tr 52 M=MMU_TOQ_STATE_MEM1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 226 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 222 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 221 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 220 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min IE=4 ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 217 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min IE=4 ITERations=1;echo "done";
echo "there are 216 more memories to test.";echo "tr 52 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min IE=4 ITERations=1;echo "done";
#echo "there are 215 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER
```

```
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER IS=min IE=4
ITERations=1;echo "done";
#echo "there are 214 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY IS=min IE=4
ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min IE=4 ITERations=1;echo
"done";
echo "there are 212 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 211 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min IE=4 ITERations=1;echo
"done";
echo "there are 210 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min IE=4 ITERations=1;echo
"done";
echo "there are 209 more memories to test.";echo "tr 52 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min
IE=4 ITERations=1";tr 52 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 52 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 52 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 52 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 52 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 52 M=MODPORT_MAP_MIRROR IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 52 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 52 M=MPLS_ENTRY IS=min IE=4 ITERations=1";tr 52
M=MPLS_ENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 52 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=4
ITERations=1";tr 52 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 52 M=MP_GROUP IS=min IE=4 ITERations=1";tr 52
M=MP_GROUP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 199 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 52 M=MY_STATION_TCAM IS=min IE=4 ITERations=1";tr
52 M=MY_STATION_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 52 M=NHI_GROUP_TC_PROFILE IS=min IE=4
ITERations=1";tr 52 M=NHI_GROUP_TC_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4
```

```
ITERations=1";tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 192 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 191 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 190 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 188 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 186 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 185 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 184 more memories to test.";echo "tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 183 more memories to test.";echo "tr 52 M=OAMP_PE_0_PROG_TCAM IS=min IE=4
ITERations=1";tr 52 M=OAMP_PE_0_PROG_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 52 M=OAMP_PE_1_PROG_TCAM IS=min IE=4
ITERations=1";tr 52 M=OAMP_PE_1_PROG_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 52 M=OAMP_RX_OAM_ID_TCAM IS=min IE=4
ITERations=1";tr 52 M=OAMP_RX_OAM_ID_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 52 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 179 more memories to test.";echo "tr 52 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min
IE=4 ITERations=1";tr 52 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 178 more memories to test.";echo "tr 52 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=4
ITERations=1";tr 52 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=4 ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 52 M=OAM_DGLP_PROFILE IS=min IE=4 ITERations=1";tr
52 M=OAM_DGLP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 52 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min
IE=4 ITERations=1";tr 52 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 175 more memories to test.";echo "tr 52 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4
ITERations=1";tr 52 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 174 more memories to test.";echo "tr 52 M=OAM_OPCODE_GROUP IS=min IE=4
ITERations=1";tr 52 M=OAM_OPCODE_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 52 M=PHB2_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=PHB2_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 52 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=4
ITERations=1";tr 52 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 171 more memories to test.";echo "tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 170 more memories to test.";echo "tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE IS=min IE=4 ITERations=1";tr 52
M=PORT_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 52 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=4
ITERations=1";tr 52 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 52 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=4
ITERations=1";tr 52 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=4 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 52 M=PORT_TAB IS=min IE=4 ITERations=1";tr 52
M=PORT_TAB IS=min IE=4 ITERations=1;echo "done";
#echo "there are 164 more memories to test.";echo "tr 52 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=0
ITERations=1";tr 52 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 163 more memories to test.";echo "tr 52 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=0
ITERations=1";tr 52 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 162 more memories to test.";echo "tr 52 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=0
ITERations=1";tr 52 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 161 more memories to test.";echo "tr 52 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=0
ITERations=1";tr 52 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=0 ITERations=1;echo "done";
echo "there are 160 more memories to test.";echo "tr 52 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 52 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=4 ITERations=1";tr 52 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 158 more memories to test.";echo "tr 52 M=RMEP IS=min IE=4 ITERations=1";tr 52 M=RMEP
IS=min IE=4 ITERations=1;echo "done";
echo "there are 157 more memories to test.";echo "tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=4
ITERations=1";tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=4
ITERations=1";tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER0 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER1 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER10 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER11 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 151 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER2 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER2 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 150 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER3 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER4 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER5 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER6 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER7 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER8 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 52 M=RXLP_DEBUG_COUNTER9 IS=min IE=4
ITERations=1";tr 52 M=RXLP_DEBUG_COUNTER9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 142 more memories to test.";echo "tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 141 more memories to test.";echo "tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 140 more memories to test.";echo "tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 139 more memories to test.";echo "tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 138 more memories to test.";echo "tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 137 more memories to test.";echo "tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 136 more memories to test.";echo "tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min
IE=4 ITERations=1";tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 135 more memories to test.";echo "tr 52 M=RXLP_MAX_FRAME_SIZE IS=min IE=4
ITERations=1";tr 52 M=RXLP_MAX_FRAME_SIZE IS=min IE=4 ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=4
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=4 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=4
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 130 more memories to test.";echo "tr 52 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1";tr
52 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 52 M=SER_ACC_TYPE_MAP IS=min IE=4 ITERations=1";tr
52 M=SER_ACC_TYPE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 52 M=SER_MEMORY IS=min IE=4 ITERations=1";tr 52
M=SER_MEMORY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 127 more memories to test.";echo "tr 52 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 126 more memories to test.";echo "tr 52 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 125 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 124 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 123 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 122 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 121 more memories to test.";echo "tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 120 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 118 more memories to test.";echo "tr 52 M=SOURCE_VP IS=min IE=4 ITERations=1";tr 52
M=SOURCE_VP IS=min IE=4 ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 52 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1";tr
52 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4
ITERations=1";tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY
IS=min IE=4 ITERations=1";tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY IS=min IE=4
ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min
IE=4 ITERations=1";tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 112 more memories to test.";echo "tr 52 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=4
ITERations=1";tr 52 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 52 M=SVM_METER_TABLE IS=min IE=4 ITERations=1";tr
52 M=SVM_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 52 M=SVM_OFFSET_TABLE IS=min IE=4 ITERations=1";tr
52 M=SVM_OFFSET_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 52 M=SVM_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=SVM_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=4
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 107 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 52 M=TCP_FN IS=min IE=4 ITERations=1";tr 52
M=TCP_FN IS=min IE=4 ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 52 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 52 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 52 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 52 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 52 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=4
ITERations=1";tr 52 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 52 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 52 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 52 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 52 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 52 M=TOS_FN IS=min IE=4 ITERations=1";tr 52 M=TOS_FN
IS=min IE=4 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 52 M=TRUNK_BITMAP IS=min IE=4 ITERations=1";tr 52
M=TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 52 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1";tr
52 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 52 M=TRUNK_GROUP IS=min IE=4 ITERations=1";tr 52
M=TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 52 M=TRUNK_MEMBER IS=min IE=4 ITERations=1";tr 52
M=TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 52 M=TTL_FN IS=min IE=4 ITERations=1";tr 52 M=TTL_FN
IS=min IE=4 ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER0 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER1 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER10 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER11 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER2 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER3 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER4 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER5 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 84 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER6 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER6 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 83 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER7 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER8 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 52 M=TXLP_DEBUG_COUNTER9 IS=min IE=4
ITERations=1";tr 52 M=TXLP_DEBUG_COUNTER9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 80 more memories to test.";echo "tr 52 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min
IE=4 ITERations=1";tr 52 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 79 more memories to test.";echo "tr 52 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=3
ITERations=1";tr 52 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=3 ITERations=1;echo "done";
echo "there are 78 more memories to test.";echo "tr 52 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min
IE=3 ITERations=1";tr 52 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 77 more memories to test.";echo "tr 52 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 76 more memories to test.";echo "tr 52 M=INITIAL_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=4 ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 74 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=4 ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 73 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET IS=min IE=4 ITERations=1";tr 52
M=FP_UDF_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 52 M=FP_UDF_TCAM IS=min IE=4 ITERations=1";tr 52
M=FP_UDF_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 68 more memories to test.";echo "tr 52 M=VFI IS=min IE=4 ITERations=1";tr 52 M=VFI IS=min
IE=4 ITERations=1;echo "done";
echo "there are 67 more memories to test.";echo "tr 52 M=VFI_1 IS=min IE=4 ITERations=1";tr 52 M=VFI_1
IS=min IE=4 ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4
ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4
ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4 ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 52 M=VFP_TCAM IS=min IE=4 ITERations=1";tr 52
M=VFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 52 M=VLAN_TAB IS=min IE=4 ITERations=1";tr 52
M=VLAN_TAB IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 61 more memories to test.";echo "tr 52 M=VLAN_MAC IS=min IE=4 ITERations=1";tr 52
M=VLAN_MAC IS=min IE=4 ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 52 M=VLAN_MAC_OVERFLOW IS=min IE=4
ITERations=1";tr 52 M=VLAN_MAC_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 52 M=VLAN_MPLS IS=min IE=4 ITERations=1";tr 52
M=VLAN_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 58 more memories to test.";echo "tr 52 M=VLAN_OR_VFI_MAC_COUNT IS=min IE=4
ITERations=1";tr 52 M=VLAN_OR_VFI_MAC_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 57 more memories to test.";echo "tr 52 M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=4
ITERations=1";tr 52 M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=4 ITERations=1;echo "done";
echo "there are 56 more memories to test.";echo "tr 52 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1";tr
52 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 55 more memories to test.";echo "tr 52 M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1";tr 52
M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 54 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL IS=min IE=4 ITERations=1";tr 52
M=VLAN_PROTOCOL IS=min IE=4 ITERations=1;echo "done";
echo "there are 53 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=4
ITERations=1";tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 52 more memories to test.";echo "tr 52 M=STG_TAB IS=min IE=4 ITERations=1";tr 52
M=STG_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 51 more memories to test.";echo "tr 52 M=VLAN_SUBNET IS=min IE=4 ITERations=1";tr 52
M=VLAN_SUBNET IS=min IE=4 ITERations=1;echo "done";
echo "there are 50 more memories to test.";echo "tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 49 more memories to test.";echo "tr 52 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1";tr
52 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 48 more memories to test.";echo "tr 52 M=VLAN_XLATE IS=min IE=4 ITERations=1";tr 52
M=VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 47 more memories to test.";echo "tr 52 M=VLAN_XLATE_OVERFLOW IS=min IE=4
ITERations=1";tr 52 M=VLAN_XLATE_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 46 more memories to test.";echo "tr 52 M=VRF IS=min IE=4 ITERations=1";tr 52 M=VRF IS=min
IE=4 ITERations=1;echo "done";
#echo "there are 45 more memories to test.";echo "tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=4
ITERations=1";tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=4 ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 44 more memories to test.';echo 'tr 52 M=EGRESS_PACKET_BUFFER0 IS=min IE=4
ITERations=1';tr 52 M=EGRESS_PACKET_BUFFER0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 52 M=EGRESS_PACKET_BUFFER1 IS=min IE=4
ITERations=1';tr 52 M=EGRESS_PACKET_BUFFER1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 52 M=EGRESS_PACKET_BUFFER2 IS=min IE=4
ITERations=1';tr 52 M=EGRESS_PACKET_BUFFER2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 52 M=EGRESS_PACKET_BUFFER3 IS=min IE=4
ITERations=1';tr 52 M=EGRESS_PACKET_BUFFER3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 52 M=EGR_PBE_DEBUG_0 IS=min IE=4 ITERations=1';tr 52
M=EGR_PBE_DEBUG_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 39 more memories to test.';echo 'tr 52 M=EGR_PBE_DEBUG_1 IS=min IE=4 ITERations=1';tr 52
M=EGR_PBE_DEBUG_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 52 M=IARB_GIH_DEBUG IS=min IE=4 ITERations=1';tr 52
```

```
M=IARB_GIH_DEBUG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 52 M=IARB_IPAD_DEBUG IS=min IE=4 ITERations=1';tr 52
M=IARB_IPAD_DEBUG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_0_HI IS=min IE=4 ITERations=1';tr
52 M=ING_PBI_DEBUG_0_HI IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_0_LO IS=min IE=4 ITERations=1';tr
52 M=ING_PBI_DEBUG_0_LO IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_1 IS=min IE=4 ITERations=1';tr 52
M=ING_PBI_DEBUG_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER0 IS=min IE=4
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER1 IS=min IE=4
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER2 IS=min IE=4
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER3 IS=min IE=4
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 52 M=LINK_STATUS IS=min IE=4 ITERations=1';tr 52
M=LINK_STATUS IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 52 M=EGR_EDBIL_PKT_SOP IS=min IE=4 ITERations=1';tr
52 M=EGR_EDBIL_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 52 M=EGR_PORT_PKT_SOP IS=min IE=4 ITERations=1';tr
52 M=EGR_PORT_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 52 M=IARB_CELL_PKT_SOP IS=min IE=4 ITERations=1';tr
52 M=IARB_CELL_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 52 M=MMU_INTFI_DEBUG_MEM IS=min IE=4
ITERations=1';tr 52 M=MMU_INTFI_DEBUG_MEM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 52 M=OAMP_PE_GEN_MEM IS=min IE=4 ITERations=1';tr
52 M=OAMP_PE_GEN_MEM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 52 M=OAMP_PE_PROGRAM IS=min IE=4 ITERations=1';tr
52 M=OAMP_PE_PROGRAM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 52 M=OAMP_SAT_RX_FLOW_ID IS=min IE=4
ITERations=1';tr 52 M=OAMP_SAT_RX_FLOW_ID IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 52 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=4
ITERations=1';tr 52 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 52 M=OAMP_SAT_RX_FLOW_STATS IS=min IE=4
ITERations=1';tr 52 M=OAMP_SAT_RX_FLOW_STATS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 52 M=OAMP_SAT_TX IS=min IE=4 ITERations=1';tr 52
M=OAMP_SAT_TX IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 52 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min IE=4
ITERations=1';tr 52 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 14 more memories to test.';echo 'tr 52 M=RXLP_ERROR_ACTION_MAP_DATA IS=min IE=4
ITERations=1';tr 52 M=RXLP_ERROR_ACTION_MAP_DATA IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 52 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min IE=4
ITERations=1';tr 52 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 52 M=RXLP_INTR_DATA_MEM IS=min IE=4
ITERations=1';tr 52 M=RXLP_INTR_DATA_MEM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 52 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=4
ITERations=1';tr 52 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 52 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=4
ITERations=1';tr 52 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 52 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=4
ITERations=1';tr 52 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 52 M=THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1';tr
52 M=THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 52 M=THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1';tr
52 M=THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 52 M=TXLP_PORT_MMU_REQUESTS IS=min IE=4
ITERations=1';tr 52 M=TXLP_PORT_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 52 M=TXLP_PORT_PKT_SOP IS=min IE=4 ITERations=1';tr
52 M=TXLP_PORT_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 52 M=TXLP_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=TXLP_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 52 M=TXLP_PORT_USED_ENTRIES IS=min IE=4
ITERations=1';tr 52 M=TXLP_PORT_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 52 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=4
ITERations=1';tr 52 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 52 M=TXLP_STREAM_USED_ENTRIES IS=min IE=4
ITERations=1';tr 52 M=TXLP_STREAM_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- VENDOR memories-----------------------------------------------------------------
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr52_bcm56270_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/bm9600.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_trap_mgmt.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trap_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tigon3.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/tigon3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv4.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv4.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: ppe_c.stg,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_ppe_rule_encode.c: Guadalupe3k V1.0 PPE rule encoding functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_ppe_rule_encode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_pp_frwrd_mact.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_mact.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_dram.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/src/soc_petra_api_dram.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcdram
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_dram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiRawSpiReadEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEiRawSpiReadEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_0Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_0Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdpll_esmc.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tdpll_esmc.c
*
* Purpose: Telecom DPLL Ethernet Synchronization Messaging Channel (ESMC) support.
*
* Functions:
*     bcm_tdpll_esmc_init
*     bcm_tdpll_esmc_rx_state_machine
*     bcm_tdpll_esmc_holdover_event_send
*     bcm_tdpll_esmc_switch_event_send
*     bcm_tdpll_esmc_ql_get
*     bcm_tdpll_esmc_ql_set
*     bcm_tdpll_esmc_holdover_ql_get
*     bcm_tdpll_esmc_holdover_ql_set
*     bcm_tdpll_esmc_mac_get
*     bcm_tdpll_esmc_mac_set
*     bcm_tdpll_esmc_rx_enable_get
*     bcm_tdpll_esmc_rx_enable_set
*     bcm_tdpll_esmc_tx_enable_get
*     bcm_tdpll_esmc_tx_enable_set
*     bcm_tdpll_esmc_rx_portbitmap_get
*     bcm_tdpll_esmc_rx_portbitmap_set
*     bcm_tdpll_esmc_tx_portbitmap_get
*     bcm_tdpll_esmc_tx_portbitmap_set
*
*     bcm_tdpll_esmc_info_pdu_tx
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/tdpll_esmc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_ppc_api_fp_fem.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_fp_fem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: polar_service.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/polar_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbox.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Shared Memory Mailbox infrastruction - SHM mbox communications & debug logging
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/mbox.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPrependConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/qe2k/sbZfKaEpIpPrependConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsUtil.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsUtil.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOsUtil.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_petra_acc.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_petra_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback.c,v 1.206 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Loopback Tests
*
*     DMA     Sends packets from CPU to MMU, and back
```

```
*      S/G     Sends packets from CPU to MMU, and back, using multiple
*              descriptors per packet
*      MAC     Sends packets from CPU to MAC in loopback mode, and back
*      MII     Sends packets from CPU to PHY in loopback mode, and back
*      EXT     Sends packets from CPU out one port, in another, and back
*      SNAKE   Sends packets from CPU through a series of ports, and back
*
* In Continuous DMA mode we append a reload descriptor to the end of the
* chain and enable a new controlled descriptor interrupt to manage the
* DMA state. To operate in this mode, two descriptor chains are used rather
* than one and DMA readies one while the other is in use and moves into it
* once the demand is there. In this mode DMA never stops. It only halts
* on the reload descriptor if the next chain is not ready (RX) or there is
* no packet to send (TX).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/loopback.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Trident L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_fap_config2.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tm_fap_config2.c
* Purpose: Example of SP Validation
*
* Environment
*    -    Default Egress queue mapping in play.
*    -    Default Egress Port Scheduler hierarchy in play.
*    -    Default Ingress Scheduling Discipline (delay tolerance), queues sizes
```

```
*    - Packet Size 1500
*
* - Port Scheduler
*   - CL Scheduler (SP mode)
*     - 4 FQ Schedulers
*       - 1 Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers
*       - 2nd Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers - Created by specifying BCM_COSQ_GPORT_TM_FLOW_ID flag.
*
* - test run 1
*   - Destination port: System port. See SYS_PORT variable inside main. If
*     destination port is not on modid 0, ingress configuration is done on unit 0
*     and egress is done on unitid=sys_port_mod_id.
*
*   - Input
*     - Queue Group 1 - Cos 0
*       Input 500 Mbps
*     - Queue Group 1 - Cos 1
*       Input 500 Mbps
*
*   - Expected Output
*     - Queue Group 1 - Cos 0
*       Expected Output 500 Mbps
*       Observed 500 Mbps
*     - Queue Group 1 - Cos 1
*       Expected Output 000 Mbps
*       Observed 000 Mbps
*
* - test run 2
*   - Input
*     - Queue Group 1 - Cos 0
*       Input 200 Mbps
*     - Queue Group 1 - Cos 1
*       Input 500 Mbps
*
*   - Expected Output
*     - Queue Group 1 - Cos 0
*       Expected Output 200 Mbps
*       Observed 197 Mbps
*     - Queue Group 1 - Cos 1
*       Expected Output 300 Mbps
*       Observed 328 Mbps
*
*
*  ~~~
```

```
* |                          SPR (500 Mbps)                    |
* |                           |                            |
* |                           \/                           |
* |                          +----+                          |
* |                         /     \                         |
* |                        /   HR   \                        |
* |                       /         \                        |
* |                      +------------+                       |
* |                           |                            |
* |                          SPR (500 Mbps)                    |
* |                           |                            |
* |                           \/                           |
* |                     +----------------+                     |
* |                     / CL (4 SP levels) \                     |
* |                    /                \                    |
* |                   / SP0   SP1  SP2   SP3 \                   |
* |                  +------------------------+                  |
* |                   /     |     |    \                    |
* |                   /     |     |    \                    |
* |                  SPR     SPR     SPR    SPR                    |
* |              (500 Mbps)(500 Mbps)(500 Mbps)(500 Mbps)                 |
* |                 /        |     |       \                  |
* |                /         |     |        \                 |
* |               |/         \/    \/        \/               |
* |             +------+   +------+   +------+   +------+               |
* |            /   FQ   \ /   FQ   \ /   FQ   \ /   FQ   \              |
* |           +----------+----------+----------+----------+              |
* |             \         |        |        /                |
* |              \        |        |       /                 |
* |              SPR        SPR       SPR      SPR                 |
* |            (500 Mbps) (500 Mbps) (500 Mbps) (500 Mbps)                |
* |                \       |        |     /                   |
* |                 \/      \/       \/    \/                   |
* |              |    | |    | |    | |    |                |
* | +----------------+ |    | +----------------+ |    |                  |
* | |Input2: 200 Mbps| |    | |Input2: 500 Mbps| |    |                  |
* | +----------------+ |    | +----------------+ |    |                  |
* |              |    | |    | |    | |    |                |
* |              +-----+  +-----+   +-----+  +-----+    +----------------+ |
* |              Input1:500 Mbps                   |     KEY      | |
* |                                        +----------------+ |
* |                                        |SPR- Rate Shaper| |
* |                                        |            | |
* |                                        +----------------+ |
* |                     +~~~~~~~~~~~~~~~~~~~~+                     |
* |                     |  Figure 5: SP   |                     |
* ~~~~~~~~~~~~~~~~~~~
```

```
*
* ISQ 1:
* set config.bcm with:
* diag_cosq_disable=1
* flow_mapping_queue_base=0
*
* cd ../../../src/examples/dpp
* cint cint_tm_fap_config2.c
* cint
* tm_config2_set_queue_range(0, 4, 1023, 2);
* tm_config2_set_queue_range(0, 1024, 32767, 0);
* tm_config2_setup(in_port-1, 0 *C2_FRONT_PANEL_PORT_TYPE*, 0 *C2_RESOURCE_TYPE_LEGACY*);
* tm_config2_setup(0, 2 *C2_ISQ_PORT_TYPE*, 0 *C2_RESOURCE_TYPE_LEGACY*);
*
* ISQ 2:
* set config.bcm with:
* diag_cosq_disable=1
* flow_mapping_queue_base=1024
*
* cd ../../../src/examples/dpp
* cint cint_tm_fap_config2.c
* cint
* tm_config2_set_queue_range(0, 1024, 30719, 1);
* tm_config2_set_queue_range(0, 31744, 32767, 2);
* tm_config2_setup(1, 2 *C2_ISQ_PORT_TYPE*, 0 *C2_RESOURCE_TYPE_LEGACY*);
*
* Warmboot test sequence:
* coldboot
*   export SOC_BOOT_FLAGS=0x000000
*   ./bcm.user
*   cint cint_warmboot_utilities.c
*   cint cint_tm_fap_config2.c
*
*   cint
*   tm_config2_setup(0, 0 *C2_FRONT_PANEL_PORT_TYPE*, 1 *C2_RESOURCE_TYPE_FIXED*);
*   quit;
*
*   cint
*   wb_sync_initiate(0);
*   quit;
*
* warmboot
*   export SOC_BOOT_FLAGS=0x200000
*   ./bcm.user
*   cint cint_tm_petra_config2.c
*
*   cint
*   tm_config2_verify(0, 0 *C2_FRONT_PANEL_PORT_TYPE*, 1 *C2_RESOURCE_TYPE_FIXED*);
```

```
*   quit;
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tm_fap_config2.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_internal.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name  :  merlin16_functions.h
*  Created On :  29/04/2013
*  Created By :  Kiran Divakar
*  Description:  Header file with API functions for Serdes IPs
*  Revision   :
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  No portions of this material may be reproduced in any form without
*  the written permission of:
```

```
*
*      Broadcom Corporation
*      5300 California Avenue
*      Irvine, CA  92617
*
*  All information contained in this document is Broadcom Corporation
*  company private proprietary, and trade secret.
*
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qos.c
* Purpose:     Greyhound QoS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lport.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       lport.h
* Purpose:     BCMX Internal Logical and User Port definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx_int/lport.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
```

```
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: intenum.h
* Purpose: Enumerated types for fields, memories, registers
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/intenum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmblkmemmgr.c,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr/nlmblkmemmgr.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: huracan_pkg_cfg.c 2014/04/02 vsrivast Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/huracan_pkg_cfg.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_koi_fields.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for MERLIN_KOI                              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sbx_dispatch.h
* Purpose: sbx driver BCM API dispatch table
* Generator: mkdispatch 1.54
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dnxc_intr_handler.h, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header for soc interrupt handler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_intr_handler.h
No license file was found, but licenses were detected in source scan.

```
/*
* VxWorks 5.x END OS Layer
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: vx_osl.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/vx_osl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_vxlan.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_vxlan.c
* Purpose: Maintains all the debug information for vxlan
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vxlan/tomahawk_vxlan.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/dev.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_lif.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_lif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c,v 1.115 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hash table calculation routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Error translation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/error.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsDepthHplenEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsDepthHplenEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ukernel_debug.h,v 0.1 2014/10/11 samaresm Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ukernel_debug.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/ukernel_debug.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/uc_dbg.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cmicm.h
* Purpose:     CMICM registers include file.
* Supports:    bcm88650_a0
*              bcm88650_b0
*              bcm88660_a0
*              bcm2801pm_a0
*              bcm88202_a0
*              bcm88675_a0
*              bcm83207_a0
*              bcm83208_a0
*              bcm56440_a0
```

```
*          bcm56440_b0
*          bcm88030_a0
*          bcm88030_a1
*          bcm88030_b0
*          bcm56640_a0
*          bcm56850_a0
*          bcm56450_a0
*          bcm56450_b0
*          bcm56450_b1
*          bcm56340_a0
*          bcm56150_a0
*          bcm53400_a0
*          bcm56960_a0
*          bcm56860_a0
*          bcm56560_a0
*          bcm56560_b0
*          bcm56260_a0
*          bcm56260_b0
*          bcm88375_a0
*          bcm88470_a0
*          bcm88470_b0
*          bcm88270_a0
*          bcm8206_a0
*          bcm88675_b0
*          bcm88375_b0
*          bcm88680_a0
*          bcm88690_a0
*          bcm56160_a0
*          bcm56270_a0
*          bcm56965_a0
*          bcm56970_a0
*          bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/cmicm.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_furia_dependencies.h 816 2014-12-05 02:44:44Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
```

```
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_dependencies.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sdram_spd.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sdram_spd.h
* Purpose:    SPD/Memory Controller interface constants
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/mpc824x/sdram_spd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: storm.c,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/storm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_flow_converts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_flow_converts.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_TSCF_16NM_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tscf_16nm_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.local.template,v 1.181 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Usage for Make.local.template and Make.local:
#
# Make.local.template is checked into the tree, but Make.local is never
# checked in.  Copy Make.local.template to Make.local, then change
# Make.local to select the desired compilation options (mostly debugging
# features).
#
# Note on CFGFLAGS usage:
#
#   Because CFGFLAGS may be used with other source preprocessing tools,
#   please limit the values added to CFGFLAGS to -D defines.
#
#
# Table of Contents:
#
#     Compiler Related Options
```

```
#     Boot and Debug Related Options
#     Operational and Policy Options
#     System Management and Multiple CPU Options
#     Selective Device Support (Switches and PHYs)
#     Miscellaneous Options
#

#################################################################
#
# Compiler Related Options
#
#################################################################

# Compiling out #ifdef DEBUG code saves about 1.3% on executable size.
# It is recommended to leave debug enabled when developing applications.
#DEBUG_IFDEFS=FALSE

# SAL resource usage tracking #ifdef control
# DEBUG_IFDEFS should also be  TRUE for this switch to take effect.
#BCM_RESOURCE_USAGE_PROFILE_IFDEFS=TRUE

# Uncomment to build without debug symbols
#DEBUG_SYMBOLS=FALSE

# Uncomment to add private CFLAGS
#DEBUG_CFLAGS=

# Uncomment to turn off the optimizer when debugging (recommended)
#DEBUG_OPTIMIZE=FALSE

# Compiling out assert() saves about 1.1% on executable size,
# however do so is VERY MUCH discouraged.
#DEBUG_ASSERTS=FALSE

# Controlling GCC -pedantic flag
#DEBUG_PEDANTIC=TRUE

# compiler.h overrides, these disable various compiler
# related features even if the compiler normally supports them

# Enable use of the double for serdes
#CFGFLAGS += -DSERDES_API_FLOATING_POINT

# Disable use of long long for uint64
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_LONGLONG

# Disable use of doubles
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_DOUBLE
```

```
# Disable inlining of functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_INLINE

# Disable use of const
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_CONST

# Disable use of static functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_STATIC

# Disable RPC flexible (long) bitmaps.
# Warning: Disabling this changes the RPC version to 2 and
# makes systems running this code incompatible with systems
# running previous versions of BCM RPC code.
#CFGFLAGS += -DBCM_RPC_PBMP_64

#
# Define if longs are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
#CFGFLAGS += -DLONGS_ARE_64BITS

#
# Define if pointers are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
# NOTE: This support works ONLY under conditions where the
# upper 32 bits for ALL pointers are ZERO.
#CFGFLAGS += -DPTRS_ARE_64BITS


##################################################################
#
# Boot and Debug Related Options
#
##################################################################

# Define this to add debug code for RX pool buffer tracking
#CFGFLAGS += -DBCM_RXP_DEBUG

# Allow debugging of PCI reads/writes (debug +pci)
#CFGFLAGS += -DSOC_PCI_DEBUG

# Make default debugging settings be 0 (very very quiet)
#CFGFLAGS += -DNO_DEBUG_OUTPUT_DEFAULT

# Don't use vxMemProbe
#CFGFLAGS += -DVX_NO_MEM_PROBE

# Allow debugging of Memory Allocation/Deallocation logging
```

```
#CFGFLAGS += -DMEMLOG_SUPPORT

# Enable "Trace" sync for the BSL
#CFGFLAGS += -DBSL_TRACE_INCLUDE

#################################################################
#################################################################
#
# Operational and Policy Options
#
#################################################################

# VLAN policy control:
# NO_DEFAULT_ETHER do not init ether ports into vlan 1
# NO_DEFAULT_CPU  do not init cpu ports into vlan 1
# NO_DEFAULT_SPI_SUBPORT do not init spi subports into vlan 1
# NO_AUTO_STACK  do not init stack/HG ports into created vlans
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_ETHER
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_CPU
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_SPI_SUBPORT
#CFGFLAGS += -DBCM_VLAN_NO_AUTO_STACK

# VLAN multicast flood Policy Control:
# BCM_VLAN_MCAST_FLOOD_ALL      Flood all multicast packets to the VLAN
# BCM_VLAN_MCAST_FLOOD_UNKNOWN  Flood unknown multicast packets to the vlan
# BCM_VLAN_MCAST_FLOOD_NONE     Forward multicast packets with known
#                               destination addresses to the appropriate ports.
#                               All packets destined to an unknown multicast
#                               address are dropped.
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_ALL
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_UNKNOWN
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_NONE

#Port Enable/Disable Policy control:
#       PORT_DEFAULT_DISABLE       disable ports during switch initialization
#CFGFLAGS += -DBCM_PORT_DEFAULT_DISABLE

# sal thread priority override (this value used for all threads if defined)
#CFGFLAGS += -DSAL_THREAD_PRIORITY=255

# disable printing of thread name in messages
#CFGFLAGS += -DSAL_THREAD_NAME_PRINT_DISABLE

# disable runtime reading of flash config.bcm file (even if !NO_FILEIO)
#CFGFLAGS += -DSAL_CONFIG_FILE_DISABLE

# disable all Application SAL dependencies
#NO_SAL_APPL=1
```

```
# Prevent scheduling in SPL locks when interrupt code is run as a thread.
# This option should not be necessary if all locks are implemented correctly,
# however, some locks may still rely on the assumption that scheduling does
# not occur when interrupts are disabled. If you experience any locking
# problems in e.g. Linux User Mode, try enabling this option.
# Please note that turning on this option will reduce performance by an
# estimated 5 to 10 %.
#CFGFLAGS += -DSAL_SPL_NO_PREEMPT

# disable mapping of higig cosq when mapping priority to cosq
# (use identity mapping instead : map prio0->cos0, prio1->cos1, ... , prio7->cos7)
#CFGFLAGS += -DBCM_COSQ_HIGIG_MAP_DISABLE

# Enable ukernel debugging module
#CFGFLAGS += -DSOC_UKERNEL_DEBUG


##################################################################
#
# System Management and Multiple CPU Options
#
##################################################################

# Turn on BCMX inclusion
#     INCLUDE_BCMX for any support
#INCLUDE_BCMX=1

# Telekinesis suite applications for CPU to CPU communication and discovery
#     CPUDB:        Simple CPU data base manager
#     CPUTRANS:      CPU to CPU communication mechanisms
#     DISCOVER:      Simple discovery; will also include CPUTRANS
#     STKTASK:       Stack manager application
#
#CFGFLAGS += -DINCLUDE_LIB_CPUDB
#CFGFLAGS += -DINCLUDE_LIB_CPUTRANS
#CFGFLAGS += -DINCLUDE_LIB_DISCOVER
#CFGFLAGS += -DINCLUDE_LIB_STKTASK

# Option for discovery to use the application-data field in routing
# packets for Board-ID and CPU base flag information.
#CFGFLAGS += -DDISCOVER_APP_DATA_BOARDID

# Optionally override list of included dispatch modules
# Note: including RPC automatically includes the Telekinesis suite libs
# ESW is the enterprise platforms.
# ROBO includes the managed devices.
```

```
# SBX includes API support for bcm988020QSK24X2
#DISPATCH_LIST = RPC ESW ASYNC SBX

# Define to have end-to-end flow control enabled on boards that
# support it
#CFGFLAGS += -DBCM_BOARD_AUTO_E2E

# Define the following to support per-CPU transmit pointers.
# This allows the TX setup and send functions to be defined on a
# per-CPU basis, allowing mixed in-band and out-of-band communication.
#CFGFLAGS += -DBCM_C2C_TRANSPORT_SWITCHING

# Options for ATP performance optmization.
# If this is defined, callback function can be used to free packet buffer.
# This will result in better ATP performance.
#CFGFLAGS += -DBCM_RPC_ATP_TX_CALLBACK

# Options for feature list (INCLUDE_XXX)
# If FEATURE_LIST is defined, it is a list of features to include.
# See Make.config for the default feature list.
#
# Avaliable features:
#
#    BCMX
#    BCMX_DIAG
#    CHASSIS
#    CUSTOMER
#    DRIVERS
#    EDITLINE
#    I2C
#    L3
#    MEM_SCAN
#    ATPTRANS_SOCKET
#    TELNET
#    TEST
#    ACL
#    RCPU
#    KNET - Linux user mode kernel network support
#    BCM_SAL_PROFILE - make available an API to track SAL usage.
#    CINT - Include the C Interpreter in the diagnostic shell.
#           Please note this cannot be used in Linux kernel mode.
#    C_UNIT - Include the C unit testing framework.  If CINT is also included
#             then hooks will be provided for use from it.
#    PHY_SYM_DBG - PHY GUI MDIO read/write support. Socket interface
#                  to PHY GUI for Symbolic debugging.
#    APIMODE - call SDK API functions from shell, requires CINT
#    DUNE_UI - dune legacy user interface. For debug only. Tested
#              on linux-user-gto-2.6 only.
```

```
#     KBP   -   include nlm2(11K)/nlm3(12K) KBP support
#     BHH   -   Include Support for BHH Application (MPLS-TP OAM based on Y.1731)
#               using BTE on select devices.
#     AVS   - Include AVS support
#     MPLS_LM_DM - Include Support for MPLS LM/DM Application (based on RFC 6374)
#                 using BTE on select devices.
#     ETH_LM_DM - Include Support for Ethernet LM/DM Application
#                 (ETH-OAM based on Y.1731) using BTE on select devices.
#     UC_ULINK - Include Support for maintaining port link status on BTE
#     OAM_FAULTS_MULTI_GET - Include support for faults_get for multiple endpoints
#                         through single API
#     CCM   - Include support for CCM Application using BTE on select devices
#     TCB   - Include support for Transient Capture Buffer Application
#     PSTATS - Include support for Packetized Statistic Application
#FEATURE_LIST=ATPTRANS_SOCKET BCMX_DIAG L3 I2C BCMX MEM_SCAN EDITLINE \
#    CUSTOMER TELNET DRIVERS CHASSIS TEST ACL RCPU BCM_SAL_PROFILE CINT \
#    PTP CES FCMAP BOARD KNET REGEX MACSEC APIMODE BFD KBP AVS TCB PSTATS

##################################################################
#            KBP supported devices
#
#Enable this for 11K device support
#KBP_DEVICE = KBP_11K
#
#Enable this for 12K device support
#KBP_DEVICE = KBP_ALG
#
#################################################################

##################################################################
#
# Selective Device Support (Switches and PHYs)
#
##################################################################

# Multiple Chip Support
#
# By default, the driver supports all Strata switch and fabric chips
# included in this software release.  It checks device IDs at runtime
# to run the correct driver modules.
#
# To save space, the driver can be compiled to support just a subset of
# the chips.  To do this, uncomment the line for BCM_PTL_SPT (partial
# support) and uncomment one line for each chip to support.
#
# Note that there are a lot more chips than drivers.
# For example, the BCM5615 driver is also used for BCM5625 and BCM5645.
#
```

```
#BCM_PTL_SPT = 1

#BCM_5675_A0 = 1
#BCM_56102_A0 = 1
#BCM_56112_A0 = 1
#BCM_56304_B0 = 1
#BCM_56314_A0 = 1
#BCM_56504_A0 = 1
#BCM_56504_B0 = 1
#BCM_56514_A0 = 1
#BCM_56624_A0 = 1
#BCM_56624_B0 = 1
#BCM_56680_A0 = 1
#BCM_56680_B0 = 1
#BCM_56580_A0 = 1
#BCM_56700_A0 = 1
#BCM_56800_A0 = 1
#BCM_56218_A0 = 1
#BCM_56224_A0 = 1
#BCM_56224_B0 = 1
#BCM_56725_A0 = 1
#BCM_56820_A0 = 1
#BCM_53314_A0 = 1
#BCM_53324_A0 = 1
#BCM_56634_A0 = 1
#BCM_56634_B0 = 1
#BCM_56524_A0 = 1
#BCM_56524_B0 = 1
#BCM_56685_A0 = 1
#BCM_56685_B0 = 1
#BCM_56334_A0 = 1
#BCM_56334_B0 = 1
#BCM_56840_A0 = 1
#BCM_56840_B0 = 1
#BCM_56850_A0 = 1
#BCM_56142_A0 = 1
#BCM_56150_A0 = 1
#BCM_56836_A0 = 1
#BCM_56640_A0 = 1
#BCM_56440_A0 = 1
#BCM_56440_B0 = 1
#BCM_56450_A0 = 1
#BCM_56150_A0 = 1
#BCM_53400_A0 = 1
#BCM_56160_A0 = 1
#BCM_56960_A0 = 1
#BCM_56965_A0 = 1
```

```
#BCM_56860_A0 = 1
#BCM_56560_A0 = 1
#BCM_56260_A0 = 1
#BCM_56260_B0 = 1
#BCM_56560_B0 = 1
#BCM_56270_A0 = 1
#BCM_56970_A0 = 1

#BCM_5338_A0 = 1
#BCM_5380_A0 = 1
#BCM_5338_B0 = 1
#BCM_5325_A1 = 1

#BCM_5324_A0 = 1
#BCM_5396_A0 = 1
#BCM_5389_A0 = 1
#BCM_5398_A0 = 1
#BCM_5324_A1 = 1
#BCM_53115_A0 = 1
#BCM_53118_A0 = 1
#BCM_53280_A0 = 1
#BCM_53280_B0 = 1
#BCM_53101_A0 = 1
#BCM_53125_A0 = 1
#BCM_53128_A0 = 1
#BCM_53600_A0 = 1
#BCM_89500_A0 = 1

#BCM_88030_A0 = 1
#BCM_QE2000_A0 = 1
#BCM_BME3200_B0 = 1
#BCM_BM9600_A0 = 1
#BCM_88230_A0 = 1
#BCM_88230_B0 = 1
#BCM_88230_C0 = 1

#BCM_TK371X_A0 = 1

# Options for multiple PHY support
# If BCM_PHY_LIST is defined, it is a list of PHYs to include.
# The default is to include all of them.
# If none of them should be included specify BCM_PHY_LIST=EMPTY
#BCM_PHY_LIST=522X 54XX 5464 5421S 5482 54616 54680 54680E 52681E 54880E 54682 54684 54640
54640E 54880 SERDES SIMUL 8703 8705 8706 8072 8040 8481 8750 8729 84740 84756 84328 8806X EMPTY

# Options for BCM5338 5380
#CFGFLAGS += -DROBO_OLD
#ROBO_OLD = 1
```

```
# Support for phy simulation
#CFGFLAGS += -DINCLUDE_PHY_SIMUL
#CFGFLAGS += -DSIM_ALL_PHYS        # All phys use simulation driver
#CFGFLAGS += -DSIM_CMIC_LINK_STAT  # Get link status from CMIC register

# Support for BOARD library
# if BOARD_LIST is defined, it is a list of Board drivers to include.
# The default is to include all board drivers appropriate for the devices
# included in the build. If none of them should be included specify
# BOARD_LIST=EMPTY.
#BOARD_LIST=GENERIC

# Support for event logging
#CFGFLAGS += -DINCLUDE_SHARED_EVLOG

# Support for BCM API port translation
#CFGFLAGS += -DINCLUDE_BCM_API_XLATE_PORT

# Support for callback error checks and abort in traverse api's
#CFGFLAGS += -DBCM_CB_ABORT_ON_ERR
##################################################################
#
# Misc Options
#
##################################################################
#CFGFLAGS += -DSOC_MEM_L3_DEFIP_WAR

# Compile out Register/Table descriptive strings to generate a
# compact image
#CFGFLAGS +=-DSOC_NO_NAMES
#CFGFLAGS +=-DSOC_NO_ALIAS
#CFGFLAGS +=-DSOC_NO_DESC

# Reload/WarmBoot Support
#
#CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
#
# Need this for validation using SOC scripts; Will move to tcl
# someday
#CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
#
# Adds a CRC check on scache buffer: Calculate when saving,
# and verify when loading.
# When doing ISSU, both source and destination versions should either have
# this flag enabled or disabled.
#CFGFLAGS += -DSCACHE_CRC_CHECK
```

```
# Use software byte-swap when primary internal iProc CPU is run
# in big-endian mode. Intended for use with little-endian iProc firmware
# images when the primary internal iProc CPU is run in big-endian mode.
# In this case we cannot use hardware byte-swap, because it affects both
# the primary internal CPU (big endian) and the firmware CPU (little endian).
#CFGFLAGS += -DCMIC_SOFT_BYTE_SWAP

##################################################################
#
# Enable Easy Reload Support
#
##################################################################
#CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT
# For validation purposes
#CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT_SW_DUMP

# Software Trunk failover Support
#
#CFGFLAGS += -DBCM_TRUNK_FAILOVER_SUPPORT

##################################################################
#
# Override default VXWORKS thread options to make set
# VX_UNBREAKABLE flag in task creation.
#
##################################################################
#CFGFLAGS += -DVX_THREAD_OPT_UNBREAKABLE


##################################################################
#
# Use default priority for BDE interrupt thread.
#
##################################################################
#CFGFLAGS += -DSAL_BDE_THREAD_PRIO_DEFAULT

##################################################################
#
# Use cached DMA memory when mapping kernel DMA memory to user
# mode. Should only be enabled on cache-coherent platforms.
#
##################################################################
#CFGFLAGS += -DSAL_BDE_USE_CACHED_DMA_MEM

##################################################################
#
# Take the spl lock upon entering an ISR
#
```

```
################################################################
#CFGFLAGS += -DSAL_SPL_LOCK_ON_IRQ

################################################################
#
# Silently ignore NULL pointer free in sal_free API
# Default behaviour is to assert if a NULL pointer is passed to sal_free
#
################################################################
#CFGFLAGS += -DSAL_FREE_NULL_IGNORE

################################################################
# Enable SBX MPLS TP support
################################################################
#CFGFLAGS += -DBCM_SBX_MPLSTP_SUPPORT
#CFGFLAGS += -DBCM_SBX_C1_MPLSTP_SUPPORT

################################################################
# Restrict SBX C2 Fte range to C2's range
################################################################
#CFGFLAGS += -DBCM_SBX_C1_C2_INTEROP

################################################################
# For historical reasons the PCI probe function skips device 12
# by default to prevent a system hang on certain platforms.
# Set this value to zero to probe all PCI devices.
################################################################
#CFGFLAGS += -DOVERRIDE_PCI_SKIP_DEV_MASK=0

################################################################
# Override max devices supported by PLI BDE
################################################################
#CFGFLAGS += -DPLI_MAX_DEVICES

################################################################
# Track BCM API calls to avoid deinitialization while calls active
# This will incur a small time penalty for each BCM API call
################################################################
#CFGFLAGS += -DBCM_CONTROL_API_TRACKING

################################################################
# Override default retry time for detach to wait for executing
# APIs to complete.
################################################################
#CFGFLAGS += -DBCM_DETACH_POLL_INTERVAL_USECS_DEFAULT=100000
#CFGFLAGS += -DBCM_DETACH_NUM_RETRIES_DEFAULT=3000

################################################################
```

```
# Disable the RX module initialization
##################################################################
#CFGFLAGS += -DBCM_RX_DISABLE

##################################################################
# Enable TX callback in interrupt thread
##################################################################
#CFGFLAGS += -DTX_CB_INTR

##################################################################
# When sal_sem_take wait for semaphore, system will use
# monotonic time instead of real time to computer how long
# one thread has been waiting.
##################################################################
#CFGFLAGS += BCM_MONOTONIC_TIME

##################################################################
# Enable multiple SDK-based applications to run on top of a
# single BDE (see $SDK/doc/multi-instance.txt for more
# information).
##################################################################
#CFGFLAGS += -DBCM_INSTANCE_SUPPORT

##################################################################
#
# Disable SW dumps routines from compilation.
# SW dumps are enabled by default in SDK.
#
##################################################################
#CFGFLAGS += -DBCM_SW_STATE_DUMP_DISABLE
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.local.template
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_niv.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_niv.c
* Purpose: Maintains all the debug information for niv
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/esw/techsupport/niv/trident2_niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flashDrvLib.h,v 1.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashDrvLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_error.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_error.h
* Purpose:     CINT error handling interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_error.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_flows.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_flows.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_diag.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_diag.c

No license file was found, but licenses were detected in source scan.

```
/*
* pcicfg.h: PCI configuration constants and structures.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: pcicfg.h,v 1.1 Broadcom SDK $
*/
/* Everything below is BRCM HND proprietary */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/pcicfg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       context.h
* Purpose:    API mode contextualizer interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/context.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod16_diagnostics.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* Copyright: (c) 2012 Broadcom Corp.
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : tefmod16_diagnostics.c
* Description: C sequences which utilize tier1s to build configurations
*              which target only the diagnostic features of the Serdes
```

```
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    counter.c
* Purpose: Caladan3 Contolled counter
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/counter.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_encap.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_encap.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_encap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCITConsole.c,v 1.5 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibCITConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_fabric_topology.c,v 1.16.24.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC TOPOLOGY
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_topology.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bfcmap_vlan.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap_vlan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmtblmgr.c,v 1.1.6.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr/nlmtblmgr.c
No license file was found, but licenses were detected in source scan.

/* $Id: ppd_api_lif.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_lif.h
*
* MODULE PREFIX:  soc_ppd_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_lif.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_oam.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_oam.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_oam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/hal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/hal.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
/*
* Common [OS-independent] header file for
* Broadcom BCM44XX 10/100Mbps Ethernet Device Driver
*
* $Id: etc.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/etc.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod_phyreg.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* Copyright: (c) 2012 Broadcom Corp.
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : tscmod_phyreg.c
* Description: Implements register access functions for TSCMod
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod_phyreg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_line_gfa.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_line_gfa.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STG definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/stg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_fcf.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_fcf.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
```

* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_fcf.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cmicm_schan.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CMICM S-Channel (internal command bus) support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_schan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwQltEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQltEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwQltEntry.hx
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pon_mact_move.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_mac_move.c
* Purpose: An example of the PON application for MAC move basedon DSP parsing mode
* or MACT Event FIFO mode. The MAC move feature can be supported both on PON and NNI port.
*
* Soc Properties configuration:

```
*     mcs_load_uc0=pon to enable loading ukernel core 0
*     l2_learn_limit_mode=2 to configure the PON tunnel Id MAC limit.
*     port_priorities.BCM88650=8 to configure the number of priorities at egq.
*     num_queues_pci=40 to configure the ARAD cosq numbers, from 0-39.
*     num_queues_uc0=8 to configure the ARM core 0 cosq numbers, from 40-47.
*     ucode_port_204.BCM88650=CPU.5 to configure local port 204 to send the DSP packet.
*
* Calling sequence:
*
* Initialization:
*  1. Add the following port configureations to config-sand.bcm
*       ucode_port_129.BCM88650=10GBase-R15
*       ucode_port_5.BCM88650=10GBase-R14
*       ucode_port_4.BCM88650=10GBase-R13
*  2. Set PON port and NNI port to recognize single stag, single ctag and s_c_tag frames.
*       - call port_tpid_init()
*       - call bcm_port_tpid_add()
*  3. Remove Ports from VLAN 1.
*       - call bcm_vlan_gport_delete_all()
*  4. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).
*       - call bcm_port_vlan_member_set()
*  5. Enable additional port tunnel lookup in PON ports.
*       - call bcm_vlan_control_port_set()
*
* N:1 Service:
* Set up sequence:
*  1. Create vswitch for basic bridging
*       - Call bcm_vswitch_create()
*       - Call bcm_multicast_create()
*  2. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN_STACKED
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_STACKED,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_ETHERTYPE,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_VLAN_ETHERTYPE,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_ETHERTYPE
*  3. Add PON LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  4. Set multicast settings,Add PON-LIFs to MC-ID = VSI + 16K
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  5. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  6. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
```

```
*  7. Create NNI LIF only once
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  8. Add NNI LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  9. Set multicast settings, Add NNI-LIF to MC-ID = VSI
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  10.Set the multicast group offset to flood downstream packets in multicast group
*       - Call bcm_port_control_set (NNI-LIF, offset= X constant)
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Destroy the multicast groups.
*       - Call bcm_multicast_destroy()
*  4. Destroy the VSI.
*       - Call bcm_vswitch_destroy()
*
* Service Model:
* N:1 Service:
*          PON Port 4,5  <---------------------->  VSI  <---> 1 NNI Port 129
*     PON 1 Tunnel-ID 1000 CVLAN 60--------------|
*     PON 2 Tunnel-ID 1001 CVLAN 61--------------|--- 4097  ---  SVLAN 600 CVLAN 601
*
*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/pon/cint_pon_utils.c
*      BCM> cint examples/dpp/pon/cint_pon_mact_move.c
*      BCM> cint
*      cint> pon_mact_learning_setup(unit, dsp_parsing, port, aging_time);
*      cint> pon_app_init(unit, pon_port_1, pon_port_2, nni_port);
*      cint> pon_n_1_service(unit);
*      cint> pon_mact_limit_set(unit, port, tunnel_id, limit_num);
*      cint> pon_mact_mac_move_event_set(unit, enable);
*      cint> pon_mact_event_handle_register(unit);
*      cint> pon_n_1_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_mact_move.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyi2c.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    phyi2c.c
* Purpose: I2C bus read/write routines for SFP copper PHY devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyi2c.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utilex_bitstream.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_bitstream.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: register.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       register.h
* Purpose:     Base definitions for SBX register types
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/register.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_quadra28_dependencies.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                            *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sal.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sal.c
* Purpose: Defines sal routines for VxWorks targets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/sal.c
No license file was found, but licenses were detected in source scan.

```
/**
*
*
* $Id: tmu_diags_c.stg,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_tmu_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
```

```
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_tmu_diags.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: srds_api_uc_common.h 1067 2015-06-16 22:53:47Z kirand $  *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: x1240RtcEeprom.c,v 1.2 2011/07/21 16:14:38 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
*********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/x1240RtcEeprom.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm_msg.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    eth_lm_dm_msg.h
* Purpose: ETH_LM_DM Messages definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/eth_lm_dm_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stat.c
* Purpose: BCMX diagnostic stat command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log (BSL)
*
* BSL functions for EXTERNAL (application) usage.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/bslext.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cy2239x.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Cypress W229393 Clock generator (PLL) chip.
* The W229393 is a highly integrated frequency timing generator,
* supplying a variety of common clock sources.
*
* This driver is meant to replace the W229/W311 clock chips found on
* most StrataSwitch reference designs.
*
* The following output below is from the correct programming of the
* CY22393x device using Cyclocks RT.
*
*    _____   ______________________
*   / __\ \ / / _ \ _ \ __/ __/ __|
*  | (__ \ ^ /|  _/   / _|\__ \__ \
*   \___| |_| |_| |_|_\___|___/___/ TIMING TECHNOLOGY
*  ==================================================
*                 _______________
*               _|     \__/     |_  ________
*         CLKC |_| 1        16 |_| SHUTDOWN/OE
*               _|            |_    _______
*          VDD |_| 2        15 |_| S2/SUSPEND
*               _|            |_
*         AGND |_| 3        14 |_| AVDD
*               _|            |_
*        XTALIN |_| 4        13 |_| SCLK
*               _|   CY22393    |_
*       XTALOUT |_| 5        12 |_| SDAT
*               _|            |_
*         XBUF |_| 6        11 |_| GND
*               _|            |_
*         CLKD |_| 7        10 |_| CLKA
*               _|            |_
*         CLKE |_| 8         9 |_| CLKB
*                |_______________|
*
* Generated by CyClocksRT R1.05.00
*
* Modification Date: 2/14/02
* Comments: Slave Address is 0x6A which translated to 0xd4 (bit zero
*           not used by CyClocksRT program).
* Customer: Broadcom
```

```
* FAE:      n/a
* License #:n/a
* Reference Input:   25.000000 MHz External
* ==============================================================
* | Pll  |  S2   | Source|  Desired   |   Actual   |   PPM    |
* ==============================================================
* | Pll3 |   -   |  Ref  | 266.000000 | 266.000000 | 0.0      |
* | Pll2 |   -   |  Ref  | 375.000000 | 375.000000 | 0.0      |
* | Pll1 |   0   |  Ref  | 200.000000 | 200.000000 | 0.0      |
* | Pll1 |   1   |  Ref  | 134.000000 | 134.000000 | 0.0      |
* ==============================================================
*
* Clock Output
* ==========================================================================
* |Output|  S2   |  Source  |  Desired   |   Actual   |   PPM    | Voltage|
* ==========================================================================
* | XBUF |   -   |  Ref     |  25.000000 |  25.000000 |     +0.0 |  3.3V  |
* | CLKE |   -   |  Pll1/4  |  50.000000 |  50.000000 |     +0.0 |  3.3V  |
* | CLKD |   -   |  Pll2/3  | 125.000000 | 125.000000 |     +0.0 |  3.3V  |
* | CLKC |   -   |  Pll2/3  | 125.000000 | 125.000000 |     +0.0 |  3.3V  |
* | CLKB |   -   |  Pll3/2  | 133.000000 | 133.000000 |     +0.0 |  3.3V  |
* | CLKA |   -   |  Pll3/2  | 133.000000 | 133.000000 |     +0.0 |  3.3V  |
* ==========================================================================
*
*
* Programming Algorithm
*
*  For Core (Outputs AB, PLL3): NOTE: Q defaults to 25 so no adjustmnt
*  is necessary.
*
* 1. Adjust Q to desired value (25).  Default so no action necessary!!!
* 2. Adjust P to desired value 3. Adjust output divider to desired value
* (2) - default is 3 for core and SDRAM 4. Adjust LF
*
* For SDRAM (Outputs CD, PLL2):
*
* 1. Adjust Q to desired value (25)
* 2. Adjust P to desired value
* 3. Adjust output divider to desired value (2) - default is 3 for core and
*    SDRAM
* 4. Adjust LF
*
* For PCI/CPU clock  (OUTPUT E, PLL1)
*
* 1. Adjust Q to desired value (25).  Default so no action necessary!!!
* 2. Adjust P to desired value
* 3. Adjust output divider to desired value (4) - Default so no action
*    necessary!!!
```

```
* 4. Adjust LF.
* 5. Compensate as necessary for baud rate or other parameters affected by
*    changing the PCI or CPU frequency!!!!!!
*
*
* See the Cypress W22393 Clock chip data sheet(s) for more details.
* See also: http://www.cypress.com/clock/datasheets.html
* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/cy2239x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibPT.h
*
* <pre>
*
* ======================================================================
* ==  sbZfSbQe2000ElibPT.h - Class Instruction Table ZFrame  ==
* ======================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibPT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibPT.h
*
```

```
* ABSTRACT:
*
*     Port Table ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-November-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPT.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident.h,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident.h
* Purpose:     Function declarations for Trident  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trident.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: OamProcess.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:     Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ea/tk371x/OamProcess.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shadow.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       shadow.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shadow.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_oam.h,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_oam.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lag.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_lag.h
*
* MODULE PREFIX:  soc_ppc_lag
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_lag.h

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_o.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_o.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trunk.c
* Purpose:    Trident2 resilient hashing and VP LAG implementation.
*             VP LAG code is enclosed in INCLUDE_L3.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_port.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       credit_request_thresholds.h
* Purpose:    Extern declarations for DPP init ips thresholds routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/credit_request_thresholds.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_qos.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_qos.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: field_prio.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field_prio.c
* Purpose:    FP entry priority handling (for entries in External TCAM)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/field_prio.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*                                                                              *
*  Revision      :  $Id: srds_api_uc_common.h 1131 2015-09-11 18:51:06Z brentrob $  *
*                                                                              *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                        *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_debug.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_m.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_m.i
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------
#* $Id: parallel_detect.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*---------------------------------------------------------------------
#* File       : parallel_detect.soc
#* Description: parallel detect testing soc script
#*---------------------------------------------------------------------*/

#09.03
#BCM.0> config
#   serdes_fiber_pref_xe4=1
#   serdes_fiber_pref_xe5=1
#   serdes_1000x_at_6250_vco_xe=1
#   pbmp_xport_xe=0x3fc4444
#   pci_delay_val13=0x83000000
#   os=unix
#   pci_override_dev=0x8406
#   pci_delay_val=0x0f00d711
#   parity_enable=0
#   pci_delay_val0=0x840601
#   pci_delay_val1=0x478180a
#   pci_delay_val2=0x6064d0
#   serdes_fiber_pref=0
#   pci_delay_val3=0x600650
#   pci_delay_val4=0x101fe1
#   pci_delay_val6=0xff0
#   pci_delay_val7=0x54400000
#   bcm53400_init_port_config=2
#   pci_delay_val8=0x4


#working PD to 1G
init all
phy xe4 0x6c050 0x001c
phy xe8 0x6c050 0x001c
phy xe4 0x0c188 0x2
port xe8 speed=1000
port xe4 an=t adv=10g
phy xe4 0x0c1ac


#working PD to 1G-cl37
config add phy_an_c37_xe8=1
config add phy_an_c73_xe8=0
```

```
init all
phy xe4 0x6c050 0x001c
phy xe8 0x6c050 0x001c
port xe8 an=t adv=1000full
port xe4 an=t adv=10g
phy xe4 0x0c188 0x2
phy xe4 0x0c181 0x1c16
phy xe4 0x0c180 0x0
phy xe4 0x0c180 0x101
#check PD status bit 07: PD Done, bit 01: PD in progress
phy xe4 0x0c1ac
#bit 8 should be set to indicate pc_cl37_completed
phy xe4 0x0c1ac

#Working PD to 10GXAUI
#xe0/xe1 are both xaui ports
init all
phy xe0 0x6c050 0x001c
phy xe1 0x6c050 0x001c
phy xe0 0x0c188 0x3
port xe1 speed=10000
port xe0 an=t adv=10g
phy xe0 0x9000 0x6008
phy xe0 0x0c180 0x0
phy xe0 0x0c180 0x101
#check PD status bit 07: PD Done, bit 01: PD in progress
phy xe0 0x0c1ac
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/parallel_detect.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54684.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54684.h
*
* This driver applies to BCM54684.
* It support driving Copper or SERDES interfaces.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54684.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fpem.c
* Purpose:     Exact match table support
*
* Provides:
*      soc_internal_exact_match_read
*      soc_internal_exact_match_write
*      soc_internal_exact_match_ins
*      soc_internal_exact_match_del
*      soc_internal_exact_match_lkup
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/fpem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemQCtlEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemQCtlEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: falcon_furia_field_access.h 754 2014-10-29 22:29:05Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
```

```
*     Irvine, CA  92617                                        *
*                                                              *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_field_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_cmds.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_cmds.c
* Purpose:     SIRIUS-specific diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sirius_cmds.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_end2end_scheduler.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_end2end_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: set_tdm.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       set_tdm.c
* Purpose:     Derive TDM schedules
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tdm_td2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemFifoControlEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemFifoControlEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfmlm.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linemodule CLI access
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cfmlm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_eval_ast_cint.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_eval_ast_cint.c
* Purpose:     CINT AST node evaluators
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_ast_cint.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_mymac.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_mymac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cM41T81Clock.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2cM41T81Clock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BagEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR0BagEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_app1.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and function declarations for dnx_app1.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_app1.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_cfg_seq.c,v 1.119 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmblkmemmgrint.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmblkmemmgrint.h
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom AMBA Interconnect definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: aidmp.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/aidmp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     mcast.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/mcast.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cint_linkscan.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_linkscan.c
* Purpose:     Example to enable linkscan on a given set of ports.
*
* The link scan feature enables you to monitor the status of ports and links.
* If the link status changes, the driver calls your callback routine.
*
* Cint usage:
*  *   Create linkscan callback routine that will be called during a port state change event.
*      In the cint example, the routine prints the link change event.
*      linkscan_cb(unit, port, *port_info)
*
*  *   Start SW or HW linkscan on a given set of ports. The linkscan thread is started.
*      Callback routine is registered called at each port link change event.
*      linkscan_enable(unit)
*
*  *   Disable linkscan. The linkscan thread is stopped. Callback routine is unregistered.
*      Port linkscan is removed (set to NONE).
*      linkscan_disable(unit)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_linkscan.c
No license file was found, but licenses were detected in source scan.

```
/*
* Common [OS-independent] portion of
* Broadcom Home Networking Division 10/100 Mbit/s Ethernet
* Device Driver.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etc.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_datatypes.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       cint_datatypes.h
* Purpose:     CINT datatype interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_datatypes.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_ac.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_ac.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_eyescan.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DPP EYE CAN
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/dpp_eyescan.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_link.h,v 1.1.2.1 2013/09/10 07:35:39 Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_stat_if.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_stat_if.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_top.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM top header for BCM56960
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk/tdm_th_top.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_stack.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* RAMON STACK H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_stack.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap20v.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap20v.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC memory access implementation for DNX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmgmacrxh.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific Receive Data Header for the
* Broadcom Home Networking Division
* BCM47XX GbE cores.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmgmacrxh.h
No license file was found, but licenses were detected in source scan.

/* $Id: sand_delta_list.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_delta_list.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_delta_list.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: vlan.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/vlan.h
No license file was found, but licenses were detected in source scan.

/* $Id: sand_rhlist.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_rhlist.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwAllocRateEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwAllocRateEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_link_bonding.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_egr_queuing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_egr_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/cambist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_dev_feature_manager.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_sc_lkup_table.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/range.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_qualify_IncomingIpIfClass.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_cfg_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_vxlan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/th_cambist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/test_oamp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/th2_cambist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_fc.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/alloc_list.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qePCSRegEnums.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_bfd_ipv4_single_hop_remote_detect_compare.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/phy_tsc_iblk.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/td2p_mbist_cpu.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/autocoder/src/Builders/swStateBuilder/access/Tabs.java

No license file was found, but licenses were detected in source scan.

```
/**
* @file sbElibStatus.h Enumerated Return Codes
*
* <pre>
* ====================================================
* ==  sbElibStatus.h - Egress Library public API
* ====================================================
*
* WORKING REVISION: $Id: sbElibStatus.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* MODULE NAME:
*
*     sbElibStatus.h
*
* ABSTRACT:
*
*     Egress Library Error Enumeration
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbElibStatus.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dport.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/dport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh_pack.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       bhh_pack.h
* Purpose:    Interface to pack and unpack routines common to
*             SDK and uKernel for:
*             - BHH Control messages
*             - Network Packet headers
*
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bhh_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright(c) Broadcom Corp.
* $Id: bcmenet47xx.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific definitions for
* Broadcom BCM47XX 10/100 Mbps Ethernet cores.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmenet47xx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_mpls.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: MPLS APIs
*
* Purpose:
*     MPLS API for SBX devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_mpls.h
No license file was found, but licenses were detected in source scan.

```
# $Id: tsanity.soc,v 1.9 Broadcom SDK $
```

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

# Use expected COS configuration for tests
config add bcm_num_cos=4

init
init misc
init mmu

local xqmax 55
if $?magnum || $?BCM5650_B0 "local xqmax 29"

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# Tests Start Here

echo Running CPU benchmarks ...
tr 21
$done

echo Running PCI tests ...
tr 2
$done

echo Running register tests ...
tr 3
$done
```

```
echo Running S-Channel message buffer test ...
tr 4
$done

echo Running Switching Memory tests
# Note: Switching memory tests automatically put MMU in debug mode

echo "   DEF_IP_HI";  tr 50 m=DEF_IP_HI; tr 51 m=DEF_IP_HI
echo "   DEF_IP_HIT_HI"; tr 50 m=DEF_IP_HIT_HI; tr 51 m=DEF_IP_HIT_HI
echo "   DEF_IP_HIT_LO"; tr 50 m=DEF_IP_HIT_LO; tr 51 m=DEF_IP_HIT_LO
echo "   DEF_IP_LO";  tr 50 m=DEF_IP_LO; tr 51 m=DEF_IP_LO
echo "   PORT_DSCP_PRI"; tr 50 m=PORT_DSCP_PRI; tr 51 m=PORT_DSCP_PRI
echo "   EGRESS_MASK";  tr 50 m=EGRESS_MASK; tr 51 m=EGRESS_MASK
echo "   FE_IPMC_VEC";  tr 50 m=FE_IPMC_VEC; tr 51 m=FE_IPMC_VEC
echo "   FE_IPMC_VLAN";  tr 50 m=FE_IPMC_VLAN; tr 51 m=FE_IPMC_VLAN
echo "   IMASK";  tr 50 m=IMASK; tr 51 m=IMASK
echo "   IRULE";  tr 50 m=IRULE; tr 51 m=IRULE
echo "   GE_IPMC_VEC";  tr 50 m=GE_IPMC_VEC; tr 51 m=GE_IPMC_VEC
echo "   GE_IPMC_VLAN";  tr 50 m=GE_IPMC_VLAN; tr 51 m=GE_IPMC_VLAN
echo "   GFFPCOUNTERS";  tr 50 m=GFFPCOUNTERS; tr 51 m=GFFPCOUNTERS
echo "   GIMASK";  tr 50 m=GIMASK; tr 51 m=GIMASK
echo "   GIRULE";  tr 50 m=GIRULE; tr 51 m=GIRULE
echo "   GMETERING";  tr 50 m=GMETERING; tr 51 m=GMETERING
echo "   L2_TABLE";  tr 50 m=L2_TABLE; tr 51 m=L2_TABLE
echo "   L2_HIT_BITS";  tr 50 m=L2_HIT_BITS; tr 51 m=L2_HIT_BITS
echo "   L2MC_TABLE";  tr 50 m=L2MC_TABLE; tr 51 m=L2MC_TABLE
echo "   L2_STATIC_BITS"; tr 50 m=L2_STATIC_BITS; tr 51 m=L2_STATIC_BITS
echo "   L2_VALID_BITS"; tr 50 m=L2_VALID_BITS; tr 51 m=L2_VALID_BITS
echo "   L3_TABLE";  tr 50 m=L3_TABLE; tr 51 m=L3_TABLE
echo "   L3_HIT_BITS";  tr 50 m=L3_HIT_BITS; tr 51 m=L3_HIT_BITS
echo "   L3_VALID_BITS"; tr 50 m=L3_VALID_BITS; tr 51 m=L3_VALID_BITS
echo "   L3INTF";  tr 50 m=L3INTF; tr 51 m=L3INTF
echo "   L3_IPMC";  tr 50 m=L3_IPMC; tr 51 m=L3_IPMC
echo "   PORT_MAC_BLOCK"; tr 50 m=PORT_MAC_BLOCK; tr 51 m=PORT_MAC_BLOCK
echo "   IPMCREP";  tr 50 m=IPMCREP; tr 51 m=IPMCREP
echo "   PORT";   tr 50 m=PORT; tr 51 m=PORT
echo "   PORT1";  tr 50 m=PORT1; tr 51 m=PORT1
echo "   VLAN_STG";  tr 50 m=VLAN_STG; tr 51 m=VLAN_STG
echo "   TRUNK_BITMAP";  tr 50 m=TRUNK_BITMAP; tr 51 m=TRUNK_BITMAP
echo "   PORT_TRUNK_EGRESS"; tr 50 m=PORT_TRUNK_EGRESS;
   tr 51 m=PORT_TRUNK_EGRESS
echo "   TRUNK_GROUP";  tr 50 m=TRUNK_GROUP; tr 51 m=TRUNK_GROUP
echo "   VLAN";   tr 50 m=VLAN; tr 51 m=VLAN
echo "   PORT_VPLS_BITMAP_TABLE";  tr 50 m=PORT_VPLS_BITMAP_TABLE;
   tr 51 m=PORT_VPLS_BITMAP_TABLE
echo "   CCP";   tr 50 m=CCP; tr 51 m=CCP
echo "   CFAP";   tr 50 m=CFAP; tr 51 m=CFAP
```

```
echo "   XQ 0-$xqmax"
for xq=0,$xqmax 'tr 50 m=XQ$xq; tr 51 m=XQ$xq'
$done

echo Running Table DMA Tests
# Specify a zero count for each test to indicate entire memory.
# Otherwise the count from the previous invocation is used.
echo "   DEF_IP_HI";  tr 71 m=DEF_IP_HI c=0
echo "   DEF_IP_HIT_HI"; tr 71 m=DEF_IP_HIT_HI c=0
echo "   DEF_IP_HIT_LO"; tr 71 m=DEF_IP_HIT_LO c=0
echo "   DEF_IP_LO";  tr 71 m=DEF_IP_LO c=0
echo "   EGRESS_MASK";  tr 71 m=EGRESS_MASK c=0
echo "   FE_IPMC_VEC";  tr 71 m=FE_IPMC_VEC c=0
echo "   FE_IPMC_VLAN";  tr 71 m=FE_IPMC_VLAN c=0
echo "   GFFPCOUNTERS";  tr 71 m=GFFPCOUNTERS c=0
echo "   GE_IPMC_VEC";  tr 71 m=GE_IPMC_VEC c=0
echo "   GE_IPMC_VLAN";  tr 71 m=GE_IPMC_VLAN c=0
echo "   GMETERING";  tr 71 m=GMETERING c=0
echo "   L2_TABLE";  tr 71 m=L2_TABLE c=0
echo "   L2_HIT_BITS";  tr 71 m=L2_HIT_BITS c=0
echo "   L2MC_TABLE";  tr 71 m=L2MC_TABLE c=0
echo "   L2_STATIC_BITS"; tr 71 m=L2_STATIC_BITS c=0
echo "   L2_VALID_BITS"; tr 71 m=L2_VALID_BITS c=0
echo "   L3_TABLE";  tr 71 m=L3_TABLE c=0
echo "   L3_HIT_BITS";  tr 71 m=L3_HIT_BITS c=0
echo "   L3_VALID_BITS"; tr 71 m=L3_VALID_BITS c=0
echo "   L3INTF";  tr 71 m=L3INTF c=0
echo "   PORT_MAC_BLOCK"; tr 71 m=PORT_MAC_BLOCK c=0
echo "   PORT";   tr 71 m=PORT c=0
echo "   PORT1";  tr 71 m=PORT1 c=0
echo "   VLAN_STG";  tr 71 m=VLAN_STG c=0
echo "   TRUNK_BITMAP";  tr 71 m=TRUNK_BITMAP c=0
echo "   PORT_TRUNK_EGRESS"; tr 71 m=PORT_TRUNK_EGRESS c=0
echo "   TRUNK_GROUP";  tr 71 m=TRUNK_GROUP c=0
echo "   VLAN";   tr 71 m=VLAN c=0
echo "   PORT_VPLS_BITMAP_TABLE"; tr 71 m=PORT_VPLS_BITMAP_TABLE c=0
$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
```

```
$done

echo Running L2 insert/delete/lookup test ...
tr 32
$done

echo Running L2 overflow insert test ...
tr 33
$done

echo Running L2 hash test ...
tr 34
$done

echo Running L2 delete by port test ...
tr 35
$done

echo Running L2 delete by vlan test ...
tr 36
$done

echo Running L3 overflow insert test ...
tr 37
$done

echo Running L3 hash test ...
tr 38
$done

echo Running MDIO Linkscan test
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

echo Testing CPU DMA loopback ...
tr 17 c=5
$done

echo Testing CPU DMA, Scatter/Gather Reload ...
tr 22
$done

echo Testing CPU DMA, Scatter/Gather Simple ...
tr 23
$done
```

```
echo Testing CPU DMA, Scatter/Gather Random ...
tr 24
$done

#--------- MAC Loopback ---------

echo Testing MAC Loopback - 100 Mb/s all FE/GE ports
tr 18 pbm=fe,ge speed=100

echo Testing MAC Loopback - 1000 Mb/s all GE ports
tr 18 pbm=ge speed=1000

echo Testing MAC Loopback - 10000 Mb/s all HG ports
tr 18 pbm=hg speed=10G

echo Testing MAC Loopback - 10 Mb/s all FE/GE ports
tr 18 pbm=fe,ge speed=10 ppc=1 le=500

$done

#--------- PHY Loopback ---------

echo Testing PHY Loopback - 100 Mb/s all FE/GE ports
tr 19 pbm=fe,ge speed=100 count=1

echo Testing PHY Loopback - 1000 MB/s all GE ports
tr 19 pbm=ge speed=1000

echo Testing PHY Loopback - 10000 MB/s all HG ports
tr 19 pbm=hg speed=10G

echo Testing PHY Loopback - 10 Mb/s all FE/GE ports
tr 19 pbm=fe,ge speed=10 ppc=1 le=500 count=1

$done

#--------- EXT Loopback ---------

#TBD

# If you have external loopback cables connected as follows
# 1-2, 3-4, 5-6, 7-8, 9-10, 11-12
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
# setenv ext10 1
# setenv ext100 1
# setenv ext1000 1
```

```
# or
# setenv extall 1

local fwd 0x55555505555555
local bwd 0xaaaaaa0aaaaaaa
local fwdg 0x5000000
local bwdg 0xa000000

if $?extall \
 "local ext10 1; local ext100 1; local ext1000 1"

if $?ext10 \
 "echo Testing External Loopback - 10 MB/s forward; \
  tr 20 tpbm=$fwd di=1 speed=10 count=10; \
  echo Testing External Loopback - 10 MB/s reverse; \
  tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
 "echo Testing External Loopback - 100 MB/s forward; \
  tr 20 tpbm=$fwd di=1 speed=100 count=10; \
  echo Testing External Loopback - 100 MB/s reverse; \
  tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if $?ext1000 \
 "echo Testing External Loopback - 1000 MB/s forward; \
  tr 20 tpbm=$fwdg di=1 speed=1000 count=10; \
  echo Testing External Loopback - 1000 MB/s reverse; \
  tr 20 tpbm=$bwdg di=-1 speed=1000 count=10"

#--------- INT snake Loopback ---------

echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

echo "Testing Filters"
rcload rc.soc
tr 70

# Show status
```

```
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_parse.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based printing and parsing functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
*****************************************************************************************
Copyright 2012-2017 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
```

valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
protect the confidentiality thereof,and to use this information only in connection
with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/ad.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/init.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/init.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/key.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/ad.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/instruction.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/kbp/alg_kbp/include/key.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/instruction.h
No license file was found, but licenses were detected in source scan.

```
/*
* Low-Level PCI and SI support for BCM47xx
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndpci.c,v 1.5 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndpci.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shell.c,v 1.235 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     shell.c
* Purpose:     Command parsing and dispatch.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/shell.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_TSCE_XGXS.
* This file provides all basic definitions required to program the BCMI_TSCE_XGXS.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tsce_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: boot.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  boot.c
* Purpose: Kernel initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/boot.c
No license file was found, but licenses were detected in source scan.

```
/** \file dnx/pemladrv/pemladrv.h
*
* PEMLA related functions that should be exposed
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/pemladrv/pemladrv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbx_xml.h,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    dbx_xml.h
* Purpose:    Types and structures used when working with data IO
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/dbx/dbx_xml.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       multicast.c
* Purpose:     Tomahawk multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.117 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_qos.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vpn.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains generic VPN definitions internal to the BCM library.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/vpn.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_txrx.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbx_txrx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BwpEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR0BwpEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: t3p1_cmu_diags.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_cmu_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/t3p1/t3p1_cmu_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pli.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pli.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/pli.h
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: siutils.c,v 1.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/siutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTwoBitEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTwoBitEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bus.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* I2C driver for the CPU Management Interface Controller (CMIC). This
* module provides common I2C Bus driver routines for using the the
* I2C bus controller internal to the CMIC as a bus-master. (I2C
* bus-master driver interface).
*
* The I2C bus is a 2-wire bus originally developed by Philips
* Semiconductor for bi-directional data I/O between two
* interconnected integrated circuits (hence the name Inter-IC, IIC or
* I2C). The I2C bus uses the 2-wires SDA (Serial Data) and SCL
* (Serial Clock) and each device connected to the bus is addressable
* through a unique slave or device address while simple master/slave
* relationships exist at all times. Serial, 8-bit oriented,
* bi-directional data transfers can be made at up to 400Kbits/sec in
* fast mode, with 100Kbits/s being the norm. The number of IC's
* connected to this bus is limited only by a maximum bus capacitance
* of 400pF. For more information, see: The I2C Bus and How to Use it
*
* This driver allows access to I2C slave devices attached to the SOC
* (Switch on a Chip) device's SCL and SDA pins. The SDA and SCL pins
* are controlled by the intelligent I2C controller inside the CMIC.
*
* Known Issues
*
* Currently, slave mode is supported only in HW, as supporting dual
* mode (master/slave) in software is currently unimplemented.
*
* The I2C controller will automatically enter slave transmit mode if
* it receives it's own Slave address with the read bit
* set. Similarly, the I2C controller will automatically enter slave
* receive mode if it receives it's own slave address and the write
* bit, or the general call address. The implication is that you
* cannot have two masters with the same slave address on the same bus
* or using the General call address at this time.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bus.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_res_bitmap.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_res_bitmap.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision    :  $Id: phy8806x_tsc_internal.h 1010 2015-04-15 22:02:27Z kirand $ *
*                                                                            *
*  Description :  Internal API functions                                     *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_mmu.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    trident2_mmu.c
* Purpose: Maintains all the debug information for mmu
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mmu/trident2_mmu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_mem_access_callback.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       dnx_sand_mem_access_callback.c
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_mem_access_callback.c
No license file was found, but licenses were detected in source scan.

```
# $Id: robo.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Initialization ROBO (run commands) file
#
#       These are default commands that are read and executed by default
#       when BCM boots up.  Typically this file is called robo.soc and resides
#       in the flash filesystem, NVRAM, or disk.
#
# Board Configuration Setting
#
```

```
#       This file uses configuration properties to know on which board
#       it is running.  Currently one of following settings must be made:
#
#       BCM953604K          config add BCM953604K=1
#       BCM953604R          config add BCM953604R=1
#       BCM989500K          config add BCM989500K=1
#       BCM989501R          config add BCM989501R=1
#

if $?1 "echo rc: arguments not supported; exit"
if !$?unit "echo rc: no current unit; exit"


expr $units - 1;local num_units $?
echo "robo: unit $unit (of $num_units) device $devname"

echo "rc: unit $unit device $devname"
local quiet no
local echo echo
local rcdone $rc$unit

# Set convenience local variables

# board related
if $?BCM953604K || $?BCM953604R \
 "local vo_pbmp 1"

if $?BCM989501R || $?BCM989500K \
 "config add port_init_autoneg_ge0=0;\
 config add port_init_autoneg_ge1=0; \
 config add port_init_autoneg_ge2=0; \
 config add port_init_autoneg_ge3=0; \
 config add port_init_speed_ge0=100; \
 config add port_init_speed_ge1=100; \
 config add port_init_speed_ge2=100; \
 config add port_init_speed_ge3=100; \
 config add phy_lr_initial_mode_ge0=1; \
 config add phy_lr_initial_mode_ge1=1; \
 config add phy_lr_initial_mode_ge2=1; \
 config add phy_lr_initial_mode_ge3=1; \
 config add phy_lr_initial_ctrl_ge0=0x140; \
 config add phy_lr_initial_ctrl_ge1=0x140; \
 config add phy_lr_initial_ctrl_ge2=0x140; \
 config add phy_lr_initial_ctrl_ge3=0x140"

# chip related
if $?BCM953604R \
 "local PBMP_ALL 0xffffff;\
```

```
 config add pbmp_valid=0x5ffffff; \
 local vo_led 1"
if $?BCM953604K \
 "local PBMP_ALL 0x1affffff"

# Shutdown threads if system is already running
counter off
linkscan off
if $?feature_l2_hashed && !$?simulator \
   "l2mode off;\
   $echo rc: stop l2 thread"

if $?feature_field && !$?simulator \
   "fp thread off;\
   $echo rc: stop fp thread"

init soc

# Voyager Reference board (BCM953604R) LED configuration
if $?vo_led \
 "s led_func0_ctl 0x100; \
 s led_func1_ctl 0x100; \
 s led_en_map 0xffffff; \
 s led_control 0x183"

#
# Init CLI and BCM API
#
# This must be done after the raw register writes to avoid having state
# clobbered.  NOTE: Tables are cleared by "init bcm" below.  If
# table modifications are required, put them after "init bcm".  Some
# registers might also be affected.
#

if !$?no_bcm \
 "init bcm; \
  $echo rc: BCM driver initialized"

if $?no_bcm \
 "$echo rc: *** NOT initializing BCM driver ***"


if !$?no_bcm && !$?vo_pbmp\
 "linkscan 250000; \
  port e linkscan=on; \
  $echo rc: Port modes initialized"

if !$?no_bcm && $?vo_pbmp\
```

```
  "linkscan 250000; \
  port $PBMP_ALL linkscan=on;\
  $echo rc: Port modes initialized"

# No spanning tree is running, so put ports all in the forwarding state
# stp support not available for shadow device.

if !$?no_bcm  \
 "stg stp 1 e forward"

if $?no_bcm \
 "counter Interval=1000 Pbm=all; \
  $echo rc: Counter collection enabled"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/robo.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88680_a0.c
* Purpose:     bcm88680_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88680_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_bmact.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_bmact.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
```

```
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_bmact.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_application.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_application.c
* Purpose: An example of the PON application.
*       The following CINT provides a calling sequence example to bring up three main PON services categories: 1:1 Model , N:1 Model and TLS.
*       In this system, ARAD is used in a chip set to provide PON OLT functionality.
*       ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers 0-7).
*       Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service (ONU), and class of service.
*       Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link Identification (LLID), i.e., service or ONU#.
*       We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is prepended to the VLAN-Tag stack (as the outermost tag).
*       Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
*       When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
*       When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
*  1. Add the following port configureations to config-sand.bcm
*      ucode_port_129.BCM88650=10GBase-R15
*      ucode_port_5.BCM88650=10GBase-R14
*  2. Add the following PON application enabling configureations to config-sand.bcm
*      pon_application_support_enabled_5.BCM88650=TRUE
*      vlan_match_criteria_mode=PON_PCP_ETHERTYPE
*  3. Set PON port and NNI port to recognize single stag, single ctag and s_c_tag frames.
*      - call port_tpid_init()
*      - call bcm_port_tpid_add()
```

```
*  4. Remove Ports from VLAN 1.
*       - call bcm_vlan_gport_delete_all()
*  5. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).
*       - call bcm_port_vlan_member_set()
*  6. Enable additional port tunnel lookup in PON ports.
*       - call bcm_vlan_control_port_set()
*
* 1:1 Service:
* Set up sequence:
*  1. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN_STACKED
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_STACKED,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_ETHERTYPE,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_VLAN_ETHERTYPE,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_ETHERTYPE
*  2. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  3. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  4. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  4. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* N:1 Service:
* Set up sequence:
*  1. Create vswitch for basic bridging
*       - Call bcm_vswitch_create()
*       - Call bcm_multicast_create()
*  2. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN_STACKED
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN,
```

```
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_STACKED,
*        BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_ETHERTYPE,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_VLAN_ETHERTYPE,
*        BCM_VLAN_PORT_MATCH_PORT_TUNNEL_ETHERTYPE
*  3. Add PON LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  4. Set multicast settings,Add PON-LIFs to MC-ID = VSI + 16K
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  5. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  6. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  7. Create NNI LIF only once
*       - Call bcm_vlan_port_create()with following criterias:
*        BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  8. Add NNI LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  9. Set multicast settings, Add NNI-LIF to MC-ID = VSI
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  10.Set the multicast group offset to flood downstream packets in multicast group
*       - Call bcm_port_control_set (NNI-LIF, offset= X constant)
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* TLS Service:
* Set up sequence:
*  1. Create PON LIF
*       - Call bcm_vlan_port_create() with criteria BCM_VLAN_PORT_MATCH_PORT_TUNNEL and flag
BCM_VLAN_PORT_TRANSPARENT.
*  2. Add PON LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  3. Set multicast settings,Add PON-LIFs to MC-ID = VSI + 16K
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  4. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  5. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  6. Create NNI LIF
*       - Call bcm_vlan_port_create()with criterias BCM_VLAN_PORT_MATCH_PORT.
*  7. Add NNI LIF to vswitch
*       - Call bcm_vswitch_port_add()
```

```
*  8. Set multicast settings, Add NNI-LIF to MC-ID = VSI
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  9. Set the multicast group offset to flood downstream packets in multicast group
*       - Call bcm_port_control_set (NNI-LIF, offset= X constant)
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Destroy the multicast groups.
*       - Call bcm_multicast_destroy()
*  4. Destroy the VSI.
*       - Call bcm_vswitch_destroy()
*
* Service Model:
* 1:1 Service:
*    N(1) PON Port 5  <-----------------------------  CrossConnect  ------------> 1 NNI Port 129
*    Tunnel-ID 1000 CVLAN 20 <--------------------------------------------------> CVLAN 200
*    Tunnel-ID 1001 SVLAN 30 CVLAN 31 <-----------------------------------------> SVLAN 300 CVLAN 31
*    Tunnel-ID 1002 PCP 2 CVLAN 40 <--------------------------------------------> CVLAN 400
*    Tunnel-ID 1003 PCP 3 SVLAN 50 CVLAN 51 <-----------------------------------> SVLAN 500 CVLAN 51
*    Tunnel-ID 1004 PCP 4 CVLAN 60 ETHERTYPE 0x0899 <---------------------------> CVLAN 600
*    Tunnel-ID 1005 PCP 5 SVLAN 70 CVLAN 71 ETHERTYPE 0x0899 <------------------> SVLAN 700 CVLAN
71
*    Tunnel-ID 1006 ETHERTYPE 0x0899 <------------------------------------------> CVLAN 900
*    Tunnel-ID 1007 CVLAN 1100 ETHERTYPE 0x0899 <-------------------------------> CVLAN 1200
*    Tunnel-ID 1008 SVLAN 1300 CVLAN 1400 ETHERTYPE 0x0899 <--------------------> CVLAN 1500
*    Tunnel-ID 1009 CVLAN 34 CVLAN 35 <-----------------------------------------> SVLAN 304 CVLAN 305
* Traffic:
*  1. PON Port 5 Tunnel-ID 1000 CVLAN 20 <-CrossConnect-> NNI Port 129 CVLAN 200
*       - From PON port:
*           -  ethernet header with any DA, SA
*           -  Tunnel ID:1000
*           -  VLAN tag: VLAN tag type 0x9100, VID = 20
*       - From NNI port:
*           -  ethernet header with any DA, SA
*           -  VLAN tag: VLAN tag type 0x9100, VID = 200
*
*  2. PON Port 5 Tunnel-ID 1001 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129 SVLAN 300 CVLAN 31
*       - From PON port:
*           -  ethernet header with any DA, SA
*           -  Tunnel ID:1001
*           -  VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*       - From NNI port:
*           -  ethernet header with any DA, SA
*           -  VLAN tag: VLAN tag type 0x8100, VID = 300,VLAN tag type 0x9100, VID = 31
*
```

```
*  3. PON Port 5 Tunnel-ID 1002 PCP 2 CVLAN 40 <-CrossConnect-> NNI Port 129 CVLAN 400
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1002
*           -   VLAN tag: VLAN tag type 0x9100, VID = 40
*           -   PCP:2
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x9100, VID = 400
*
*  4. PON Port 5 Tunnel-ID 1003 PCP 3 SVLAN 50 CVLAN 51 <-CrossConnect-> NNI Port 129 SVLAN 500
CVLAN 51
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1003
*           -   VLAN tag: VLAN tag type 0x8100, VID = 50, VLAN tag type 0x9100, VID = 51
*           -   PCP:3
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 500,VLAN tag type 0x9100, VID = 51
*
*  5. PON Port 5 Tunnel-ID 1004 PCP 4 CVLAN 60 ETHERTYPE 0x0899 <-CrossConnect-> NNI Port 129
CVLAN 600
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1005
*           -   VLAN tag: VLAN tag type 0x9100, VID = 60
*           -   PCP:3
*           -   ETHERTYPE:0x0899
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x9100, VID = 600
*
*  6. PON Port 5 Tunnel-ID 1005 PCP 5 SVLAN 70 CVLAN 71 ETHERTYPE 0x0899 <-CrossConnect-> NNI Port
129 SVLAN 700 CVLAN 71
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1005
*           -   VLAN tag: VLAN tag type 0x8100, VID = 70, VLAN tag type 0x9100, VID = 71
*           -   PCP:5
*           -   ETHERTYPE:0x0899
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 700,VLAN tag type 0x9100, VID = 71
*
*  7. PON Port 5 Tunnel-ID 1006 ETHERTYPE 0x0899 <-CrossConnect-> NNI Port 129 CVLAN 900
*       - From PON port:
*           -   ethernet header with any DA, SA
```

```
*           - Tunnel ID:1006
*           - ETHERTYPE:0x0899
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x9100, VID = 900
*
*  8. PON Port 5 Tunnel-ID 1007 CVLAN 1100 ETHERTYPE 0x0899 <-CrossConnect-> NNI Port 129 CVLAN
1200
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1007
*           - VLAN tag: VLAN tag type 0x9100, VID = 1100
*           - ETHERTYPE:0x0899
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x9100, VID = 1200
*
*  9. PON Port 5 Tunnel-ID 1008 SVLAN 1300 CVLAN 1400 ETHERTYPE 0x0899 <-CrossConnect-> NNI Port
129 CVLAN 1500
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1005
*           - VLAN tag: VLAN tag type 0x8100, VID = 1300, VLAN tag type 0x9100, VID = 1400
*           - ETHERTYPE:0x0899
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x9100, VID = 1500
*  a. PON Port 5 Tunnel-ID 1009 CVLAN 34 CVLAN 35 <-CrossConnect-> NNI Port 304 CVLAN 305
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1005
*           - VLAN tag: VLAN tag type 0x9100, VID = 34, VLAN tag type 0x9100, VID = 35
*           - ETHERTYPE:0x0899
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 304, VLAN tag type 0x9100, VID = 305
*
* N:1 Service:
*    N(6) PON Port 5  <---------------------------->  VSI  <---> 1 NNI Port 129
*    Tunnel-ID 1000 ----------------------------|
*    Tunnel-ID 1000 CVLAN 80   -----------------|
*    Tunnel-ID 1000 CVLAN 81   -----------------|--- 4096  ---  SVLAN 800 CVLAN 801
*    Tunnel-ID 1000 CVLAN 82   -----------------|
*    Tunnel-ID 1000 SVLAN 80 CVLAN 801   -------|
* Traffic:
*  1. N(6-1) PON Port 5 Tunnel-ID 1000 <-> VSI 4096 <-> 1 NNI Port 129 SVLAN 800 CVLAN 801
*       - From PON port:
*           - ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:02
```

```
*           -  Tunnel ID:1000
*           -  VLAN tag: no VLAN tag
*       - From NNI port:
*           -  ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*           -  VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
*  2. N(6-2) PON Port 5 Tunnel-ID 1000 CVLAN 80 <-> VSI 4096 <-> 1 NNI Port 129 SVLAN 800 CVLAN 801
*       - From PON port:
*           -  ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:03
*           -  Tunnel ID:1000
*           -  VLAN tag: VLAN tag type 0x9100, VID = 80
*       - From NNI port:
*           -  ethernet header with any DA 00:00:00:00:00:03, SA 00:00:00:00:00:01
*           -  VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
*  3. N(6-3) PON Port 5 Tunnel-ID 1000 CVLAN 81 <-> VSI 4096 <-> 1 NNI Port 129 SVLAN 800 CVLAN 801
*       - From PON port:
*           -  ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:04
*           -  Tunnel ID:1000
*           -  VLAN tag: VLAN tag type 0x9100, VID = 81
*       - From NNI port:
*           -  ethernet header with any DA 00:00:00:00:00:04, SA 00:00:00:00:00:01
*           -  VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
*  4. N(6-4) PON Port 5 Tunnel-ID 1000 CVLAN 82 <-> VSI 4096 <-> 1 NNI Port 129 SVLAN 800 CVLAN 801
*       - From PON port:
*           -  ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:05
*           -  Tunnel ID:1000
*           -  VLAN tag: VLAN tag type 0x9100, VID = 82
*       - From NNI port:
*           -  ethernet header with any DA 00:00:00:00:00:05, SA 00:00:00:00:00:01
*           -  VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
*  5. N(6-5) PON Port 5 Tunnel-ID 1000 SVLAN 80 CVLAN 801 <-> VSI 4096 <-> 1 NNI Port 129 SVLAN 800
CVLAN 801
*       - From PON port:
*           -  ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:06
*           -  Tunnel ID:1000
*           -  VLAN tag: VLAN tag type 0x8100, VID = 80, VLAN tag type 0x9100, VID = 801
*       - From NNI port:
*           -  ethernet header with any DA 00:00:00:00:00:06, SA 00:00:00:00:00:01
*           -  VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
* TLS Service:
*    PON Port 5  <---------------------------->  VSI  <---> NNI Port 129
*    Tunnel-ID 1000 CVLAN 45   --------------- 4097 -----  CVLAN 45
*    Tunnel-ID 1000 SVLAN 55 CVLAN 65   ------ 4097 -----  SVLAN 55 CVLAN 65
* Traffic:
```

```
*  1. PON Port 5 Tunnel-ID 1000 CVLAN 45 <-> VSI 4097 <-> NNI Port 129 CVLAN 45
*       - From PON port:
*            -   ethernet header with DA 00:00:00:00:00:11, SA 00:00:00:00:00:22
*            -   Tunnel ID:1000
*            -   VLAN tag: VLAN tag type 0x9100, VID = 45
*       - From NNI port:
*            -   ethernet header with any DA 00:00:00:00:00:22, SA 00:00:00:00:00:11
*            -   VLAN tag: VLAN tag type 0x9100, VID = 45
*
*  2. PON Port 5 Tunnel-ID 1000 SVLAN 55 CVLAN 65  <-> VSI 4097 <-> NNI Port 129 SVLAN 55 CVLAN 65
*       - From PON port:
*            -   ethernet header with DA 00:00:00:00:00:33, SA 00:00:00:00:00:44
*            -   Tunnel ID:1000
*            -   VLAN tag: VLAN tag type 0x8100, VID = 55, VLAN tag type 0x9100, VID = 65
*       - From NNI port:
*            -   ethernet header with any DA 00:00:00:00:00:44, SA 00:00:00:00:00:33
*            -   VLAN tag: VLAN tag type 0x8100, VID = 55, VLAN tag type 0x9100, VID = 65
*
* 3 tag  manipulation Service:
*     PON Port 5  <---------------------------->  VSI  <---> NNI Port 129
*     Tunnel-ID 1000 SVLAN 100 CVLAN 10 ------- 4097 -----  SVLAN 200 CVLAN 20
*
* Traffic:
*  1. PON Port 5 Tunnel-ID 1000 SVLAN 100 CVLAN 10 <-> VSI 4097 <-> NNI Port 129 SVLAN 200 CVLAN
20
*       - From PON port:
*            -   ethernet header with DA 00:00:00:00:00:11, SA 00:00:00:00:00:22
*            -   Tunnel ID:1000
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100, VLAN tag type 0x9100, VID = 10
*       - From NNI port:
*            -   ethernet header with any DA 00:00:00:00:00:22, SA 00:00:00:00:00:11
*            -   VLAN tag: VLAN tag type 0x8100, VID = 200, VLAN tag type 0x9100, VID = 20

*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_pon_utils.c
*      BCM> cint examples/dpp/cint_pon_application.c
*      BCM> cint
*      cint> pon_service_init(unit, pon_port, nni_port);
*      cint> pon_1_1_service(unit);
*      cint> pon_n_1_service(unit);
*      cint> pon_tls_service(unit);
*      cint> pon_3tag_manipulation_service(unit);
*      cint> nni_double_lookup_service(unit);
*      cint> pon_1_1_service_cleanup(unit);
*      cint> pon_n_1_service_cleanup(unit);
*      cint> pon_tls_service_cleanup(unit);
```

```
*      cint> nni_double_lookup_service_cleanup(unit);
*      cint> pon_3tag_manipulation_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_application.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type26.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type26.h
* Purpose:     Define dma control block (DCB) format for a type26 DCB
*              used by the 56850 (Trident2)
*
*              This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type26.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5421S.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5421S.c
*
* Please see sdk/doc/combo-ports.txt for more information.
*
* The BCM5421S connects to virtually any MAC interface and dynamically
* supports both fiber and copper line interfaces.
*
* This driver allows the StrataSwitch to talk to the 5421S using either
* the GMII interface or TBI (Ten Bit Interface).  Upon initialization,
* one interface or the other is statically configured based on the
* if_tbi_portXX property.  The MDIO must be connected for either mode.
* The default is GMII and is recommended for both fiber and copper.
*
* When used with BCM5690, this driver switches to SGMII mode.  There is
* also a special check in phy5690.c to enable autonegotiation for
* SGMII.  WARNING: this configuration is not represented in any
* Broadcom SDK, so proper operation cannot be guaranteed.
```

```
*
* This driver allows the 5421S to use either the copper or fiber line
* interface.  If the phy_automedium property is true, the mode is
* selected dynamically on link up using the energy/signal detect.
* If both copper and fiber signals are detected, the driver will
* consult the configuration property phy_fiber_pref<_portXX>.  It will
* select fiber if the property is 1, and copper if it is 0.  The
* default value of the property is 1, since fiber is more likely to be
* preferred.
*
* If the phy_automedium property is false, then the mode is fixed
* according to the phy_fiber_pref<_portXX> property.
*
* This driver does not support autonegotiation with TBI+copper.
*
* If LINK_DOWN_RESET_WAR is 1, then the PHY will be reset each time
* link down is detected on copper.  BCM5421SA2 has difficulty obtaining
* link with certain other gigabit PHYs if not reset when link goes down
* (see errata).
*
* Fiber de-glitch: some GBICs may cause a brief fiber energy detect
* when inserted, even without a link.  This could cause the copper link
* to be dropped, so an energy detect de-glitch is provided.  The
* property phy_fiber_deglitch_usecs is the de-glitch time in usec.
*
* Autoneg defaults may be different for copper and fiber.  The routines
* phy_5421S_medium_config_set change the default port modes for a
* specific medium type.  The default port modes are installed as soon
* as possible after signal detect indicates a change of medium.  The
* standard PHY set/get routines operate only on the currently active
* medium.
*/
/*
   * Proprietary fix for unusual board/cabling arrangement.
   * Can compromise cable length performance if used unnecessarily.
   */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5421S.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon16_tsc_internal_error.c                          *
*  Created On    :  12/07/2015                                             *
*  Created By    :  Brent Roberts                                          *
*  Description   :  API functions for internal errors in for Serdes IPs    *
```

```
*  Revision     :   *
*                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*     Broadcom Corporation                                          *
*     5300 California Avenue                                        *
*     Irvine, CA  92617                                            *
*                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_internal_error.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_counter.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/negev/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
```

duplicated in any form, in whole or in part, without the prior written
permission of Broadcom Corporation.

```
*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: sysSerial.c,v 1.4 2008/04/03 22:35:40 bhsueh Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/sysSerial.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stack.h
* Purpose:     board stacking support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board_int/stack.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbG2EplibI.h Definitions, types and macros local to the elib
*
* <pre>
* ==================================================================
* ==  sbG2EplibI.h - Definitions, types and macros local to the eplib
* ==================================================================
*
* WORKING REVISION: $Id: sbG2EplibI.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibI.h
*
* ABSTRACT:
```

```
*
*     Definitions, types and macros local to the eplib
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Josh Weissman
*
* CREATION DATE:
*
*     30-March-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2EplibI.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_eg_filter.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: buser_sal.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/buser_sal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell_snake_test.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC CELL SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_cell_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/bfd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan2/mbcm.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56521sanity.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
```

```
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
```

```
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
```

```
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
```

```
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
```

```
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
```

```
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
```

```
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
```

```
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
```

```
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
```

```
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
```

```
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
```

```
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
```

```
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
```

```
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
```

```
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
```

```
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
```

```
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
```

```
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
```

```
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
```

```
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
```

```
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
```

```
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
```

```
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
```

```
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
```

```
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
```

```
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
```

```
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
```

```
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
```

```
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
```

```
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
```

```
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
```

```
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
```

```
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
```

```
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
```

```
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
```

```
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
```

```
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
```

```
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
```

```
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
```

```
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
```

```
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
```

```
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
```

```
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
```

```
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
```

```
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
```

```
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
```

```
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
```

```
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
```

```
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
```

```
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
```

```
echo " GPORT_EHG_RX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
```

```
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
```

```
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done
```

```
echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;
```

```
echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56521sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_end2end_scheduler.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_end2end_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon2_dino_internal.c                                *
*  Created On    :  13/02/2014                                             *
*  Created By    :  Justin Gaither                                         *
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :  $Id: falcon2_dino_internal.c 1346 2016-02-06 00:09:35Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_internal.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm88950_board.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#Board Properties
local asymmetrical_mode 1
```

```
#Polarity configuration required for Broadcom BCM88950 board
#RX polarity
config add phy_rx_polarity_flip.BCM88950=1

config add phy_rx_polarity_flip_fabric0.BCM88950=0
config add phy_rx_polarity_flip_fabric1.BCM88950=0
config add phy_rx_polarity_flip_fabric2.BCM88950=0
config add phy_rx_polarity_flip_fabric3.BCM88950=0
config add phy_rx_polarity_flip_fabric4.BCM88950=0
config add phy_rx_polarity_flip_fabric5.BCM88950=0
config add phy_rx_polarity_flip_fabric6.BCM88950=0
config add phy_rx_polarity_flip_fabric7.BCM88950=0
config add phy_rx_polarity_flip_fabric8.BCM88950=0
config add phy_rx_polarity_flip_fabric9.BCM88950=0
config add phy_rx_polarity_flip_fabric10.BCM88950=0
config add phy_rx_polarity_flip_fabric11.BCM88950=0

config add phy_rx_polarity_flip_fabric36.BCM88950=0
config add phy_rx_polarity_flip_fabric37.BCM88950=0
config add phy_rx_polarity_flip_fabric38.BCM88950=0
config add phy_rx_polarity_flip_fabric39.BCM88950=0
config add phy_rx_polarity_flip_fabric40.BCM88950=0
config add phy_rx_polarity_flip_fabric41.BCM88950=0
config add phy_rx_polarity_flip_fabric42.BCM88950=0
config add phy_rx_polarity_flip_fabric43.BCM88950=0
config add phy_rx_polarity_flip_fabric44.BCM88950=0
config add phy_rx_polarity_flip_fabric45.BCM88950=0
config add phy_rx_polarity_flip_fabric46.BCM88950=0
config add phy_rx_polarity_flip_fabric47.BCM88950=0

config add phy_rx_polarity_flip_fabric72.BCM88950=0
config add phy_rx_polarity_flip_fabric73.BCM88950=0
config add phy_rx_polarity_flip_fabric74.BCM88950=0
config add phy_rx_polarity_flip_fabric75.BCM88950=0
config add phy_rx_polarity_flip_fabric76.BCM88950=0
config add phy_rx_polarity_flip_fabric77.BCM88950=0
config add phy_rx_polarity_flip_fabric78.BCM88950=0
config add phy_rx_polarity_flip_fabric79.BCM88950=0
config add phy_rx_polarity_flip_fabric80.BCM88950=0
config add phy_rx_polarity_flip_fabric81.BCM88950=0
config add phy_rx_polarity_flip_fabric82.BCM88950=0
config add phy_rx_polarity_flip_fabric83.BCM88950=0

config add phy_rx_polarity_flip_fabric108.BCM88950=0
config add phy_rx_polarity_flip_fabric109.BCM88950=0
config add phy_rx_polarity_flip_fabric110.BCM88950=0
config add phy_rx_polarity_flip_fabric111.BCM88950=0
```

```
config add phy_rx_polarity_flip_fabric112.BCM88950=0
config add phy_rx_polarity_flip_fabric113.BCM88950=0
config add phy_rx_polarity_flip_fabric114.BCM88950=0
config add phy_rx_polarity_flip_fabric115.BCM88950=0
config add phy_rx_polarity_flip_fabric116.BCM88950=0
config add phy_rx_polarity_flip_fabric117.BCM88950=0
config add phy_rx_polarity_flip_fabric118.BCM88950=0
config add phy_rx_polarity_flip_fabric119.BCM88950=0

#TX polarity
config add phy_tx_polarity_flip.BCM88950=0

#lane swap
config add phy_tx_lane_map.BCM88950=0x3210
config add phy_tx_lane_map_quad3.BCM88950=0x1032
config add phy_tx_lane_map_quad4.BCM88950=0x1032
config add phy_tx_lane_map_quad5.BCM88950=0x2301
config add phy_tx_lane_map_quad6.BCM88950=0x1032
config add phy_tx_lane_map_quad7.BCM88950=0x1032
config add phy_tx_lane_map_quad8.BCM88950=0x1032
config add phy_tx_lane_map_quad12.BCM88950=0x1032
config add phy_tx_lane_map_quad13.BCM88950=0x1032
config add phy_tx_lane_map_quad14.BCM88950=0x2301
config add phy_tx_lane_map_quad15.BCM88950=0x1032
config add phy_tx_lane_map_quad16.BCM88950=0x1032
config add phy_tx_lane_map_quad17.BCM88950=0x1032
config add phy_tx_lane_map_quad18.BCM88950=0x1032
config add phy_tx_lane_map_quad19.BCM88950=0x1032
config add phy_tx_lane_map_quad20.BCM88950=0x1032
config add phy_tx_lane_map_quad23.BCM88950=0x0321
if $asymmetrical_mode "\
  config add phy_tx_lane_map_quad26.BCM88950=0x1032" \
else "\
  config add phy_tx_lane_map_quad26.BCM88950=0x2031"

config add phy_tx_lane_map_quad27.BCM88950=0x1032
config add phy_tx_lane_map_quad28.BCM88950=0x1032
config add phy_tx_lane_map_quad29.BCM88950=0x1032
config add phy_tx_lane_map_quad32.BCM88950=0x0123
config add phy_tx_lane_map_quad35.BCM88950=0x1032
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88950_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCBSEntryConsole.c,v 1.3 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPoliceCBSEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_diag.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_diag.h
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#

# run g3p1 ucode
diag_emulator_partial_init=0
#lrp_bypass=2
load_firmware=0x1
pr_line_buffer_profile=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# ucode port definition
ucode_num_ports.0=7

# 40G port on WC1
#ucode_port.port1.0=clport0.xe.0.0-1/0/192/1:clport1.hg126.0.1-1/68/132/1
#ucode_port.port2.0=clport0.xe.0.1-1/1/193/1:clport1.hg126.0.2-1/69/133/1
#ucode_port.port3.0=clport0.xe.0.2-1/2/194/1:clport1.hg126.0.3-1/70/134/1
#ucode_port.port4.0=clport0.xe.0.3-1/3/195/1:clport1.hg126.0.4-1/71/135/1
#ucode_port.port5.0=clport0.xle.1.0-1/4/196/1:clport1.hg126.0.0-1/72/136/1
#ucode_port.port9.0=clport0.xe.1.0-1/8/200/1:clport1.hg126.0.5-1/76/140/1
#ucode_port.port10.0=clport0.xe.1.1-1/9/201/1:clport1.hg126.0.6-1/77/141/1
#tx_fifo_size_tdm38_0=32
```

```
#line_port_calendar=0,1,4,2,3,4,8,9,4,10,11,4,48,0,1,4,2,3,4,8,9,4,10,11,4,49,0,1,4,2,3,4,8,9,4,10,11,4,50,
#xgxs_rx_lane_map_xe0=0x1230
#xgxs_rx_lane_map_xe4=0x1032
#xgxs_rx_lane_map_xe8=0x1230
#xgxs_tx_lane_map_xe0=0x1032
#xgxs_tx_lane_map_xe4=0x3210
#xgxs_tx_lane_map_xe8=0x1032
#phy_xaui_rx_polarity_flip_xe0=0x0001
#phy_xaui_rx_polarity_flip_xe1=0x0000
#phy_xaui_rx_polarity_flip_xe2=0x0000
#phy_xaui_rx_polarity_flip_xe3=0x0001
#phy_xaui_rx_polarity_flip_xe4=0x000f
#phy_xaui_rx_polarity_flip_xe8=0x0001
#phy_xaui_rx_polarity_flip_xe9=0x0001
#phy_xaui_rx_polarity_flip_xe10=0x0000
#phy_xaui_rx_polarity_flip_xe11=0x0001
#phy_xaui_tx_polarity_flip_xe0=0x0001
#phy_xaui_tx_polarity_flip_xe1=0x0001
#phy_xaui_tx_polarity_flip_xe2=0x0000
#phy_xaui_tx_polarity_flip_xe3=0x0000
#phy_xaui_tx_polarity_flip_xe4=0x000f
#phy_xaui_tx_polarity_flip_xe8=0x0000
#phy_xaui_tx_polarity_flip_xe9=0x0000
#phy_xaui_tx_polarity_flip_xe10=0x0001
#phy_xaui_tx_polarity_flip_xe11=0x0001

# 40G port on WC2
ucode_port.port1.0=clport0.xe.0.0-1/0/192/1:clport1.hg126.0.1-1/64/128/1
ucode_port.port2.0=clport0.xe.0.1-1/1/193/1:clport1.hg126.0.2-1/65/129/1
ucode_port.port3.0=clport0.xe.0.2-1/2/194/1:clport1.hg126.0.3-1/66/130/1
ucode_port.port4.0=clport0.xe.0.3-1/3/195/1:clport1.hg126.0.4-1/67/131/1
ucode_port.port5.0=clport0.xe.1.0-1/4/196/1:clport1.hg126.0.5-1/68/132/1
ucode_port.port6.0=clport0.xe.1.1-1/5/197/1:clport1.hg126.0.6-1/69/133/1
ucode_port.port7.0=clport0.xle.2.0-1/8/200/1:clport1.hg126.0.0-1/72/136/1
#tx_fifo_size_tdm42_8=32
# Only part of the following long line is taken.
line_port_calendar=0,1,8,2,3,8,4,5,8,6,7,8,48,0,1,8,2,3,8,4,5,8,6,7,8,0,1,8,2,3,8,4,5,8,6,7,8,49,0,1,8,2,3,8,4,5,8,6,7,8,
50
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe6=0x1230
xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe6=0x1032
phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
```

```
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x000b
phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x000c


#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

higig2_hdr_mode_hg0=1

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999

ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-6x10g_1x40g-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: mem.c,v 1.69 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Memory (Table) Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mem.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_pb_pp_acc.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_pb_pp_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_vtt.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_vtt.c
No license file was found, but licenses were detected in source scan.

```
/*
* NVRAM variable manipulation
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmnvram.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bcmnvram.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bcmnvram.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy56xxx5601x.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy56xxx5601x.h
* Purpose:    BCM56xxx (FB/ER) Internal Dodeca Serdes PHY Driver
*             with shadow registers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy56xxx5601x.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       greyhound2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/greyhound2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.126 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register address and value manipulations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/reg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_protection.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_protection.c
```

```
* Purpose: Example of mpls protection.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_protection.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_alias.i
* Purpose:    Register aliases.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_alias.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/dcbformats.h
* Purpose:    Define dma control block (DCB) formats for various chips.
*             This information is only needed in soc/dcb.c, which
*             provides a uniform interface to the reset of software
*             for controlling DCBs.
*
* There are currently 17 DMA Control block formats
* (also known as DMA descriptors):
*
*     Type 2        5670/75 (TX)
*     Type 3        5690 aka DRACO1
*     Type 4        5670/75 (RX) aka HERCULES
*     Type 5        5673 aka LYNX
*     Type 6        5665 aka TUCANA
*     Type 7        5695 aka DRACO15
*     Type 9        56504 aka XGS3 (Firebolt)
*     Type 10        56601 aka XGS3 (Easyrider)
```

```
*     Type 11        56800 aka XGS3 (HUMV)
*     Type 12        56218 aka XGS3 (Raptor) (Derived from DCB 9)
*     Type 13        56514 aka XGS3 (Firebolt2) (Derived from DCB 9)
*     Type 14        56624 & 56680 aka XGS3 (Triumph & Valkyrie)
*     Type 15        56224 aka XGS3 (Raven A0) (Derived from DCB 12)
*     Type 16        56820 aka XGS3 (Scorpion)
*     Type 17        53314 aka XGS3 (Hawkeye) (Derived from DCB 15)
*     Type 18        56224 aka XGS3 (Raven B0) (Derived from DCB 15)
*     Type 19        56634/56524/56685 aka XGS3 (Triumph2/Apollo/Valkyrie2)
*     Type 20        56334 aka XGS3 (Enduro) (Derived from DCB 19)
*     Type 21        56840 aka XGS3 (Trident)
*     Type 22        88732 (SHADOW)
*     Type 23        56640 aka XGS3 (Triumph3)
*     Type 24        56440 aka XGS3 (Katana)
*     Type 25        88030 aka Caladan3
*     Type 26        56850 aka XGS3 (Trident2) (Derived from DCB 23)
*     Type 27        88230 aka Sirius
*     Type 29        56450 aka XGX3 (Katana2)
*     Type 31        53400 aka XGX3 (Greyhound)
*     Type 32        56960 aka XGX3 (Tomahawk) (Derived from DCB 26)
*     Type 33        56860 aka XGS3 (Trident2+) (Derived from DCB 26)
*     Type 34        56160 aka XGX3 (Hurricane3)
*     Type 35        56560 APACHE
*     Type 37        53570 aka XGX3 (Greyhound2)
*
* The 5670/75 uses two different formats depending on whether the DCB is
* for transmit or receive.
*
* The 5695 can be configured to use type 3 or type 7 depending on whether
* CMIC_CONFIG.EXTENDED_DCB_ENABLE is set or not.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcbformats.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fe600_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fe600_api.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
```

```
*****************************************************************************************
*                                                                                       *
*  Revision      :  *
*                                                                                       *
*  Description   :  Defines and Enumerations required by Merlin16 APIs                 *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTtlRangeConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTtlRangeConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     Port function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/port.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_ipv6_extension_header.c
* Purpose: Example of how to use IPv6 extension header as qualifier in FP.
*
* In order to enable processing of IPv6 extension headers, it is necessary
* to set a soc property to indicate it. The reason for not enabling it by
* default is that the parser has a limited number of resources (macros) and
* it cannot be configured to parse all types of packets within the same
* configuration. It is the user's choice which types of packets to enable.
*
* CINT Usage:
*
*  1. Set soc property:
*     bcm886xx_ipv6_ext_hdr_enable=1
*
*  2. Run:
*     cint cint_field_ipv6_extension_header.c
*     cint
*     field_ipv6_extension_header_example(int unit);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_ipv6_extension_header.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tigon3.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/tigon3.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
```

```
# Example configuration file for C3 SBX 4x10g_3xhg10_2x1g-ilkn50
# $Id: Broadcom SDK $
# Note A-C

pci_override_dev=0x34

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# Use the common mode baseline TDM for this specific TDM instance
bcm88030_config.0=44

#
# ucode ports definition
#
ucode_num_port_override.0=1
ucode_num_ports.0=31


# ====================================================
# WC 0
# ====================================================
# Lane 0 (not being used in this use-case; phantom for proper initilization of WC)
#
ucode_port.port1.0=clport0.xe.0.0:il1.il50n.0.0


# Lane 1
# (uses 8 Qs)
ucode_port.port2.0=clport0.hg10.0.1-1:il1.il50n.0.1
ucode_port.port3.0=clport0.hg10.0.1-1:il1.il50n.0.2
ucode_port.port4.0=clport0.hg10.0.1-1:il1.il50n.0.3
ucode_port.port5.0=clport0.hg10.0.1-1:il1.il50n.0.4
ucode_port.port6.0=clport0.hg10.0.1-1:il1.il50n.0.5
ucode_port.port7.0=clport0.hg10.0.1-1:il1.il50n.0.6
ucode_port.port8.0=clport0.hg10.0.1-1:il1.il50n.0.7
ucode_port.port9.0=clport0.hg10.0.1-1:il1.il50n.0.8

# Lane 2
#
ucode_port.port10.0=clport0.ge.0.2:il1.il50n.0.9

# Lane 3
#
ucode_port.port11.0=clport0.ge.0.3:il1.il50n.0.10
```

```
# ====================================================
# WC 1
# ====================================================
# Lane 0, 1
ucode_port.port12.0=clport0.xe.1.0:il1.il50n.0.11
ucode_port.port13.0=clport0.xe.1.1:il1.il50n.0.12

# Lane 2

# Lane 3


# ====================================================
# WC 2
# ====================================================
# Lane 0
ucode_port.port14.0=clport0.hg10.2.0-1:il1.il50n.0.13
ucode_port.port15.0=clport0.hg10.2.0-1:il1.il50n.0.14
ucode_port.port16.0=clport0.hg10.2.0-1:il1.il50n.0.15
ucode_port.port17.0=clport0.hg10.2.0-1:il1.il50n.0.16
ucode_port.port18.0=clport0.hg10.2.0-1:il1.il50n.0.17
ucode_port.port19.0=clport0.hg10.2.0-1:il1.il50n.0.18
ucode_port.port20.0=clport0.hg10.2.0-1:il1.il50n.0.19
ucode_port.port21.0=clport0.hg10.2.0-1:il1.il50n.0.20
ucode_port.port22.0=clport0.hg10.2.0-1:il1.il50n.0.21
ucode_port.port23.0=clport0.hg10.2.0-1:il1.il50n.0.22

# Lane 1
ucode_port.port22.0=clport0.hg10.2.1-1:il1.il50n.0.21
ucode_port.port23.0=clport0.hg10.2.1-1:il1.il50n.0.22
ucode_port.port24.0=clport0.hg10.2.1-1:il1.il50n.0.23
ucode_port.port25.0=clport0.hg10.2.1-1:il1.il50n.0.24
ucode_port.port26.0=clport0.hg10.2.1-1:il1.il50n.0.25
ucode_port.port27.0=clport0.hg10.2.1-1:il1.il50n.0.26
ucode_port.port28.0=clport0.hg10.2.1-1:il1.il50n.0.27
ucode_port.port29.0=clport0.hg10.2.1-1:il1.il50n.0.28

# Lane 2
ucode_port.port30.0=clport0.xe.2.2:il1.il50n.0.29

# Lane 3
ucode_port.port31.0=clport0.xe.2.3:il1.il50n.0.30



#=========================================================================
```

```
# Required so phy comes up in SGMII and NOT QSGMII
serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2



diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032

xgxs_rx_lane_map_hg8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210

xgxs_tx_lane_map_hg8=0x1032


phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001

phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001


phy_fiber_pref_ge=1
phy_automedium_ge=1


#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
#XXXTBD
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312
```

```
higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg8=1


# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0


# System .21
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x95959797,0x99999797
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10.0=0x00a1a3a0,0x009ea19b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci10.0=0x99999292,0x98989494
ddr3_tune_rd_en_ci2.0=0x009b9b9c,0x009fa19d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000ae
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
```

ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a999b,0x00979a95
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x92929898,0x97979393
ddr3_tune_rd_dqs_ci0.0=0x91919696,0x96969797
ddr3_tune_rd_en_ci4.0=0x00999999,0x00959694
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_vref_ci14.0=0x0000075d
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989899,0x009a9e97
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci14.0=0x95959999,0x99999292
ddr3_tune_rd_dqs_ci2.0=0x91919797,0x96969696
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000ae
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_wl0_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484

ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci4.0=0x97979191,0x97979898
ddr3_tune_rd_en_ci8.0=0x00959596,0x009a9c98
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x90909393,0x99999898
ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x009d9d9e,0x009a9c98
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x91919191,0x91919191
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-4x10g_3xhg10_2x1g-1xilkn50.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_ingress_traffic_mgmt.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

*
* File:	eth_lm_dm_sdk_pack.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/eth_lm_dm_sdk_pack.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_skt.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_skt.h
No license file was found, but licenses were detected in source scan.

/* $Id: SOCDNX_general.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/utils.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkXstpApi.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	TkXstpApi.c
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkXstpApi.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: visibility.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/diag/esw/visibility.c
No license file was found, but licenses were detected in source scan.

#$Id: Sathish Krishnamachari$
#$Copyright: (c) 2014 Broadcom Corporation.
#All Rights Reserved.$
#
#File: trall_bcm56867_a0.soc
#Purpose: Tests all memories on BCM56867.
#    tr50 - Memory Fill/Verify
#    tr51 - Memory Random Addr/Data
#    tr52 - Rand Mem Addr, write all
#    tr71 - Table DMA

echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;         $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                      $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                      $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                         $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                       $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                        $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                  $name; $tr50; $tr51; $tr52;

local mem MPLS_ENTRY;                         $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                   $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                       $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                        $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                        $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                   $name; $tr50; $tr51; $tr52;
```

```
local mem CPU_PBM;                                  $name; $tr50;
local mem CPU_PBM_2;                                $name; $tr50;
local mem CPU_TS_MAP;                               $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;        $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                         $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;          $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;        $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;        $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                       $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                       $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                 $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                 $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                  $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;              $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;              $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;           $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;             $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                               $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                           $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                         $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                      $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                      $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                        $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                        $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                              $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                      $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                          $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                  $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                         $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_DSCP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;               $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                 $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                  $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                        $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;              $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_FCOE_CONTROL_1;         $name; $tr50;
#N/A - local mem EGR_FC_HEADER_TYPE;         $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;     $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;     $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;     $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;     $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;       $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;       $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;       $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;       $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;             $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;              $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;             $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;           $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;           $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;        $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                  $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                      $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                          $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                     $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                     $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                       $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                   $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                 $name; $tr50; $tr51; $tr52;
local mem EGR_LPORT_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;             $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_MAP_MH;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                             $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                         $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                            $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                         $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;             $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                                      $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_NAT_PACKET_EDIT_INFO;              $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                               $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                          $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                  $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                        $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                      $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                      $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                 $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                              $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                        $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                              $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                         $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;                       $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                       $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr50;
#local mem EGR_SER_FIFO;                                $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                          $name; $tr50; $tr51; $tr52;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_TRILL_PARSE_CONTROL;               $name; $tr50;
#N/A - local mem EGR_TRILL_PARSE_CONTROL_2;             $name; $tr50;
#N/A - local mem EGR_TRILL_RBRIDGE_NICKNAMES;           $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_TRILL_TREE_PROFILE;                $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                                      $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_VFT_FIELDS_PROFILE;                $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_VFT_PRI_MAP;                       $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                           $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                           $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_VLAN_CONTROL_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#N/A - local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                    $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                    $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;            $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;            $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;            $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                            $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#N/A - local mem FCOE_HOP_COUNT_FN;                    $name; $tr50; $tr51; $tr52;
#N/A - local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                    $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                    $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                    $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr50;
local mem FP_SLICE_MAP;                    $name; $tr50;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                    $name; $tr50;
local mem IARB_ING_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem IARB_MAIN_TDM_X;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;             $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                        $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;            $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                     $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                       $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;              $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;          $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;               $name; $tr50;
#N/A - local mem ING_DNAT_ADDRESS_TYPE;       $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                     $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;              $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;               $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_FC_HEADER_TYPE;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;        $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;        $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;               $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                   $name; $tr50;
local mem ING_L3_NEXT_HOP;                                $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                           $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                                $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                            $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                          $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                          $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                     $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                                $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                                $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT;                                $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT_DATA_ONLY;                      $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT_HIT_ONLY;                       $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT_HIT_ONLY_X;                     $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT_HIT_ONLY_Y;                     $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_SNAT_ONLY;                           $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_TRILL_PARSE_CONTROL;                 $name; $tr50;
#N/A - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;         $name; $tr50;
local mem ING_UNTAGGED_PHB;                               $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_VFT_PRI_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                                 $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                        $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                         $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                 $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                 $name; $tr50; $tr51; $tr52;
#N/A - local mem ING_VSAN;                                $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                        $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                                $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                          $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                       $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                              $name; $tr50; $tr51; $tr52;
```

```
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                    $name; $tr50;
local mem L2_BULK_MATCH_MASK;                    $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr50;
local mem L2_ENDPOINT_ID;                    $name; $tr50; $tr51; $tr52;
local mem L2X;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr50;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                     $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;                   $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;                   $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                         $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                     $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;           $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;            $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;          $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;          $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;                $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                               $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                         $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                     $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                   $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                   $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;               $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                 $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;               $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                 $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                           $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                         $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                     $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                                $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                        $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                               $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                             $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                         $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                         $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                             $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                   $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;          $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;        $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;     $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                             $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                             $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                        $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                         $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                         $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;              $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;              $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                          $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                         $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData13;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData57;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                         $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                     $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CFAP_BANK20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;               $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;           $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
```

```
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr50;
#local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                    $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem RH_ECMP_DROPS;                                    $name; $tr50;
local mem RH_ECMP_DROPS_X;                                  $name; $tr50;
local mem RH_ECMP_DROPS_Y;                                  $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                                  $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                                     $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                                     $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                                     $name; $tr50;
local mem RH_LAG_DROPS_X;                                   $name; $tr50;
local mem RH_LAG_DROPS_Y;                                   $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                                   $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                                      $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                                  $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                                        $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                                       $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                                     $name; $tr50;
local mem SER_RESULT_1;                                     $name; $tr50;
local mem SER_RESULT_DATA_0;                                        $name; $tr50;
local mem SER_RESULT_DATA_1;                                        $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                                    $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                                     $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                                           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                                           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                                         $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                                        $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                                      $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                                 $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                                          $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;                                        $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                                      $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                                      $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                                           $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                                         $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                    $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                    $name; $tr50;
local mem TRILL_DROP_STATS_X;                    $name; $tr50;
local mem TRILL_DROP_STATS_Y;                    $name; $tr50;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                    $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_TAB;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                               $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                          $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                           $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                      $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                                 $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                             $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                   $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                              $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                          $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                           $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                             $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                             $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                            $name; $tr50; $tr51; $tr52;
local mem VRF;                                     $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                   $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                             $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;              $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                            $name; $tr50; $tr51; $tr52;
#local mem LMEP;                                   $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                                $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;                         $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                               $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                               $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                        $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;             $name; $tr50; $tr51; $tr52;
#local mem RMEP;                                   $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                   $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                 $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                 $name; $tr50; $tr51; $tr52;
```

```
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                  $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                   $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                 $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_FCOE_CONTROL_1;                $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_FC_HEADER_TYPE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_LPORT_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#N/A - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#N/A - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#N/A -local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem FCOE_HOP_COUNT_FN;                       $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem FC_MAP_PROFILE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GM_FIELDS;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem FP_TCAM; $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE; $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_DNAT_ADDRESS_TYPE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_FC_HEADER_TYPE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem ING_SER_FIFO_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
#N/A - local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#N/A - local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
```

```
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                         $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';           $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';      $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';          $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';        $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';       $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';      $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';     $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';           $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData22;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData66;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;                           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VFP_TCAM;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                   $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-------------------------------------------------------------------
#local mem EDB_1DBG_B;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem OAM_OPCODE_CONTROL_PROFILE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                                  $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                                  $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56867_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_dino_field_access.c                                  *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs to access Serdes IP Registers and Reg fields           *
*  Revision      :  $Id: merlin_dino_field_access.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without           *
*  the written permission of:                                                   *
*     Broadcom Corporation                                                      *
*     5300 California Avenue                                                    *
*     Irvine, CA  92617                                                         *
*                                                                               *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
```

```
*****************************************************************************************/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_field_access.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer_ingress_traffic_mgmt.c,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/JER/jer_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_sim.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/dpp/UserInterface/ui_sim.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_egr_queuing.c,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/ARAD/arad_egr_queuing.c
No license file was found, but licenses were detected in source scan.

/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon16_tsc_config.c                                    *
*  Created On    :  03 Nov 2015                                              *
*  Created By    :  Brent Roberts                                            *
*  Description   :  APIs for Serdes IPs                                      *
*  Revision      :   *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                          *
*  No portions of this material may be reproduced in any form without          *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                        *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: maxdef.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       maxdef.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/maxdef.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom StrataSwitch Mirror API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/mirror.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipmc_bidir.c,v 1.0 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_ipmc_bidir.c
* Purpose: Example shows how to configure IP multicast BIDIR.
*
```

```
* Soc-Property:
*    - ipmc_pim_mode: MC routing mode (bitmap).
*          - value: has to include 0x2:PIM-BIDIR, i.e. bit(1) has to be set.
*    - ipmc_pim_bidir_check_db: to select DB to perform mapping from group to as RPID
*          - values:
*              - 0: Exact-match
*              - 1: TCAM for ranges (not supported yet)
*              - 2: both (not supported yet)
*
* Example configuration:
*  - create two RP-IDs (rpid1, rpid2)
*  - create two ingress intf (vlan1, vlan2)
*  - define admission rules
*      - vlan1 with rpid1
*      - vlan2 with rpid2
*  - create VRF
*  - map two interfaces to VRF
*  - open 4 MC-groups (to be used as forwarding destination)
*  - handle 3 MC groups
*     - G0=224.224.224.0 mapped to RPID-1, and MC-group-0
*     - G1=224.224.224.1 mapped to RPID-2, and MC-group-1
*     - G2=224.224.224.2 not mapped to RPID, means treated as PIM MC, forwarded to MC-group-2
*
* packet and tests:
*  - G0 from intf1 ==> forwarded to MC-group0.
*  - G0 from intf2 ==> filtered due to admission test.
*  - G1 from intf1 ==> filtered due to admission test.
*  - G1 from intf2 ==> forwarded to MC-group1
*  - G2 from intf1 ==> forwarded to MC-group2 (not BIDIR traffic)
*  - G2 from intf2 ==> forwarded to MC-group3 (not BIDIR traffic)
* how to run:
cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
cint ../../../../src/examples/dpp/cint_ip_route.c
cint ../../../../src/examples/dpp/cint_ipmc_example.c
cint ../../../../src/examples/dpp/cint_mact.c
cint ../../../../src/examples/dpp/cint_ipmc_bidir.c
cint ../../../../src/examples/dpp/cint_field_ipmc_bidir.c
cint
ipv4_mc_bidir_example(unit,13,14);
```

Remarks:
ARAD:
- cint_field_ipmc_bidir: used to drop packet that fail admission test.
- admission test take place in LEM.
- mapping to RP-ID take place in SEM/TCAM

API usage:

- bcm_ipmc_add has to usages depends on data.rp_id,

1. if rp_id != BCM_IPMC_RP_ID_INVALID, BIDIR usage, and then API add into two DBs
    a. RP identification i.e. mapping <VRF,G> to RP-ID in SEM
    b. forwarding i.e. mapping <VRF,G> to Group" in LEM
  same call to bcm_ipmc_add does both insertion

2. otherwise (rp_id = BCM_IPMC_RP_ID_INVALID) PIM usage (non-BIDIR DB), and then used to add entry to forwarding DB according to <RIF,SIP,G>
- for remove/get if data.rp_id != BCM_IPMC_RP_ID_INVALID then BIDIR DBs are considered.
 otherwise PIM DB is considered

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipmc_bidir.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: alloc_mngr.h,v 1.119 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: alloc_mngr.h
* Purpose: Resource allocation manager for DNX_SAND chips.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/alloc_mngr.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_cnt.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_cnt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_fe1600_fabric_status.h,v 1.3 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC STATUS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_status.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: AlarmProcess.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     AlarmProcess.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/AlarmProcess.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains port module definitions internal to
* the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x/stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: aidmp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific Receive Data Header for the
* Broadcom Home Networking Division
```

```
* BCM44XX and BCM47XX 10/100 Mbps Ethernet cores.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmenetrxh.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FIFO DMA H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fifo_dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbBm3200MemAccess.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbBm3200MemAccess.c
* Purpose:    sbx commands to read/write BM3200 indirect mems
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbBm3200MemAccess.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ledproc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ledproc.h
* Purpose:    Application interface for LED processor
* Requires:
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/ledproc.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_tx_analog_functions.c                                  *
*  Created On    :  29/04/2013                                                    *
*  Created By    :  Kiran Divakar                                                 *
*  Description   :  Functions to Configure Merlin TXFIR                           *
*  Revision      :  $Id: merlin_tx_analog_functions.c 775 2014-11-11 04:37:38Z kirand $ *
*                                                                                 *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without             *
*  the written permission of:                                                     *
*      Broadcom Corporation                                                       *
*      5300 California Avenue                                                     *
*      Irvine, CA  92617                                                          *
*                                                                                 *
*  All information contained in this document is Broadcom Corporation             *
*  company private proprietary, and trade secret.                                 *
*                                                                                 *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_tx_analog_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ct_tun.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ct_tun.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/ct_tun.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* list.h : LRP List manager
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/list.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etu.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    etu.c
* Purpose: Caladan3 External TCAM driver
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/etu/etu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/group_member_list.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/group_member_list.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_ddr23.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_ddr.c
* Purpose:     Sirius ddr functions
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sirius_ddr23.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_multicast_fabric.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_route_over_ac.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*****************************************************************************************************
*****************************************************
*
*
* Network diagram
*
*
*                    -------------------------------------
*                   |                              |
*                   |                              |
*                   |             ROUTER             |
*                   |                              |
*                   |  ---------            ------    |
*                   | |  VSIx   |          | VSIy |    |
*                   |  ---------            ------    |
*                   |   |    |              |       |
*                   |   | RIF1|            RIF2|       |
*                   |____|_____|_____________________|________|
*                       |    |              |
*                       |    |              |
*                    host1    host2           host3
*                   <10,100>  <20>           <30,300>
*
*                   <x,y> - x is outer vlan
*                         y is inner vlan
*
```

```
* Default values:
* VLAN values are in diagramm
* Host1   -   MAC: 00:00:11:11:11:11
*            IP:  11.11.11.11
* Host2   -   MAC: 00:00:22:22:22:22
*            IP:  22.22.22.22
* Host3   -   MAC: 00:00:33:33:33:33
*            IP:  33.33.33.33
* PORT1(RIF1) - MAC: 00:11:00:00:01:11
* PORT2(RIF2) - MAC: 00:11:00:00:02:22
*
* run:
* cd   ../../../../src/examples/dpp
* cint utility/cint_utils_global.c
* cint utility/cint_utils_port.c
* cint utility/cint_utils_l2.c
* cint utility/cint_utils_l3.c
* cint utility/cint_utils_vlan.c
* cint cint_port_tpid.c
* cint_route_over_ac.c
* cint
* route_over_ac_with_ports__start_run(unit,port1,port2);
*
* All default values could be re-written with initialization of the global structure 'g_route_over_ac', before calliing
the main  function
* In order to re-write only part of values, call 'route_over_ac_struct_get(route_over_ac_s)' function and re-write
values,
* prior calling the main function
*
* ##############    Scenario #1    #######################
*
*  Traffic from Host3 to Host1
*  Testing routing over ac between two AC's that belong to different VSI's
*
*    Send:
*             ----------------------------------------------
*        eth: |    DA     |     SA      |   VLAN-O | VLAN-I |
*             ----------------------------------------------
*            |  RIF2_mac | host3_mac   |    30    |  300   |
*             ----------------------------------------------
*
*                 ------------------------
*            ip: |   SIP     | DIP       |
*                 ------------------------
*                | host3_ip  |  host1_ip |
*                 ------------------------
*    Receive:
*             ----------------------------------------------
```

```
*       eth: |    DA     |     SA      |   VLAN-O | VLAN-I |
*            ---------------------------------------------
*           | host1_mac |  RIF1_mac   |    10    |  100   |
*            ---------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host3_ip  |  host1_ip |
*               -----------------------
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_route_over_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_filter.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based calendar postprocessing filters
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_basic.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_basic.c
* Purpose: This file contains the implementation to collect
*          basic config/setup information from switch.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/basic/techsupport_basic.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_tsc_field_access.c                                  *
*  Created On    :  29/04/2013                                                *
*  Created By    :  Kiran Divakar                                             *
*  Description   :  APIs to access Serdes IP Registers and Reg fields         *
*  Revision      :  $Id: eagle_tsc_field_access.c 1123 2015-09-03 22:36:34Z eroes $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_field_access_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPolicePortQMapEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPolicePortQMapEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_link.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       dnx_sand_link.c
*
* MODULE PREFIX:  dnx_sand_link
*
```

```
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_mpls_term.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_mpls_term.h
*
* MODULE PREFIX:  soc_ppd_mpls
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_mpls_term.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_route_over_extender.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*****************************************************************************************
*****************************************************
*
```

```
*
* Network diagram
*
*
*                    -------------------------------------
*                   |                            |
*                   |                            |
*                   |            ROUTER              |
*                   |                            |
*                   |  ---------            ------     |
*                   | |  VSIx   |           | VSIy |    |
*                   |  ---------            ------     |
*                   |    |                  |       |
*                   |    | RIF1             RIF2|       |
*                   |____|__________________________|________|
*                        |                  |
*                        |                  |
*                    host1                  host2 - extender port
*                   <10,100>                <ecid = 203, vlan = 30>
*
*                   <x,y> - x is outer vlan
*                         y is inner vlan
*
* Default values:
* VLAN values are in diagramm
* Host1   -   MAC: 00:00:11:11:11:11
*           IP:  11.11.11.11
* Host2   -   MAC: 00:00:33:33:33:33
*           IP:  33.33.33.33
* PORT1(RIF1) - MAC: 00:11:00:00:01:11
* PORT2(RIF2) - MAC: 00:11:00:00:02:22
*
* run:
* cd   ../../../../src/examples/dpp
* cint utility/cint_utils_global.c
* cint utility/cint_utils_port.c
* cint utility/cint_utils_l2.c
* cint utility/cint_utils_l3.c
* cint utility/cint_utils_vlan.c
* cint cint_port_tpid.c
* cint_route_over_extender.c
* cint
* route_over_extender_with_ports__start_run(unit,port1,port2);
*
* All default values could be re-written with initialization of the global structure 'g_route_over_extender', before
calling the main  function
* In order to re-write only part of values, call 'route_over_extender_struct_get(route_over_extender_s)' function and
re-write values,
```

```
* prior calling the main function
*
* Testing routing between AC and extender ports that belong to different VSI's:
*
* ##############    Scenario #1    #######################
*
*  Traffic from Host2 (extender) to Host1
*
*    Send:
*            ---------------------------------------------
*       eth: |    DA     |     SA      |   ECID |   VLAN  |
*            ---------------------------------------------
*           |  RIF2_mac | host2_mac   |    203 |    30   |
*            ---------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host2_ip  |  host1_ip |
*               -----------------------
*    Receive:
*            ---------------------------------------------
*       eth: |    DA     |     SA      |   VLAN-O | VLAN-I |
*            ---------------------------------------------
*           | host1_mac |  RIF1_mac   |    10    |  100   |
*            ---------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host2_ip  |  host1_ip |
*               -----------------------
*
* ##############    Scenario #2    #######################
*
*  Traffic from Host1 to Host2 (extender)
*
*    Send:
*            ---------------------------------------------
*       eth: |    DA     |     SA      |   VLAN-O | VLAN-I |
*            ---------------------------------------------
*           | RIF1_mac |  host1_mac   |    10    |  100   |
*            ---------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host1_ip  |  host2_ip |
```

```
*                ------------------------
*    Receive:
*            --------------------------------------------
*       eth: |    DA     |     SA      |  ECID  |  VLAN  |
*            --------------------------------------------
*            | host2_mac |  RIF2_mac   |   203  |  30    |
*            --------------------------------------------
*
*                ------------------------
*            ip: |   SIP     | DIP       |
*                ------------------------
*                | host1_ip  |  host2_ip |
*                ------------------------
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_route_over_extender.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: thread.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  thread.c
* Purpose: Defines SAL routines for VxWorks threads
*
* Thread Abstraction
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/thread.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_global.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_global.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mim.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MIM CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/mim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_ppd_api.h,v 1.51 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_ppd_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wc40_ucode.c,v 1.22 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    niv.c
* Purpose: Implements bcm_niv_forward_* APIs for Triumph3.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/triumph3/niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: max664x.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM I2C Device Driver for MAXIM 664x
* The MAX664x (max6646/7/9)is a temperature sensor with an I2C bus interface. The host can query
* the MAX664x at any time to read the temperature. For more information,
* see MAX664x data sheet.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/max664x.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_reg_access.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport_mgmt.c,v 1.247 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The GPORT Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/gport_mgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/gport_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trunk.h
* Purpose:     Trunk internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/trunk.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains internal definitions for switch module to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/switch.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon_furia_internal.c                                *
*  Created On    :  13/02/2014                                             *
*  Created By    :  Justin Gaither                                         *
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :  $Id: falcon_furia_internal.c 865 2015-01-22 16:43:59Z jgaither $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_internal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l2.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: L2 APIs
*
* Purpose:
*     L2 API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_l2.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56643sanity.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56643 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x3fffffffffffe
local pbmxe 0x3c000000000000
local pbmhg 0x3c0000000000000
local pbmport 0x3fffffffffffffe
```

```
# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
```

```
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

tr3_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

ps

#MAC Loopback
```

```
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 42 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=42G
$done


#echo "Testing PHY Loopback - 1 Gb/s all GE ports"
#tr 19 PortBitMap=$pbmge Speed=1000
#$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 42 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg Speed=42G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done


#echo "Running PHY loopback V2 on all ports ..."
#tr 49 pbm=$pbmport
#$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done


#echo "Running internal snake on GE ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
#$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done
```

```
echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done


#echo "Running Traffic Test on GE ports in PHY mode ..."
#tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
#$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=42G
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=42G
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56643sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon2_dino_dependencies.h 1139 2015-09-17 23:39:05Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
```

```
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       td2_td2p.h
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/td2_td2p.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: probe.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       probe.c
* Purpose:     Board Probe functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/probe.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: t3p1_cmu_sim.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cmu_sim.c: Guadalupe2k V1.3 CMU sim
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_cmu_sim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: starfighter_service.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/starfighter3_service.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/starfighter_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_drv_flash28f.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/bsp_drv_flash28f.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPTConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88690_a0.c
* Purpose:     bcm88690_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88690_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_filter.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based calendar postprocessing filters
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashSflashDrvLib.c,v 1.1 2013/12/02 08:34:59 kevinwu Exp $
* $Copyright: (c) 2013 Broadcom Corp.
* All Rights Reserved.$
*
```

```
* File:    flashSflashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/flashSflashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_core_lane_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_ram_regs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_address_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_core_lane_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_reg_structs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_ram_regs.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_phy_1_field_access.h                                    *
*  Created On    :  29/04/2013                                                    *
*  Created By    :  Kiran Divakar                                                 *
*  Description   :  Serdes IP Register and Field access APIs                      *
*  Revision      :  $Id: eagle_phy_1_field_access.h 1374 2016-03-12 01:19:55Z cvazquez $ *
*                                                                                 *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without             *
*  the written permission of:                                                     *
*      Broadcom Corporation                                                       *
*      5300 California Avenue                                                     *
*      Irvine, CA  92617                                                          *
*                                                                                 *
*  All information contained in this document is Broadcom Corporation             *
*  company private proprietary, and trade secret.                                 *
*                                                                                 *
```

****
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/mem.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_cell.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56514_a0.c
* Purpose:     bcm56514_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56514_a0.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmWredAvQlenTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredAvQlenTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_fabric_cell.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FIFO DMA
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fifo_dma.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: access_pack.h
* Purpose: Miscellaneous routine for device db access
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/access_pack.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeTableEntryConsole.c

No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: merlin16_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : merlin16_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*-----------------------------------------------------------------------*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_fabric.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_fabric.c
*
* MODULE PREFIX:  soc_tmcfabric
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: soc_log_buf.h
* Purpose: Thread safe circular buffer for logs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/soc_log_buf.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_bfd.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_bfd.c
* Purpose: Example of using BFD APIs.
*
* Usage:
*
*
*
* To run IPV4 test:
* BCM> cint examples/dpp/utility/cint_utils_mpls.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/utility/cint_utils_vlan.c
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_oam.c
* BCM> cint examples/dpp/cint_ip_route.c
* BCM> cint examples/dpp/cint_bfd.c
* If you run on ARAD+ you also require BCM> cint examples/dpp/cint_field_bfd_ipv4_single_hop.c
* BCM> cint
* bfd_ipv4_run_with_defaults(0,13,14,-1,0,BCM_BFD_ENDPOINT_IN_HW |
BCM_BFD_ENDPOINT_MULTIHOP);
*
* To run MPLS test:
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_mpls.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/utility/cint_utils_vlan.c
```

```
* BCM> cint examples/dpp/utility/cint_utils_oam.c
* BCM> cint examples/dpp/cint_ip_route.c
* BCM> cint examples/dpp/cint_bfd.c
* BCM> cint
* bfd_mpls_run_with_defaults(0,13,14);
* exit;
*
* To run PWE tests:
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/utility/cint_utils_l2.c
* BCM> cint examples/dpp/utility/cint_utils_multicast.c
* BCM> cint examples/dpp/utility/cint_utils_vlan.c
* BCM> cint examples/dpp/utility/cint_utils_mpls.c
* BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
* BCM> cint examples/dpp/utility/cint_utils_oam.c
* BCM> cint examples/dpp/cint_port_tpid.c
* BCM> cint examples/dpp/cint_qos.c
* BCM> cint examples/dpp/cint_vswitch_vpls.c
* BCM> cint examples/dpp/cint_bfd.c
* BCM> cint examples/dpp/cint_mpls_lsr.c
* BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
* cint
* int type = 1; or int type = 2; or int type = 4;
* #Type 1: BFD over CW (ACH)  over PWE
* #Type 2: PWE  over router alert
* #Type 4: BFD over G-ACH over GAL over PWE.
* bfd_pwe_run_with_defaults(0,13,14,type);
*
* comments:
* 1) In order to prevent from OAMP send packets do: BCM.0> m OAMP_MODE_REGISTER
TRANSMIT_ENABLE=0
* 2) gport, egress_if, tx_dest_system_port in different types:
* IP:
* bfd_endpoint_info.gport = 0; in lif - no need for this field in IPv4
* bfd_endpoint_info.egress_if = 0x40001002; next hop mac at encap-id... Taken from
create_l3_egress(unit,flags,out_port,out_vlan,ing_intf_out,next_hop_mac, &fec, &encap_id)
* bfd_endpoint_info.tx_dest_system_port = 0x400000d; out port
* MPLS:
* bfd_endpoint_info.gport = 0; in lif: tunnel_switch.tunnel_id
* bfd_endpoint_info.egress_if =  0x40001000; out lif: tunnel_id in example_ip_to_tunnel
* bfd_endpoint_info.tx_dest_system_port = 0x400000d; out port
* PWE:
* bfd_endpoint_info.gport = 0x4c004000; in lif: tunnel_switch.tunnel_id
* bfd_endpoint_info.egress_if =  0x40001000; out lif: mpls_port->encap_id
* bfd_endpoint_info.tx_dest_system_port = 0x400000d; out port
*
*
```

```
* This cint also test bfd echo. In order to enable BFD echo set "bfd_echo"
* BCM> cint examples/dpp/utility/cint_utils_mpls.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/utility/cint_utils_vlan.c
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_oam.c
* BCM> cint examples/dpp/cint_ip_route.c
* BCM> cint examples/dpp/cint_bfd.c
* BCM> cint examples/dpp/cint_field_bfd_echo.c
* If you run on ARAD+ you also require BCM> cint examples/dpp/cint_field_bfd_ipv4_single_hop.c
* BCM> cint
* bfd_echo_example(0,13,14,0,-1,0);
*
* To run BFD IPv4 single hop test:
* cd ../../../../regress/bcm
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_mpls.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/utility/cint_utils_vlan.c
* BCM> cint examples/dpp/utility/cint_utils_oam.c
* BCM> cint examples/dpp/cint_ip_route.c
* BCM> cint examples/dpp/cint_bfd.c
* BCM> cint examples/dpp/cint_field_bfd_ipv4_single_hop.c
* cint
* bfd_ipv4_run_with_defaults(0,13,14,-1,0,BCM_BFD_ENDPOINT_IN_HW);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_bfd.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: vxbsp.h,v 1.2 2009/04/03 13:09:32 alai Exp $
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/vxbsp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_mact.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_mact.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_mact.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000.c,v 1.102 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 SOC Initialization implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv6Only.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashIPv6Only.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hercules.c
* Purpose:    Driver functions for 5670/5675
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hercules.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemFifoParamEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemFifoParamEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls_lm_dm_pkt.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls_lm_dm_pkt.h
* Purpose:    MPLS_LM_DM Packet Format definitions
*             common to SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mpls_lm_dm_pkt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_rif.c,v 1.8 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_rif.c
No license file was found, but licenses were detected in source scan.

/* $Id: bsp_cards_consts.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/bsp_cards_consts.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: oam.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/oam/oam.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: shmoo_and28.c,v 1.1.1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 28nm PHY Support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/shmoo_and28.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_tbl_access.h,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_tbl_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcm53000.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcm53000.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lb.h,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       lb.h
* Purpose:     LB internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/lb.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchSumEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchSumEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_egr_queuing.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
```

```
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_egr_queuing.c
*
* MODULE PREFIX:  soc_tmcegr
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_egr_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: error.c
* Purpose: dispatch error routines
* Generator: mkdispatch
* Generated: Fri Aug 19 23:36:10 2011
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/error.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600FoLinkStateTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600FoLinkStateTableEntry.hx

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_push_mpls_gre.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_push_mpls_gre.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_ssr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_ssr.c
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_ssr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcOamApiCommon.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcOamApiCommon.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/CtcOamApiCommon.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmu_ut.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/tmu_ut.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sal.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     sal.h
* Purpose:     SAL Support definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/sal.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns.h 1187 2015-10-19 20:35:15Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmu_taps_ut.c,v 1.74.12.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/tmu_taps_ut.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_filter.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based calendar postprocessing filters
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_20x1g_1xhg127_cfg ,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_20x1g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
#* $Id: xfi_10g_pmd_gloop_10p3125.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
```

```
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*-----------------------------------------------------------------------
#* File       : xfi_10g_pmd_gloop_10p3125.soc
#* Description: xfi_10g_pmd_gloop_10p3125
#*----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
local portV xe1

phy $portV 0x9010 0x0000

sleep 1;
phy $portV 0x9010 0x0003
phy $portV 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy $portV 0x6c010 0x0000
phy $portV 0x6c010 0x0003
phy $portV 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy $portV 0x806d081 0x0002
phy $portV 0x806d081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy $portV 0x806d0f4 0x2271
phy $portV 0xd0f4

# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy $portV 0x806d080 0x8000
phy $portV 0x806d080

# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x000a
phy raw sbus $port 1.0 0xd127

# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
# phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000 0x6440
phy raw sbus $port 0.0 0x9000
```

```
# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137

# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc113 0xc1c8
phy raw sbus $port 0.0 0xc113

# Default value is not ok TX_X2_CONTROL0_MLD_SWAP_COUNT
phy raw sbus 0xb1 0.0 0xa000 0xfffc

# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
# phy raw sbus $port 0.0 0xc050 0x001c
phy raw sbus $port 0.0 0xc050 0x0021
phy raw sbus $port 0.0 0xc050

# phy raw sbus $port 0.0 0xc050 0x011c
phy raw sbus $port 0.0 0xc050 0x0121
phy raw sbus $port 0.0 0xc050

# RX_X4_Control (setup decode mode, deskew mode and descrambler mode)
phy raw sbus $port 0.0 0xc130 0x33c0
phy raw sbus $port 0.0 0xc130

# Set up RX_X4_Control0_decode_control setup block_sync_mode
phy raw sbus $port 0.0 0xc134 0x2872
phy raw sbus $port 0.0 0xc134

# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
phy raw sbus $port 0.0 0xc113 0xc1ca
phy raw sbus $port 0.0 0xc113

# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc113 0xc1cb
phy raw sbus $port 0.0 0xc113

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd0d2

phy $portV 0x806d0d2 0x7
phy raw sbus $port 1.0 0xd0d2

phy raw sbus $port 0.0 0x9009 # PCS loop back (not set)
sleep 1;
#pcs live link status 0x1b is good link AM Lock - Deskew - 0 - link status - sync status
```

phy raw sbus $port 0.0 0xc154

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_40g_pmd_gloop_10p3125.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/cfp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     L2 CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry point the branch of the sw state that compose the dnx bcm
* layer's sw state
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/bcm_sw_state.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/dnx_sw_state.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FIFO DMA
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_fifo_dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: config.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System configuration command.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_1Entry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_cos.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_cos.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_mirror.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_mirror.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv6OnlyConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashIPv6OnlyConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_cos.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_cos.c
* Purpose: Maintains all the debug information for cos
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/cos/tomahawk_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linux-user-bde.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux User BDE Helper Module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/user/kernel/linux-user-bde.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pmNull.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/dnx_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/portmod/portmod.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm12x10.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm8x50_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10Q.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/dnx_fabric_o_nif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm12x10_xgs.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pmOsILKN.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/portmod_legacy_phy.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_legacy_phy.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spl.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  spl.h
* Purpose:  Interrupt Blocking
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/spl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84064_ucode.c,v 1.1.30.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84064_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/src/tdm_th2_parse.c#10 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based printing and parsing functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmtypes.h,v 1.21 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cmtypes.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: blocks.c
* Purpose: Common block info for all chips.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/blocks.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibMVT.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibMVT.c
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_ptp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_ptp.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.local.template 1.181.6.1 Broadcom SDK $
# $Copyright: Copyright 2012 Broadcom Corporation.
# This program is the proprietary software of Broadcom Corporation
# and/or its licensors, and may only be used, duplicated, modified
# or distributed pursuant to the terms and conditions of a separate,
# written license agreement executed between you and Broadcom
# (an "Authorized License").  Except as set forth in an Authorized
# License, Broadcom grants no license (express or implied), right
# to use, or waiver of any kind with respect to the Software, and
# Broadcom expressly reserves all rights in and to the Software
# and all intellectual property rights therein.  IF YOU HAVE
# NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
# IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
# ALL USE OF THE SOFTWARE.
#
# Except as expressly set forth in the Authorized License,
#
# 1.     This program, including its structure, sequence and organization,
# constitutes the valuable trade secrets of Broadcom, and you shall use
# all reasonable efforts to protect the confidentiality thereof,
# and to use this information only in connection with your use of
# Broadcom integrated circuit products.
#
# 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
# PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
# REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
# OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
# DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
# NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
# ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
# CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
# OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
#
# 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
# BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
# INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
# ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
# TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
# THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
# WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
# ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
#

# Usage for Make.local.template and Make.local:
#
# Make.local.template is checked into the tree, but Make.local is never
# checked in.  Copy Make.local.template to Make.local, then change
```

```
# Make.local to select the desired compilation options (mostly debugging
# features).
#
# Note on CFGFLAGS usage:
#
#   Because CFGFLAGS may be used with other source preprocessing tools,
#   please limit the values added to CFGFLAGS to -D defines.
#
#
# Table of Contents:
#
#     Compiler Related Options
#     Boot and Debug Related Options
#     Operational and Policy Options
#     System Management and Multiple CPU Options
#     Selective Device Support (Switches and PHYs)
#     Miscellaneous Options
#

#################################################################
#
# Compiler Related Options
#
#################################################################

# Compiling out #ifdef DEBUG code saves about 1.3% on executable size.
# It is recommended to leave debug enabled when developing applications.
#DEBUG_IFDEFS=FALSE

# SAL resource usage tracking #ifdef control
# DEBUG_IFDEFS should also be  TRUE for this switch to take effect.
#BCM_RESOURCE_USAGE_PROFILE_IFDEFS=TRUE

# Uncomment to build without debug symbols
#DEBUG_SYMBOLS=FALSE

# Uncomment to add private CFLAGS
#DEBUG_CFLAGS=
#DEBUG_CFLAGS= -D_GNU_SOURCE -I$(DIST)/target_x86/root_fs/src/kernel/include
DEBUG_CFLAGS= -D_GNU_SOURCE -I$(LINUX_INCLUDE)/include --sysroot=/opt/poky/2.4/sysroots/core2-
32-poky-linux
#DEBUG_CFLAGS= -D_GNU_SOURCE -mcpu=8548 -mabi=no-spe -mfloat-gprs=double -
I$(DIST)/target_ppc/linux-2.6.24/include -I$(DIST)/target_ppc/extracted/ppc_85xx/usr/include
#DEBUG_CFLAGS= -D_GNU_SOURCE -mcpu=8548 -mabi=no-spe -mno-spe -mfloat-gprs=double --
sysroot=/opt/eldk-5.2.1/powerpc-e500v2/sysroots/ppce500v2-linux-gnuspe
# Uncomment to turn off the optimizer when debugging (recommended)
DEBUG_OPTIMIZE=FALSE
```

```
# Compiling out assert() saves about 1.1% on executable size,
# however do so is VERY MUCH discouraged.
#DEBUG_ASSERTS=FALSE

# Controlling GCC -pedantic flag
#DEBUG_PEDANTIC=TRUE

# compiler.h overrides, these disable various compiler
# related features even if the compiler normally supports them

# Disable use of long long for uint64
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_LONGLONG

# Disable use of doubles
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_DOUBLE

# Disable inlining of functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_INLINE

# Disable use of const
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_CONST

# Disable use of static functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_STATIC

# Disable RPC flexible (long) bitmaps.
# Warning: Disabling this changes the RPC version to 2 and
# makes systems running this code incompatible with systems
# running previous versions of BCM RPC code.
#CFGFLAGS += -DBCM_RPC_PBMP_64

#
# Define if longs are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
#CFGFLAGS += -DLONGS_ARE_64BITS

#
# Define if pointers are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
# NOTE: This support works ONLY under conditions where the
# upper 32 bits for ALL pointers are ZERO.
#CFGFLAGS += -DPTRS_ARE_64BITS


##################################################################
#
# Boot and Debug Related Options
#
```

```
#################################################################

# Options to turn on various debug flags at boot. BE SURE DK_ERR is set
# otherwise hardware error messages will not be printed.
#CFGFLAGS += -DDEBUG_STARTUP="DK_RCLOAD+DK_TX+DK_ERR"
#CFGFLAGS += -DDEBUG_STARTUP="DK_ERR"

# Define this to add debug code for RX pool buffer tracking
#CFGFLAGS += -DBCM_RXP_DEBUG

# Allow debugging of PCI reads/writes (debug +pci)
#CFGFLAGS += -DSOC_PCI_DEBUG

# Make default debugging settings be 0 (very very quiet)
#CFGFLAGS += -DNO_DEBUG_OUTPUT_DEFAULT

# Don't use vxMemProbe
#CFGFLAGS += -DVX_NO_MEM_PROBE

# Allow debugging of Memory Allocation/Deallocation logging
#CFGFLAGS += -DMEMLOG_SUPPORT

#################################################################
#################################################################
#
# Operational and Policy Options
#
#################################################################

# VLAN policy control:
# NO_DEFAULT_ETHER do not init ether ports into vlan 1
# NO_DEFAULT_CPU  do not init cpu ports into vlan 1
# NO_DEFAULT_SPI_SUBPORT do not init spi subports into vlan 1
# NO_AUTO_STACK  do not init stack/HG ports into created vlans
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_ETHER
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_CPU
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_SPI_SUBPORT
#CFGFLAGS += -DBCM_VLAN_NO_AUTO_STACK

# VLAN multicast flood Policy Control:
# BCM_VLAN_MCAST_FLOOD_ALL      Flood all multicast packets to the VLAN
# BCM_VLAN_MCAST_FLOOD_UNKNOWN  Flood unknown multicast packets to the vlan
# BCM_VLAN_MCAST_FLOOD_NONE     Forward multicast packets with known
#                               destination addresses to the appropriate ports.
#                               All packets destined to an unknown multicast
#                               address are dropped.
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_ALL
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_UNKNOWN
```

```
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_NONE

#Port Enable/Disable Policy control:
#       PORT_DEFAULT_DISABLE       disable ports during switch initialization
#CFGFLAGS += -DBCM_PORT_DEFAULT_DISABLE

# sal thread priority override (this value used for all threads if defined)
#CFGFLAGS += -DSAL_THREAD_PRIORITY=255

# disable printing of thread name in messages
#CFGFLAGS += -DSAL_THREAD_NAME_PRINT_DISABLE

# disable runtime reading of flash config.bcm file (even if !NO_FILEIO)
#CFGFLAGS += -DSAL_CONFIG_FILE_DISABLE

# disable all Application SAL dependencies
#NO_SAL_APPL=1


# Prevent scheduling in SPL locks when interrupt code is run as a thread.
# This option should not be necessary if all locks are implemented correctly,
# however, some locks may still rely on the assumption that scheduling does
# not occur when interrupts are disabled. If you experience any locking
# problems in e.g. Linux User Mode, try enabling this option.
# Please note that turning on this option will reduce performance by an
# estimated 5 to 10 %.
#CFGFLAGS += -DSAL_SPL_NO_PREEMPT

# disable mapping of higig cosq when mapping priority to cosq
# (use identity mapping instead : map prio0->cos0, prio1->cos1, ... , prio7->cos7)
#CFGFLAGS += -DBCM_COSQ_HIGIG_MAP_DISABLE

#################################################################
#
# System Management and Multiple CPU Options
#
#################################################################

# Turn on BCMX inclusion
#     INCLUDE_BCMX for any support
#INCLUDE_BCMX=1

# Telekinesis suite applications for CPU to CPU communication and discovery
#     CPUDB:        Simple CPU data base manager
#     CPUTRANS:      CPU to CPU communication mechanisms
#     DISCOVER:      Simple discovery; will also include CPUTRANS
#     STKTASK:       Stack manager application
#
```

```
#CFGFLAGS += -DINCLUDE_LIB_CPUDB
#CFGFLAGS += -DINCLUDE_LIB_CPUTRANS
#CFGFLAGS += -DINCLUDE_LIB_DISCOVER
#CFGFLAGS += -DINCLUDE_LIB_STKTASK

# Option for discovery to use the application-data field in routing
# packets for Board-ID and CPU base flag information.
#CFGFLAGS += -DDISCOVER_APP_DATA_BOARDID

# Optionally override list of included dispatch modules
# Note: including RPC automatically includes the Telekinesis suite libs
# ESW is the enterprise platforms.
# ROBO includes the managed devices.
# SBX AND FE2000 include API support for bcm988020QSK24X2
#DISPATCH_LIST = RPC ESW ASYNC SBX FE2000

# Define to have end-to-end flow control enabled on boards that
# support it
#CFGFLAGS += -DBCM_BOARD_AUTO_E2E

# Define the following to support per-CPU transmit pointers.
# This allows the TX setup and send functions to be defined on a
# per-CPU basis, allowing mixed in-band and out-of-band communication.
#CFGFLAGS += -DBCM_C2C_TRANSPORT_SWITCHING

# Options for feature list (INCLUDE_XXX)
# If FEATURE_LIST is defined, it is a list of features to include.
# See Make.config for the default feature list.
#
# Avaliable features:
#
#     BCMX
#     BCMX_DIAG
#     CHASSIS
#     CUSTOMER
#     DRIVERS
#     EDITLINE
#     I2C
#     L3
#     MEM_SCAN
#     ATPTRANS_SOCKET
#     TELNET
#     TEST
#     ACL
#     RCPU
#     KNET - Linux user mode kernel network support
#     BCM_SAL_PROFILE - make available an API to track SAL usage.
#     CINT - Include the C Interpreter in the diagnostic shell.
```

```
#           Please note this cannot be used in Linux kernel mode.
#     C_UNIT - Include the C unit testing framework.  If CINT is also included
#            then hooks will be provided for use from it.
#     PHY_SYM_DBG - PHY GUI MDIO read/write support. Socket interface
#                 to PHY GUI for Symbolic debugging.
#     APIMODE - call SDK API functions from shell, requires CINT
#     DUNE_UI - dune legacy user interface. For debug only. Tested
#             on linux-user-gto-2.6 only.
#     KBP   -   include nlm2(11K)/nlm3(12K) KBP support
#FEATURE_LIST=ATPTRANS_SOCKET BCMX_DIAG L3 I2C BCMX MEM_SCAN EDITLINE \
#    CUSTOMER TELNET DRIVERS CHASSIS TEST ACL RCPU BCM_SAL_PROFILE CINT \
#    PTP CES FCMAP BOARD KNET REGEX MACSEC APIMODE BFD BHH KBP

FEATURE_LIST := CINT BSAFE ATPTRANS_SOCKET L3 I2C MEM_SCAN EDITLINE CUSTOMER \
 TELNET DRIVERS CHASSIS TEST BCM_SAL_PROFILE RCPU INTR APIMODE DUNE_UI KBP

#################################################################
#Enable this for 12K device support
#KBP_DEVICE = KBP_12K
#
#Enable this for 11K device support
#KBP_DEVICE = KBP_11K
#
#Enable this for ALG_KBP device support
KBP_DEVICE = KBP_ALG
#
#################################################################

##################################################################
#
# Selective Device Support (Switches and PHYs)
#
##################################################################

# Multiple Chip Support
#
# By default, the driver supports all Strata switch and fabric chips
# included in this software release.  It checks device IDs at runtime
# to run the correct driver modules.
#
# To save space, the driver can be compiled to support just a subset of
# the chips.  To do this, uncomment the line for BCM_PTL_SPT (partial
# support) and uncomment one line for each chip to support.
#
# Note that there are a lot more chips than drivers.
# For example, the BCM5615 driver is also used for BCM5625 and BCM5645.
#
```

```
BCM_PTL_SPT = 1

BCM_88640_A0=0
BCM_88650_A0=1
BCM_88750_A0=1
BCM_88650_B0=1
BCM_88660_A0=1
BCM_88950_A0=1

BCM_88640_A0=1
BCM_88650_A0=1
BCM_88650_B0=1
BCM_88660_A0=1
BCM_88675_A0=1
BCM_88675_B0=1
BCM_88375_A0=1
BCM_88375_B0=1

VENDOR_LIST = BROADCOM
override SBX_CHIPS=
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__

CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
CFGFLAGS += -D_SIMPLE_MEMORY_ALLOCATION_=1

# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -m32
LINK_STATIC := 0

#BCM_5675_A0 = 1
#BCM_56102_A0 = 1
#BCM_56112_A0 = 1
#BCM_56304_B0 = 1
#BCM_56314_A0 = 1
#BCM_56504_A0 = 1
#BCM_56504_B0 = 1
#BCM_56514_A0 = 1
#BCM_56624_A0 = 1
#BCM_56624_B0 = 1
#BCM_56680_A0 = 1
#BCM_56680_B0 = 1
#BCM_56580_A0 = 1
#BCM_56700_A0 = 1
#BCM_56800_A0 = 1
#BCM_56218_A0 = 1
#BCM_56224_A0 = 1
#BCM_56224_B0 = 1
```

```
#BCM_56725_A0 = 1
#BCM_56820_A0 = 1
#BCM_53314_A0 = 1
#BCM_53324_A0 = 1
#BCM_56634_A0 = 1
#BCM_56634_B0 = 1
#BCM_56524_A0 = 1
#BCM_56524_B0 = 1
#BCM_56685_A0 = 1
#BCM_56685_B0 = 1
#BCM_56334_A0 = 1
#BCM_56334_B0 = 1
#BCM_56840_A0 = 1
#BCM_56840_B0 = 1
#BCM_56850_A0 = 1
#BCM_56142_A0 = 1
#BCM_56150_A0 = 1
#BCM_56836_A0 = 1
#BCM_56640_A0 = 1
#BCM_56440_A0 = 1
#BCM_56440_B0 = 1
#BCM_56450_A0 = 1

#BCM_5338_A0 = 1
#BCM_5380_A0 = 1
#BCM_5338_B0 = 1
#BCM_5325_A1 = 1

#BCM_5324_A0 = 1
#BCM_5396_A0 = 1
#BCM_5389_A0 = 1
#BCM_5398_A0 = 1
#BCM_5324_A1 = 1
#BCM_53115_A0 = 1
#BCM_53118_A0 = 1
#BCM_53280_A0 = 1
#BCM_53280_B0 = 1
#BCM_53101_A0 = 1
#BCM_53125_A0 = 1
#BCM_53128_A0 = 1
#BCM_53600_A0 = 1
#BCM_89500_A0 = 1

#BCM_88030_A0 = 1
#BCM_FE2000_A0 = 1
#BCM_QE2000_A0 = 1
#BCM_BME3200_B0 = 1
#BCM_BM9600_A0 = 1
```

```
#BCM_88230_A0 = 1
#BCM_88230_B0 = 1
#BCM_88230_C0 = 1

#BCM_TK371X_A0 = 1

# Options for multiple PHY support
# If BCM_PHY_LIST is defined, it is a list of PHYs to include.
# The default is to include all of them.
# If none of them should be included specify BCM_PHY_LIST=EMPTY
#BCM_PHY_LIST=522X 54XX 5464 5421S 5482 54616 54680 54680E 52681E 54880E 54682 54684 54640
54640E 54880 SERDES SIMUL 8703 8705 8706 8072 8040 8481 8750 8729 84740 84756 84328 EMPTY
BCM_PHY_LIST=EMPTY

# Options for BCM5338 5380
#CFGFLAGS += -DROBO_OLD
#ROBO_OLD = 1

# Support for phy simulation
#CFGFLAGS += -DINCLUDE_PHY_SIMUL
#CFGFLAGS += -DSIM_ALL_PHYS        # All phys use simulation driver
#CFGFLAGS += -DSIM_CMIC_LINK_STAT  # Get link status from CMIC register

# Support for BOARD library
# if BOARD_LIST is defined, it is a list of Board drivers to include.
# The default is to include all board drivers appropriate for the devices
# included in the build. If none of them should be included specify
# BOARD_LIST=EMPTY.
#BOARD_LIST=GENERIC

# Support for event logging
#CFGFLAGS += -DINCLUDE_SHARED_EVLOG

# Support for BCM API port translation
#CFGFLAGS += -DINCLUDE_BCM_API_XLATE_PORT

# Support for callback error checks and abort in traverse api's
#CFGFLAGS += -DBCM_CB_ABORT_ON_ERR
#################################################################
#
# Misc Options
#
#################################################################
#CFGFLAGS += -DSOC_MEM_L3_DEFIP_WAR

# Compile out Register/Table descriptive strings to generate a
# compact image
#CFGFLAGS +=-DSOC_NO_NAMES
```

```
#CFGFLAGS +=-DSOC_NO_ALIAS
#CFGFLAGS +=-DSOC_NO_DESC

# Reload/WarmBoot Support
#
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
#
# Need this for validation using SOC scripts; Will move to tcl
# someday
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP

##################################################################
#
# Enable Easy Reload Support
#
##################################################################
CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT
# For validation purposes
CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT_SW_DUMP

# Software Trunk failover Support
#
#CFGFLAGS += -DBCM_TRUNK_FAILOVER_SUPPORT

##################################################################
#
# Override default VXWORKS thread options to make set
# VX_UNBREAKABLE flag in task creation.
#
##################################################################
#CFGFLAGS += -DVX_THREAD_OPT_UNBREAKABLE


##################################################################
#
# Use default priority for BDE interrupt thread.
#
##################################################################
#CFGFLAGS += -DSAL_BDE_THREAD_PRIO_DEFAULT

##################################################################
#
# Use cached DMA memory when mapping kernel DMA memory to user
# mode. Should only be enabled on cache-coherent platforms.
#
##################################################################
#CFGFLAGS += -DSAL_BDE_CACHE_DMA_MEM
```

```
#################################################################
#
# Take the spl lock upon entering an ISR
#
#################################################################
#CFGFLAGS += -DSAL_SPL_LOCK_ON_IRQ

#################################################################
#
# Silently ignore NULL pointer free in sal_free API
# Default behaviour is to assert if a NULL pointer is passed to sal_free
#
#################################################################
#CFGFLAGS += -DSAL_FREE_NULL_IGNORE

#################################################################
# Enable SBX MPLS TP support
#################################################################
#CFGFLAGS += -DBCM_SBX_MPLSTP_SUPPORT
#CFGFLAGS += -DBCM_SBX_C1_MPLSTP_SUPPORT

#################################################################
# Restrict SBX C2 Fte range to C2's range
#################################################################
#CFGFLAGS += -DBCM_SBX_C1_C2_INTEROP

#################################################################
# For historical reasons the PCI probe function skips device 12
# by default to prevent a system hang on certain platforms.
# Set this value to zero to probe all PCI devices.
#################################################################
#CFGFLAGS += -DOVERRIDE_PCI_SKIP_DEV_MASK=0

#################################################################
# Override max devices supported by PLI BDE
#################################################################
#CFGFLAGS += -DPLI_MAX_DEVICES

#################################################################
# Track BCM API calls to avoid deinitialization while calls active
# This will incur a small time penalty for each BCM API call
#################################################################
#CFGFLAGS += -DBCM_CONTROL_API_TRACKING

#################################################################
# Override default retry time for detach to wait for executing
# APIs to complete.
#################################################################
```

```
#CFGFLAGS += -DBCM_DETACH_POLL_INTERVAL_USECS_DEFAULT=100000
#CFGFLAGS += -DBCM_DETACH_NUM_RETRIES_DEFAULT=3000

##################################################################
# Disable the RX module initialization
##################################################################
#CFGFLAGS += -DBCM_RX_DISABLE
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.local
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lag.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_lag.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_lag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm59101.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for BCM59101 8-bit PoE Microcontroller Unit.
* The MCU communicates with message types of 12-byte long packet.
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bcm59101.c
No license file was found, but licenses were detected in source scan.

```
/**
*
*
* $Id: cmu_diags_c.stg,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_cmu_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_cmu_diags.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_llp_mirror.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sand_framework.h,v 1.13 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$ $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_appl_intr_corr_act_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement Correction action functions for jericho interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_intr_corr_act_func.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_ports.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_ports.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: taps_util.h,v 1.14 Broadcom SDK $
```

```
*
* TAPS utility defines/functions
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/taps_util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Copyright 2010-2015 Broadcom Corporation.
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_config.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: merlin_quadra28_common.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_common.h
No license file was found, but licenses were detected in source scan.

```
/*
*  ECMP script 2009-sept-29
*
* $Id: ecmp_cint.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/ecmp_cint.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbal_direct_access_logic.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_direct_access_logic.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mux_drv.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/eth/mux_drv.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm88375_board.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#Polarity and lane map configuration required for Broadcom BCM88375_A0 / BCM88375_A1 / BCM88375_B0
```

boards

```
#RX polarity
#BCM88375_A0
config add phy_rx_polarity_flip.BCM88375_A0=0
config add phy_rx_polarity_flip_phy1.BCM88375_A0=1
config add phy_rx_polarity_flip_phy2.BCM88375_A0=1
config add phy_rx_polarity_flip_phy3.BCM88375_A0=1
config add phy_rx_polarity_flip_phy4.BCM88375_A0=1
config add phy_rx_polarity_flip_phy5.BCM88375_A0=1
config add phy_rx_polarity_flip_phy6.BCM88375_A0=1
config add phy_rx_polarity_flip_phy7.BCM88375_A0=1
config add phy_rx_polarity_flip_phy8.BCM88375_A0=1
config add phy_rx_polarity_flip_phy9.BCM88375_A0=1
config add phy_rx_polarity_flip_phy10.BCM88375_A0=1
config add phy_rx_polarity_flip_phy11.BCM88375_A0=1
config add phy_rx_polarity_flip_phy12.BCM88375_A0=1
config add phy_rx_polarity_flip_phy13.BCM88375_A0=1
config add phy_rx_polarity_flip_phy14.BCM88375_A0=1
config add phy_rx_polarity_flip_phy15.BCM88375_A0=1
config add phy_rx_polarity_flip_phy16.BCM88375_A0=1
config add phy_rx_polarity_flip_phy17.BCM88375_A0=1
config add phy_rx_polarity_flip_phy18.BCM88375_A0=1
config add phy_rx_polarity_flip_phy19.BCM88375_A0=1
config add phy_rx_polarity_flip_phy20.BCM88375_A0=1
config add phy_rx_polarity_flip_phy21.BCM88375_A0=1
config add phy_rx_polarity_flip_phy22.BCM88375_A0=1
config add phy_rx_polarity_flip_phy23.BCM88375_A0=1
config add phy_rx_polarity_flip_phy24.BCM88375_A0=1
config add phy_rx_polarity_flip_phy27.BCM88375_A0=1
config add phy_rx_polarity_flip_phy33.BCM88375_A0=1
config add phy_rx_polarity_flip_phy34.BCM88375_A0=1
config add phy_rx_polarity_flip_phy35.BCM88375_A0=1
config add phy_rx_polarity_flip_phy36.BCM88375_A0=1
config add phy_rx_polarity_flip_phy38.BCM88375_A0=1
config add phy_rx_polarity_flip_phy39.BCM88375_A0=1
config add phy_rx_polarity_flip_phy41.BCM88375_A0=1
config add phy_rx_polarity_flip_phy42.BCM88375_A0=1
config add phy_rx_polarity_flip_phy43.BCM88375_A0=1
config add phy_rx_polarity_flip_phy44.BCM88375_A0=1
config add phy_rx_polarity_flip_phy45.BCM88375_A0=1
config add phy_rx_polarity_flip_phy47.BCM88375_A0=1
config add phy_rx_polarity_flip_phy48.BCM88375_A0=1
config add phy_rx_polarity_flip_phy54.BCM88375_A0=1
config add phy_rx_polarity_flip_phy61.BCM88375_A0=1
config add phy_rx_polarity_flip_phy62.BCM88375_A0=1
config add phy_rx_polarity_flip_phy63.BCM88375_A0=1
config add phy_rx_polarity_flip_phy64.BCM88375_A0=1
```

```
config add phy_rx_polarity_flip_phy66.BCM88375_A0=1
config add phy_rx_polarity_flip_phy69.BCM88375_A0=1
config add phy_rx_polarity_flip_phy71.BCM88375_A0=1

#BCM88375_A1
config add phy_rx_polarity_flip.BCM88375_A1=0
config add phy_rx_polarity_flip_phy1.BCM88375_A1=1
config add phy_rx_polarity_flip_phy2.BCM88375_A1=1
config add phy_rx_polarity_flip_phy3.BCM88375_A1=1
config add phy_rx_polarity_flip_phy4.BCM88375_A1=1
config add phy_rx_polarity_flip_phy5.BCM88375_A1=1
config add phy_rx_polarity_flip_phy6.BCM88375_A1=1
config add phy_rx_polarity_flip_phy7.BCM88375_A1=1
config add phy_rx_polarity_flip_phy8.BCM88375_A1=1
config add phy_rx_polarity_flip_phy9.BCM88375_A1=1
config add phy_rx_polarity_flip_phy10.BCM88375_A1=1
config add phy_rx_polarity_flip_phy11.BCM88375_A1=1
config add phy_rx_polarity_flip_phy12.BCM88375_A1=1
config add phy_rx_polarity_flip_phy13.BCM88375_A1=1
config add phy_rx_polarity_flip_phy14.BCM88375_A1=1
config add phy_rx_polarity_flip_phy15.BCM88375_A1=1
config add phy_rx_polarity_flip_phy16.BCM88375_A1=1
config add phy_rx_polarity_flip_phy17.BCM88375_A1=1
config add phy_rx_polarity_flip_phy18.BCM88375_A1=1
config add phy_rx_polarity_flip_phy19.BCM88375_A1=1
config add phy_rx_polarity_flip_phy20.BCM88375_A1=1
config add phy_rx_polarity_flip_phy21.BCM88375_A1=1
config add phy_rx_polarity_flip_phy22.BCM88375_A1=1
config add phy_rx_polarity_flip_phy23.BCM88375_A1=1
config add phy_rx_polarity_flip_phy24.BCM88375_A1=1
config add phy_rx_polarity_flip_phy27.BCM88375_A1=1
config add phy_rx_polarity_flip_phy33.BCM88375_A1=1
config add phy_rx_polarity_flip_phy34.BCM88375_A1=1
config add phy_rx_polarity_flip_phy35.BCM88375_A1=1
config add phy_rx_polarity_flip_phy36.BCM88375_A1=1
config add phy_rx_polarity_flip_phy38.BCM88375_A1=1
config add phy_rx_polarity_flip_phy39.BCM88375_A1=1
config add phy_rx_polarity_flip_phy41.BCM88375_A1=1
config add phy_rx_polarity_flip_phy42.BCM88375_A1=1
config add phy_rx_polarity_flip_phy43.BCM88375_A1=1
config add phy_rx_polarity_flip_phy44.BCM88375_A1=1
config add phy_rx_polarity_flip_phy45.BCM88375_A1=1
config add phy_rx_polarity_flip_phy47.BCM88375_A1=1
config add phy_rx_polarity_flip_phy48.BCM88375_A1=1
config add phy_rx_polarity_flip_phy54.BCM88375_A1=1
config add phy_rx_polarity_flip_phy61.BCM88375_A1=1
config add phy_rx_polarity_flip_phy62.BCM88375_A1=1
config add phy_rx_polarity_flip_phy63.BCM88375_A1=1
```

```
config add phy_rx_polarity_flip_phy64.BCM88375_A1=1
config add phy_rx_polarity_flip_phy66.BCM88375_A1=1
config add phy_rx_polarity_flip_phy69.BCM88375_A1=1
config add phy_rx_polarity_flip_phy71.BCM88375_A1=1


#BCM88375_B0
config add phy_rx_polarity_flip.BCM88375_B0=0
config add phy_rx_polarity_flip_phy1.BCM88375_B0=1
config add phy_rx_polarity_flip_phy2.BCM88375_B0=1
config add phy_rx_polarity_flip_phy3.BCM88375_B0=1
config add phy_rx_polarity_flip_phy4.BCM88375_B0=1
config add phy_rx_polarity_flip_phy5.BCM88375_B0=1
config add phy_rx_polarity_flip_phy6.BCM88375_B0=1
config add phy_rx_polarity_flip_phy7.BCM88375_B0=1
config add phy_rx_polarity_flip_phy8.BCM88375_B0=1
config add phy_rx_polarity_flip_phy9.BCM88375_B0=1
config add phy_rx_polarity_flip_phy10.BCM88375_B0=1
config add phy_rx_polarity_flip_phy11.BCM88375_B0=1
config add phy_rx_polarity_flip_phy12.BCM88375_B0=1
config add phy_rx_polarity_flip_phy13.BCM88375_B0=1
config add phy_rx_polarity_flip_phy14.BCM88375_B0=1
config add phy_rx_polarity_flip_phy15.BCM88375_B0=1
config add phy_rx_polarity_flip_phy16.BCM88375_B0=1
config add phy_rx_polarity_flip_phy17.BCM88375_B0=1
config add phy_rx_polarity_flip_phy18.BCM88375_B0=1
config add phy_rx_polarity_flip_phy19.BCM88375_B0=1
config add phy_rx_polarity_flip_phy20.BCM88375_B0=1
config add phy_rx_polarity_flip_phy21.BCM88375_B0=1
config add phy_rx_polarity_flip_phy22.BCM88375_B0=1
config add phy_rx_polarity_flip_phy23.BCM88375_B0=1
config add phy_rx_polarity_flip_phy24.BCM88375_B0=1
config add phy_rx_polarity_flip_phy27.BCM88375_B0=1
config add phy_rx_polarity_flip_phy33.BCM88375_B0=1
config add phy_rx_polarity_flip_phy34.BCM88375_B0=1
config add phy_rx_polarity_flip_phy35.BCM88375_B0=1
config add phy_rx_polarity_flip_phy36.BCM88375_B0=1
config add phy_rx_polarity_flip_phy38.BCM88375_B0=1
config add phy_rx_polarity_flip_phy39.BCM88375_B0=1
config add phy_rx_polarity_flip_phy41.BCM88375_B0=1
config add phy_rx_polarity_flip_phy42.BCM88375_B0=1
config add phy_rx_polarity_flip_phy43.BCM88375_B0=1
config add phy_rx_polarity_flip_phy44.BCM88375_B0=1
config add phy_rx_polarity_flip_phy45.BCM88375_B0=1
config add phy_rx_polarity_flip_phy47.BCM88375_B0=1
config add phy_rx_polarity_flip_phy48.BCM88375_B0=1
config add phy_rx_polarity_flip_phy54.BCM88375_B0=1
config add phy_rx_polarity_flip_phy61.BCM88375_B0=1
```

```
config add phy_rx_polarity_flip_phy62.BCM88375_B0=1
config add phy_rx_polarity_flip_phy63.BCM88375_B0=1
config add phy_rx_polarity_flip_phy64.BCM88375_B0=1
config add phy_rx_polarity_flip_phy66.BCM88375_B0=1
config add phy_rx_polarity_flip_phy69.BCM88375_B0=1
config add phy_rx_polarity_flip_phy71.BCM88375_B0=1

#TX polarity
#BCM88375_A0
config add phy_tx_polarity_flip.BCM88375_A0=0
config add phy_tx_polarity_flip_phy3.BCM88375_A0=1
config add phy_tx_polarity_flip_phy7.BCM88375_A0=1
config add phy_tx_polarity_flip_phy11.BCM88375_A0=1
config add phy_tx_polarity_flip_phy16.BCM88375_A0=1
config add phy_tx_polarity_flip_phy19.BCM88375_A0=1
config add phy_tx_polarity_flip_phy24.BCM88375_A0=1
config add phy_tx_polarity_flip_phy29.BCM88375_A0=1
config add phy_tx_polarity_flip_phy32.BCM88375_A0=1
config add phy_tx_polarity_flip_phy36.BCM88375_A0=1
config add phy_tx_polarity_flip_phy39.BCM88375_A0=1
config add phy_tx_polarity_flip_phy40.BCM88375_A0=1
config add phy_tx_polarity_flip_phy43.BCM88375_A0=1
config add phy_tx_polarity_flip_phy44.BCM88375_A0=1
config add phy_tx_polarity_flip_phy48.BCM88375_A0=1
config add phy_tx_polarity_flip_phy50.BCM88375_A0=1
config add phy_tx_polarity_flip_phy53.BCM88375_A0=1
config add phy_tx_polarity_flip_phy55.BCM88375_A0=1
config add phy_tx_polarity_flip_phy62.BCM88375_A0=1
config add phy_tx_polarity_flip_phy64.BCM88375_A0=1
config add phy_tx_polarity_flip_phy69.BCM88375_A0=1
config add phy_tx_polarity_flip_phy70.BCM88375_A0=1
config add phy_tx_polarity_flip_phy71.BCM88375_A0=1
config add phy_tx_polarity_flip_phy72.BCM88375_A0=1

#BCM88375_A1
config add phy_tx_polarity_flip.BCM88375_A1=0
config add phy_tx_polarity_flip_phy3.BCM88375_A1=1
config add phy_tx_polarity_flip_phy7.BCM88375_A1=1
config add phy_tx_polarity_flip_phy11.BCM88375_A1=1
config add phy_tx_polarity_flip_phy16.BCM88375_A1=1
config add phy_tx_polarity_flip_phy19.BCM88375_A1=1
config add phy_tx_polarity_flip_phy24.BCM88375_A1=1
config add phy_tx_polarity_flip_phy29.BCM88375_A1=1
config add phy_tx_polarity_flip_phy32.BCM88375_A1=1
config add phy_tx_polarity_flip_phy36.BCM88375_A1=1
config add phy_tx_polarity_flip_phy39.BCM88375_A1=1
config add phy_tx_polarity_flip_phy40.BCM88375_A1=1
config add phy_tx_polarity_flip_phy43.BCM88375_A1=1
```

```
config add phy_tx_polarity_flip_phy44.BCM88375_A1=1
config add phy_tx_polarity_flip_phy48.BCM88375_A1=1
config add phy_tx_polarity_flip_phy50.BCM88375_A1=1
config add phy_tx_polarity_flip_phy53.BCM88375_A1=1
config add phy_tx_polarity_flip_phy55.BCM88375_A1=1
config add phy_tx_polarity_flip_phy62.BCM88375_A1=1
config add phy_tx_polarity_flip_phy64.BCM88375_A1=1
config add phy_tx_polarity_flip_phy69.BCM88375_A1=1
config add phy_tx_polarity_flip_phy70.BCM88375_A1=1
config add phy_tx_polarity_flip_phy71.BCM88375_A1=1
config add phy_tx_polarity_flip_phy72.BCM88375_A1=1

#BCM88375_B0
config add phy_tx_polarity_flip.BCM88375_B0=0
config add phy_tx_polarity_flip_phy3.BCM88375_B0=1
config add phy_tx_polarity_flip_phy7.BCM88375_B0=1
config add phy_tx_polarity_flip_phy11.BCM88375_B0=1
config add phy_tx_polarity_flip_phy16.BCM88375_B0=1
config add phy_tx_polarity_flip_phy19.BCM88375_B0=1
config add phy_tx_polarity_flip_phy24.BCM88375_B0=1
config add phy_tx_polarity_flip_phy29.BCM88375_B0=1
config add phy_tx_polarity_flip_phy32.BCM88375_B0=1
config add phy_tx_polarity_flip_phy36.BCM88375_B0=1
config add phy_tx_polarity_flip_phy39.BCM88375_B0=1
config add phy_tx_polarity_flip_phy40.BCM88375_B0=1
config add phy_tx_polarity_flip_phy43.BCM88375_B0=1
config add phy_tx_polarity_flip_phy44.BCM88375_B0=1
config add phy_tx_polarity_flip_phy48.BCM88375_B0=1
config add phy_tx_polarity_flip_phy50.BCM88375_B0=1
config add phy_tx_polarity_flip_phy53.BCM88375_B0=1
config add phy_tx_polarity_flip_phy55.BCM88375_B0=1
config add phy_tx_polarity_flip_phy62.BCM88375_B0=1
config add phy_tx_polarity_flip_phy64.BCM88375_B0=1
config add phy_tx_polarity_flip_phy69.BCM88375_B0=1
config add phy_tx_polarity_flip_phy70.BCM88375_B0=1
config add phy_tx_polarity_flip_phy71.BCM88375_B0=1
config add phy_tx_polarity_flip_phy72.BCM88375_B0=1

#rx lane swap
#BCM88375_A0
config add phy_rx_lane_map.BCM88375_A0=0x3210
config add phy_rx_lane_map_quad0.BCM88375_A0=0x1320
config add phy_rx_lane_map_quad1.BCM88375_A0=0x1302
config add phy_rx_lane_map_quad2.BCM88375_A0=0x1302
config add phy_rx_lane_map_quad3.BCM88375_A0=0x2031
config add phy_rx_lane_map_quad4.BCM88375_A0=0x1302
config add phy_rx_lane_map_quad5.BCM88375_A0=0x2031
config add phy_rx_lane_map_quad6.BCM88375_A0=0x1302
```

```
config add phy_rx_lane_map_quad7.BCM88375_A0=0x3012
config add phy_rx_lane_map_quad8.BCM88375_A0=0x1023
config add phy_rx_lane_map_quad9.BCM88375_A0=0x3120
config add phy_rx_lane_map_quad10.BCM88375_A0=0x0123
config add phy_rx_lane_map_quad11.BCM88375_A0=0x0213
config add phy_rx_lane_map_quad12.BCM88375_A0=0x2013
config add phy_rx_lane_map_quad13.BCM88375_A0=0x3102
config add phy_rx_lane_map_quad14.BCM88375_A0=0x0321
config add phy_rx_lane_map_quad15.BCM88375_A0=0x1032
config add phy_rx_lane_map_quad16.BCM88375_A0=0x3210
config add phy_rx_lane_map_quad17.BCM88375_A0=0x3210

#BCM88375_A1
config add phy_rx_lane_map.BCM88375_A1=0x3210
config add phy_rx_lane_map_quad0.BCM88375_A1=0x1320
config add phy_rx_lane_map_quad1.BCM88375_A1=0x1302
config add phy_rx_lane_map_quad2.BCM88375_A1=0x1302
config add phy_rx_lane_map_quad3.BCM88375_A1=0x2031
config add phy_rx_lane_map_quad4.BCM88375_A1=0x1302
config add phy_rx_lane_map_quad5.BCM88375_A1=0x2031
config add phy_rx_lane_map_quad6.BCM88375_A1=0x1302
config add phy_rx_lane_map_quad7.BCM88375_A1=0x3012
config add phy_rx_lane_map_quad8.BCM88375_A1=0x1023
config add phy_rx_lane_map_quad9.BCM88375_A1=0x3120
config add phy_rx_lane_map_quad10.BCM88375_A1=0x0123
config add phy_rx_lane_map_quad11.BCM88375_A1=0x0213
config add phy_rx_lane_map_quad12.BCM88375_A1=0x2013
config add phy_rx_lane_map_quad13.BCM88375_A1=0x3102
config add phy_rx_lane_map_quad14.BCM88375_A1=0x0321
config add phy_rx_lane_map_quad15.BCM88375_A1=0x1032
config add phy_rx_lane_map_quad16.BCM88375_A1=0x3210
config add phy_rx_lane_map_quad17.BCM88375_A1=0x3210

#BCM88375_B0
config add phy_rx_lane_map.BCM88375_B0=0x3210
config add phy_rx_lane_map_quad0.BCM88375_B0=0x1320
config add phy_rx_lane_map_quad1.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad2.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad3.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad4.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad5.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad6.BCM88375_B0=0x1302
config add phy_rx_lane_map_quad7.BCM88375_B0=0x3012
config add phy_rx_lane_map_quad8.BCM88375_B0=0x1023
config add phy_rx_lane_map_quad9.BCM88375_B0=0x3120
config add phy_rx_lane_map_quad10.BCM88375_B0=0x0123
config add phy_rx_lane_map_quad11.BCM88375_B0=0x0213
config add phy_rx_lane_map_quad12.BCM88375_B0=0x2013
```

```
config add phy_rx_lane_map_quad13.BCM88375_B0=0x3102
config add phy_rx_lane_map_quad14.BCM88375_B0=0x0321
config add phy_rx_lane_map_quad15.BCM88375_B0=0x1032
config add phy_rx_lane_map_quad16.BCM88375_B0=0x3210
config add phy_rx_lane_map_quad17.BCM88375_B0=0x3210


#tx lane swap
#BCM88375_A0
config add phy_tx_lane_map.BCM88375_A0=0x3210
config add phy_tx_lane_map_quad0.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad1.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad2.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad3.BCM88375_A0=0x0213
config add phy_tx_lane_map_quad4.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad5.BCM88375_A0=0x0213
config add phy_tx_lane_map_quad6.BCM88375_A0=0x3210
config add phy_tx_lane_map_quad7.BCM88375_A0=0x0123
config add phy_tx_lane_map_quad8.BCM88375_A0=0x2130
config add phy_tx_lane_map_quad9.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad10.BCM88375_A0=0x3120
config add phy_tx_lane_map_quad11.BCM88375_A0=0x0213
config add phy_tx_lane_map_quad12.BCM88375_A0=0x3021
config add phy_tx_lane_map_quad13.BCM88375_A0=0x1032
config add phy_tx_lane_map_quad14.BCM88375_A0=0x1203
config add phy_tx_lane_map_quad15.BCM88375_A0=0x1302
config add phy_tx_lane_map_quad16.BCM88375_A0=0x3210
config add phy_tx_lane_map_quad17.BCM88375_A0=0x3210

#BCM88375_A1
config add phy_tx_lane_map.BCM88375_A1=0x3210
config add phy_tx_lane_map_quad0.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad1.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad2.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad3.BCM88375_A1=0x0213
config add phy_tx_lane_map_quad4.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad5.BCM88375_A1=0x0213
config add phy_tx_lane_map_quad6.BCM88375_A1=0x3210
config add phy_tx_lane_map_quad7.BCM88375_A1=0x0123
config add phy_tx_lane_map_quad8.BCM88375_A1=0x2130
config add phy_tx_lane_map_quad9.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad10.BCM88375_A1=0x3120
config add phy_tx_lane_map_quad11.BCM88375_A1=0x0213
config add phy_tx_lane_map_quad12.BCM88375_A1=0x3021
config add phy_tx_lane_map_quad13.BCM88375_A1=0x1032
config add phy_tx_lane_map_quad14.BCM88375_A1=0x1203
config add phy_tx_lane_map_quad15.BCM88375_A1=0x1302
config add phy_tx_lane_map_quad16.BCM88375_A1=0x3210
```

```
config add phy_tx_lane_map_quad17.BCM88375_A1=0x3210


#BCM88375_B0
config add phy_tx_lane_map.BCM88375_B0=0x3210
config add phy_tx_lane_map_quad0.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad1.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad2.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad3.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad4.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad5.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad6.BCM88375_B0=0x3210
config add phy_tx_lane_map_quad7.BCM88375_B0=0x0123
config add phy_tx_lane_map_quad8.BCM88375_B0=0x2130
config add phy_tx_lane_map_quad9.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad10.BCM88375_B0=0x3120
config add phy_tx_lane_map_quad11.BCM88375_B0=0x0213
config add phy_tx_lane_map_quad12.BCM88375_B0=0x3021
config add phy_tx_lane_map_quad13.BCM88375_B0=0x1032
config add phy_tx_lane_map_quad14.BCM88375_B0=0x1203
config add phy_tx_lane_map_quad15.BCM88375_B0=0x1302
config add phy_tx_lane_map_quad16.BCM88375_B0=0x3210
config add phy_tx_lane_map_quad17.BCM88375_B0=0x3210


#address and bank swap
config add ext_ram_addr_bank_swap_dram0_bit0.BCM88375=2
config add ext_ram_addr_bank_swap_dram0_bit1.BCM88375=10
config add ext_ram_addr_bank_swap_dram0_bit2.BCM88375=4
config add ext_ram_addr_bank_swap_dram0_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram0_bit4.BCM88375=17
config add ext_ram_addr_bank_swap_dram0_bit5.BCM88375=0
config add ext_ram_addr_bank_swap_dram0_bit6.BCM88375=14
config add ext_ram_addr_bank_swap_dram0_bit7.BCM88375=8
config add ext_ram_addr_bank_swap_dram0_bit8.BCM88375=15
config add ext_ram_addr_bank_swap_dram0_bit9.BCM88375=12
config add ext_ram_addr_bank_swap_dram0_bit10.BCM88375=6
config add ext_ram_addr_bank_swap_dram0_bit11.BCM88375=9
config add ext_ram_addr_bank_swap_dram0_bit12.BCM88375=13
config add ext_ram_addr_bank_swap_dram0_bit13.BCM88375=7
config add ext_ram_addr_bank_swap_dram0_bit14.BCM88375=5
config add ext_ram_addr_bank_swap_dram0_bit15.BCM88375=16
config add ext_ram_addr_bank_swap_dram0_bit16.BCM88375=11
config add ext_ram_addr_bank_swap_dram0_bit17.BCM88375=1

config add ext_ram_addr_bank_swap_dram1_bit0.BCM88375=7
config add ext_ram_addr_bank_swap_dram1_bit1.BCM88375=17
config add ext_ram_addr_bank_swap_dram1_bit2.BCM88375=4
```

```
config add ext_ram_addr_bank_swap_dram1_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram1_bit4.BCM88375=2
config add ext_ram_addr_bank_swap_dram1_bit5.BCM88375=0
config add ext_ram_addr_bank_swap_dram1_bit6.BCM88375=5
config add ext_ram_addr_bank_swap_dram1_bit7.BCM88375=10
config add ext_ram_addr_bank_swap_dram1_bit8.BCM88375=16
config add ext_ram_addr_bank_swap_dram1_bit9.BCM88375=8
config add ext_ram_addr_bank_swap_dram1_bit10.BCM88375=12
config add ext_ram_addr_bank_swap_dram1_bit11.BCM88375=6
config add ext_ram_addr_bank_swap_dram1_bit12.BCM88375=15
config add ext_ram_addr_bank_swap_dram1_bit13.BCM88375=13
config add ext_ram_addr_bank_swap_dram1_bit14.BCM88375=14
config add ext_ram_addr_bank_swap_dram1_bit15.BCM88375=1
config add ext_ram_addr_bank_swap_dram1_bit16.BCM88375=9
config add ext_ram_addr_bank_swap_dram1_bit17.BCM88375=11

config add ext_ram_addr_bank_swap_dram2_bit0.BCM88375=14
config add ext_ram_addr_bank_swap_dram2_bit1.BCM88375=9
config add ext_ram_addr_bank_swap_dram2_bit2.BCM88375=11
config add ext_ram_addr_bank_swap_dram2_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram2_bit4.BCM88375=12
config add ext_ram_addr_bank_swap_dram2_bit5.BCM88375=15
config add ext_ram_addr_bank_swap_dram2_bit6.BCM88375=6
config add ext_ram_addr_bank_swap_dram2_bit7.BCM88375=5
config add ext_ram_addr_bank_swap_dram2_bit8.BCM88375=13
config add ext_ram_addr_bank_swap_dram2_bit9.BCM88375=8
config add ext_ram_addr_bank_swap_dram2_bit10.BCM88375=4
config add ext_ram_addr_bank_swap_dram2_bit11.BCM88375=0
config add ext_ram_addr_bank_swap_dram2_bit12.BCM88375=2
config add ext_ram_addr_bank_swap_dram2_bit13.BCM88375=7
config add ext_ram_addr_bank_swap_dram2_bit14.BCM88375=16
config add ext_ram_addr_bank_swap_dram2_bit15.BCM88375=1
config add ext_ram_addr_bank_swap_dram2_bit16.BCM88375=10
config add ext_ram_addr_bank_swap_dram2_bit17.BCM88375=17

config add ext_ram_addr_bank_swap_dram3_bit0.BCM88375=14
config add ext_ram_addr_bank_swap_dram3_bit1.BCM88375=1
config add ext_ram_addr_bank_swap_dram3_bit2.BCM88375=0
config add ext_ram_addr_bank_swap_dram3_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram3_bit4.BCM88375=6
config add ext_ram_addr_bank_swap_dram3_bit5.BCM88375=2
config add ext_ram_addr_bank_swap_dram3_bit6.BCM88375=10
config add ext_ram_addr_bank_swap_dram3_bit7.BCM88375=15
config add ext_ram_addr_bank_swap_dram3_bit8.BCM88375=4
config add ext_ram_addr_bank_swap_dram3_bit9.BCM88375=8
config add ext_ram_addr_bank_swap_dram3_bit10.BCM88375=12
config add ext_ram_addr_bank_swap_dram3_bit11.BCM88375=13
config add ext_ram_addr_bank_swap_dram3_bit12.BCM88375=17
```

```
config add ext_ram_addr_bank_swap_dram3_bit13.BCM88375=5
config add ext_ram_addr_bank_swap_dram3_bit14.BCM88375=11
config add ext_ram_addr_bank_swap_dram3_bit15.BCM88375=16
config add ext_ram_addr_bank_swap_dram3_bit16.BCM88375=9
config add ext_ram_addr_bank_swap_dram3_bit17.BCM88375=7

config add ext_ram_addr_bank_swap_dram4_bit0.BCM88375=4
config add ext_ram_addr_bank_swap_dram4_bit1.BCM88375=16
config add ext_ram_addr_bank_swap_dram4_bit2.BCM88375=6
config add ext_ram_addr_bank_swap_dram4_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram4_bit4.BCM88375=2
config add ext_ram_addr_bank_swap_dram4_bit5.BCM88375=0
config add ext_ram_addr_bank_swap_dram4_bit6.BCM88375=12
config add ext_ram_addr_bank_swap_dram4_bit7.BCM88375=14
config add ext_ram_addr_bank_swap_dram4_bit8.BCM88375=8
config add ext_ram_addr_bank_swap_dram4_bit9.BCM88375=10
config add ext_ram_addr_bank_swap_dram4_bit10.BCM88375=15
config add ext_ram_addr_bank_swap_dram4_bit11.BCM88375=17
config add ext_ram_addr_bank_swap_dram4_bit12.BCM88375=5
config add ext_ram_addr_bank_swap_dram4_bit13.BCM88375=7
config add ext_ram_addr_bank_swap_dram4_bit14.BCM88375=9
config add ext_ram_addr_bank_swap_dram4_bit15.BCM88375=11
config add ext_ram_addr_bank_swap_dram4_bit16.BCM88375=1
config add ext_ram_addr_bank_swap_dram4_bit17.BCM88375=13

config add ext_ram_addr_bank_swap_dram5_bit0.BCM88375=15
config add ext_ram_addr_bank_swap_dram5_bit1.BCM88375=10
config add ext_ram_addr_bank_swap_dram5_bit2.BCM88375=11
config add ext_ram_addr_bank_swap_dram5_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram5_bit4.BCM88375=16
config add ext_ram_addr_bank_swap_dram5_bit5.BCM88375=4
config add ext_ram_addr_bank_swap_dram5_bit6.BCM88375=1
config add ext_ram_addr_bank_swap_dram5_bit7.BCM88375=7
config add ext_ram_addr_bank_swap_dram5_bit8.BCM88375=6
config add ext_ram_addr_bank_swap_dram5_bit9.BCM88375=5
config add ext_ram_addr_bank_swap_dram5_bit10.BCM88375=9
config add ext_ram_addr_bank_swap_dram5_bit11.BCM88375=17
config add ext_ram_addr_bank_swap_dram5_bit12.BCM88375=13
config add ext_ram_addr_bank_swap_dram5_bit13.BCM88375=12
config add ext_ram_addr_bank_swap_dram5_bit14.BCM88375=14
config add ext_ram_addr_bank_swap_dram5_bit15.BCM88375=8
config add ext_ram_addr_bank_swap_dram5_bit16.BCM88375=0
config add ext_ram_addr_bank_swap_dram5_bit17.BCM88375=2

config add ext_ram_addr_bank_swap_dram6_bit0.BCM88375=11
config add ext_ram_addr_bank_swap_dram6_bit1.BCM88375=2
config add ext_ram_addr_bank_swap_dram6_bit2.BCM88375=17
config add ext_ram_addr_bank_swap_dram6_bit3.BCM88375=3
```

```
config add ext_ram_addr_bank_swap_dram6_bit4.BCM88375=8
config add ext_ram_addr_bank_swap_dram6_bit5.BCM88375=14
config add ext_ram_addr_bank_swap_dram6_bit6.BCM88375=5
config add ext_ram_addr_bank_swap_dram6_bit7.BCM88375=16
config add ext_ram_addr_bank_swap_dram6_bit8.BCM88375=7
config add ext_ram_addr_bank_swap_dram6_bit9.BCM88375=1
config add ext_ram_addr_bank_swap_dram6_bit10.BCM88375=9
config add ext_ram_addr_bank_swap_dram6_bit11.BCM88375=15
config add ext_ram_addr_bank_swap_dram6_bit12.BCM88375=12
config add ext_ram_addr_bank_swap_dram6_bit13.BCM88375=0
config add ext_ram_addr_bank_swap_dram6_bit14.BCM88375=13
config add ext_ram_addr_bank_swap_dram6_bit15.BCM88375=6
config add ext_ram_addr_bank_swap_dram6_bit16.BCM88375=4
config add ext_ram_addr_bank_swap_dram6_bit17.BCM88375=10

config add ext_ram_addr_bank_swap_dram7_bit0.BCM88375=7
config add ext_ram_addr_bank_swap_dram7_bit1.BCM88375=11
config add ext_ram_addr_bank_swap_dram7_bit2.BCM88375=16
config add ext_ram_addr_bank_swap_dram7_bit3.BCM88375=3
config add ext_ram_addr_bank_swap_dram7_bit4.BCM88375=4
config add ext_ram_addr_bank_swap_dram7_bit5.BCM88375=2
config add ext_ram_addr_bank_swap_dram7_bit6.BCM88375=13
config add ext_ram_addr_bank_swap_dram7_bit7.BCM88375=17
config add ext_ram_addr_bank_swap_dram7_bit8.BCM88375=14
config add ext_ram_addr_bank_swap_dram7_bit9.BCM88375=8
config add ext_ram_addr_bank_swap_dram7_bit10.BCM88375=1
config add ext_ram_addr_bank_swap_dram7_bit11.BCM88375=6
config add ext_ram_addr_bank_swap_dram7_bit12.BCM88375=0
config add ext_ram_addr_bank_swap_dram7_bit13.BCM88375=10
config add ext_ram_addr_bank_swap_dram7_bit14.BCM88375=5
config add ext_ram_addr_bank_swap_dram7_bit15.BCM88375=9
config add ext_ram_addr_bank_swap_dram7_bit16.BCM88375=15
config add ext_ram_addr_bank_swap_dram7_bit17.BCM88375=12

#dq swap
config add ext_ram_dq_swap_dram0_byte0_bit0.BCM88375=0
config add ext_ram_dq_swap_dram0_byte0_bit1.BCM88375=4
config add ext_ram_dq_swap_dram0_byte0_bit2.BCM88375=6
config add ext_ram_dq_swap_dram0_byte0_bit3.BCM88375=2
config add ext_ram_dq_swap_dram0_byte0_bit4.BCM88375=3
config add ext_ram_dq_swap_dram0_byte0_bit5.BCM88375=7
config add ext_ram_dq_swap_dram0_byte0_bit6.BCM88375=1
config add ext_ram_dq_swap_dram0_byte0_bit7.BCM88375=5
config add ext_ram_dq_swap_dram0_byte1_bit0.BCM88375=0
config add ext_ram_dq_swap_dram0_byte1_bit1.BCM88375=4
config add ext_ram_dq_swap_dram0_byte1_bit2.BCM88375=2
config add ext_ram_dq_swap_dram0_byte1_bit3.BCM88375=6
config add ext_ram_dq_swap_dram0_byte1_bit4.BCM88375=1
```

```
config add ext_ram_dq_swap_dram0_byte1_bit5.BCM88375=7
config add ext_ram_dq_swap_dram0_byte1_bit6.BCM88375=3
config add ext_ram_dq_swap_dram0_byte1_bit7.BCM88375=5
config add ext_ram_dq_swap_dram0_byte2_bit0.BCM88375=5
config add ext_ram_dq_swap_dram0_byte2_bit1.BCM88375=1
config add ext_ram_dq_swap_dram0_byte2_bit2.BCM88375=7
config add ext_ram_dq_swap_dram0_byte2_bit3.BCM88375=3
config add ext_ram_dq_swap_dram0_byte2_bit4.BCM88375=4
config add ext_ram_dq_swap_dram0_byte2_bit5.BCM88375=2
config add ext_ram_dq_swap_dram0_byte2_bit6.BCM88375=0
config add ext_ram_dq_swap_dram0_byte2_bit7.BCM88375=6
config add ext_ram_dq_swap_dram0_byte3_bit0.BCM88375=5
config add ext_ram_dq_swap_dram0_byte3_bit1.BCM88375=7
config add ext_ram_dq_swap_dram0_byte3_bit2.BCM88375=3
config add ext_ram_dq_swap_dram0_byte3_bit3.BCM88375=0
config add ext_ram_dq_swap_dram0_byte3_bit4.BCM88375=4
config add ext_ram_dq_swap_dram0_byte3_bit5.BCM88375=6
config add ext_ram_dq_swap_dram0_byte3_bit6.BCM88375=1
config add ext_ram_dq_swap_dram0_byte3_bit7.BCM88375=2

config add ext_ram_dq_swap_dram1_byte0_bit0.BCM88375=2
config add ext_ram_dq_swap_dram1_byte0_bit1.BCM88375=0
config add ext_ram_dq_swap_dram1_byte0_bit2.BCM88375=6
config add ext_ram_dq_swap_dram1_byte0_bit3.BCM88375=4
config add ext_ram_dq_swap_dram1_byte0_bit4.BCM88375=3
config add ext_ram_dq_swap_dram1_byte0_bit5.BCM88375=7
config add ext_ram_dq_swap_dram1_byte0_bit6.BCM88375=5
config add ext_ram_dq_swap_dram1_byte0_bit7.BCM88375=1
config add ext_ram_dq_swap_dram1_byte1_bit0.BCM88375=4
config add ext_ram_dq_swap_dram1_byte1_bit1.BCM88375=0
config add ext_ram_dq_swap_dram1_byte1_bit2.BCM88375=2
config add ext_ram_dq_swap_dram1_byte1_bit3.BCM88375=6
config add ext_ram_dq_swap_dram1_byte1_bit4.BCM88375=3
config add ext_ram_dq_swap_dram1_byte1_bit5.BCM88375=1
config add ext_ram_dq_swap_dram1_byte1_bit6.BCM88375=7
config add ext_ram_dq_swap_dram1_byte1_bit7.BCM88375=5
config add ext_ram_dq_swap_dram1_byte2_bit0.BCM88375=6
config add ext_ram_dq_swap_dram1_byte2_bit1.BCM88375=7
config add ext_ram_dq_swap_dram1_byte2_bit2.BCM88375=5
config add ext_ram_dq_swap_dram1_byte2_bit3.BCM88375=3
config add ext_ram_dq_swap_dram1_byte2_bit4.BCM88375=1
config add ext_ram_dq_swap_dram1_byte2_bit5.BCM88375=2
config add ext_ram_dq_swap_dram1_byte2_bit6.BCM88375=0
config add ext_ram_dq_swap_dram1_byte2_bit7.BCM88375=4
config add ext_ram_dq_swap_dram1_byte3_bit0.BCM88375=6
config add ext_ram_dq_swap_dram1_byte3_bit1.BCM88375=3
config add ext_ram_dq_swap_dram1_byte3_bit2.BCM88375=0
config add ext_ram_dq_swap_dram1_byte3_bit3.BCM88375=1
```

```
config add ext_ram_dq_swap_dram1_byte3_bit4.BCM88375=5
config add ext_ram_dq_swap_dram1_byte3_bit5.BCM88375=2
config add ext_ram_dq_swap_dram1_byte3_bit6.BCM88375=4
config add ext_ram_dq_swap_dram1_byte3_bit7.BCM88375=7

config add ext_ram_dq_swap_dram2_byte0_bit0.BCM88375=2
config add ext_ram_dq_swap_dram2_byte0_bit1.BCM88375=4
config add ext_ram_dq_swap_dram2_byte0_bit2.BCM88375=3
config add ext_ram_dq_swap_dram2_byte0_bit3.BCM88375=6
config add ext_ram_dq_swap_dram2_byte0_bit4.BCM88375=1
config add ext_ram_dq_swap_dram2_byte0_bit5.BCM88375=5
config add ext_ram_dq_swap_dram2_byte0_bit6.BCM88375=7
config add ext_ram_dq_swap_dram2_byte0_bit7.BCM88375=0
config add ext_ram_dq_swap_dram2_byte1_bit0.BCM88375=4
config add ext_ram_dq_swap_dram2_byte1_bit1.BCM88375=7
config add ext_ram_dq_swap_dram2_byte1_bit2.BCM88375=5
config add ext_ram_dq_swap_dram2_byte1_bit3.BCM88375=0
config add ext_ram_dq_swap_dram2_byte1_bit4.BCM88375=6
config add ext_ram_dq_swap_dram2_byte1_bit5.BCM88375=2
config add ext_ram_dq_swap_dram2_byte1_bit6.BCM88375=3
config add ext_ram_dq_swap_dram2_byte1_bit7.BCM88375=1
config add ext_ram_dq_swap_dram2_byte2_bit0.BCM88375=6
config add ext_ram_dq_swap_dram2_byte2_bit1.BCM88375=5
config add ext_ram_dq_swap_dram2_byte2_bit2.BCM88375=3
config add ext_ram_dq_swap_dram2_byte2_bit3.BCM88375=1
config add ext_ram_dq_swap_dram2_byte2_bit4.BCM88375=2
config add ext_ram_dq_swap_dram2_byte2_bit5.BCM88375=4
config add ext_ram_dq_swap_dram2_byte2_bit6.BCM88375=7
config add ext_ram_dq_swap_dram2_byte2_bit7.BCM88375=0
config add ext_ram_dq_swap_dram2_byte3_bit0.BCM88375=1
config add ext_ram_dq_swap_dram2_byte3_bit1.BCM88375=0
config add ext_ram_dq_swap_dram2_byte3_bit2.BCM88375=4
config add ext_ram_dq_swap_dram2_byte3_bit3.BCM88375=7
config add ext_ram_dq_swap_dram2_byte3_bit4.BCM88375=3
config add ext_ram_dq_swap_dram2_byte3_bit5.BCM88375=5
config add ext_ram_dq_swap_dram2_byte3_bit6.BCM88375=6
config add ext_ram_dq_swap_dram2_byte3_bit7.BCM88375=2

config add ext_ram_dq_swap_dram3_byte0_bit0.BCM88375=4
config add ext_ram_dq_swap_dram3_byte0_bit1.BCM88375=3
config add ext_ram_dq_swap_dram3_byte0_bit2.BCM88375=6
config add ext_ram_dq_swap_dram3_byte0_bit3.BCM88375=7
config add ext_ram_dq_swap_dram3_byte0_bit4.BCM88375=1
config add ext_ram_dq_swap_dram3_byte0_bit5.BCM88375=0
config add ext_ram_dq_swap_dram3_byte0_bit6.BCM88375=5
config add ext_ram_dq_swap_dram3_byte0_bit7.BCM88375=2
config add ext_ram_dq_swap_dram3_byte1_bit0.BCM88375=4
config add ext_ram_dq_swap_dram3_byte1_bit1.BCM88375=0
```

```
config add ext_ram_dq_swap_dram3_byte1_bit2.BCM88375=2
config add ext_ram_dq_swap_dram3_byte1_bit3.BCM88375=7
config add ext_ram_dq_swap_dram3_byte1_bit4.BCM88375=5
config add ext_ram_dq_swap_dram3_byte1_bit5.BCM88375=6
config add ext_ram_dq_swap_dram3_byte1_bit6.BCM88375=1
config add ext_ram_dq_swap_dram3_byte1_bit7.BCM88375=3
config add ext_ram_dq_swap_dram3_byte2_bit0.BCM88375=6
config add ext_ram_dq_swap_dram3_byte2_bit1.BCM88375=0
config add ext_ram_dq_swap_dram3_byte2_bit2.BCM88375=5
config add ext_ram_dq_swap_dram3_byte2_bit3.BCM88375=2
config add ext_ram_dq_swap_dram3_byte2_bit4.BCM88375=4
config add ext_ram_dq_swap_dram3_byte2_bit5.BCM88375=7
config add ext_ram_dq_swap_dram3_byte2_bit6.BCM88375=1
config add ext_ram_dq_swap_dram3_byte2_bit7.BCM88375=3
config add ext_ram_dq_swap_dram3_byte3_bit0.BCM88375=4
config add ext_ram_dq_swap_dram3_byte3_bit1.BCM88375=5
config add ext_ram_dq_swap_dram3_byte3_bit2.BCM88375=6
config add ext_ram_dq_swap_dram3_byte3_bit3.BCM88375=3
config add ext_ram_dq_swap_dram3_byte3_bit4.BCM88375=0
config add ext_ram_dq_swap_dram3_byte3_bit5.BCM88375=2
config add ext_ram_dq_swap_dram3_byte3_bit6.BCM88375=7
config add ext_ram_dq_swap_dram3_byte3_bit7.BCM88375=1

config add ext_ram_dq_swap_dram4_byte0_bit0.BCM88375=1
config add ext_ram_dq_swap_dram4_byte0_bit1.BCM88375=5
config add ext_ram_dq_swap_dram4_byte0_bit2.BCM88375=2
config add ext_ram_dq_swap_dram4_byte0_bit3.BCM88375=0
config add ext_ram_dq_swap_dram4_byte0_bit4.BCM88375=3
config add ext_ram_dq_swap_dram4_byte0_bit5.BCM88375=4
config add ext_ram_dq_swap_dram4_byte0_bit6.BCM88375=6
config add ext_ram_dq_swap_dram4_byte0_bit7.BCM88375=7
config add ext_ram_dq_swap_dram4_byte1_bit0.BCM88375=5
config add ext_ram_dq_swap_dram4_byte1_bit1.BCM88375=1
config add ext_ram_dq_swap_dram4_byte1_bit2.BCM88375=7
config add ext_ram_dq_swap_dram4_byte1_bit3.BCM88375=3
config add ext_ram_dq_swap_dram4_byte1_bit4.BCM88375=6
config add ext_ram_dq_swap_dram4_byte1_bit5.BCM88375=2
config add ext_ram_dq_swap_dram4_byte1_bit6.BCM88375=0
config add ext_ram_dq_swap_dram4_byte1_bit7.BCM88375=4
config add ext_ram_dq_swap_dram4_byte2_bit0.BCM88375=5
config add ext_ram_dq_swap_dram4_byte2_bit1.BCM88375=4
config add ext_ram_dq_swap_dram4_byte2_bit2.BCM88375=7
config add ext_ram_dq_swap_dram4_byte2_bit3.BCM88375=1
config add ext_ram_dq_swap_dram4_byte2_bit4.BCM88375=3
config add ext_ram_dq_swap_dram4_byte2_bit5.BCM88375=6
config add ext_ram_dq_swap_dram4_byte2_bit6.BCM88375=2
config add ext_ram_dq_swap_dram4_byte2_bit7.BCM88375=0
config add ext_ram_dq_swap_dram4_byte3_bit0.BCM88375=5
```

```
config add ext_ram_dq_swap_dram4_byte3_bit1.BCM88375=7
config add ext_ram_dq_swap_dram4_byte3_bit2.BCM88375=3
config add ext_ram_dq_swap_dram4_byte3_bit3.BCM88375=2
config add ext_ram_dq_swap_dram4_byte3_bit4.BCM88375=1
config add ext_ram_dq_swap_dram4_byte3_bit5.BCM88375=6
config add ext_ram_dq_swap_dram4_byte3_bit6.BCM88375=0
config add ext_ram_dq_swap_dram4_byte3_bit7.BCM88375=4

config add ext_ram_dq_swap_dram5_byte0_bit0.BCM88375=5
config add ext_ram_dq_swap_dram5_byte0_bit1.BCM88375=1
config add ext_ram_dq_swap_dram5_byte0_bit2.BCM88375=2
config add ext_ram_dq_swap_dram5_byte0_bit3.BCM88375=0
config add ext_ram_dq_swap_dram5_byte0_bit4.BCM88375=3
config add ext_ram_dq_swap_dram5_byte0_bit5.BCM88375=4
config add ext_ram_dq_swap_dram5_byte0_bit6.BCM88375=6
config add ext_ram_dq_swap_dram5_byte0_bit7.BCM88375=7
config add ext_ram_dq_swap_dram5_byte1_bit0.BCM88375=3
config add ext_ram_dq_swap_dram5_byte1_bit1.BCM88375=5
config add ext_ram_dq_swap_dram5_byte1_bit2.BCM88375=0
config add ext_ram_dq_swap_dram5_byte1_bit3.BCM88375=1
config add ext_ram_dq_swap_dram5_byte1_bit4.BCM88375=2
config add ext_ram_dq_swap_dram5_byte1_bit5.BCM88375=4
config add ext_ram_dq_swap_dram5_byte1_bit6.BCM88375=6
config add ext_ram_dq_swap_dram5_byte1_bit7.BCM88375=7
config add ext_ram_dq_swap_dram5_byte2_bit0.BCM88375=0
config add ext_ram_dq_swap_dram5_byte2_bit1.BCM88375=2
config add ext_ram_dq_swap_dram5_byte2_bit2.BCM88375=1
config add ext_ram_dq_swap_dram5_byte2_bit3.BCM88375=5
config add ext_ram_dq_swap_dram5_byte2_bit4.BCM88375=6
config add ext_ram_dq_swap_dram5_byte2_bit5.BCM88375=4
config add ext_ram_dq_swap_dram5_byte2_bit6.BCM88375=3
config add ext_ram_dq_swap_dram5_byte2_bit7.BCM88375=7
config add ext_ram_dq_swap_dram5_byte3_bit0.BCM88375=2
config add ext_ram_dq_swap_dram5_byte3_bit1.BCM88375=6
config add ext_ram_dq_swap_dram5_byte3_bit2.BCM88375=3
config add ext_ram_dq_swap_dram5_byte3_bit3.BCM88375=0
config add ext_ram_dq_swap_dram5_byte3_bit4.BCM88375=1
config add ext_ram_dq_swap_dram5_byte3_bit5.BCM88375=5
config add ext_ram_dq_swap_dram5_byte3_bit6.BCM88375=4
config add ext_ram_dq_swap_dram5_byte3_bit7.BCM88375=7

config add ext_ram_dq_swap_dram6_byte0_bit0.BCM88375=0
config add ext_ram_dq_swap_dram6_byte0_bit1.BCM88375=1
config add ext_ram_dq_swap_dram6_byte0_bit2.BCM88375=5
config add ext_ram_dq_swap_dram6_byte0_bit3.BCM88375=4
config add ext_ram_dq_swap_dram6_byte0_bit4.BCM88375=6
config add ext_ram_dq_swap_dram6_byte0_bit5.BCM88375=7
config add ext_ram_dq_swap_dram6_byte0_bit6.BCM88375=2
```

```
config add ext_ram_dq_swap_dram6_byte0_bit7.BCM88375=3
config add ext_ram_dq_swap_dram6_byte1_bit0.BCM88375=1
config add ext_ram_dq_swap_dram6_byte1_bit1.BCM88375=5
config add ext_ram_dq_swap_dram6_byte1_bit2.BCM88375=0
config add ext_ram_dq_swap_dram6_byte1_bit3.BCM88375=3
config add ext_ram_dq_swap_dram6_byte1_bit4.BCM88375=2
config add ext_ram_dq_swap_dram6_byte1_bit5.BCM88375=4
config add ext_ram_dq_swap_dram6_byte1_bit6.BCM88375=7
config add ext_ram_dq_swap_dram6_byte1_bit7.BCM88375=6
config add ext_ram_dq_swap_dram6_byte2_bit0.BCM88375=1
config add ext_ram_dq_swap_dram6_byte2_bit1.BCM88375=5
config add ext_ram_dq_swap_dram6_byte2_bit2.BCM88375=7
config add ext_ram_dq_swap_dram6_byte2_bit3.BCM88375=3
config add ext_ram_dq_swap_dram6_byte2_bit4.BCM88375=6
config add ext_ram_dq_swap_dram6_byte2_bit5.BCM88375=0
config add ext_ram_dq_swap_dram6_byte2_bit6.BCM88375=4
config add ext_ram_dq_swap_dram6_byte2_bit7.BCM88375=2
config add ext_ram_dq_swap_dram6_byte3_bit0.BCM88375=3
config add ext_ram_dq_swap_dram6_byte3_bit1.BCM88375=7
config add ext_ram_dq_swap_dram6_byte3_bit2.BCM88375=1
config add ext_ram_dq_swap_dram6_byte3_bit3.BCM88375=5
config add ext_ram_dq_swap_dram6_byte3_bit4.BCM88375=2
config add ext_ram_dq_swap_dram6_byte3_bit5.BCM88375=0
config add ext_ram_dq_swap_dram6_byte3_bit6.BCM88375=6
config add ext_ram_dq_swap_dram6_byte3_bit7.BCM88375=4

config add ext_ram_dq_swap_dram7_byte0_bit0.BCM88375=5
config add ext_ram_dq_swap_dram7_byte0_bit1.BCM88375=1
config add ext_ram_dq_swap_dram7_byte0_bit2.BCM88375=0
config add ext_ram_dq_swap_dram7_byte0_bit3.BCM88375=4
config add ext_ram_dq_swap_dram7_byte0_bit4.BCM88375=6
config add ext_ram_dq_swap_dram7_byte0_bit5.BCM88375=7
config add ext_ram_dq_swap_dram7_byte0_bit6.BCM88375=2
config add ext_ram_dq_swap_dram7_byte0_bit7.BCM88375=3
config add ext_ram_dq_swap_dram7_byte1_bit0.BCM88375=6
config add ext_ram_dq_swap_dram7_byte1_bit1.BCM88375=0
config add ext_ram_dq_swap_dram7_byte1_bit2.BCM88375=5
config add ext_ram_dq_swap_dram7_byte1_bit3.BCM88375=7
config add ext_ram_dq_swap_dram7_byte1_bit4.BCM88375=2
config add ext_ram_dq_swap_dram7_byte1_bit5.BCM88375=4
config add ext_ram_dq_swap_dram7_byte1_bit6.BCM88375=3
config add ext_ram_dq_swap_dram7_byte1_bit7.BCM88375=1
config add ext_ram_dq_swap_dram7_byte2_bit0.BCM88375=6
config add ext_ram_dq_swap_dram7_byte2_bit1.BCM88375=4
config add ext_ram_dq_swap_dram7_byte2_bit2.BCM88375=3
config add ext_ram_dq_swap_dram7_byte2_bit3.BCM88375=7
config add ext_ram_dq_swap_dram7_byte2_bit4.BCM88375=1
config add ext_ram_dq_swap_dram7_byte2_bit5.BCM88375=5
```

```
config add ext_ram_dq_swap_dram7_byte2_bit6.BCM88375=2
config add ext_ram_dq_swap_dram7_byte2_bit7.BCM88375=0
config add ext_ram_dq_swap_dram7_byte3_bit0.BCM88375=3
config add ext_ram_dq_swap_dram7_byte3_bit1.BCM88375=0
config add ext_ram_dq_swap_dram7_byte3_bit2.BCM88375=4
config add ext_ram_dq_swap_dram7_byte3_bit3.BCM88375=2
config add ext_ram_dq_swap_dram7_byte3_bit4.BCM88375=5
config add ext_ram_dq_swap_dram7_byte3_bit5.BCM88375=7
config add ext_ram_dq_swap_dram7_byte3_bit6.BCM88375=1
config add ext_ram_dq_swap_dram7_byte3_bit7.BCM88375=6

##Dram HW properties
config add ext_ram_present.BCM88375=8
config add dram_type_DDR4_MICRON_Y4016AABG_JD_F_4GBIT=1
config add ext_ram_freq.BCM88375=1600
config add ext_ram_abi.BCM88375=0
config add ext_ram_write_dbi.BCM88375=0
config add ext_ram_read_dbi.BCM88375=0
config add ext_ram_write_crc.BCM88375=0
config add ext_ram_read_crc.BCM88375=0
config add ext_ram_cmd_par_latency.BCM88375=6
config add ext_ram_type.BCM88375=DDR4
config add ext_ram_total_size.BCM88375=8000
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88375_board.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_cell.h
*
* MODULE PREFIX:  soc_tmccell
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88375_a0.c
* Purpose:     bcm88375_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88375_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idxres_fl.h,v 1.1.2.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Indexed resource management, using banked lists
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/idxres_fl.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_hw_simulator.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_hw_simulator.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wlan.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* WLAN initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_iproc.c,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_iproc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BwpEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0BwpEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains cosq module definitions internal to the BCM library.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x/cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ilmac.c,v 1.1.2.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 ILMAC Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ilmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQueueTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: intr.c,v 1.87 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Interrupt Handlers
*
* NOTE: These handlers are called from an interrupt context, so their
*       actions are restricted accordingly.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       bcm_xmod.c
* Purpose:     Support Broadcom BCP8806X external PHY.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/bcm_xmod.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_functions.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
 ******************************************************************************
 Copyright 2015-2017 Broadcom Corporation

 This program is the proprietary software of Broadcom Corporation and/or its licensors,
 and may only be used, duplicated, modified or distributed pursuant to the terms and
 conditions of a separate, written license agreement executed between you and
 Broadcom (an "Authorized License").Except as set forth in an Authorized License,
 Broadcom grants no license (express or implied),right to use, or waiver of any kind
 with respect to the Software, and Broadcom expressly reserves all rights in and to
 the Software and all intellectual property rights therein.
 IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
 WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

 Except as expressly set forth in the Authorized License,

 1. This program, including its structure, sequence and organization, constitutes the
    valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
    protect the confidentiality thereof,and to use this information only in connection
    with your use of Broadcom integrated circuit products.

 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND
```

WITH
ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/kbp_hb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/kbp_hb.h
No license file was found, but licenses were detected in source scan.

/* $Id: prom.c,v 1.3 2011/07/21 16:14:25 yshtil Exp $
* Copyright 2009, Broadcom Corporation
* All Rights Reserved.

* This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
* the contents of this file may not be disclosed to third parties, copied or
* duplicated in any form, in whole or in part, without the prior written
* permission of Broadcom Corporation.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/prom.c
No license file was found, but licenses were detected in source scan.

/*

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dispatch.h
* Purpose: dispatch table definition
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dispatch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_occupation_bitmap.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_occupation_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: storm.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/storm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: srds_api_uc_common.h 1377 2016-03-14 23:19:21Z cvazquez $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                  *
*      Broadcom Corporation                                     *
*      5300 California Avenue                                   *
*      Irvine, CA  92617                                       *
*                                                    *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common2/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port_ability.h,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port modes.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/port_ability.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ucodemgr.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*    Ucode download manager defintions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/ucodemgr.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600XbXcfgRemapEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600XbXcfgRemapEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
*  Copyright 2001, Broadcom Corporation
*   All Rights Reserved.

*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/vx_osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/vx_osl.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ramon_mbist.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_mbist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dport.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dport.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_line_tevb.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_line_tevb.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_mpls.c,v Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: MPLS APIs
*
* Purpose:
*     Warm boot support for MPLS API for Caladan3 Packet Processor devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: falcon_api_uc_common.h 924 2015-02-24 18:08:11Z eroes $  *
*                                                                                        *
*  Description   :  Defines and Enumerations required by Falcon ucode            *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*     Broadcom Corporation                                                       *
*     5300 California Avenue                                                     *
*     Irvine, CA  92617                                                          *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                        *
*****************************************************************************************
```

```
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: traffic.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       traffic.h
* Purpose:     Defines and types required for traffic test.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/traffic.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: defragment.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Provides generic routines for defragmenting member tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/defragment.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_cosq.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: switch.c,v 1.693 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.c
* Purpose:     BCM definitions  for bcm_switch_control and
*              bcm_switch_port_control functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5482.c,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5482.c
* Purpose:     PHY driver for BCM5482 and BCM5482S
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports   Media                        MAC Interface
*     5482    2       Copper, Serdes               SGMII
*     5482S   2       Copper, Serdes               SGMII
*
* Workarounds:
*
* References:
* MCS5482S-DS200R    BCM5482S Preliminary Data Sheet
* 5482S-AN103-R      BCM5482S Configuration Guide for SFP Module with
*                    Optical/Copper Applications
* 5482S-ES101-R      BCM5482S Errata Sheet
* 5482_5482S-AN102-R Designing with BCM5482/BCM5482S
*
*   +----------+   +---------------------------+
*   |         |  |  SGMII     +->Copper      |<--> Magnetic
*   |  SGMII   |<->| (Primary <-+             |
*   | (SerDes) |  |  SerDes)   |             |
*   |         |  |           +->SGMII/      |<--> (PHY)SFP (10/100/1000)
*   +----------+   |              1000BASE-X/ |<--> 1000BASE-X SFP
*       MAC        |              100BASE-FX  |<--> 100BASE-FX SFP
*                  |             (Secondary  |
*                  |              SerDes)    |
*                  +---------------------------+
*                           5482S
*
```

```
* Notes:
* 1. Media auto-negotiation and MAC SGMII auto-negotiation must be enabled
*    to automatically detect between
*    SGMII SFP and 1000BASE-X SFP.
* 2. Auto detecting 100FX SFP is not supported.
* 3. To use 100BASE-FX,
*       First, insert the 100BASE-FX SFP and connect the fiber cable.
*       The PHY will detect energy on fiber side and switch to fiber mode.
*       Second, disable autoneg mode.
*       Third, force speed to 100. Since the PHY is in fiber mode, forcing
*       speed to 100 will put the PHY to 100BASE-FX mode.
* 4. Forcing speed on the 5482S PHY with SGMII SFP is not supported in this
*    driver. To use SGMII SFP, autoneg must be enabled.
* 5. Some SFP continues to provide energy to the PHY even when the media
*    connected is removed. For those SFPs, the PHY will not switch to
*    copper medium in combo mode even when there is no link on the fiber
*    medium because the PHY is not switching to copper mode.
* 6. If the MAC/SerDes attached to the PHY support SGMII autoneg, SGMII
*    autoneg should be enabled with "config add phy_sgmii_autoneg_ge0=1".
* 7. If the SFP module report loss of signal instead of signal detect, the
*    signal detect should be inverted with "config add phy_fiber_detect=-2".
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5482.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: common.c,v 1.160 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    common.c
* Purpose: Manages resources shared across multiple modules
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/common.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_line_card.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_line_card.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_sw_db.h,v 1.2.10.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/soc_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rlink.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rlink.h
* Purpose:    RLINK protocol interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/rlink.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod16_cfg_seq.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : tefmod16_cfg_seq.c
* Description: c functions implementing Tier1s for TEFMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_cfg_seq.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu_cint.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cmu_cint.c: Guadalupe2k V1.3 CMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_cmu_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: merlin_koi_enum.h 925 2015-02-24 23:23:58Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy82109.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy82109.c
* Purpose:     Support for Huracan external PHY
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82109.c
No license file was found, but licenses were detected in source scan.

```
# $Id: hr3_led.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script for controling the LED on HR3 SVK/REF board
#

# Enable LED matrix mode (RDB_Reg 0x85f) for PHY54292
if  $?bcm956160k \
   "phy raw 0x1 0x17 0xf7e; \
    phy raw 0x1 0x15 0x0000; \
    phy raw 0x1 0x1e 0x85f; \
    phy raw 0x1 0x1f 0x23; \
    phy raw 0x1 0x1e 0x87; \
    phy raw 0x1 0x1f 0x8000; \
    phy raw 0x13 0x17 0xf7e; \
    phy raw 0x13 0x15 0x0000; \
    phy raw 0x13 0x1e 0x85f; \
    phy raw 0x13 0x1f 0x23; \
    phy raw 0x13 0x1e 0x87; \
    phy raw 0x13 0x1f 0x8000;"

if  $?bcm956160k || $?bcm953434k || $?bcm956164k \
   "phy raw 0xA 0x17 0xf7e; \
    phy raw 0xA 0x15 0x0000; \
    phy raw 0xA 0x1e 0x85f; \
    phy raw 0xA 0x1f 0x23; \
    phy raw 0xA 0x1e 0x87; \
    phy raw 0xA 0x1f 0x8000;"

if  $?bcm956166r \
   "phy raw 0x9 0x17 0xf7e; \
    phy raw 0x9 0x15 0x0000; \
    phy raw 0x9 0x1e 0x85f; \
    phy raw 0x9 0x1f 0x23; \
    phy raw 0x9 0x1e 0x87; \
```

```
    phy raw 0x9 0x1f 0x8000;"

# Enable SER2PAR LED for A0 on Non-BCM956160R board
if  !$?bcm956160r && !"expr $pcirev + 0 == 0x1" \
   "m TOP_PARALLEL_LED_CTRL LED_SER2PAR_SEL=1;"

# Default LEDuP code: bcm956160k.hex (SER2PAR)
if  !$?bcm956160r && !"expr $pcirev + 0 == 0x1" \
   "local ledcode ' \
    02 11 28 60 E0 67 45 06 E0 90 D2 09 74 02 02 1A \
    28 60 E0 67 45 06 E0 80 D2 22 74 10 02 02 28 60 \
    E0 67 45 06 E0 80 D2 06 74 1E 02 12 28 60 E0 67 \
    45 06 E0 80 D2 16 74 2C 3A 60 12 A0 FE E0 05 0A \
    00 71 4C 77 59 32 08 97 71 4C 77 59 22 01 87 22 \
    01 87 22 00 87 22 00 87 57 22 00 87 22 00 87 22 \
    00 87 22 00 87 57 00 00 00 00 00 00 00 00 00 00'"

# BCM956166R LEDuP code (SER2PAR)
if  $?bcm956166r && !"expr $pcirev + 0 == 0x1" \
   "local ledcode ' \
    02 11 28 60 E0 67 40 06 E0 90 D2 09 74 02 02 1A \
    28 60 E0 67 40 06 E0 80 D2 22 74 10 02 00 67 6B \
    80 D2 06 74 1E 02 25 28 60 E0 67 40 06 E0 90 D2 \
    21 74 27 3A 60 12 A0 FE E0 05 0A 00 71 47 77 63 \
    32 08 97 71 47 77 63 16 E0 DA 22 71 4F 77 5C 22 \
    01 87 22 01 87 22 00 87 22 00 87 57 22 00 87 22 \
    00 87 57 16 E0 DA 22 71 6B 77 78 22 00 87 22 00 \
    87 22 00 87 22 00 87 57 22 01 87 22 01 87 57 00'"

# BCM956160R LEDuP code
## master unit: bcm956160r_opt6.hex
if  $?bcm956160r && $?unit0  \
   "local ledcode ' \
    02 24 28 60 E1 67 63 67 50 06 E1 90 D2 21 74 02 \
    02 15 28 60 E1 67 74 06 E1 90 D2 11 74 12 02 05 \
    28 60 E1 67 74 06 E1 90 D2 01 74 20 02 21 28 60 \
    E1 67 63 67 50 06 E1 90 D2 19 74 2E 02 0A 28 60 \
    E1 67 63 67 50 06 E1 80 D2 12 74 3E 86 E0 3A 36 \
    12 A0 FE E1 05 0A 00 71 8C 77 90 28 32 08 97 71 \
    8C 77 90 28 32 00 32 01 B7 97 75 90 16 E0 CA 05 \
    74 8C 77 90 28 32 08 97 75 94 32 00 32 01 B7 97 \
    71 84 77 9B 16 E0 CA 05 74 9B 77 94 22 00 87 57 \
    22 01 87 57 22 01 87 22 01 87 57 22 00 87 22 00 \
    87 57 00 00 00 00 00 00 00 00 00 00 00 00 00 00'"

## slave unit: bcm956160r_opt6a.hex
if  $?bcm956160r && $?unit1  \
   "local ledcode ' \
```

```
   02 28 28 60 E1 67 63 67 50 06 E1 90 D2 25 74 02 \
   02 15 28 60 E1 67 74 06 E1 90 D2 11 74 12 02 05 \
   28 60 E1 67 74 06 E1 90 D2 01 74 20 02 21 28 60 \
   E1 67 63 67 50 06 E1 90 D2 19 74 2E 02 0A 28 60 \
   E1 67 63 67 50 06 E1 80 D2 12 74 3E 86 E0 3A 36 \
   12 A0 FE E1 05 0A 00 71 8C 77 90 28 32 08 97 71 \
   8C 77 90 28 32 00 32 01 B7 97 75 90 16 E0 CA 05 \
   74 8C 77 90 28 32 08 97 75 94 32 00 32 01 B7 97 \
   71 84 77 9B 16 E0 CA 05 74 9B 77 94 22 00 87 57 \
   22 01 87 57 22 01 87 22 01 87 57 22 00 87 22 00 \
   87 57 00 00 00 00 00 00 00 00 00 00 00 00 00 00'''

# Download LED code into LED processor and enable (if applicable).
if $?feature_led_proc && $?ledcode && !$?simulator \
  "led prog $ledcode; \
   led auto on; led start"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hr3_led.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.47 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:     PORT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_system.h,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_system.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etc_robo.h,v 1.9 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/etc_robo.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmWredCfgTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredCfgTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: enet.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/oam/enet.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: field.c,v 1.192 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field.c
* Purpose: Field Processor installation functions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/raptor/field.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: soc_dnx_implemenation_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dnx_implementation_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCRT.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibCRT.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: support.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board_int/support.h
* Purpose:    board support internal library interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board_int/support.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fb4regex.c
* Purpose:    Internal regex function prototypes.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/fb4regex.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fifo_type.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF FIFO TYPE
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/dnxf_fifo_type.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  eagle_phy_1_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: eagle_phy_1_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without                *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                               *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                                *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.c,v 1.1113 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* StrataSwitch driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* This software simulator can emulate basic register access for the
* Viper SerDes PHY.
*
* The simulator suppor both IEEE clause 22/45 access and Broadcom
* proprietary SBUS access.
*
* Clause 22 address format:
*   Bits [4:0]   : Clause 22 register address
*   Bits [31:5]  : Unused
*
* Clause 45 address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [20:16] : Clause 45 DEVAD
*   Bits [23:21] : Clause 45 indicator (001b)
*   Bits [31:24] : Unused
*
* SBUS address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [18:16] : Lane control
*   Bits [26:19] : Lane multicast (old format)
*   Bits [31:27] : Clause 45 DEVAD
*
* The upper 16 bits if the SBUS address format is identical to the
* Broadcom Address Extension Register (AER) format.
*
* The clause 45 indicator serves two purposes which is to ensure that
* the upper 16 bits are never zero for a clause 45 address, but it
* also makes it possible for the PHY bus driver to distinguish
* between a clause 45 DEVAD and the old AER multicast format.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/sim/chip/qtce_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/viper_sim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
-----------------------------------------------------------------------------
     Notes on StrataSwitch Endian Modes
   Curt McDowell, Broadcom Corp. 01-10-00
    Last Updated: 02-07-00
-----------------------------------------------------------------------------

1. Data Transfer Types

Endian issues affect the following types of data transfer that are used
in the StrataSwitch:

 PCI Config space
  Generates special bus cycles used to configure PCI
  parameters such as Base Address Registers.

 PCI Memory space
  Used to access CMIC registers, including the S-Channel
  message buffer and ARL message buffers.  Sometimes
  referred to as PIO (programmed I/O).

 Packet DMA
  Refers to the CMIC transferring network packet data
  into or out of host memory.

 Descriptor DMA
  Refers to the CMIC fetching descriptors out of host
  memory.  The descriptors contain control and status
  words for packet DMA.

 Counter DMA
  Refers to the CMIC mirroring the contents of MAC
  packet statistics counters into host memory.

 ARL Message DMA
  Refers to the CMIC mirroring S-Channel ARL insert/delete
  messages into host memory.
```

Non-packet DMA
Used collectively to refer to Descriptor, Counter,
and ARL Message DMA.

2. Swapping Requirements

Regardless of CPU endianness, Packet DMA data always appears in host memory in big-endian format. Packet DMA data does not have a 32-bit organization and is viewed as a byte stream. Historically, software is always written to expect big-endian format when accessing a network byte stream. Whenever software accesses a 2-byte or 4-byte quantity in the Packet DMA data, it uses ntohs() and ntohl() appropriately to perform the swap at that time.

It happens that all data types except Packet DMA are most naturally accessed by the processor using 32-bit loads and stores. CMIC registers, descriptor words, counter values, and ARL message contents have a 32-bit organization. When software running on the host CPU performs 32-bit accesses to this little-endian data, the results are proper on a little-endian host CPU, but must be byte-swapped on a big-endian host CPU.

3. Swapping Reduction Features (BCM5600N2 and higher)

For performance reasons, it would be convenient to reduce the amount of swapping a big-endian CPU has to perform when accessing PCI Memory space. The CMIC has a feature allowing it to be configured to automatically swap accesses to PCI Memory space. This feature (ENDIAN_SELECT.PIO) can be enabled at initialization time on a big-endian processor, and then software can read and write PCI Memory space without worrying about swapping. Note that this also causes PCI Memory accesses to appear swapped on a PCI bus analyzer.

For performance reasons, it would also be convenient to reduce the amount of swapping required for Non-packet DMA. The CMIC has a feature allowing it to be configured to automatically swap Non-packet DMA data. This feature (ENDIAN_SELECT.DMA_OTHER) can be enabled at initialization time on a big-endian processor, and then software can read and write Non-packet DMA data without worrying about swapping.

When the CMIC writes big-endian Packet DMA data onto the little-endian PCI bus, it always performs endian swapping. That is required for the packet data to finally appear as big-endian in host memory. However, the CMIC has a feature allowing it to be configured to not swap packet data. This feature (ENDIAN_SELECT.DMA_PACKET) must be enabled ONLY if a little-endian PCI bus is not being used, and instead CMIC is connected directly to a 32-bit big-endian processor bus. Future revisions of the StrataSwitch may support a direct interface to a big-endian bus.

The CMIC never swaps accesses to PCI Config space because PCI Config accesses are not done often enough to worry about performance. Also, to do so might confuse PCI bus analyzers.

The following table indicates the swapping required and the preferred settings of the ENDIAN_SELECT bits for each unique case:

	PCI LE CPU	PCI BE CPU	Coldfire* BE CPU
PCI Config	no swap	no swap	N/A
PCI Memory	no swap	swap	swap
Non-packet DMA	no swap	swap	swap
Packet DMA	swap	swap	no swap

ENDIAN_SELECT.PIO	0	1	1
ENDIAN_SELECT.DMA_PACKET	0	0	1
ENDIAN_SELECT.DMA_OTHER	0	1	1

*Note: Coldfire refers only to a proposed native Coldfire bus interface.
When Coldfire is used with a PCI bridge, PCI BE CPU applies.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/endian.txt
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53280_a0.c
* Purpose: bcm53280_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53280_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       portctrl_internal.h
* Purpose:     SDK SOC Port Control Glue Layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/portctrl_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_ocm.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* lrp.h : LRP defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_ocm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_allocator.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: ALLOCATOR APIs
*
* Purpose:
*     ALLOCATOR API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_allocator.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_cnt.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_cnt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_pkt.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp32BitRewrite.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIp32BitRewrite.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Auth (802.1x) CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/auth.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_igmp_example.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_igmp_example.c
* Purpose: Example shows how to configure IGMP snooping and IP compatible-MC groups to
* local copies.
* The following CINT tries to apply IGMP and IP compatible-MC to local copies on
* regular Router with packet IPoE and Overlay such as VXLAN and L2VPN such as VPLS.
```

```
* Note: Overlay and L2VPN traffic is supported from ARAD+.

* Test IGMP snooping for IGMPoIPoETH packets
*                    IGMPoIPoETHoVXLANoUDPoIPoEth packets
*                      after vxlan tunnel termination
*                    IGMPoIPoETHoPWEoMPLSoEth packets
*                      after vpls tunnel termination
* Test local copies multicast for IPoEth packets.
*                    IPoETHoVXLANoUDPoIPoEth packets
*                      after vxlan tunnel termination
*                    IPoETHoPWEoMPLSoEth packets
*                      after vpls tunnel termination

* Calling sequence:
*    IGMP snooping:
*     - Configure device to support igmp on incoming port
*       calling bcm_switch_control_port_set(unit, port, bcmSwitchIgmpQueryFlood, val);
*     - Configure trap: trap IGMP memberships type packets.
*       bcmRxTrapIgmpMembershipQuery trap at the link layer block (for IPoEth packets)
*       bcmRxTrapFrwrdIgmpMembershipQuery trap at the forwarding block, after tunnel termination. (for
vxlan/vpls packets after tunnel termination)
*       calling bcm_rx_trap_type_create to create the trap type calling bcm_rx_trap_set to create the trap
*
*    multicast:
*     - Configure device to support multicast
*         calling bcm_switch_control_set(unit,bcmSwitchL3McastL2,1);
*     - simulate igmp to create multicast group and add port:
*       - open a new multicast group
*         calling bcm_multicast_create
*       - add port and vlan to the multicast group:
*         calling bcm_multicast_ingress_add
*       - create the multicast group
*         calling bcm_ipmc_add

* Traffic:
* IGMP snooping
* IPoETH: send packet with IGMP Membership query.
* IpoETH over tunnel: send packet with IGMP Membership query.
* packets are trapped at LL block (for IPoETH) and at Forwarding block (for IPoETH o tunnel)
  and sent as is to out_port
* multicast
* IPoETH: send multicast compatible packet. multicast group: 0.0.1.2 (28 LSB of 224.0.1.2)
* IPoETHoTunnel: packets arrive from the core. Tunnel is terminated. then check that the
* remaining packet is multicast compatible. The packet is duplicated to all members of the
* group (3 packets are sent)
*
* How to run: IGMP snooping IGMPoIPoETH
* BCM> cint ../../../../src/examples/dpp/cint_igmp_example.c
```

```
* BCM> cint
* int unit=0;
* int in_port=200;
* int out_port=201;
* igmp_snooping_enable(unit,in_port,out_port,1);
* exit;
* BCM> tx 1 PSRC=200
*
DATA=0x01005E000102000205000000008004500001C000000004002D92AC0A8000BE00001021164EE9B00000
000000102030405060708090A0B0C0D0E0F101112131415000000000000000000000000000000000010000020000
00000000000000000000
* expected results:
* - packet is sent to port 201 (diag pp FDT)
* - add a vlan header (outgoing packet = incoming packet + 4B)
*
*
* How to run: IGMP multicast for IPoETH packet
* BCM> cint ../../../../src/examples/dpp/cint_igmp_example.c
* BCM> cint
* int unit=0;
* int in_port=200;
* int out_port=201;
* int out_port2=202;
* int vsi=4000;
* igmp_mc_example(unit,in_port,out_port,out_port2, vsi,igmp_example_ipoeth_my_mac_get());
* bcm_port_untagged_vlan_set(unit,in_port,vsi);
* exit;
* tx 1 PSRC=200
DATA=0x01005E000102000205000000008004500000B60000000040FFD793C0A8000BE00001020001020304050 6
0708090A0B0C0D0E0F101112131415161718191A1AAAAA000000000000000000000000000000001000002000
00000000000000000000
* expected result:
* - 3 copies are sent to port 200, 201,202. (diag counters g)
*
*
* How to run: IGMP snooping for IGMPoIPoEthoVPLS
* BCM> cint ../../../../src/examples/dpp/cint_port_tpid.c
* BCM> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* BCM> cint ../../../../src/examples/dpp/cint_qos.c
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* BCM> cint ../../../../src/examples/dpp/cint_mpls_lsr.c
* BCM> cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
* BCM> cint ../../../../src/examples/dpp/cint_vswitch_vpls.c
* BCM> cint ../../../../src/examples/dpp/cint_igmp_example.c
* BCM> cint
*  int unit=0;
*  int in_port=200;
*  int out_port=201;
```

```
*  int vpn=4000;
*  int sec_unit=-1;
*  int ext_example=0;
* vswitch_vlps_info_init(unit,out_port,pwe_in_port,pwe_out_port,10,20,15,30,vpn);
* vswitch_vpls_run(unit,sec_unit,ext_example);
* igmp_snooping_enable(unit,in_port,out_port,1);
* exit;
* BCM>tx 1 PSRC=200
DATA=0x000000000011000000000002810000648847003EA040007DA14001005E0001020000000000FF080045
0000500000000040020000C0A80101E00001021164000000000000000000010000000000010203040000000000000
000000000000000000
* expected results:
* - packet is sent to port 201 (diag pp FDT)
*
*
* How to run IGMP multicast for IPoETHoVPLS_tunnel
* BCM> cint ../../../../src/examples/dpp/cint_port_tpid.c
* BCM> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* BCM> cint ../../../../src/examples/dpp/cint_qos.c
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* BCM> cint ../../../../src/examples/dpp/cint_mpls_lsr.c
* BCM> cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
* BCM> cint ../../../../src/examples/dpp/cint_vswitch_vpls.c
* BCM> cint ../../../../src/examples/dpp/cint_igmp_example.c
* BCM> cint
*  int unit=0;
*  int in_port=200;
*  int out_port=201;
*  int out_port2=202;
*  int vpn=4000;
*  int sec_unit=-1;
*  int ext_example=0;
* vswitch_vlps_info_init(unit,out_port,pwe_in_port,pwe_out_port,10,20,15,30,vpn);
* vswitch_vpls_run(unit,sec_unit,ext_example);
* igmp_mc_example(unit,in_port,out_port,out_port2,vpn,vswitch_vpls_my_mac_get());
* exit;
* BCM>tx 1 PSRC=200
*DATA=0x000000000011000000000002810000648847003EA040007DA14001005E0001020000000000FF08004
500005000000000403D0000C0A80101E00001020010203000000000000000010000000000010203040000000000000
000000000000000000
* expected results:
* - 3 packets are sent to port 200, 201, 202 (diag counters g)
* - vpls tunnel is terminated: (diag pp TERMination_Info,
* - outgoing packet = incoming packet - 22B)
*   incoming packet: ETH(14) + VLAN(4) + MPLS(4) +PWE(4) + nativeETH(14)          + nativeIP(20) +
PAYLOAD(36) = 96
*   outcoming packet:                              nativeETH(14) + VLAN(4) + nativeIP(20) + PAYLOAD(36) = 74
*
```

```
*
* How to run IGMP snooping for IGMPoIPoEthoVXLAN_tunnel
* soc properties:
* bcm886xx_ip4_tunnel_termination_mode=0
* bcm886xx_l2gre_enable=0
* bcm886xx_vxlan_enable=1
* bcm886xx_ether_ip_enable=0
* bcm886xx_vxlan_tunnel_lookup_mode=2
* bcm886xx_auxiliary_table_mode=1 (for arad/+ devices only)
*
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_global.c
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* BCM> cint ../../../../src/examples/dpp/cint_ip_route.c
* BCM> cint ../../../../src/examples/dpp/cint_port_tpid.c
* BCM> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* BCM> cint ../../../../src/examples/dpp/cint_field_gre_learn_data_rebuild.c
* BCM> cint ../../../../src/examples/dpp/cint_ip_tunnel.c cint_ip_tunnel_term.c
* BCM> cint ../../../../src/examples/dpp/cint_mact.c cint_vswitch_metro_mp.c
* BCM> cint ../../../../src/examples/dpp/cint_vxlan.c
* BCM> cint_../../../../src/examples/dpp/igmp_example.c
* BCM> cint
* int unit=0;
* int in_port=200;
* int out_port=201;
* int vpn=4000;
* vxlan_example(unit,in_port,out_port,vpn);
* igmp_snooping_enable(unit,in_port,out_port,1);
* exit;
* BCM>tx 1 PSRC=200
*DATA=0x000c000200000000070001008100001408004500005600000000040112f85a0000001ab00001155555555
0042d2570800000000013880001005e000102000205000000008004500001c0000000040020000c0a8000be000010211
6400000000000000010203000000000000000000000000000008004500001c0000000040020000
*
* expected result
* - packet is sent to port 201 (diag pp FDT)
*
*
* How to run IGMP multicast for IPoEthpVXLAN_tunnel
* soc properties:
* bcm886xx_ip4_tunnel_termination_mode=0
* bcm886xx_l2gre_enable=0
* bcm886xx_vxlan_enable=1
* bcm886xx_ether_ip_enable=0
* bcm886xx_vxlan_tunnel_lookup_mode=2
* bcm886xx_auxiliary_table_mode=1
*
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_global.c
* BCM> cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
```

```
* BCM> cint ../../../../src/examples/dpp/cint_ip_route.c
* BCM> cint ../../../../src/examples/dpp/cint_port_tpid.c
* BCM> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* BCM> cint ../../../../src/examples/dpp/cint_field_gre_learn_data_rebuild.c
* BCM> cint ../../../../src/examples/dpp/cint_ip_tunnel.c cint_ip_tunnel_term.c
* BCM> cint ../../../../src/examples/dpp/cint_mact.c cint_vswitch_metro_mp.c
* BCM> cint ../../../../src/examples/dpp/cint_vxlan.c
* BCM> cint ../../../../src/examples/dpp/cint_igmp_example.c
* BCM> cint
* set unit 0
* int in_port=200;
* int out_port=201;
* int out_port2=202;
* int vpn=4000;
* vxlan_example(unit,in_port,out_port,vpn);
* igmp_mc_example(unit,in_port,out_port,out_port2,vpn,vxlan_my_mac_get());
* exit;
* tx 1 PSRC=200
*DATA=0x000c000200000000070001008100001408004500004a0000000040112f91a0000001ab00001155555555
0036e3a00800000000013880001005e00010200020500000008004500001400000000403d0000c0a8000be000010200
010203000000000000008004500001400000000403d0000000008004500001400000000403d0000

* expected result:
* - 3 packets are sent to port 200, 201, 202 (diag counters g)
* vxlan tunnel is terminated: (diag pp TERMination_Info.
* outgoing packet = incoming packet - 50)
*   incoming packet: ETH(14) + VLAN(4) + IP(20) + UDP(8) + VXLAN(8B) + nativeETH(14)          +
nativeIP(20) + PAYLOAD(36) = 124
*   outcoming packet:                                    nativeETH(14) + VLAN(4) + nativeIP(20) + PAYLOAD(36) =
74


* Default Settings:
* There are two examples, one for snooping and one multicast.
*
* These examples configures the following:
*  igmp snooping
*  igmp multicast
*
* how to run:
cint examples/dpp/cint_igmp_example.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_igmp_example.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: rate.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/rate.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: auth.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Auth (802.1x) CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/auth.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe1600_stat.c,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 STAT
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_stat.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: l3.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L3 Internal header
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/l3.h
No license file was found, but licenses were detected in source scan.

/* $Id: utils_line_PTG.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_line_PTG.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_init.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_init.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: linux_osl.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux OS Independent Layer
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/linux_osl.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmSlqCntrsEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmSlqCntrsEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_eval_ast_cint.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_eval_ast_cint.h
* Purpose:     CINT AST node evaluator interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_ast_cint.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# board initialization
#

# By default, probe for a driver and then cold boot the driver
# echo "Selecting board driver by probing..."
# dbm board ver
board select
board show
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/phymod/phymod_symop.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/phymod/phymod_sdk_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84780_ucode.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: vlan.c,v 1.263 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: vlan.c
* Purpose: Provide low-level access to XGS3 VLAN resources
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/vlan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: field.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field.c
* Purpose: BCM56230 Field Processor installation functions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/field.c
No license file was found, but licenses were detected in source scan.

/* $Id: ppd_api_fp.h,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_fp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: hal.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/hal.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaSysportMapEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaSysportMapEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: bregex.c,v 1.64 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: Regex API for flow tracking
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/bregex.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE warm_boot
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dfe/cmn/dfe_warm_boot.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_cnt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_cnt.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmccnt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_cnt.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: esw_dispatch.h
* Purpose: esw driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_utils.c,v 1.10 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_utils.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassDmacMatchEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassDmacMatchEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: uc_msg.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: uc_msg.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/uc_msg.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm88750_a0.c
* Purpose: bcm88750_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/mcm/bcm88750_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsRateTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsRateTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: schanmsg_internal.h,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Internal S-Channel Message: data structure.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/schanmsg_internal.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_frwrd_mact.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_mact.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_sesto_dependencies.c                    *
*  Created On    :  05/29/2014                                     *
*  Description   :  Version of Dependency APIs used in Eval        *
*  Revision      :  $Id: $                                         *
```

```
*                                                                      *
*  Copyright 2013  Broadcom Corporation                                *
*  All Rights Reserved                                                 *
*  No portions of this material may be reproduced in any form without  *
*  the written permission of:                                          *
*      Broadcom Corporation                                            *
*      5300 California Avenue                                          *
*      Irvine, CA  92617                                               *
*                                                                      *
*  All information contained in this document is Broadcom Corporation  *
*  company private proprietary, and trade secret.                      *
*                                                                      *
************************************************************************
************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_topology.h,v 1.4.132.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC TOPOLOGY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_topology.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmxktblmgr.h,v 1.1.6.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmxktblmgr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_eg_ac.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_hg.c,v 1.64 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_hg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_fcoe_route.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fcoe_route.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fileio.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fileio.c
* Purpose:     File I/O
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/fileio.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_various_scenarios.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_various_scenarios.c
* Purpose: Various examples for MPLS/VPLS.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_various_scenarios.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Test for KAPS search interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/kaps_search.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       reg.c
* Purpose:     Diag shell register commands for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/reg.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_FALCON_XGXS.
* This file provides all basic definitions required to program the BCMI_FALCON_XGXS.
*
* This file is autogenerated. Please do not edit.
```

```
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_falcon_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_an.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* SW AN thread is an optional feature to support
* consortium AN mode on devices using PM4x25 D0. THis module is responsible for
* driving the Page exchange An state machine as recomennded by IEEE802.3by/MSA spec
* Once the page exchange is completed and speed is resolved HW will take over and complete
* the Autoneg.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/sw_an.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwAllocRateEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwAllocRateEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trill.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/trill.c
* Purpose:    BCMX Trill APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/trill.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8481.c,v 1.252 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8481.c
* Purpose:    Phys Driver support for Broadcom 8481 Serial 10Gig
*             transceiver with XAUI interface.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8481.c
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/env perl
#
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# mktool.pl
#

use File::Path;
use File::Find;
use File::Copy;
use Cwd;

($prog = $0) =~ s/.*\//;

SWITCH:
{
  $op = shift;

  if ($op eq "-rm") { mktool_rm(@ARGV); last SWITCH; }
  if ($op eq "-cp") { mktool_cp(@ARGV); last SWITCH; }
  if ($op eq "-md") { mktool_md(@ARGV); last SWITCH; }
  if ($op eq "-ln") { mktool_ln(@ARGV); last SWITCH; }
  if ($op eq "-foreach") { mktool_foreach(@ARGV); last SWITCH; }
  if ($op eq "-dep") { mktool_makedep(@ARGV); last SWITCH; }
  if ($op eq "-echo") { mktool_echo(@ARGV); last SWITCH; }
  if ($op eq "-beep") { mktool_beep(@ARGV); last SWITCH; }
  die("$prog: unknown option '$op'\n");
}
```

```
exit 0;




#
# mktool_execute
#
# Executes a command, returns exist status.
# Performs token special translation before execution.
#

sub mktool_execute
{
   my $token = shift;
   my @cmds = @_;

#    printf("mktool_execute: token = '$token'\n");
   foreach $cmd (@cmds)
   {
 #printf("mktool_execute: cmd = '$cmd'\n");
 $cmd =~ s/\#\#/$token/g;
 if($cmd =~ /^-p/)
 {
     $cmd =~ s/^-p//;
     printf("$cmd\n");
 }
 else
 {
     system($cmd);
     my $excode = ($? >> 8);
     exit $excode if $excode;
 }
   }
}


$find_regexp = "";
@find_cmd;

#
# mktool_foreach
#
sub mktool_foreach
{
   if($_[0] eq "-find")
   {
 shift;
```

```
 $find_dir = shift;
 $find_regexp = shift;
 @find_cmds = @_;

 if(!($find_dir =~ /^\//))
 {
    $find_dir = cwd() . "/" . $find_dir;
 }
 find(\&_mktool_foreach_find_wanted, $find_dir);
   }
  else
   {
 my $subdir = 0;
 if($_[0] eq "-subdir")
 {
    $subdir = 1;
    shift;
 }

 my @thingies = split(' ', shift);

 foreach $thingy (@thingies)
 {
    chdir $thingy unless $subdir == 0;
    mktool_execute($thingy, @_);
    chdir ".." unless $subdir == 0;
 }
   }
}



sub _mktool_foreach_find_wanted
{
  my $expr = "\$File::Find::name =~ /\^$find_regexp\$/";

  if(eval($expr))
  {
 mktool_execute($File::Find::name, @find_cmds);
 exit $excode if $excode;
  }
}


#
# rm
#
# Removes a list of objects
```

```
#
sub mktool_rm
{
   my($f);

   foreach $f (@_) {
 eval { rmtree($f) };
 if ($@) {
     die "$prog $op: failed to remove $f: $@\n";
 }
   }
}

#
# md
#
# Makes a list of directories
#
sub mktool_md
{
   my($dir);

   foreach $dir (@_) {
 $dir =~ s!/+$!!;
 eval { mkpath($dir) };
 if ($@) {
     die "$prog $op: failed to make directory $dir: $@\n";
       }
   }
}


sub mktool_cp
{
   my($from, $to) = @_;

   if (@_ != 2) {
     die "$prog $op: must have two arguments\n";
   }
   copy($from, $to) ||
 die "$prog $op: failed to copy $from to $to: $!\n";
}

sub mktool_ln
{
   my($old, $new) = @_;

   if (@_ != 2) {
```

```
    die "$prog $op: must have two arguments\n";
  }
  link ($old, $new) ||
 die "$prog $op: failed to link $new to $old: $!\n";
}


# @echo "$@ \\" > ${BLDDIR}/$(notdir $@)
# @if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then \
#     exit 0;    \
# else     \
#     rm -f ${BLDDIR}/$(notdir $@); \
#     exit 1;    \
# fi

# $(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$(DEPEND)"

sub mktool_makedep
{
  my ($source, $target, $cmd) = @_;
  my $result = `$cmd`;
  if(!$?)
  {
 $result =~ s/^#.*\n//g;  # some makedeps produce comments
 $result =~ s/\n+$//;  # toss trailing newlines

 open (TARGET, ">$target") ||
    die("$prog $op: cannot open '$target' for writing: $!\n");
 print TARGET "$source \\\n\${BLDDIR}/$result\n";
 close(TARGET);
  }
}

sub mktool_echo
{
  print "@_\n";
}

sub mktool_beep
{
  -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/mktool.pl
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  merlin_quadra28_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: merlin_quadra28_functions.h 944 2015-03-05 22:47:30Z eroes $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: gsa_framework.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/gsa_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cmu_test1.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cmu_test1.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchDataEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchDataEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: il.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XMAC driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/il.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu_c.stg,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cmu.c: Guadalupe2k V1.3 CMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_cmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
$Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/bcm_imacsec.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy542xx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/include/bcm_imacsec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_cell.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_resource.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam_resource.c
* Purpose: OAM Resources module (traps, profiles, IDs, ...)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/oam_resource.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmSlqCntrsEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmSlqCntrsEntryConsole.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_init.c,v 1.309 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  alloc.c
* Purpose: Memory allocation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/alloc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_up_mep_over_vpls.c
* Purpose: Example of creating Ethernet OAM endpoint connected to VPLS tunnel.
*
* Usage:
*
cd ../../../../src/examples/dpp
cint cint_utils_multicast.c
cint cint_utils_vlan.c
cint cint_utils_mpls_port.c
cint cint_utils_oam.c
cint cint_port_tpid.c
cint cint_advanced_vlan_translation_mode.c
cint cint_l2_mact.c
cint cint_vswitch_metro_mp.c
cint cint_multi_device_utils.c
cint cint_queue_tests.c
cint cint_oam_acceleration_advanced_features.c
```

```
cint cint_oam.c
cint cint_oam_up_mep_over_vpls.c

cint
int unit =0;
int port_1=200, port_2 = 202, port3 = 203;
print oam_run_up_mep_over_vpls_with_defaults(unit,port_1,port_2);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_up_mep_over_vpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag.c,v 1.109 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag.c
* Purpose:     Device diagnostics commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriLutEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_diagnostics.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     XGS5 Port common driver.
*
* Notes:
*      More than likely only new Port APIs are found in
*      this function driver due to a huge amount of legacy code
*      that were implemented before this model.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_mact.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_mact.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    list.c
* Purpose: Caladan3 on LRP List Manager
* Requires: LRP and OCM drivers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/list.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: failover.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TR3 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/failover.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: negev_rpc_master.soc,v 1.2 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

local master_mac 00:10:18:7F:F2:68
local master_ip 10.184.6.50
local slave1_mac 00:10:18:7F:F1:50
local slave1_ip 10.184.6.44

local delay 4

echo Setting up RPC
echo This unit: Master
echo master_mac=$master_mac
echo master_ip=$master_ip
echo Other unit: Slave
echo slave1_mac=$slave1_mac
echo slave1_ip=$slave1_ip
echo ********************

cpudb newdb
cpudb add key=$master_mac local=t
cpudb add key=$slave1_mac
cts atp trans sock server start

sleep $delay

cts atp trans sock inst dk=$slave1_mac dip=$slave1_ip

sleep $delay

cts atp cos=0 vlan=1
rpc nonexthop
```

```
rpc start
cte reg mode=atp

sleep $delay

dispatch attach 1 client 0 $slave1_mac

echo Showing all addressable units, both locally and remotely attached
dispatch show
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/negev_rpc_master.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    internal_stack.c
*
* Purpose:
*
* Functions:
*      esw_init_pci
*      set_ext_stack_pciconfig
*      ks_pci_info_setup
*
*      _bcm_ptp_write_ks_uint32
*      _bcm_ptp_read_ks_uint32
*      _bcm_ptp_write_pcishared_uint32
*      _bcm_ptp_read_pcishared_uint32
*      _bcm_ptp_write_pcishared_uint8
*      _bcm_ptp_read_pcishared_uint8
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ptp/pciutil.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_mymac.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_mymac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_diags_c.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cop.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_cop_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVRT.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVRT.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bondoptions.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bondoptions.c
* Purpose:    Populates Metrolite Bond Options Info.
* Requires:   SOC Common Bond Options Initializer.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/metrolite/bondoptions.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                            *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code_public.h 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/public/srds_api_err_code_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_petra_pp_acc.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_petra_pp_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPriEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaPriEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_drv.c,v 1.72 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ledasm.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file is used by the SM-Lite LED processor assembler and disassembler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/ledasm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsRateTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsRateTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pbmp.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Port Bitmap Macros
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/pbmp.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100g ILKN to 100g ILKN setup
#

load_firmware=1
lrp_bypass=0
bcm88030_ucode.0=g3p1a
ucode_port.port1.0=clport0.ce.0.0-4/0/192:il1.il100.0.0-4/64/128
ucode_num_ports.0=1

#TDM with 4 cos
bcm88030_config=24

#App reserved queue
app_queues_start=123
app_queues_num=2
config_queue123_tdm24=1007,756,504,227,68,68
config_queue124_tdm24=1007,756,504,227,68,68

xgxs_rx_lane_map_core0_ce0=0x1230
xgxs_rx_lane_map_core1_ce0=0x1032
xgxs_rx_lane_map_core2_ce0=0x1230

xgxs_tx_lane_map_core0_ce0=0x1032
xgxs_tx_lane_map_core1_ce0=0x3210
xgxs_tx_lane_map_core2_ce0=0x1032

phy_xaui_rx_polarity_flip_ce0=0x0bf9

phy_xaui_tx_polarity_flip_ce0=0x0cf3


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

#CXP to WC lane map
```

```
mld_lane_swap_lane23_ce0=5
mld_lane_swap_lane22_ce0=4
mld_lane_swap_lane21_ce0=3
mld_lane_swap_lane20_ce0=2
mld_lane_swap_lane19_ce0=1
mld_lane_swap_lane18_ce0=0
mld_lane_swap_lane17_ce0=23
mld_lane_swap_lane16_ce0=22
mld_lane_swap_lane15_ce0=13
mld_lane_swap_lane14_ce0=12
mld_lane_swap_lane13_ce0=11
mld_lane_swap_lane12_ce0=10
mld_lane_swap_lane11_ce0=9
mld_lane_swap_lane10_ce0=8
mld_lane_swap_lane9_ce0=7
mld_lane_swap_lane8_ce0=6
mld_lane_swap_lane7_ce0=21
mld_lane_swap_lane6_ce0=20
mld_lane_swap_lane5_ce0=19
mld_lane_swap_lane4_ce0=18
mld_lane_swap_lane3_ce0=17
mld_lane_swap_lane2_ce0=16
mld_lane_swap_lane1_ce0=15
mld_lane_swap_lane0_ce0=14

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1


c3_ucode_path=/tftpboot/caladan3/sv/c3hppc/ucode

ddr3_tune_addrc_ci14=0x000000b0
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci14=0x96969696,0x96969696,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x0000079e
ddr3_tune_rd_dqs_ci14=0x99999494,0x99999b9b
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_rd_dq_wl0_rp_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00979897,0x009d9e9c
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b2
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x000007df
ddr3_tune_rd_dqs_ci12=0x93939494,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl1_rp_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_en_ci12=0x009d9c9e,0x00999a99
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000b3
ddr3_tune_wr_dq_wl1_ci10=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci10=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x0000079e
ddr3_tune_rd_dqs_ci10=0x97979999,0x99999494
ddr3_tune_rd_dq_wl1_rn_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_en_ci10=0x00a5a4a6,0x00a1a3a0
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci8=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000075d
ddr3_tune_rd_dqs_ci8=0x99999a9a,0x9a9a9a9a
ddr3_tune_rd_dq_wl1_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci8=0x00999a99,0x009c9d9b
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b4
ddr3_tune_wr_dq_wl1_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci6=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x000007df
ddr3_tune_rd_dqs_ci6=0x9a9a9595,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d

ddr3_tune_rd_dq_wl0_rp_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci6=0x009b9c9b,0x00999a98
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b3
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x000007df
ddr3_tune_rd_dqs_ci4=0x97979898,0x99999898
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci4=0x009d9d9e,0x009a9b99
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x0000079e
ddr3_tune_rd_dqs_ci2=0x9a9a9595,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009fa09f,0x00a3a5a2
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x97979b9b,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rn_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rp_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0=0x00a3a3a3,0x009fa09e
ddr3_tune_rd_data_dly_ci0=0x00000404
ddr3_auto_tune=0

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4cos-1x100g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: ecn.c $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ecn.c
* Purpose: Manages Tomahawk2 MPLS ECN functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/ecn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mac_adr.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/mac_adr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_appl_intr.c, v1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implements application interrupt lists for JERICHO.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/qax_intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linuxver.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux-specific abstractions to gain some independence from different linux kernel versions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/et/linuxver.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_vlan.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: VLAN APIs
*
* Purpose:
*     VLAN API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_stk_mc.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stk_mc.c
* Purpose: Example Stacking MC Validation
* Reference: BCM88650 TM Device Driver (Stacking)
*                    cint_stk_uc.c
*
* Environment:
*    Assuming UC environment.
*
*
* Adjust to different system configuration:
*  1. Same as UC adjustments.
*    2. Multicast Group should contain all Stacking ports, only one copy will pass to other domain, other will be filtered according to LB-Key.
*
* Test Run 1:
*    1. inject packet from in port. packet format:
*        a. eth packet
*        b. da[4] = mc_id in hex % 256 (mc-id 8000 113 --> 0x0,0x0,0x0,0x0,0x40,0x0)
*       c. sa changes (for lb-key)
*       d. vlan tag = 1.
*  2. Expected Output:
*       a. according to the configured mc group port members, packet should appear at the output - capture outgoing
```

```
packet.
*       b. traffic should be divided on all stacking ports (same lag) - show counters on both TMD.
*       c. expected output of shell command "show counters" :
*          (for one packet sent from Tm-domain 0)
*
*    on Tm-domain 0:
*
 *      RX
*      ---
*      Port ||       snmpIfHCInUcastPkts |        snmpIfInNUcastPkts |            snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*      ------------------------------------------------------------------------------------------------------------------
*        13 ||                        1 |                        0 |                        0 |                        0 |
*      TX
*      ---
*      Port ||      snmpIfHCOutUcastPkts |       snmpIfOutNUcastPkts |           snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*      ------------------------------------------------------------------------------------------------------------------
*        16 ||                        1 |                        0 |                        0 |                        1 |
*        17 ||                        1 |                        0 |                        0 |                        1 |
*
*          * packet should leave from port 15 or port 16, selected randomly.
*
*   on Tm-domain 1:
*
*      RX
*      ---
*      Port ||       snmpIfHCInUcastPkts |        snmpIfInNUcastPkts |            snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*      ------------------------------------------------------------------------------------------------------------------
*        16 ||                        0 |                        1 |                        0 |                        1 |
*      TX
*      ---
*      Port ||      snmpIfHCOutUcastPkts |       snmpIfOutNUcastPkts |           snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*      ------------------------------------------------------------------------------------------------------------------
*        13 ||                        0 |                        1 |                        0 |                        1 |
*        17 ||                        1 |                        0 |                        0 |                        1 |
*
*          * packet should enter from port 15 or port 16 depend on which port it's leave Tm-domain 0.
*
* cd ../../../../src/examples/dpp
* cint cint_stk_uc.c
* cint cint_stk_mc.c
* cint
* In TMD 0:
*     stacking_mc_appl(unit, 0);
* In TMD 1:
```

```
*     stacking_mc_appl(unit, 1);
*
*
* Flooding example:
*    flooding in Stacking system is done by creating Ingress MC group with mc_id=vlan,
*    CUD=vlan which contain all the Stacking ports and the ERP port, in all TM-domains.
*    The packet to ERP port with CUD=vlan will create flooding in the current domain.
*    Only one of the packets towards the Stacking port will pass to the next TM-domain,
*    and will be distributed to Stacking ports (should be filtered by Trap), local ERP port.
*    This example is based on Stacking UC application, and ERP port bring up.
*
*    Usage:
*        In TMD 0: stacking_flooding_appl(unit, 0);
*        In TMD 1: stacking_flooding_appl(unit, 1);
*
*
* Remarks:
*    1. Read Stacking section in BCM88650 TM Device Driver.
*    2. The UC application should be called before MC application, as in stacking_mc_appl().
*    3. Using Load-Balancing Extension should be across TM-Domains.
*    4. When working without fabric adjust soc property fabric_connect_mode=SINGLE_FAP.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stk_mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_mgmt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane PMU support.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* $Id: hndpmu.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndpmu.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  eagle_phy_1_internal.c                                    *
*  Created On    :  13/02/2014                                                *
*  Created By    :  Justin Gaither                                            *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :  $Id: eagle_phy_1_internal.c 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g+6xhg10_1xil100.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_10x10g_2xhg10.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_6xhg10_1xil100.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x10g_4xhg10.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8040.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	phy8040.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8040.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassProtocolEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassProtocolEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_nj_1xil100.h,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_nj_1x100g_1xil100.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_nj_12x10g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: README.TXT,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Diagnostic Tests

Notes

Diag tests are not expected to clean up after themselves.
However, each test is expected to initialize the chip properly before
performing its work. Many of the tests, such as port loopbacks, do this
by calling soc_reset() or by running rc.soc prior to the test.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/README.TXT
No license file was found, but licenses were detected in source scan.

/*
* $Id: diag_mmu.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: diag_mmu.c
* Purpose: Manages mmu diagnostics functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_mmu.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: serdesassumed.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: serdes.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdesassumed.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: util.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: ppe.c
* Purpose: Caladan3 driver utility file

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/util.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_char_queue_ssf.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_char_queue_ssf.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*
*****************************************************************************************
```

```
*
*                                                                    *
*  Revision      :   *
*                                                                    *
*  Description   :  Read/Write macros to Falcon16 IP's uC RAM's User variables              *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                    *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                *
*                                                                    *
*******************************************************************************************
*
*******************************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/falcon16_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        bcmx/niv.c
* Purpose:     BCMX NIV APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap84756_fw_gen.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Following method is used to download firmware into 8051 via the MDIO
*
* 1> Compile the Program in Keil compiler
*    Select the hex file generation in Keil Compiler.
*    Download hex2bin utility.
*
* 2> Use hex2bin to convert hex to bin file as
*    hex2bin -v test.hex  (-v retains all the bytes with hex2bin strips
*    otherwise)
*
* 3> Use xxd utility to convert to c include file as
*    xxd -i test.bin > test.h
*
*    Use following c program to generate a soc script to download the
*    firmware file
*
*    The following c file assumes the 8051 executable in a byte array names
*    test[];
*    with fcmap_fw_data_len = length of the array.
*    gcc -I <current dir> firmware.c
*    ./a.out > write_mem.soc
*
*    The write_mem.soc file will download the 8051 executable via MDIO
*
*
* Tool to do above steps:
* ../tools/internal/chex uc_fc_firmware.hex bfcmap84756_fw_gen.c bfcmap84756_a0
*
* Above steps in a script file:
*       hex2bin  -v  $1
*       cp `basename $1 .hex`.bin test
*
*       xxd -i test | sed 's/^\(.*test\)/STATIC \1/'  > test.h
*       gcc -I.  $2
*       ./a.out  | sed 's/bfcmap84756/'$3'/' > $3_fw.c
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap84756_fw_gen.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_util.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_spi.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X SPI utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/robo_spi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/ipmc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_topology.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC TOPOLOGY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_topology.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# The file runs the packet TX tests using the BCM API support, for a variety
# of parameters.
#

#
# Number of packets of each size sent for measurement.
# 1000 packets seems to provide reliable numbers.
#
local count 1000

#
# Egress ports to send packets out if PBM is specified (all ethernet by
# default).
#
local pbm e

#
# Number of outstanding operations the test will allow.
#
local op 10

if $?drac \
'local cacheon  "cache +vlan +port +l2mc_table"; \
local cacheoff "cache -vlan -port -l2mc_table"'

if !$?drac \
'local cacheon  "cache +qvlan +ptable +mcast"; \
local cacheoff "cache -qvlan -ptable -mcast"'

if $?herc "echo Not supported on hercules; exit"

$cacheoff

echo; echo; echo;
echo "Packet TX Performance test: Unknown unicast, Tagged, Table cache disabled"
tr 40 DestMac=UCMiss Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known unicast, Tagged, Table cache disabled"
tr 40 DestMac=UCHit Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Unknown Multicast, Tagged, Table cache disabled"
tr 40 DestMac=MCMiss Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
```

```
echo "Packet TX Performance test: Known Multicast, Tagged, Table cache disabled"
tr 40 DestMac=MCHit Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Broadcast, Tagged, Table cache disabled"
tr 40 DestMac=Bcast Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: PBM, Tagged, Table cache disabled"
tr 40 DestMac=PBM Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op \
 pbm=$pbm upbm=0x0
echo; echo; echo;

$cacheon

echo "Packet TX Performance test: Unknown unicast, Tagged, Table cache enabled"
tr 40 DestMac=UCMiss Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known unicast, Tagged, Table cache enabled"
tr 40 DestMac=UCHIT Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Unknown Multicast, Tagged, Table cache enabled"
tr 40 DestMac=MCMiss Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known Multicast, Tagged, Table cache enabled"
tr 40 DestMac=MCHit Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Broadcast, Tagged, Table cache enabled"
tr 40 DestMac=Bcast Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: PBM, Tagged, Table cache enabled"
tr 40 DestMac=PBM Tagged=TRUE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op \
 pbm=$pbm upbm=0x0

$cacheoff

echo; echo; echo;
echo "Packet TX Performance test: Unknown unicast, Untagged, Table cache disabled"
tr 40 DestMac=UCMiss Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known unicast, Untagged, Table cache disabled"
tr 40 DestMac=UCHit Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Unknown Multicast, Untagged, Table cache disabled"
tr 40 DestMac=MCMiss Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known Multicast, Untagged, Table cache disabled"
tr 40 DestMac=MCHit Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Broadcast, Untagged, Table cache disabled"
```

```
tr 40 DestMac=Bcast Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: PBM, Untagged, Table cache disabled"
tr 40 DestMac=PBM Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op \
 pbm=$pbm upbm=0x0
echo; echo; echo;

$cacheon

echo "Packet TX Performance test: Unknown unicast, Untagged, Table cache enabled"
tr 40 DestMac=UCMiss Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known unicast, Untagged, Table cache enabled"
tr 40 DestMac=UCHIT Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Unknown Multicast, Untagged, Table cache enabled"
tr 40 DestMac=MCMiss Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Known Multicast, Untagged, Table cache enabled"
tr 40 DestMac=MCHit Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: Broadcast, Untagged, Table cache enabled"
tr 40 DestMac=Bcast Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op
echo; echo; echo;
echo "Packet TX Performance test: PBM, Untagged, Table cache enabled"
tr 40 DestMac=PBM Tagged=FALSE vlanid=1 ls=64 le=1024 li=64 c=$count op=$op \
 pbm=$pbm upbm=0x0

$cacheoff
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/packetperf.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_ge.c,v 1.78 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_ge.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Counter CLI support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/counter.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_cos.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws_test1.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws_test1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brcm_osl.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux OS Independent Layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/brcm_osl.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_negev_demo.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_negev_demo.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vlan_port_initial_vid.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_port_initial_vid.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_hwconfig.c,v 1.114 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*       Hardware configuration
*       PPD layer feature enumeration
*       BCM layer feature configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_hwconfig.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.354 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom StrataSwitch Mirror API.
*
* The mirroring code has become more complex after the introduction
* of XGS3 devices, which support multiple MTPs (mirror-to ports) as
* well as directed mirroring. When directed mirroring is enabled
* it is also possible to mirror to a trunk.
*
* Non-directed mirroring (aka. Draco1.5-style mirroring and XGS2-style
* mirroring) only allows for a single MTP in a system (which can be
* either a single device or a stack.) In order to mirror a packet to
* a remote module in non-directed mode, the local MTP must be the
* appropriate stacking port and all modules traversed from the
* mirrored port to the MTP need to have mirroring configured to
* reflect the desired path for mirror packets.
*
* Directed mirroring means that the MTP info includes a module ID,
* which allows mirror packets to follow the normal path of switched
* packets, i.e. when mirroring to a remote MTP there is no need to
* configure the mirror path separately.
*
* Since the original mirror API did not support module IDs in the MTP
* definition, a new API was introduced to handle this. The new API is
* called bcm_mirror_port_set/get and allows the application to
* configure mirroring with a single API call, whereas the the old API
* would require two (and in most cases three or more) API calls.
*
```

```
* For compatibility, the original API will also work on XGS3 devices,
* and in this case the MTP module ID is automatically set to be the
* local module ID. Likewise, the new API will also work on pre-XGS3
* devices as long as the MTP module ID is specified as the local
* module ID.
*
* In addition to normal ingress and egress mirroring, the FP (field
* processor) can specify actions that include ingress and egress
* mirroring. This feature uses the same hardware MTP resources as
* the mirror API, so in order to coordinate this, the FP APIs must
* allocate MTP resources through internal reserve/unreserve
* functions. Since multiple FP rules can use the same MTP resource
* the reserve/unreserve functions maintain a reference count for
* each MTP resource. In the software MTP structure this reference
* counter is called 'reserved'. Within the same structure, the
* mirror API uses the 'pbmp' to indicate whether this MTP resource
* is being used by the mirror API.
*
* Note that the MTP resource management code allows resources to be
* shared between the mirror API and the FP whenever the requested
* MTP is identical.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_quadra28_dv_functions.c                                      *
*  Created On    :  22/05/2014                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  APIs for Serdes IPs ported over from DV                             *
*  Revision      :  $Id: merlin_quadra28_dv_functions.c 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
```

```
*****************************************************************************************/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_dv_functions.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trunk.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/bcm/common/trunk.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pon_cpu_rx_tx.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_cpu_rx_tx.c
*
* Section: pon_cpu_rx
* Purpose: examples of rx trap management BCM API.
*     Trap PPPOE/DHCP/IGMP/MLD package to CPU, it'll print receive packet on the
*     command line with the tunnel id by pon_cpu_rx_turnel_id.
*     Trap DHCP/IGMP/MLD are implemented by the bcm_switch_control_port_set BCM API.
*     Trap PPPOE is implemented by the PMF which the bcm_switch_control_port_set
*     BCM API don't support PPPOE.
*     You can use pon_cpu_rx_dhcp/igmp/mld/pppoe to enable/disable the specific trap.
*     PPPOE trap types:
*         0 -> PPPOE Discovery(0x8863)
*         1 -> PPPOE Session(0x8864)
*     DHCP trap types:
*         0 -> bcmRxTrapDhcpv4Client
*         1 -> bcmRxTrapDhcpv4Server
*         2 -> bcmRxTrapDhcpv6Client
*         3 -> bcmRxTrapDhcpv6Server
*     IGMP trap types:
*         0 -> bcmRxTrapIgmpMembershipQuery
*         1 -> bcmRxTrapIgmpReportLeaveMsg
*     MLD trap types:
*         0 -> bcmRxTrapIcmpv6MldMcListenerQuery
*         1 -> bcmRxTrapIcmpv6MldReportDone
*
* To Activate Above Settings Run:
```

```
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_cpu_rx_tx.c
*     BCM> cint
*     cint> pon_cpu_service_Init(0, 4, 128, 129);
*     cint> pon_cpu_service_setup(0);
*     cint> pon_cpu_rx_init(0,5,1,128,1);
*     cint> pon_cpu_rx_pppoe(0,5,0,1);
*     cint> pon_cpu_rx_dhcp(0,0,1);
*     cint> pon_cpu_rx_igmp(0,0,1);
*     cint> pon_cpu_rx_mld(0,0,1);
*     cint> pon_cpu_rx_pppoe(0,5,0,0);
*     cint> pon_cpu_rx_dhcp(0,0,0);
*     cint> pon_cpu_rx_igmp(0,0,0);
*     cint> pon_cpu_rx_mld(0,0,0);
*     cint> pon_cpu_service_cleanup(0);
*
* Section: pon_cpu_tx
* Purpose: examples of tx management BCM API.
*     CPU send traffic using header type INJECTED_2 which the header is DATAoITMHoPTCH.
*     PTCH indicates the PP source port that we are going to transmit.
*     ITMH indicates the packet destination.
*     It support sending the traffic on PON/NNI port by pon_cpu_tx_port.
*     It support sending the traffic on NNI port(Trunk mode) by pon_cpu_tx_trunk.
*
* Trunk configurations:
*     type = 0: 1K SPAs with 16 members.
*     type = 1: 512 SPAs with 32 members.
*     type = 2: 256 SPAs with 64 members.
*     type = 3: 128 SPAs with 128 members.
*     type = 4: 64 SPAs with 256 members.
*
* SOC property config:
*     tm_port_header_type_in_0.BCM88650=INJECTED_2
*     tm_port_header_type_out_0.BCM88650=CPU
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_cpu_rx_tx.c
*     BCM> cint
*     cint> pon_cpu_service_Init(0, 4, 128, 129);
*     cint> pon_cpu_service_setup(0);
*     cint> pon_cpu_tx_port(5,1,100,20);
*     cint> pon_cpu_tx_trunk(0,0,0,20);
*     cint> pon_cpu_service_cleanup(0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_cpu_rx_tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbxpkt_cint_data.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbxpkt_cint_data.c
*
* Hand-coded support for sbx_pkt routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/sbxpkt_cint_data.c
No license file was found, but licenses were detected in source scan.

```
# $Id: pass.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Used only by the automated infrastructure to validate behavior.
# Always finishes successfully.

echo "testsuite: started: pass"
echo "testsuite: finished: pass: 0"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/pass.soc

No license file was found, but licenses were detected in source scan.

/* $Id: arad_mgmt.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_mgmt.h
No license file was found, but licenses were detected in source scan.

$Id: README,v 1.3 Broadcom SDK $

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Assuming a Solaris or Linux build server with one or more of the
following cross-compilers installed:

* Diab Data DCC ColdFire
* Tornado x86
* Tornado MIPS
* Tornado PPC

This explains how to set the target to build the Strata device drivers
for that a particular platform and chip.

Target Makefiles for the SAL and SOC device driver:

Remember that $TARGET is set to <TARGETBASE>-<TARGETPLAT>. <TARGETBASE>
represents the operating system environment, and <TARGETPLAT> represents
the platform. For example:

BMW CPCI card
setenv TARGET vxworks-bmw
<TARGETBASE> is vxworks
<TARGETPLAT> is bmw

Unix PCID simulation
setenv TARGET unix-solaris
<TARGETBASE> is unix
<TARGETPLAT> is solaris

Linux PCID simulation
setenv TARGET unix-linux
<TARGETBASE> is unix
<TARGETPLAT> is linux

For VxWorks builds of existing BSPs, edit the platform Makefile.$TARGET
and modify WIND_BASE so it points to your installed VxWorks tree.

Then to build a BSP and link to binary, go to the

sdk/systems/<TARGETBASE>/<TARGETPLAT>

directory corresponding to the system and run gmake.

It is possible to run 'make' in any subdirectory of the driver source
tree by setting the environment variable TARGET appropriately. The
compiled objects will go into that target's build subdirectory,
sdk/build/$TARGET. For example:

```
setenv TARGET vxworks-bmw
cd $SDK/src/soc
make drv.o
```

To compile a driver that only supports specific chips, see instructions
in $SDK/make/Make.local.template. Copy Make.local.template to
Make.local and make the required modifications. By default, the driver
will be built to include code for all supported chips. You may be able
to save some code space by customizing in support for only one or two
chips.

Adding new VxWorks platforms:

1) Pick a <TARGETPLAT> name for your BSP, eg, my_board_name.

2) Create a new Makefile.vxworks-my_board_name in $SDK/make.
It is easiest to copy from a similar existing Makefile and
modify it.

3) Create a new directory tree structure in $SDK/systems:

$SDK/systems/<TARGETBASE>/<TARGETPLAT>

Where TARGETBASE is vxworks and <TARGETPLAT> is your platofmr name, e.g.

$SDK/systems/vxworks/my_board_name

4) Copy the file socdiag.c and Makefile from an existing
directory in that configuration into the new directory.

$SDK/systems/vxworks/my_board_name/socdiag.c
$SDK/systems/vxworks/my_board_name/Makefile

5) Place all your BSP files in the new <TARGETPLAT> directory.

6) Edit the Makefiles in the directory tree, overriding
the target in the toplevel Makefile and pulling in
$SDK/make/Makefile.<TARGETBASE>-<TARGETPLAT>

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/README
No license file was found, but licenses were detected in source scan.

/* $Id: cint_etpp_rif_mtu.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_etpp_rif_mtu.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_skt.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_skt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmgenerictblmgr.h,v 1.1.6.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmgenerictblmgr.h
No license file was found, but licenses were detected in source scan.

/*
*
* $Id: phymod.xml,v 1.1.2.5 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
/*
*
* $Id: quadra28.c, 2014/12/16 aman $
*
* $Copyright:
* All Rights Reserved.$
*
* File: quadra28.c
* Purpose: tier2 phymod support for Broadcom 40G Quadra28 phy
* note:
* Specifications:

* Repeater, retimer operation.

* Supports the following data speeds:
* 1.25 Gbps line rate (1 GbE data rate, 8x oversampled over 10 Gbps line rate)
* 10.3125 Gbps line rate (10 GbE data rate)
* 11.5 Gpbs line rate (for backplane application, proprietary data rate)
* 410.3125 Gbps line rate (40 GbE data rate)
*
* Supports the following line-side connections:
* 1 GbE and 10 GbE SFP+ SR and LR optical modules
* 40 GbE QSFP SR4 and LR4 optical modules
* 1 GbE and 10 GbE SFP+ CR (CX1) copper cable
* 40 GbE QSFP CR4 copper cable
* 10 GbE KR, 11.5 Gbps line rate and 40 GbE KR4 backplanes
*
* Operates with the following reference clocks:
* Single 156.25 MHz differential clock for 1.25 Gbps, 10.3125 Gpbs and 11.5 Gbps
* line rates
*
* Supports autonegotiation as follows:
* Clause 73 only for starting Clause 72 and requesting FEC
* No speed resolution performed
* No Clause 73 in 11.5 Gbps line rate, only Clause 72 supported
* Clause 72 may be enabled standalone for close systems
* Clause 37 is supported

 */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/quadra28/tier2/quadra28.c
No license file was found, but licenses were detected in source scan.

/* $Id: bsp_drv_error_defs.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bsp_drv_error_defs.h
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_log.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_log.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dcmn_fabric_source_routed_cell.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_fabric_source_routed_cell.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR1BagEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1BagEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.0 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan2plus/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport.h  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport.h
* Purpose: This file contains the declarations of all the functions and
*          data structures that is being used in the TechSupport utility.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/techsupport.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: falcon_api_uc_common.h 925 2015-02-24 23:23:58Z kirand $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Falcon ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.129 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmIngressPortEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmIngressPortEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
*     confidential_data  - Pointer to data to be encrpted
*     confidential_dlen  - Length of confidential_data
buint8_t *confidential_data, int confidential_dlen,
protected_dlen, confidential_data, confidential_dlen,
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
#
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$

echo "testsuite: started: snake "

#
# Updates to run through all TR tests on a system with loopbacks.
#

# QE2000
if !"expr $pcidev == 0x300" " \
      tr 107; \
"

# C2 board
if !"expr $pcidev == 0x0580" && !"expr $unit == 1"  "\
 echo 'External Loopback xe0 <---> xe1 '; \
 tr 117 ; \
 echo 'External Loopback ge0 <---> ge1 '; \
 tr 115 sp=0 ep=1; \
 echo 'External Loopback ge2 <---> ge3 '; \
 tr 115 sp=2 ep=3; \
 echo 'External Loopback ge4 <---> ge5 '; \
 tr 115 sp=4 ep=5; \
 echo 'External Loopback ge6 <---> ge7 '; \
 tr 115 sp=6 ep=7; \
 echo 'External Loopback ge8 <---> ge9 '; \
 tr 115 sp=8 ep=9; \
 echo 'External Loopback ge10 <---> ge11 '; \
 tr 115 sp=10 ep=11;  \
 echo 'External Loopback ge12 <---> ge13 '; \
 tr 115 sp=12 ep=13;  \
 echo 'External Loopback ge14 <---> ge15 '; \
 tr 115 sp=14 ep=15;  \
 echo 'External Loopback ge16 <---> ge17 '; \
 tr 115 sp=16 ep=17;  \
 echo 'External Loopback ge18 <---> ge19 '; \
 tr 115 sp=18 ep=19;  \
 pe clear; \
 echo 'External Loopback ge20 <---> ge21 '; \
 tr 115 sp=20 ep=21;  \
 pe clear; \
 echo 'External Loopback ge22 <---> ge23 '; \
 tr 115 sp=22 ep=23;  \
 tr 119 reinit=0 ; tr 118 reinit=0 ; tr 114; tr 107 reinit=0; \
 tr 116 MemExists=0x1 reinit=0; \
 tr 116 MemExists=0x2 reinit=0; \
 tr 116 MemExists=0x4 reinit=0; \
 tr 116 MemExists=0x8 reinit=0; \
```

```
 tr 116 MemExists=0x10 reinit=0; \
 tr 116 MemExists=0x20 reinit=0; \
"

# polaris, reg r/w test, SFI/SCI prbs to QE
if !"expr $pcidev == 0x0480" "\
 tr 111; \
 tr 110; \
"

#
# C1 on Polaris board
#

if !"expr $pcidev == 0x0380" && !"expr $unit == 2" "\
 echo 'External Loopback ge0 <---> ge1 '; \
 tr 115 sp=0 ep=1; \
 echo 'External Loopback ge2 <---> ge3 '; \
 tr 115 sp=2 ep=3; \
 echo 'External Loopback ge4 <---> ge5 '; \
 tr 115 sp=4 ep=5; \
 echo 'External Loopback ge6 <---> ge7 '; \
 tr 115 sp=6 ep=7; \
 echo 'External Loopback ge8 <---> ge9 '; \
 tr 115 sp=8 ep=9; \
 echo 'External Loopback ge10 <---> ge11 '; \
 tr 115 sp=10 ep=11;  \
 echo 'External Loopback ge12 <---> ge13 '; \
 tr 115 sp=12 ep=13;  \
 echo 'External Loopback ge14 <---> ge15 '; \
 tr 115 sp=14 ep=15;  \
 echo 'External Loopback ge16 <---> ge17 '; \
 tr 115 sp=16 ep=17;  \
 echo 'External Loopback ge18 <---> ge19 '; \
 tr 115 sp=18 ep=19;  \
 echo 'External Loopback ge20 <---> ge21 '; \
 tr 115 sp=20 ep=21;  \
 echo 'External Loopback ge22 <---> ge23 '; \
 tr 115 sp=22 ep=23;  \
 tr 118; tr 119; tr 114; tr 116; tr 107; \
"

if !"expr $pcidev == 0x0380" && !"expr $unit == 1"  " \
 echo 'External Loopback xe0 <---> xe0 '; \
 tr 108 ; \
 echo 'External Loopback xe1 <---> xe1 '; \
 tr 109 ; \
 tr 118; tr 114; tr 116; \
```

"

tl
local returnCode $?

We want to show the return code from the tl command which
lists the results. The automated test infrastructure keys off of this
value
echo "testsuite: finished: sanity: $returnCode"

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sbxsanity_snake.soc
No license file was found, but licenses were detected in source scan.

/**********
* File Name : merlin_koi_functions.h
* Created On : 29/04/2013
* Created By : Kiran Divakar
* Description: Header file with API functions for Serdes IPs
* Revision   : $Id: merlin_koi_functions.h 1077 2015-07-06 14:47:39Z kirand $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*   Broadcom Corporation
*   5300 California Avenue
*   Irvine, CA 92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
**********//**
* @file
* Protoypes of all API functions for engineering use
*//**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_functions.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dpp_wb_engine.h,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_wb_engine.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_general_utils.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_general_utils.h
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE STAT H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_stat.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: storm.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/storm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/storm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap84756_a0_fw.c
No license file was found, but licenses were detected in source scan.

```
/** \file multi_set_template.h
*
* Internal DNX template manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/template_mngr/multi_set_template.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

#Ports 0-1 configuration
set rcerror=F
vlan destroy 10
vlan destroy 20

port ge0 SP=1000 LB=MAC AF=F EN=T
port ge1 SP=1000 LB=MAC AF=F EN=T

s epc_link 0xffffffff
#m config tag_en=1
#clear vtable
#clear ptable
```

```
#modify pvlan 0 1 vlan_tag=10 port_bitmap=0x3 ut_port_bitmap=0x3 sp_st=3 cml=2
#modify pvlan 1 1 vlan_tag=10 port_bitmap=0x3 ut_port_bitmap=0x3 sp_st=3 cml=2
#l2 add PBM=ge0 MAC=00:00:00:00:00:01 V=10 ST=T
#l2 add PBM=ge1 MAC=00:00:00:00:00:01 V=10 ST=T

vlan create 10 PBM=ge0,ge1 UBM=ge0,ge1
pvlan set ge0 10
pvlan set ge1 10

tx 1 PBM=0x1 UBM=0x1 L=68 VL=10 P=0x12345678 PI=1 SM=00:00:00:00:00:02 SMI=0 DM=ff:ff:ff:ff:ff:ff
DMI=0 COS=0 CRC=Recompute
tx 1 PBM=0x2 UBM=0x2 L=68 VL=10 P=0x12345678 PI=1 SM=00:00:00:00:00:02 SMI=0 DM=ff:ff:ff:ff:ff:ff
DMI=0 COS=0 CRC=Recompute

loop * "show counters"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/swirl_ge_bc.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_stat.h,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmtblmgr.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmtblmgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_scanner.l,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_scanner.l
* Purpose:     CINT Flex input file
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_scanner.l
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trie_util.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    trie_util.c
* Purpose: Trident2 Trie utility functions
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/trie_util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueAgeEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueAgeEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tr_hash.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TRX Hash Test definitions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/test/tr_hash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flex_ctr.h,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        flex_ctr.h
* Purpose:     Contains all internal function and structure required for
*              flex counter.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/flex_ctr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.97 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Triumph3 L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/l3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_tdm.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_tdm.h
*
* MODULE PREFIX:  soc_tmctdm
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
```

* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_tdm.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: fields_y.i
* Purpose: Field declarations.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_y.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2.c,v 1.62 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx/l2.c
* Purpose: BCMX L2 APIs
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/l2.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: qux_appl_intr.c, v1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implements application interrupt lists for JERICHO.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/qux_intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: esmc.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: esmc.c
*
* Purpose: Ethernet Synchronization Messaging Channel (ESMC) infrastructure.
*
* Functions:
*     bcm_esmc_init
*     bcm_esmc_rx
*     bcm_esmc_tx
*     bcm_esmc_rx_callback_register
*     bcm_esmc_rx_callback_unregister
*     bcm_esmc_tunnel_get
*     bcm_esmc_tunnel_set
*     bcm_esmc_g781_option_get()
*     bcm_esmc_g781_option_set()
*     bcm_esmc_QL_SSM_map
*     bcm_esmc_SSM_QL_map
*     bcm_esmc_pdu_port_data_get()
*
*     bcm_esmc_pdu_read
*     bcm_esmc_pdu_write
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/esmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200WredDataTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**

* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
```

```
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*/
/*
* $Id: sbZfFabBm3200WredDataTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200WredDataTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arl.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC_DNX STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: config.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  config.h
* Purpose:  SAL Configuration file definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/config.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_int.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains aggregated definitions for Guadalupe 3 microcode
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000InitStatus.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000InitStatus.h : Enumerated FE2000 status codes
*
*------------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000InitStatus.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/hal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    pon.c
* Purpose: Manages pon interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/pon.c
No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA module.
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hnddma.c,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hnddma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: thread.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/thread.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
```

```
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250PciLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250JTAGSio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250Lib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/rhone.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/sentosa.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250CpuInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/swarm.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250DramInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250DuartSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/rhone.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/rhone.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/sentosa.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250Lib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/rhone.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250Timer.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sentosa.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/rhone.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/rhone.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250IntLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250CpuInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/swarm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sentosa.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/sentosa.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/rhone.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250JTAGSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250PciLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sentosa.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250IntLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/romInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/hs_rdwr.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250DramInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/swarm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250DuartSio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250CpuInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250PciLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/hs_rdwr.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/sysTimer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/sysBcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250PciLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250Timer.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sentosa.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/metrocore/vxworks5x/bcm1125/hs_rdwr.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/swarm.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250PciLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/swarm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/swarm.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/sysBcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/romInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/sentosa.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250CpuInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/romInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250Lib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/rhone.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250Timer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250PciLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250DuartSio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/mips3_ldsd.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250JTAGSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/mips3_ldsd.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250JTAGSio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/mips3_ldsd.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/swarm.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250IntLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250PciLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/mips3_ldsd.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250IntLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/hs_rdwr.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250DramInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250DuartSio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250PciLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250Timer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250Lib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/swarm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/romInit.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/sysTimer.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250DramInit.s
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.2.10.11.2.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stat.h
* Purpose:    STAT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/stack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/stack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/stat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_device.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_device.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
    dispatcher

File Name:
    flow.h

File Description:

$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 17/4/2001   Initial Creation

*****************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/flow/flow.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rce_int.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    rce.h
* Purpose: Caladan3 Rule Classifier drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/rce_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_quadra28_dependencies.c                          *
*  Created On    :  05/29/2014                                              *
*  Description   :  Version of Dependency APIs used in Eval                 *
*  Revision      :  $Id: $                                                  *
*                                                                           *
*  Copyright 2013  Broadcom Corporation                                     *
*  All Rights Reserved                                                      *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/*
* flashutl.c - Flash Read/write/Erase routines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flashutl.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashutl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sat.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for managing Higig headers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/sat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_l3mc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_l3mc.c
* Purpose: Maintains all the debug information for l3mc(layer 3 multicast)
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3mc/tomahawk_l3mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast Table Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: phy84793.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*     Copyright (c) 1999-2013, Broadcom Corporation
*     All Rights Reserved
*     Confidential Property of Broadcom Corporation
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
```

```
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on        Sun Feb 17 21:44:14 2013
*               MD5 Checksum         d546e11aade78f6ba77a368ccf3444ae
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  common_por_regs      1
*               ctl_regs             1
*               hs_rx_cdr            1
*               hs_rx_cdr_cm         1
*               hs_rx_cdr_sh         1
*               hs_tx_cdr_tpc        1
*               ieee_pma_pmd_control_2_regs1
*               ieee_pma_pmd_regs    1
*               rg_rx                2
*               rg_tx                2
*               slice_regs           1
*               vsr40_rx_ana25g      1
*               vsr40_rx_dig_regs    1
*               vsr40_rx_pll         1
*               vsr40_tx_ana25g      1
*               vsr40_tx_dig_regs    1
*               vsr40_tx_pll         1
*
* RDB Files:  /projects/ntsw-sw2/home/arunkuma/enzo_sdk/sdk/src/soc/phy/regs/scripts/Linux/single_rdb.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84793.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_vid_assign.h,v 1.8 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_vid_assign.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_vid_assign.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avs.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       avs.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/avs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pe_app.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/pe_app.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_pll_config.c                                  *
*  Created On    :  23/12/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Falcon Furia PLL Configuration API                         *
*  Revision      :  $Id: falcon_furia_pll_config.c 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stats.h, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     stats.h
* Purpose:
*
* cpu occupation stats routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/stats.h
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing the SOC Interconnects
```

```
* of Broadcom HNBU chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: siutils.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/siutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stack.h
* Purpose:     STACK internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/stack.h
No license file was found, but licenses were detected in source scan.

```
/*
* ! \file bcm_int/dnx/l3/l3_fec.h Internal DNX L3 FEC APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/l3/l3_fec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_cell.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* In-band cell configuration and Source Routed Cell.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vlan_control_config.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vlan_control_config.c
* Purpose: Example of VLAN control configurations
*
* Calling sequence:
*  1. Create vlan, Add port and Set the flood group for basic bridging.
*       - Call bcm_vlan_create()
*       - Call bcm_vlan_port_add()
*       - Call bcm_vlan_control_vlan_set()
*       - Call bcm_multicast_create()
*       - Call bcm_multicast_ingress_add()
*  2. Create vlan, Add port, and Create Vsi upper than 4K and Set the flood group for basic bridging.
*       - Call bcm_vlan_create()
*       - Call bcm_vlan_port_add()
*       - Call bcm_vswitch_create()
*       - Call bcm_vlan_control_vlan_set()
*       - Call bcm_multicast_create()
*       - Call bcm_multicast_ingress_add()
*
* Traffic:
*  1. For case Vlan=10 :
* a) unknow unicast group=unknow multicast group=broadcast group=10.
* b) unknow unicast group=10; unknow multicast group=4096+10; broadcast group=8192+10.
*  unkown unicast:
*     -  Send Ethernet packet  to port 1:
*        -  SA 00:00:00:00:00:05
*        -  Unknown DA
*        -  VLAN tag: VLAN tag type 0x8100, VID =10
*     -  Packet is transmitted to port 2.
*
*  unkown multicast:
*     -  Send Ethernet packet  to port 1:
*        -  SA 00:00:00:00:00:05
*        -  Unknow multicast DA 01:00:5E:01:01:01
*        -  VLAN tag: VLAN tag type 0x8100, VID =10
*     -  Packet is transmitted to port 2.
*
*  broadcast
*     -  Send Ethernet packet to port 1:
*        -  SA 00:00:00:00:00:05
```

```
*         -   DA FF:FF:FF:FF:FF:FF
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*      -   Packet is flooded to port 2(as DA is not known).
*
*  2. For case Vlan=10 Vsi=4096:
* a) unknow unicast group=unknow multicast group=broadcast group=4096.
* b) unknow unicast group=4096; unknow multicast group=4096+4096; broadcast group=8192+4096.
*  unkown unicast:
*      -   Send Ethernet packet  to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*      -   Packet is transmitted to port 2.
*
*  unkown multicast:
*      -   Send Ethernet packet  to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknow multicast DA 01:00:5E:01:01:01
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*      -   Packet is transmitted to port 2.
*
*  broadcast
*      -   Send Ethernet packet to port 1:
*         -   SA 00:00:00:00:00:05
*         -   DA FF:FF:FF:FF:FF:FF
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*      -   Packet is flooded to port 2(as DA is not known).
*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/cint_vlan_control_config.c
*      BCM> cint
*      cint> vlan_control_config_run(unit, vid, vpn_lower_4k, dflt_frwrd);
*
* Please note:
* 1. In ARAD, dflt_frwrd must be set to 1.
* 2. In order to set various default forwarding modes, e.g unknown unicast, unknown multicast and broadcast ,use :
* bcmPortControlFloodUnknownUcastGroup, bcmPortControlFloodUnknownMcastGroup,
bcmPortControlFloodBroadcastGroup per port or VLAN-Port.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_control_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.141 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     Receive packet mechanism
* Requires:
*
* See sdk/doc/txrx.txt and pkt.txt for
* information on the RX API and implementation.
*
* Quick overview:
*
*     Packet buffer allocation/deallocation is user configurable.
*     This expects to be given monolithic (single block) buffers.
*     When "HANDLED_OWNED" is returned by a handler, that means
*     that the data buffer is stolen, not the packet structure.
*
*     Callback functions may be registered in interrupt or non-
*     interrupt mode.  Non-interrupt is preferred.
*
*     Interrupt load is limited by setting overall rate limit
*     (bcm_rx_rate_burst_set/get).
*
*     If a packet is not serviced in interrupt mode, it is queued
*     based on its COS.
*
*     Each queue has a rate limit (bcm_rx_cos_rate_set/get) which
*     controls the number of callbacks that will be made for the queue.
*     The non-interrupt thread services these queues from highest to
*     lowest and will discard packets in the queue when they exceed
*     the queue's rate limit.
*
*     Packets handled at interrupt level are still accounted for in
*     the COS rate limiting.
*
*     A channel is:
*         Physically:  A separate hardware DMA process
*         Logically:  A collection of COS bundled together.
*     Rate limiting per channel is no longer supported (replaced
*     by COS queue rate limiting).
*
*     Channels may be enabled and disabled separately from starting RX
*     running.  However, stopping RX disables all channels.
*
*     Packets are started in groups called "chains", each of which
*     is controlled by a "DV" (DMA-descriptor vector).
*
*     Updates to the handler linked list need to be synchronized
```

```
*     both with thread packet processing (mutex) and interrupt
*     packet processing (spl).
*
*     If no real callouts are registered (other than internal discard)
*     don't bother starting DVs, nor queuing input pkts into cos queues.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/rx.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_FALCON_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_falcon_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_filter.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_filter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vlan_egress_membership.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of UDP tunnel encapsulation
```

```
*
* Configuration Steps:
*       Create UDP tunnel
*       Add IPv4_1, IPv6_1 and MPLS_1 routes to UDP tunnel
*       Create MPLSoUDP tunnel using previously created UDP tunnel
*       Add IPv4_2, IPv6_2 and MPLS_2 routes to MPLSoUDP tunnel
*
* Test scenario:
* step 1: UDP Tunnel Encapsulation
*         Send IPv4_1 packet, Receive IPv4_1oUDPoIPv4
*         Send IPv6_1 packet, Receive IPv6_1oUDPoIPv4
*         Send MPLS_1 packet, Receive MPLS_1oUDPoIPv4
*
* step 2: MPLS_2oUDP Tunnel Encapsulation
*         Send IPv4_2 packet, Receive IPv4_2oMPLS_2oUDPoIPv4
*         Send IPv6_2 packet, Receive IPv6_2oMPLS_2oUDPoIPv4
*         Send MPLS_2 packet, Receive MPLS_2oMPLS_2oUDPoIPv4
*
* step 3: Change UDP tunnel destination ports
         repeat step 1, with the new destination ports
*
* Example:
*
*     INPUT, port 200    ___________________________________     OUTPUT, port 201
*                   |                  ___________|
*                   |                  |         |
*       IPv4_1 ------> |------------------->| UDP      | ------> IPv4_1oUDPoIPv4
        IPv6_1 ------> |------------------->| Tunnel   | ------> IPv6_1oUDPoIPv4
*       MPLS_1 ------> |------------------->| Encap.   | ------> MPLS_1oUDPoIPv4
*                   |  ___________      |         |
*                   | |         |    |         |
*       IPv4_2 ------> |->| MPLS     |---->|         | ------> IPv4_2oMPLS_2oUDPoIPV4
*       IPv6_2 ------> |->| Tunnel   |---->|         | ------> IPv6_2oMPLS_2oUDPoIPv4
*       MPLS_3 ------> |->| Encap.   |---->|___________| ------> MPLS_3oMPLS_2oUDPoIPv4
*                   | |___________|              |
*                   |___________________________________|
*
* SOC properties:
* udp_tunnel_enable=1
* bcm886xx_ip4_tunnel_termination_mode=6
*
* CINT files:
* cd ../../../../src/examples/dpp/
* utility/cint_utils_l3.c
* utility/cint_utils_vlan.c
* cint_ip_tunnel.c
* cint_ip_route.c
*
```

```
* udp_tunnel_encap__start_run(int unit, udp_tunnel_encap_s *test_data) - test_data = NULL for default params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_udp_tunnel_encap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpSlimVlanRecord.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpSlimVlanRecord.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_1Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon_furia_dependencies.c                    *
*  Created On    :  05/29/2014                                     *
*  Created By    :  Sharad Sharma                                  *
*  Description   :  Version of Dependency APIs used in Eval        *
*  Revision      :  $Id: $                                         *
*                                                                  *
*  Copyright 2013  Broadcom Corporation                            *
*  All Rights Reserved                                             *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                      *
*      Broadcom Corporation                                        *
```

```
*     5300 California Avenue                                    *
*     Irvine, CA  92617                                         *
*                                                               *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                           *
*                                                               *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_eg_protection.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_eg_protection.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyegphy28.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyegphy28.c
* Purpose:     PHY driver for BCM EGPHY28
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_egphy28.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_integer_arithmetic.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_integer_arithmetic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_integer_arithmetic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_integer_arithmetic.c
No license file was found, but licenses were detected in source scan.

/*
****
Copyright 2009-2013 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS

LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/arch.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: stg.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/stg.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bst.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/bst.h
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_mem.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/sim/dpp/ChipSim/chip_sim_mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: progress.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Progress Report module
*
*   Usage:
*
* Call progress_init and pass it a measure of the total count.
*  To avoid messing up the display, try not to print
*  anything from now until you've called progress_done.
*
* In your loop, call progress_report on every iteration and pass it
*  an increment to the current count (usually 1).
*  Regardless of how often it is called, an adaptive
*  algorithm calls time() on average once per second,
*  and updates the display if the percentage changes.
*
* Call progress_status at any time to add or change a status
*  message displayed along with the percent done.
*
* Call progress_done when finished.
*
*   If the entire procedure completes before start_seconds
*  elapses, nothing is printed at all.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/progress.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    eth_lm_dm.h
* Purpose: ETH_LM_DM definitions common to SDK and uKernel
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/eth_lm_dm.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_mgmt.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: merlin_dino_fields.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for MERLIN_DINO                              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_fields.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56630sanity.soc,v 1.1.206.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
```

```
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done
```

```
echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
```

```
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
```

```
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
```

```
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
```

```
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
```

```
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
```

```
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
```

```
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
```

```
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
```

```
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
```

```
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
```

```
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
```

```
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
```

```
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
```

```
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
```

```
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
```

```
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
```

```
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
```

```
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
```

```
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
```

```
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
```

```
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
```

```
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
```

```
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
```

```
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
```

```
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
```

```
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
```

```
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
```

```
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
```

```
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
```

```
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
```

```
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
```

```
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
```

```
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
```

```
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
```

```
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
```

```
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
```

```
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
```

```
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
```

```
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
```

```
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
```

```
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
```

```
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
```

```
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
```

```
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
```

```
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
```

```
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
```

```
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
```

```
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
```

```
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done
```

```
#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
```

```
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done
```

```
echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
```

```
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?
```

```
echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56630sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ctrl_if.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ctrl_if.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avl.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  avl.h
* Purpose:  Defines a generic AVL tree data structure.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/avl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qos.c
* Purpose:     Tomahawk QoS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdesrobo.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdes.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdesrobo.h
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common defs for reg spec for chip c2
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_c2_auto.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_interrupts.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_interrupts.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_port.c,v 1.37.20.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_port.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Shadow Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
rcload rc.soc
counter off
#l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'
```

```
#Display some useful information
date
ver
soc

#Start Test
#echo "Running PCI Compliance ..."
#tr 2
#$done

#echo "Running PCI S-Channel Buf ..."
#tr 4
#$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3
$done

linkscan off
set rct=false
init soc

echo "Running Memory Tests ..."
echo "tr 50 M=ARB_TDM_TABLE";tr 50 M=ARB_TDM_TABLE; echo " Done"
echo "tr 50 M=CTR_MEM";tr 50 M=CTR_MEM; echo " Done"
echo "tr 50 M=DEBUG_CAPTURE";tr 50 M=DEBUG_CAPTURE; echo " Done"
echo "tr 50 M=DSCP_TABLE";tr 50 M=DSCP_TABLE; echo " Done"
echo "tr 50 M=E2E_HOL_STATUS";tr 50 M=E2E_HOL_STATUS; echo " Done"
echo "tr 50 M=EGR_DSCP_TABLE";tr 50 M=EGR_DSCP_TABLE; echo " Done"
echo "tr 50 M=EGR_IL_CHANNEL_MAP";tr 50 M=EGR_IL_CHANNEL_MAP; echo " Done"
echo "tr 50 M=EGRESS_MASK";tr 50 M=EGRESS_MASK; echo " Done"
echo "tr 50 M=EGR_PERQ_XMT_COUNTERS";tr 50 M=EGR_PERQ_XMT_COUNTERS; echo " Done"
echo "tr 50 M=EGR_PRI_CNG_MAP";tr 50 M=EGR_PRI_CNG_MAP; echo " Done"
echo "tr 50 M=EGR_SCI_TABLE";tr 50 M=EGR_SCI_TABLE; echo " Done"
echo "tr 50 M=EGR_VLAN";tr 50 M=EGR_VLAN; echo " Done"
echo "tr 50 M=EGR_VLAN_STG";tr 50 M=EGR_VLAN_STG; echo " Done"
echo "tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE";tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE; echo "
Done"
echo "tr 50 M=EGR_VLAN_XLATE";tr 50 M=EGR_VLAN_XLATE; echo " Done"
echo "tr 50 M=EGR_VLAN_XLATE_SCRATCH";tr 50 M=EGR_VLAN_XLATE_SCRATCH; echo " Done"
echo "tr 50 M=ESEC_PKT_HEADER_CAPTURE_BUFFER";tr 50
M=ESEC_PKT_HEADER_CAPTURE_BUFFER; echo " Done"
echo "tr 50 M=ESEC_SA_KEY_TABLE";tr 50 M=ESEC_SA_KEY_TABLE; echo " Done"
echo "tr 50 M=ESEC_SA_TABLE";tr 50 M=ESEC_SA_TABLE; echo " Done"
```

```
echo "tr 50 M=ESEC_SC_TABLE";tr 50 M=ESEC_SC_TABLE; echo " Done"
echo "tr 50 M=ES_ARB_TDM_TABLE";tr 50 M=ES_ARB_TDM_TABLE; echo " Done"
echo "tr 50 M=EXP_TABLE";tr 50 M=EXP_TABLE; echo " Done"
echo "tr 50 M=FILTERMATCHCOUNT";tr 50 M=FILTERMATCHCOUNT; echo " Done"
echo "tr 50 M=FP_COUNTER_TABLE";tr 50 M=FP_COUNTER_TABLE; echo " Done"
echo "tr 50 M=FP_POLICY_TABLE";tr 50 M=FP_POLICY_TABLE; echo " Done"
echo "tr 50 M=FP_PORT_FIELD_SEL";tr 50 M=FP_PORT_FIELD_SEL; echo " Done"
echo "tr 50 M=FP_RANGE_CHECK";tr 50 M=FP_RANGE_CHECK; echo " Done"
echo "tr 50 M=FP_SLICE_KEY_CONTROL";tr 50 M=FP_SLICE_KEY_CONTROL; echo " Done"
echo "tr 50 M=FP_SLICE_MAP";tr 50 M=FP_SLICE_MAP; echo " Done"
echo "tr 50 M=FP_STORM_CONTROL_METERS";tr 50 M=FP_STORM_CONTROL_METERS; echo " Done"
echo "tr 50 M=FP_TCAM";tr 50 M=FP_TCAM; echo " Done"
echo "tr 50 M=UDF_OFFSET";tr 50 M=UDF_OFFSET; echo " Done"
echo "tr 50 M=IL_CHANNEL_REMAP0";tr 50 M=IL_CHANNEL_REMAP0; echo " Done"
echo "tr 50 M=IL_CHANNEL_REMAP1";tr 50 M=IL_CHANNEL_REMAP1; echo " Done"
echo "tr 50 M=IL_STAT_MEM_0";tr 50 M=IL_STAT_MEM_0; echo " Done"
echo "tr 50 M=IL_STAT_MEM_1";tr 50 M=IL_STAT_MEM_1; echo " Done"
echo "tr 50 M=IL_STAT_MEM_2";tr 50 M=IL_STAT_MEM_2; echo " Done"
echo "tr 50 M=IL_STAT_MEM_3";tr 50 M=IL_STAT_MEM_3; echo " Done"
echo "tr 50 M=IL_STAT_MEM_4";tr 50 M=IL_STAT_MEM_4; echo " Done"
echo "tr 50 M=INCTRLBCASTPKTS";tr 50 M=INCTRLBCASTPKTS; echo " Done"
echo "tr 50 M=INCTRLBYT";tr 50 M=INCTRLBYT; echo " Done"
echo "tr 50 M=INCTRLDISCPKTS";tr 50 M=INCTRLDISCPKTS; echo " Done"
echo "tr 50 M=INCTRLERRPKTS";tr 50 M=INCTRLERRPKTS; echo " Done"
echo "tr 50 M=INCTRLMCASTPKTS";tr 50 M=INCTRLMCASTPKTS; echo " Done"
echo "tr 50 M=INCTRLUCASTPKTS";tr 50 M=INCTRLUCASTPKTS; echo " Done"
echo "tr 50 M=ING_PRI_CNG_MAP";tr 50 M=ING_PRI_CNG_MAP; echo " Done"
echo "tr 50 M=ING_VLAN_RANGE";tr 50 M=ING_VLAN_RANGE; echo " Done"
echo "tr 50 M=ING_VLAN_TAG_ACTION_PROFILE";tr 50 M=ING_VLAN_TAG_ACTION_PROFILE; echo "
Done"
echo "tr 50 M=IPORT_TABLE";tr 50 M=IPORT_TABLE; echo " Done"
echo "tr 50 M=ISEC_BYPASS_FILTER_TABLE";tr 50 M=ISEC_BYPASS_FILTER_TABLE; echo " Done"
echo "tr 50 M=ISEC_DEBUG_RAM";tr 50 M=ISEC_DEBUG_RAM; echo " Done"
echo "tr 50 M=ISEC_SA_KEY_TABLE";tr 50 M=ISEC_SA_KEY_TABLE; echo " Done"
echo "tr 50 M=ISEC_SA_TABLE";tr 50 M=ISEC_SA_TABLE; echo " Done"
echo "tr 50 M=ISEC_SC_TABLE";tr 50 M=ISEC_SC_TABLE; echo " Done"
echo "tr 50 M=AGING_CTR";tr 50 M=AGING_CTR; echo " Done"
echo "tr 50 M=AGING_EXP";tr 50 M=AGING_EXP; echo " Done"
echo "tr 50 M=CBPDATA0";tr 50 M=CBPDATA0; echo " Done"
echo "tr 50 M=CBPDATA1";tr 50 M=CBPDATA1; echo " Done"
echo "tr 50 M=CBPDATA2";tr 50 M=CBPDATA2; echo " Done"
echo "tr 50 M=CBPDATA3";tr 50 M=CBPDATA3; echo " Done"
echo "tr 50 M=CBPDATA4";tr 50 M=CBPDATA4; echo " Done"
echo "tr 50 M=CBPDATA5";tr 50 M=CBPDATA5; echo " Done"
echo "tr 50 M=CBPDATA6";tr 50 M=CBPDATA6; echo " Done"
echo "tr 50 M=CBPDATA7";tr 50 M=CBPDATA7; echo " Done"
echo "tr 50 M=CBPDATA8";tr 50 M=CBPDATA8; echo " Done"
echo "tr 50 M=CBPDATA9";tr 50 M=CBPDATA9; echo " Done"
```

```
echo "tr 50 M=CBPDATA10";tr 50 M=CBPDATA10; echo " Done"
echo "tr 50 M=CBPDATA11";tr 50 M=CBPDATA11; echo " Done"
echo "tr 50 M=CBPDATA12";tr 50 M=CBPDATA12; echo " Done"
echo "tr 50 M=CBPDATA13";tr 50 M=CBPDATA13; echo " Done"
echo "tr 50 M=CBPDATA14";tr 50 M=CBPDATA14; echo " Done"
echo "tr 50 M=CBPDATA15";tr 50 M=CBPDATA15; echo " Done"
echo "tr 50 M=CBPPKTHEADER0_MEM0";tr 50 M=CBPPKTHEADER0_MEM0; echo " Done"
echo "tr 50 M=CBPPKTHEADER0_MEM1";tr 50 M=CBPPKTHEADER0_MEM1; echo " Done"
echo "tr 50 M=CBPPKTHEADER0_MEM2";tr 50 M=CBPPKTHEADER0_MEM2; echo " Done"
echo "tr 50 M=CBPPKTHEADER0_MEM3";tr 50 M=CBPPKTHEADER0_MEM3; echo " Done"
echo "tr 50 M=CBPPKTLENGTH";tr 50 M=CBPPKTLENGTH; echo " Done"
echo "tr 50 M=CELLCHK";tr 50 M=CELLCHK; echo " Done"
echo "tr 50 M=CELLLINK";tr 50 M=CELLLINK; echo " Done"
echo "tr 50 M=CFAP";tr 50 M=CFAP; echo " Done"
echo "tr 50 M=PKTLINK0";tr 50 M=PKTLINK0; echo " Done"
echo "tr 50 M=WRED_CFG_CELL";tr 50 M=WRED_CFG_CELL; echo " Done"
echo "tr 50 M=WRED_PORT_CFG_CELL";tr 50 M=WRED_PORT_CFG_CELL; echo " Done"
echo "tr 50 M=WRED_PORT_THD_0_CELL";tr 50 M=WRED_PORT_THD_0_CELL; echo " Done"
echo "tr 50 M=WRED_PORT_THD_1_CELL";tr 50 M=WRED_PORT_THD_1_CELL; echo " Done"
echo "tr 50 M=WRED_THD_0_CELL";tr 50 M=WRED_THD_0_CELL; echo " Done"
echo "tr 50 M=WRED_THD_1_CELL";tr 50 M=WRED_THD_1_CELL; echo " Done"
echo "tr 50 M=OUTCTRLBCASTPKTS";tr 50 M=OUTCTRLBCASTPKTS; echo " Done"
echo "tr 50 M=OUTCTRLBYT";tr 50 M=OUTCTRLBYT; echo " Done"
echo "tr 50 M=OUTCTRLERRPKTS";tr 50 M=OUTCTRLERRPKTS; echo " Done"
echo "tr 50 M=OUTCTRLMCASTPKTS";tr 50 M=OUTCTRLMCASTPKTS; echo " Done"
echo "tr 50 M=OUTCTRLUCASTPKTS";tr 50 M=OUTCTRLUCASTPKTS; echo " Done"
echo "tr 50 M=OUTUNCTRLBCASTPKTS";tr 50 M=OUTUNCTRLBCASTPKTS; echo " Done"
echo "tr 50 M=OUTUNCTRLBYT";tr 50 M=OUTUNCTRLBYT; echo " Done"
echo "tr 50 M=OUTUNCTRLERRPKTS";tr 50 M=OUTUNCTRLERRPKTS; echo " Done"
echo "tr 50 M=OUTUNCTRLMCASTPKTS";tr 50 M=OUTUNCTRLMCASTPKTS; echo " Done"
echo "tr 50 M=OUTUNCTRLUCASTPKTS";tr 50 M=OUTUNCTRLUCASTPKTS; echo " Done"
echo "tr 50 M=COS_MAP";tr 50 M=COS_MAP; echo " Done"
echo "tr 50 M=PORT";tr 50 M=PORT; echo " Done"
echo "tr 50 M=QL_TABLE0";tr 50 M=QL_TABLE0; echo " Done"
echo "tr 50 M=QL_TABLE1";tr 50 M=QL_TABLE1; echo " Done"
echo "tr 50 M=RXBADTAGPKTS";tr 50 M=RXBADTAGPKTS; echo " Done"
echo "tr 50 M=RXNOSCIPKTS";tr 50 M=RXNOSCIPKTS; echo " Done"
echo "tr 50 M=RXNOTAGPKTS";tr 50 M=RXNOTAGPKTS; echo " Done"
echo "tr 50 M=RXSAINVLDPKTS";tr 50 M=RXSAINVLDPKTS; echo " Done"
echo "tr 50 M=RXSANOTUSINGSAPKTS";tr 50 M=RXSANOTUSINGSAPKTS; echo " Done"
echo "tr 50 M=RXSANOTVLDPKTS";tr 50 M=RXSANOTVLDPKTS; echo " Done"
echo "tr 50 M=RXSAOKPKTS";tr 50 M=RXSAOKPKTS; echo " Done"
echo "tr 50 M=RXSAUNUSEDSAPKTS";tr 50 M=RXSAUNUSEDSAPKTS; echo " Done"
echo "tr 50 M=RXSCDCRPTBYT";tr 50 M=RXSCDCRPTBYT; echo " Done"
echo "tr 50 M=RXSCDLYPKTS";tr 50 M=RXSCDLYPKTS; echo " Done"
echo "tr 50 M=RXSCINVLDPKTS";tr 50 M=RXSCINVLDPKTS; echo " Done"
echo "tr 50 M=RXSCLATEPKTS";tr 50 M=RXSCLATEPKTS; echo " Done"
echo "tr 50 M=RXSCNOTUSINGSAPKTS";tr 50 M=RXSCNOTUSINGSAPKTS; echo " Done"
```

```
echo "tr 50 M=RXSCNOTVLDPKTS";tr 50 M=RXSCNOTVLDPKTS; echo " Done"
echo "tr 50 M=RXSCOKPKTS";tr 50 M=RXSCOKPKTS; echo " Done"
echo "tr 50 M=RXSCUNCHKPKTS";tr 50 M=RXSCUNCHKPKTS; echo " Done"
echo "tr 50 M=RXSCUNUSEDSAPKTS";tr 50 M=RXSCUNUSEDSAPKTS; echo " Done"
echo "tr 50 M=RXSCVLDTBYT";tr 50 M=RXSCVLDTBYT; echo " Done"
echo "tr 50 M=RXUNKNOWNSCIPKTS";tr 50 M=RXUNKNOWNSCIPKTS; echo " Done"
echo "tr 50 M=RXUNTAGPKTS";tr 50 M=RXUNTAGPKTS; echo " Done"
echo "tr 50 M=SOURCE_TRUNK_MAP";tr 50 M=SOURCE_TRUNK_MAP; echo " Done"
echo "tr 50 M=VLAN_STG";tr 50 M=VLAN_STG; echo " Done"
echo "tr 50 M=TCP_FN";tr 50 M=TCP_FN; echo " Done"
echo "tr 50 M=TOS_FN";tr 50 M=TOS_FN; echo " Done"
echo "tr 50 M=TRUNK_BITMAP";tr 50 M=TRUNK_BITMAP; echo " Done"
echo "tr 50 M=TTL_FN";tr 50 M=TTL_FN; echo " Done"
echo "tr 50 M=TXSACRPTPKTS";tr 50 M=TXSACRPTPKTS; echo " Done"
echo "tr 50 M=TXSAPRTCPKTS";tr 50 M=TXSAPRTCPKTS; echo " Done"
echo "tr 50 M=TXSCCRPTBYT";tr 50 M=TXSCCRPTBYT; echo " Done"
echo "tr 50 M=TXSCCRPTPKTS";tr 50 M=TXSCCRPTPKTS; echo " Done"
echo "tr 50 M=TXSCPRTCBYT";tr 50 M=TXSCPRTCBYT; echo " Done"
echo "tr 50 M=TXSCPRTCPKTS";tr 50 M=TXSCPRTCPKTS; echo " Done"
echo "tr 50 M=TXUNTAGPKTS";tr 50 M=TXUNTAGPKTS; echo " Done"
echo "tr 50 M=UFLOW_A";tr 50 M=UFLOW_A; echo " Done"
echo "tr 50 M=UFLOW_B";tr 50 M=UFLOW_B; echo " Done"
echo "tr 50 M=VLAN_MAC";tr 50 M=VLAN_MAC; echo " Done"
echo "tr 50 M=VLAN_MAC_SCRATCH";tr 50 M=VLAN_MAC_SCRATCH; echo " Done"
echo "tr 50 M=VLAN_PROFILE_2";tr 50 M=VLAN_PROFILE_2; echo " Done"
echo "tr 50 M=VLAN_PROFILE";tr 50 M=VLAN_PROFILE; echo " Done"
echo "tr 50 M=VLAN_PROTOCOL";tr 50 M=VLAN_PROTOCOL; echo " Done"
echo "tr 50 M=VLAN_PROTOCOL_DATA";tr 50 M=VLAN_PROTOCOL_DATA; echo " Done"
echo "tr 50 M=VLAN_SUBNET";tr 50 M=VLAN_SUBNET; echo " Done"
echo "tr 50 M=VLAN_SUBNET_DATA_ONLY";tr 50 M=VLAN_SUBNET_DATA_ONLY; echo " Done"
echo "tr 50 M=VLAN_SUBNET_ONLY";tr 50 M=VLAN_SUBNET_ONLY; echo " Done"
echo "tr 50 M=VLAN";tr 50 M=VLAN; echo " Done"
echo "tr 50 M=VLAN_XLATE";tr 50 M=VLAN_XLATE; echo " Done"
echo "tr 50 M=VLAN_XLATE_SCRATCH";tr 50 M=VLAN_XLATE_SCRATCH; echo " Done"

#rcload rc.soc
#counter off
#l2mode off
#echo "Running CPU Benchmarks ..."
#tr 21
#$done
#linkscan off

#set rct=false

#echo "Running Switching Memory Tests ..."
#local name 'echo " $mem"';
#local tr50 'tr 50 Memory=$mem';
```

```
#local tr51 'tr 51 Memory=$mem';
#local tr52 'tr 52 Memory=$mem';
#
#init soc;
#local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'ARB_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
#local mem 'ARB_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
#local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
#local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'CPU_PBM'; $name; $tr50;
#local mem 'CPU_PBM_2'; $name; $tr50;
#local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr50;
#local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr50;
#local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
#local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
#local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_METER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_METER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
#local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
#local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
#local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
#local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
#local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
#local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
#local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
#local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
#local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'EPC_LINK_BMAP'; $name; $tr50;
#local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
#local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'FP_GM_FIELDS'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
#local mem 'FP_SLICE_MAP'; $name; $tr50;
#local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
#local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
#local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
#local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
#local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
#local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
#local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
#local mem 'IARB_MAIN_TDM'; $name; $tr50; $tr51; $tr52;
#local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
#local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51;
$tr52;
#local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
#local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr50;
#local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_VLAN0'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_VLAN1'; $name; $tr50; $tr51; $tr52;
#local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
#local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
#local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_ENTRY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_BULK_MATCH_DATA'; $name; $tr50;
#local mem 'L2_BULK_MATCH_MASK'; $name; $tr50;
#local mem 'L2_BULK_REPLACE_DATA'; $name; $tr50;
#local mem 'L2_BULK_REPLACE_MASK'; $name; $tr50;
#local mem 'L2_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_HITDA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_HITSA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_128'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_128_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_MTU_VALUES'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
#local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
#local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
#local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
#local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
#local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
#local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA52'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA53'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA54'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA55'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA56'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA60'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA61'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA62'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA63'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA64'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA65'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA66'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA67'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA68'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA69'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA70'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA71'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA72'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA73'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA74'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA75'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA76'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA77'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA78'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA79'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA80'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA81'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA82'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA83'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA84'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA85'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA86'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA87'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA88'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA89'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA90'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA91'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA92'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA93'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA94'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'CBPDATA95'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA96'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA97'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA98'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA99'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA100'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA101'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA102'; $name; $tr50; $tr51; $tr52;
#local mem 'CBPDATA103'; $name; $tr50; $tr51; $tr52;
#local mem 'CCP'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK2'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK3'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
#local mem 'CPQLINK'; $name; $tr50; $tr51; $tr52;
#local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
#local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
#local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP1'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP2'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP3'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP4'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP5'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP6'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP7'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP8'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP9'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP10'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP11'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP12'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP13'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'IPMC_GROUP14'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP15'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP16'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP17'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP18'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP19'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP20'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP21'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP22'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP23'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP24'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP25'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP26'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP27'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP28'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP29'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP30'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP31'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP32'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP33'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP34'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP35'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP36'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP37'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP38'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP39'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP40'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP41'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP42'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP43'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP44'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP45'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP46'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP47'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP48'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP49'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP50'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP51'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP52'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP53'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP54'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP55'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP56'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP57'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP60'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP61'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP62'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP63'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'IPMC_GROUP64'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_GROUP65'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO62'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO63'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO64'; $name; $tr50; $tr51; $tr52;
#local mem 'MC_FIFO65'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK0_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK1_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK2_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_BANK3_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_DISTRIBUTOR_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'OVQ_DISTRIBUTOR_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
#local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_PQE_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_PQE_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr50; $tr51; $tr52;
#local mem 'QCN_CPQCFG'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
#local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
#local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
#local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_SP_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_SP_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_SP_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_SP_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_EX_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_EX_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_SP_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QDRPRST_SP_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_EX_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_EX_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_SP_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QREDRST_SP_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_EX_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_EX_1'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_SP_0'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_QYELRST_SP_1'; $name; $tr50; $tr51; $tr52;
#local mem 'UCQ_RP'; $name; $tr50; $tr51; $tr52;
#local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
#local mem 'WRED_DROP_THD_UC_DEQ0'; $name; $tr50; $tr51; $tr52;
#local mem 'WRED_DROP_THD_UC_DEQ1'; $name; $tr50; $tr51; $tr52;
#local mem 'WRED_DROP_THD_UC_ENQ0'; $name; $tr50; $tr51; $tr52;
#local mem 'WRED_DROP_THD_UC_ENQ1'; $name; $tr50; $tr51; $tr52;
#local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
#local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
#local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
#local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
#local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
#local mem 'MPLS_ENTRY'; $name; $tr50; $tr51; $tr52;
#local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr50;
#local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
#local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
#local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
#local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
#local mem 'PORT'; $name; $tr50; $tr51; $tr52;
#local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
#local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
#local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
#local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
#local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
#local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
#local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_0A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_0B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_1A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_CONFIG_EX_1B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_0A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_0B'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_1A'; $name; $tr50; $tr51; $tr52;
#local mem 'THDO_OFFSET_EX_1B'; $name; $tr50; $tr51; $tr52;
#local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
#local mem 'TRILL_DROP_STATS'; $name; $tr50;
#local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
#local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
#local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
#local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'VFI'; $name; $tr50; $tr51; $tr52;
#local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_MAC'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
#local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'VRF'; $name; $tr50; $tr51; $tr52;
#
#init misc
#local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
#$done
#
##Table DMA/Table SLAM
#echo "Running Table DMA Tests ..."
#local name 'echo " $mem"';
#local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
#local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
#local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';
#
#init soc
#local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_METER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_METER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GM_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IARB_MAIN_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'L2_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_HITDA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_HITSA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_128'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_MTU_VALUES'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MPLS_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_MAC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;

#init misc
#local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#$done

# Re-initialize to clean up of various read/wrires to MMU memories
#set rct=true
#rcload rc.soc
#counter off
#l2mode off
#linkscan off

#echo "Running counter width verification test ..."
#tr 30
#$done

#echo "Running counter read/write test ..."
#tr 31
#$done

#L2/L3 hashing tests
#echo "Running L2 insert/delete/lookup test ..."
#tr 32
#$done

#echo "Running L2 overflow insert test ..."
#tr 33
#$done

#echo "Running L2 hash test ..."
#tr 34
#$done

#echo "Running L2 delete by port test ..."
#tr 35
#$done

#echo "Running L2 delete by vlan test ..."
#tr 36
#$done

#echo "Running IPV4 overflow insert test ..."
#tr 87 IPMCEnable=False
#tr 87 IPMCEnable=True
#$done

#echo "Running IPV4 hash test ..."
#tr 88 IPMCEnable=False
#tr 88 IPMCEnable=True
#$done
```

```
#echo "Running IPV6 overflow insert test ..."
#tr 85 IPMCEnable=False
#tr 85 IPMCEnable=True
#$done

#echo "Running IPV6 hash test ..."
#tr 86 IPMCEnable=False
#tr 86 IPMCEnable=True
#$done

#echo "Running VLAN translate overflow insert test ..."
#tr 100

#echo "Running VLAN translate hash tests ..."
#tr 101 Hash=0
#tr 101 Hash=1
#tr 101 Hash=2
#tr 101 Hash=3
#tr 101 Hash=4
#tr 101 Hash=5
#$done

#echo "Running Egress VLAN translate overflow insert test ..."
#tr 102
#$done

#echo "Running Egress VLAN translate hash tests ..."
#tr 103 Hash=0
#tr 103 Hash=1
#tr 103 Hash=2
#tr 103 Hash=3
#tr 103 Hash=4
#tr 103 Hash=5
#$done

#echo "Running MPLS overflow insert test ..."
#tr 104
#$done

#echo "Running MPLS hash tests ..."
#tr 105 Hash=0
#tr 105 Hash=1
#tr 105 Hash=2
#tr 105 Hash=3
#tr 105 Hash=4
#tr 105 Hash=5
#$done
```

```
#echo "Running MDIO Linkscan test"
#tr 60
#$done

#echo "Testing CPU DMA loopback ..."
#tr 17
#$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
#$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
#$done

#MAC Loopback
#echo "Testing MAC Loopback - 10 Gb/s all XE ports"
#tr 18 PortBitMap=xe Speed=10G
#$done

#echo "Testing MAC Loopback - 10 Gb/s all HG ports"
#tr 18 PortBitMap=hg Speed=10G
#$done

#PHY Loopback
#echo "Testing PHY Loopback - 10 Gb/s all XE ports"
#tr 19 PortBitMap=xe Speed=10G
#$done

#echo "Testing PHY Loopback - 10 Gb/s all HG ports"
#tr 19 PortBitMap=hg Speed=10G
#$done

#echo "Running MAC loopback V2 on all ports ..."
#tr 48
#$done

#echo "Running PHY loopback V2 on all ports ..."
#tr 49
#$done

#Internal snake Loopback
#echo "Running internal snake on all ports, MAC loopback ..."
```

```
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe
#$done

#echo "Running internal snake on all ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe
#$done

#Traffic Test
#echo "Running Traffic Test in MAC mode ..."
#tr 72 RunMode=MAC PortBitMap=xe
#$done

#echo "Running Traffic Test in PHY mode ..."
#tr 72 RunMode=PHY PortBitMap=xe
#$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
```

```
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
#l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/shadowsanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_vlan_learning.c
* Purpose: Example of how to set l2 vlan learning with up to two devices.
*
*
* More details about Mact Learning can be found in cint_l2_learning.c
*
* Test 1:
*  Run:
*  cd ../../../src/examples/dpp/utility/
*  cint cint_utils_l2.c
*  cint cint_utils_multicast.c
*  cd -
*  cd ../../../src/examples/dpp/
*  cint cint_l2_vlan_learning.c
*  cint
*  l2_vlan_learning_run(unit, <port_1>, <port_2>);
*  learning_mode_set(unit, 0);
*
*  run packet:
*      ethernet header with DA 33 and any SA
```

```
*     vlan tag with vlan tag id 5
*  packet's SA will be learned
*
*  stop running traffic and wait 1 minute
*  SA will be deleted from Mac table
*
*  Run:
*  open_ingress_mc_group_num(0, 4500, 0, 1, <port_1>, <port_2>);
*
*  run same packet - this time there will be no learning
*
*  add a dynamic entry to Mac table
*  wait 1 minute
*  entry will not be deleted from Mac table
*
*
* test 2:
*  Run:
*  cint utility/cint_utils_global.c
*  cint cint_l2_vlan_learning.c
*  cint
*  l2_per_vlan_learning_run(unit, <port_1>, <port_2>);
*
*  run packet 1:
*     ethernet header with DA 33 and any SA
*     vlan tag with vlan tag id 33
*     from <port_1>
*  packet's SA will be learned
*  the packet will be sent to OLP
*
*  run packet 2:
*     ethernet header with DA 44 and any SA
*     vlan tag with vlan tag id 44
*     from <port_2>
*  packet's SA will not be learned
*  the packet will be sent to CPU
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_vlan_learning.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicsim.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       cmicsim.h
* Purpose:
* Notes:
*    REMEMBER  REMEMBER  REMEMBER  REMEMBER  REMEMBER
*
* SCHAN memory 0 to 0x4c is aliased to 0x800 on some chips.  If you
* ever manually adjust one of those spaces, make sure to take care
* of the other.  This is done currently in schan_op and in
* pli_setreg_service.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/cmicsim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls_lm_dm_pack.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls_lm_dm_pack.c
* Purpose:     MPLS_LM_DM pack and unpack routines for:
*             - MPLS_LM_DM Control messages
*             - Network Packet headers (PDUs)
*
*
* MPLS_LM_DM control messages
*
* MPLS_LM_DM messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The MPLS_LM_DM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/mpls_lm_dm_pack.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_tmd_api.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_tmd_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueAgeEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueAgeEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback2.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Loopback Tests, version 2
*
* MAC Sends packets from CPU to MAC in loopback mode, and back
* PHY Sends packets from CPU to PHY in loopback mode, and back
* EXT Sends packets from CPU out one port, in another, and back
* SNAKE Sends packets from CPU through ports via MAC or PHY loopback
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/loopback2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_vfp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_vfp.c
* Purpose: Maintains all the debug information for vfp
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/esw/techsupport/vfp/tomahawk_vfp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200NmRankAddr.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NmRankAddr.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200NmRankAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM43XX PCI core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: pci_core.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/pci_core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd_uc.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BFD UC Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bfd_uc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_rce_test1.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_rce_test1.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_drv_flash28f_dev.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bsp_drv_flash28f_dev.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: system.h,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This header file defines important constants and structures for
* use with the SOC Diagnostics Shell which is built upon the SOC
* driver and SAL (System Abstraction Layer)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/system.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_cpu_learning.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_cpu_learning.c
* Purpose: Example of how to set l2 cpu learning with up to two devices.
*          Example of how to enable cpu learn and handle learn and aged event.
*
* Test1:
*  Run:
*  cint cint_port_tpid.c
*  cint cint_l2_cpu_learning.c
*  cint
*  l2_cpu_learning_run(unit, port);
*
```

```
*  run packet 1:
*      ethernet header with DA 33 and any SA
*      vlan tag with vlan tag id 33
*      from any port
*
*  run packet 2:
*      ethernet header with DA 44 and any SA
*      vlan tag with vlan tag id 44
*      from any port
*
*  both packets will be sent to CPU
*
* Test2:
*   BCM> examples/dpp/utility/cint_utils_vlan.c
*      BCM> examples/dpp/cint_l2_cpu_learning.c
*      BCM> examples/dpp/cint_l2_mact.c
*      BCM> m IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1 FORCE_FABRIC=0
*      BCM> cint
*      cint> print l2_entry_control_set(unit, BCM_L2_INGRESS_CENT|BCM_L2_LEARN_CPU);
*      cint> print l2_entry_event_handle_register(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_cpu_learning.c
No license file was found, but licenses were detected in source scan.

```
/*
* Driver O/S-independent utility routines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmutils.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX SIM Socket client interface
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sbxsim/simsock.h
No license file was found, but licenses were detected in source scan.

/* $Id: tmc_api_mgmt.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_mgmt.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_fabric.h
No license file was found, but licenses were detected in source scan.

$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
Id

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=24
# WC0
ucode_port.port1.0=clport0.ge.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.ge.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.ge.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.ge.0.3:clport1.hg126.0.3

# WC1
ucode_port.port5.0=xtport0.ge.0.4:clport1.hg126.0.4
ucode_port.port6.0=xtport0.ge.0.5:clport1.hg126.0.5

```
ucode_port.port7.0=xtport0.ge.0.6:clport1.hg126.0.6
ucode_port.port8.0=xtport0.ge.0.7:clport1.hg126.0.7
ucode_port.port9.0=xtport0.ge.0.8:clport1.hg126.0.8
ucode_port.port10.0=xtport0.ge.0.9:clport1.hg126.0.9
ucode_port.port11.0=xtport0.ge.0.10:clport1.hg126.0.10
ucode_port.port12.0=xtport0.ge.0.11:clport1.hg126.0.11
ucode_port.port13.0=xtport1.ge.0.0:clport1.hg126.0.12
ucode_port.port14.0=xtport1.ge.0.1:clport1.hg126.0.13
ucode_port.port15.0=xtport1.ge.0.2:clport1.hg126.0.14
ucode_port.port16.0=xtport1.ge.0.3:clport1.hg126.0.15
ucode_port.port17.0=xtport1.ge.0.4:clport1.hg126.0.16
ucode_port.port18.0=xtport1.ge.0.5:clport1.hg126.0.17
ucode_port.port19.0=xtport1.ge.0.6:clport1.hg126.0.18
ucode_port.port20.0=xtport1.ge.0.7:clport1.hg126.0.19

# WC2
ucode_port.port21.0=clport0.xe.2.0:clport1.hg126.0.20
ucode_port.port22.0=clport0.xe.2.1:clport1.hg126.0.21
ucode_port.port23.0=clport0.xe.2.2:clport1.hg126.0.22
ucode_port.port24.0=clport0.xe.2.3:clport1.hg126.0.23

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1




#10G ports xe0-3 on WC2
#
xgxs_rx_lane_map_xe0=0x1230
xgxs_tx_lane_map_xe0=0x1032

phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0000
phy_xaui_tx_polarity_flip_xe1=0x0000
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001


# 1GE ports on WC0 & WC1
#
```

```
xgxs_rx_lane_map_ge0=0x1230
xgxs_rx_lane_map_ge4=0x1032
xgxs_rx_lane_map_ge12=0x1032

xgxs_tx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge4=0x3210
xgxs_tx_lane_map_ge12=0x3210

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001

phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0001
phy_xaui_rx_polarity_flip_ge11=0x0001

phy_xaui_rx_polarity_flip_ge12=0x0001
phy_xaui_rx_polarity_flip_ge13=0x0001
phy_xaui_rx_polarity_flip_ge14=0x0001
phy_xaui_rx_polarity_flip_ge15=0x0001
phy_xaui_rx_polarity_flip_ge16=0x0001
phy_xaui_rx_polarity_flip_ge17=0x0001
phy_xaui_rx_polarity_flip_ge18=0x0001
phy_xaui_rx_polarity_flip_ge19=0x0001


phy_fiber_pref_ge0=1
phy_fiber_pref_ge1=1
phy_fiber_pref_ge2=1
phy_fiber_pref_ge3=1

phy_fiber_pref_ge4=1
phy_fiber_pref_ge5=1
phy_fiber_pref_ge6=1
phy_fiber_pref_ge7=1
phy_fiber_pref_ge8=1
phy_fiber_pref_ge9=1
phy_fiber_pref_ge10=1
phy_fiber_pref_ge11=1
phy_fiber_pref_ge12=1
phy_fiber_pref_ge13=1
phy_fiber_pref_ge14=1
```

```
phy_fiber_pref_ge15=1
phy_fiber_pref_ge16=1
phy_fiber_pref_ge17=1
phy_fiber_pref_ge18=1
phy_fiber_pref_ge19=1

phy_automedium_ge0=1
phy_automedium_ge1=1
phy_automedium_ge2=1
phy_automedium_ge3=1

phy_automedium_ge4=1
phy_automedium_ge5=1
phy_automedium_ge6=1
phy_automedium_ge7=1
phy_automedium_ge8=1
phy_automedium_ge9=1
phy_automedium_ge10=1
phy_automedium_ge11=1
phy_automedium_ge12=1
phy_automedium_ge13=1
phy_automedium_ge14=1
phy_automedium_ge15=1
phy_automedium_ge16=1
phy_automedium_ge17=1
phy_automedium_ge18=1
phy_automedium_ge19=1

phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003

phy_port_primary_and_offset_ge4=0x1000
phy_port_primary_and_offset_ge5=0x1001
phy_port_primary_and_offset_ge6=0x1002
phy_port_primary_and_offset_ge7=0x1003
phy_port_primary_and_offset_ge8=0x1004
phy_port_primary_and_offset_ge9=0x1005
phy_port_primary_and_offset_ge10=0x1006
phy_port_primary_and_offset_ge11=0x1007
phy_port_primary_and_offset_ge12=0x1800
phy_port_primary_and_offset_ge13=0x1801
phy_port_primary_and_offset_ge14=0x1802
phy_port_primary_and_offset_ge15=0x1803
phy_port_primary_and_offset_ge16=0x1804
phy_port_primary_and_offset_ge17=0x1805
phy_port_primary_and_offset_ge18=0x1806
```

```
phy_port_primary_and_offset_ge19=0x1807




# ??? Not included in Trupti's but is in Vinodh's

#C3 Fabric side HG[126] in TDM3/1 lane swap
#xgxs_rx_lane_map_core0_hg0=0x1032
#xgxs_rx_lane_map_core1_hg0=0x3210
#xgxs_rx_lane_map_core2_hg0=0x1032

#xgxs_tx_lane_map_core0_hg0=0x1032
#xgxs_tx_lane_map_core1_hg0=0x3210
#xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode


ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci4.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
```

ddr3_tune_rd_dqs_ci8.0=0x99999797,0x97979292
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_en_ci10.0=0x00a2a4a0,0x009da09b
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x98989797
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci2.0=0x009d9e9c,0x00a0a39d
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_addrc_ci10.0=0x000000af
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a9a9a,0x00969894
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci12.0=0x96969292,0x97979797
ddr3_tune_rd_dqs_ci0.0=0x92929a9a,0x99999797
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4.0=0x009a9a9b,0x00989a96
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci10=0x000000af

ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_data_dly_ci0=0x00000404
ddr3_tune_vref_ci14.0=0x000007df
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989998,0x009a9d98
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci14.0=0x98989a9a,0x9a9a9797
ddr3_tune_rd_dqs_ci2.0=0x98989797,0x98989797
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x0000079e
ddr3_tune_addrc_ci2.0=0x000000af
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci4=0x0000079e

ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_wr_dq_wl1_ci14.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_rd_dqs_ci4.0=0x97979797,0x9a9a9999
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci8.0=0x00969697,0x00999b97
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_addrc_ci4.0=0x000000b0
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_wr_dq_wl0_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080

ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci6.0=0x98989191,0x99999898
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_addrc_ci6.0=0x000000b0
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0.0=0x00a1a0a2,0x009c9f99
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_20x1g-hg127.bcm
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_api_general.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_general.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: robo_sf3.h,v 1.3 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/robo_sf3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Common internal definitions for BCM switch module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/switch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmdevice.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmdevice.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: kbp.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       kbp.h
* Purpose:    kbp init header file.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/kbp.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_jer_mymac.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_lif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_common.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* configuration common to sbx devices
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_common.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 775 2014-11-11 04:37:38Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/sesto/tier1/sesto_serdes/common/srds_api_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hashing.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hashing.c
* Purpose:     TD2-Hash calcualtions for trunk and ECMP packets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/hashing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: falcon_cfg_seq.h,v 1.1.2.2 2013/09/17 21:11:10  Exp $
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : falcon16_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*-----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
* Id
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_cfg_seq.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allregs_u.i
* Purpose: Independent register descriptions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_u.i
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pmf_low_level_pgm.c,v 1.51 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_pmf_low_level_pgm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: subport.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/subport.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qsgmiie.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qsgmiie.c
* Purpose:     Support Broadcom TSC/Eagle internal SerDes
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/qtce.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/qsgmiie.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.92 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/oam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap20v_b.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap20v_b.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lplist.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       lplist.c
* Purpose:     Logical port list functions
* Requires:
*
* Notes:       The following is intended:
```

```
*
*     bcmx_lplist_t alist;
*
*     ... list is built up with some elements ....
*
*     if (!bcmx_lplist_init(alist, 0, 0))  {
*
*         ... list is built up with some elements, then ....
*
*         BCMX_LPLIST_ITER(alist, lport, count) {
*             .... do stuff with lport ....
*         }
*     }
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/lplist.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_n.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_n.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mem.h
* Purpose:    Include file for memory access functions: ARL, L2X, L3X.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/sim/pcid/mem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84753_ucode.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84753_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_debug.h,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_debug.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpMplsLabelsConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpMplsLabelsConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mspi.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mspi.h
* Purpose:    Base definitions for SPI Master mode routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mspi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipoll.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Functions for polling IRQs instead of using hardware interrupts.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ipoll.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g2xx_cint_data.c: XXX Custom Microcode C-Interpreter functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g2xx_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif_cos.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_lif_cos.c
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
```

* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_lif_cos.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: gen_pkt.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Struct definitions for structs used in mbist_cpu.c (TR 505)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/mbist_cpu.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: rx.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: rx.h
* Purpose: Internal structures and definitions for RX module
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/rx.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy82381.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: phy82381.c
* Purpose: Support for Furia external PHY
*

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82381.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l2gre.c
* Purpose: TD2 L2GRE enhancements
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/l2gre.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ppe_diags_c.stg,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_ppe_diags.c: Guadalupe2k V1.3 microcode PPE diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_ppe_diags.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_learn_event_parsing.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File: cint_l2_learn_event_parsing.c
* Purpose: Verify DSP packets are processed correctly
*
* Jericho MACT Learn events when DMA is utilized arrive in ARAD Format.
* In order to verify that the Learn Event is processed appropriately,
* The cint allows the operator to create Payload Buffers for various
* Learn Events according to parameters, transmit the packet to the device,
* And later manually add the learned entry via BCM API calls in order to compare
* The entry saved on each occasion
*
* CINT Usage:
*  1.  Initialize global parameters used for buffer construction and LEM payload access
*  2.  Construct Payload Buffer according to user parameters
*  3.  Send DSP packet containing the constructed buffer (via TCL Packet Launcher)
*      In order to trigger a Learn Event
*  4.  Access the LEM table and save the Payload of the MACT Entry (as saved after parsing of the DSP)
*  5.  Get l2_addr_t according to MACT and FID in use, clear MACT and add l2_addr using BCM API
*  6.  Access the LEM table and save the Payload of the MACT Entry (as saved after adding the l2_addr via BCM
API)
*  7.  Compare the saved Payloads
*
* Basic example:
*      BCM> cd ../../../../src
*      BCM> cint examples/dpp/utility/cint_utils_global.c
*      BCM> cint examples/dpp/utility/cint_utils_l2.c
*      BCM> cint examples/dpp/cint_l2_learn_event_parsing.c
*      BCM> tx 1 PSRC=200 DATA=0x000000000011ab67ff093e2281000064000000000
*      BCM> cint
*      cint> print compare_lem_entries_full(0);
*
* The above script runs a basic example of the test (not utilizing the TCL Packet Launcher and with hardcoded
parameters)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_l2_learn_event_parsing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.297 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Trident2 L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/l2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_sand_exact_match.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_exact_match.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vlan_egress_membership.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of employing egress vlan membership
*
* Tests scenario:
*
* step 1:  Egress VLAN membership filter disabled
*         No packets are dropped
*
* step 2:  Egress VLAN membership filter enabled on port_i and membership list is empty
*         bcm_port_vlan_member_set(unit, port_i, 2)
*         all packets exiting port_i will be dropped
*
* step 3:  Egress VLAN membership filter enabled and port_i is added to memberset of vlan_i
*         bcm_vlan_gport_add(unit, vlan_i, port_i, (BCM_VLAN_GPORT_ADD_EGRESS_ONLY |
BCM_VLAN_GPORT_ADD_TAG_DO_NOT_UPDATE))
*         only packets with vlan_i will not be dropped
*
* step 4:  Egress VLAN membership filter enabled and port_i is removed from memberset of vlan_i
*         bcm_vlan_gport_delete(unit, vlan_i, port_i)
*         all packets will be dropped
*
* Example: Egress membership filtering is enabled for port 201 and vlan 100 is the only member
*
*
*
*             INPUT        ___________________________        OUTPUT
*                       |                    |
*                 port 200 |                    | port 201
```

```
*                vlan 100 |                    | vlan 100
*     --------------------->|                    |----------------------->
*                          |____________________________|
*
*                           ___________________________
*                          |                    |
*                port 200 |                    |
*                vlan 150 |        /           |
*     --------------------->| -------/---> drop      |
*                          |________/_________________|
*
*
* SOC properties:
* egress_membership_mode = 1
*
* CINT files:
* cd ../../../../src/examples/dpp/
* utility/cint_utils_l2.c
* utility/cint_utils_vlan.c
* utility/cint_utils_port.c
* cint_vlan_egress_membership.c
* cint_port_tpid.c
*
* vlan_egress_membership__start_run(int unit, vlan_egress_membership_s *test_data) - test_data = NULL for
default params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_egress_membership.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_util.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_util.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
* search for 'sw_state_cbs_t' for the root of the struct
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_ilm_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_qos_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_phy_ports_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_pon_double_lookup_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_egr_prog_editor_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_vrrp_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_bfd_ipv6_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_q_type_ref_count_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_mim_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_lif_linked_list_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_vsi_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_cos_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_ipv4_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_modport2sysport_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsArrArr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_lif_table_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_overlay_arp_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_bfd_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_chip_definitions_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_shr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsArrPtr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsRegular_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_rx_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_ipv4_pat_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_sand_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_tm_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_l2_lif_ac_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_sysport2modport_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_vswitch_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_eg_mirror_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_dram_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_lag_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_oam_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_glif_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_lif_cos_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_logical_ports_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_miniExm_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_trunk_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_eg_encap_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_lag_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_occupation_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_ecmp_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_vtt_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_em_blocks_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_policer_size_profile_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_stack_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsRegularAllowWbAccess_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_q_type_map_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsStaticArrArr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsStaticArrInt_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_qax_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_vdc_vsi_map_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_egr_ports_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_reassembly_ctxt_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_tcam_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_vlan_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_fec_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_stg_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_header_data_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/access/sw_state_dpp_bcm_ipmc_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_dbal_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_l2_lif_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_pp_mpls_term_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_kbp_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dnx_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_policer_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_jer_modid_group_map_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_bfd_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_config_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsArr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_local_lif_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_oam_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_interrupts_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_oamp_pe_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_issu_test_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_kaps_db_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_vid_assign_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsPtr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_op_mode_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_plus_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_failover_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_arad_multicast_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_frwrd_ip_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exmMixStatDyn_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_issu_example_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_fwd_mact_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_port_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_twoLevelsSinglePtr_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_field_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_l2_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_diag_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_cell_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_oper_mode_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_pp_port_map_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_pmf_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_vt_profile_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_linkbonding_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_mirror_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_slb_config_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_tdm_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_cosq_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_exm_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_access.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_tcam_mgmt_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_tm_vendor_0_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_trill_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_mirror_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_trap_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_l3_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_alloc_mngr_utils_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_extender_info_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_gport_mgmt_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm__switch_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_soc_arad_pp_llp_filter_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/access/sw_state_dpp_bcm_counter_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.138 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Layer 2 Management
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macsecphy.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch MACSEC PHY control
* MACSEC PHY initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/macsecphy.c
No license file was found, but licenses were detected in source scan.

```
/*
* 802.1Q VLAN protocol definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: vlan.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/proto/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-diag-proxy.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/bcm-diag-proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_multicast.h,v 1.3 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_madura_internal.c                                    *
*  Created On    :  13/02/2014                                                   *
*  Created By    :  Justin Gaither                                               *
*  Description   :  APIs for Serdes IPs                                          *
*  Revision      :  $Id: falcon2_madura_internal.c 1377 2016-03-14 23:19:21Z cvazquez $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*     Broadcom Corporation                                                       *
*     5300 California Avenue                                                     *
*     Irvine, CA  92617                                                          *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_flexport.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/flexport/tomahawk2_flexport.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ofp_rates.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_bmact.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_bmact.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_bmact.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmIngressPortEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmIngressPortEntry.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pstats.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packetized Statistic
* Purpose: API to set Packetized Statistic registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/pstats.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_mgmt.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_api_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_occupation.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global occupation management
*
* Provides a mechanism to allocate and manipulate bits (henceforth "items")
* in a bitmap (henceforth "map"), according to input constraints.
```

```
* After the allocation, the user can get and set the items in the map,
* referring to them only by their IDs.
*
* Allowed constraints:
*   An item may require to have a certain amount of bits.
*   An item can specify which bits may be allocated for it.
*
*
* Example and usage guidelines:
* ----------------------------
*
*   The challenge:
*     We have a "bag" of size 4 bits [0-3].
*   We want to put 3 "artifacts" in this bag:
*     - notebook: requires one bit.
*     - bottle: requires one of the two MSBs.
*             That is, only bits 2 or 3 may be allocated for the bottle.
*     - laptop: requires two bits of the three LSBs.
*
*   The Solution:
*     To solve this problem we will create a map of size 4 to represent the bag.
*         functions in use: shr_occ_map_args_init(), shr_occ_map_create.
*     Then we will add the 3 items to represent the artifcats.
*         functions in use: shr_occ_item_init(), shr_occ_map_add_item().
*     Then we can solve these constraints and allocate bits for the items in the map.
*         functions in use: shr_occ_map_solve().
*
*   This solution is not exposed for the user - the user doesn't know which bits are allocated
*   for each item. He only knows that the constrains are maintained.
*
*   Saving and Using the solution:
*         In order to save and load the solution, the user passes "save" and "load" callbacks to
*     the map_args_init function.
*         The user can then access the items and set their values from 0 to 2^(b-1),
*     where 'b' is the number of bits the item required.
*         For that he can use the provided access function: shr_occ_mgmt_item_access().
*     This function takes as argument a "bag" item that represents the current bag state (the values of its itmes).
*     Then using the item's ID in the access function, only the item-relevant part of the
*     bag will be changed (on "set") / returned (on "get").
*
*   For a code reference, you can take a look at:
*   sdk/src/soc/dpp/ARAD/ARAD_PP/arad_pp_occupation_mgmt.c
*   functions: arad_pp_occ_mgmt_init_inlif_profile(), arad_pp_occ_mgmt_app_get(),
arad_pp_occ_mgmt_app_set().
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_occupation.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:           Generated on         Fri Jan  4 14:25:17 2013
*                 MD5 Checksum         6d4da9060fffdb8b37e48b100cf7a630
*
* Compiled with:  RDB Utility          combo_header.pl
*                 RDB Parser           3.0
*                 unknown              unknown
*                 Perl Interpreter     5.008008
*                 Operating System     linux
*
* Spec Versions:  DDR34_PHY_ADDR_CTL   04
*                 DDR34_PHY_BYTE_LANE  04
*
* RDB Files:
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_top_standalone.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_top_blockdef.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_addr_ctl.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_ph
```

y_regtypes.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_byte_lane.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_regtypes.rdb
*
/projects/DDR34_2/E0/work/ebleich/phy_7145_tahiti/design/ddr34_phy/ddr_lp_phy_32_fc_28hpm_h/rdb/ddr34_phy_byte_lane_regtypes.rdb
*
* Revision History:
*
* $brcm_Log: $
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phy_and28_e0.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dcmn_fabric_cell.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_fabric_cell.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_pb_pp_acc2.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_pb_pp_acc2.h
No license file was found, but licenses were detected in source scan.

/**********
****
* File Name : falcon_tsc_internal.c *
* Created On : 13/02/2014 *

```
*  Created By    :  Justin Gaither                                    *
*  Description   :  APIs for Serdes IPs                               *
*  Revision      :  $Id: falcon_tsc_internal.c 1334 2016-01-28 01:06:11Z kirand $ *
*                                                                     *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                         *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                              *
*                                                                     *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                     *
*                                                                     *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_internal_c.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_action_cmd.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_action_cmd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.60 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stg.c
* Purpose:     Spanning tree group support
*
* Multiple spanning trees (MST) is supported in
* BCM5690, BCM5324 etc.  STGs are created and VLANs may be added
* to each STG.
*
* Per-VLAN spanning tree (PVST) is supported in BCM5632.  This module
* supports PVST on BCM5632 by having 4k virtual STGs and allowing only
* a single VLAN per STG.  Before the application can create a second
```

```
* STG, it must remove all but one VLAN from the default STG.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cPCF8547Ioport.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2cPCF8547Ioport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_egr_queuing.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_mirror.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_mirror.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
```

```
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_mirror.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field_presel_create_stage_id.c Ver:1.0 30/08/2016 Author: skoparan Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field_presel_create_stage_id.c
* Purpose: Example of preselection with explicit stage by the API bcm_field_presel_create_stage_id.
*
* Pre-Requirement: Peselectors management advanced mode should be enabled by SOC property.
*
* When configuring a program selection with Forwarding header = IPv4 and entry with specific SMAC and drop action for that field group,
* it is expected that frame which ingress the device in that source port and have that SMAC will be dropped.
* Vlan Editing commands for that Inlif will be performed.
* The stage of the field program selection is provided explicitly, in this example it is Egress stage.
*
* CINT Usage:
*
*  1. Set SOC property:
*     field_presel_mgmt_advanced_mode=1
*
*  2. Run:
*     cint cint_utils_global.c
*     cint cint_utils_l3.c
*     cint cint_utils_l2.c
*     cint cint_utils_vlan.c
*     cint cint_multi_device_utils.c
*     cint cint_ip_route.c
*     cint cint_field_presel_mgmt_advanced_mode.c
*     cint cint_field_presel_create_stage_id.c
*     cint
*     basic_example_single_unit(int unit, int in_port, int out_port);
*     field_presel_stage_example(int unit, int in_port, int out_port, int presel_id);
*
*  3. In order to verify presel was commited correctly to HW,
*    send IPv4oEth packet with:
*       DMAC = 00:0c:00:02:00:00
*       SMAC = 00:00:00:00:00:11
*       VLAN = 100
*    from ingress port given as in_port.
*    Packet should be dropped.
```

```
*
*  4. Destroy created group, entry and presel by running : presel_destroy_all(int unit, bcm_field_stage_t stage, int
presel_id);
*
*  5. In order to verify presel was removed correctly from HW,
*     send packet with SMAC address in entry, from ingress port and vid=100.
*     Packet should pass and be received by egress port.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_presel_create_stage_id.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
*****************************************************************************************
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
```

EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmgenerictblmgr_refapp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr_refapp/nlmgenerictblmgr_refapp.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibVlanMemConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVlanMemConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: soc_dnxc_intr_handler.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* Purpose:    Implement soc interrupt handler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_intr_handler.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_intr_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_drv.c,v 1.328.4.1.4.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* NOTE:
* SOC driver infrastructure cleanup pending.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane MIPS definitions
*
* SB MIPS cores are custom MIPS32 processors with SiliconBackplane
* OCP interfaces. The CP0 processor ID is 0x00024000, where bits
* 23:16 mean Broadcom and bits 15:8 mean a MIPS core with an OCP
* interface. The core revision is stored in the SB ID register in SB
* configuration space.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: mips33_core.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/mips33_core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_cmu.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Module: CMU warmboot
*
* Purpose:
*     Counter Management Unit
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/wb_db_cmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_diagnostics.c,v 1.63 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: thunderbolt_service.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/thunderbolt/thunderbolt_service.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_etpp_lif_mtu Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_etpp_lif_mtu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_extender.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_extender.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.h,v 1.73 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm_pp.h
* Purpose:     Multiplexing of the bcm layer for PP
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM_PP is the multiplexed pp bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/mbcm_pp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8754_ucode.c yiwenz Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8754_ucode.c
* Purpose:    Firmware used by BCM8754 device's micro-Controller. Revision 0x0411
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/phy8754_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*

* $Id: dfe_drv.c,v 1.87 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_drv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_line_tgs.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_line_tgs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware Linkscan module
*
* Hardware linkscan is available, but its use is not recommended
* because a software linkscan task is very low overhead and much more
* flexible.
*
* If hardware linkscan is used, each MII operation must temporarily
* disable it and wait for the current scan to complete, increasing the
* latency.  PHY status register 1 may contain clear-on-read bits that
* will be cleared by hardware linkscan and not seen later.  Special
* support is provided for the Serdes MAC.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/link.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init_deinit.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       init_deinit.h
* Purpose:     DCMN initialization sequence header file.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/init_deinit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 - Broadcom StrataSwitch Layer-2 switch common API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/l2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_llp_sa_auth.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_sa_auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTSingleConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTSingleConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.292 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     Functions to support CLI port commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/port.c
No license file was found, but licenses were detected in source scan.

```
/*! \file bcm_int/dnx/switch_tpid/switch_tpid.h
*
* Internal DNX SWITCH-TPID APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/switch/switch_tpid.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: firebolt.c,v 1.111 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       firebolt.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/firebolt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: intr.h,v 1.32 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/intr.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: falcon2_dino_internal.h 1341 2016-02-05 20:06:55Z kirand $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_internal.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: qmod_device.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
```

```
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_device.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipoll.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Functions for soft error recovery.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ser.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2cache.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 Cache - Layer 2 control protocols support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/l2cache.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stg.c
* Purpose:    Spanning tree group support implementation for g3p1
*
* Multiple spanning trees (MST) is supported on this chipset
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcal.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/tcal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQ2EcEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQ2EcEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: switch.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom QE2000 Switch API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       fields_v.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_v.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccmdma.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: SOC CCM DMA driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ccmdma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_l3_src_bind.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_l3_src_bind.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.189 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Manages L3 interface table, forwarding table, routing table
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_fap_config4.c,v 1.1 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tm_fap_config4.c
* Purpose: Example of Composite SE Validation
*
* Environment
*    - Default Egress queue mapping in play.
*    - Default Egress Port Scheduler hierarchy in play.
*    - Default Ingress Scheduling Discipline (delay tolerance), queues sizes
*    - Packet Size 1500 packet - size should be aligned with credit source settings
*
* - Port Scheduler
*   - CL Scheduler Instance 0 (SP mode, Composite), Hookup both to Port Schedulers (SP0, SP2)
*   - CL Scheduler Instance 1 (SP mode, Composite), Hookup both to Port Schedulers (SP1, SP4)
*     - 4 FQ Schedulers
*       Instance 0 and 1 hooked to CL Instance 0 (SP0, SP1)
*       Instance 2 and 3 hooked to CL Instance 1 (SP0, SP1)
*       - 1st Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers
*       - 2nd Queue Group / Connector Group (4 elements in bundle) connected to
*         corresponding FQ schedulers
*
* - test run 1
*   - Input
*     - Queue Group 1 - Cos 0
*       Input 500 Mbps
*     - Queue Group 1 - Cos 2
*       Input 100 Mbps
*
*   - Expected Output
*     - Queue Group 1 - Cos 0
*       Expected Output 300 Mbps (CL instance 0 CIR/1st flow)
*       Observed =>
*       Expected Output 100 Mbps (CL instance 0 EIR/2nd flow)
*       Observed =>
*     - Queue Group 1 - Cos 2
*       Expected Output 100 Mbps (CLI instance 1 CIR/1st flow)
*       Observed =>
*
*  ~~~
```

```
* |                    /        HR       \                    |
* |                   /                  \                   |
* |                  / SP0  SP1  SP2  SP3  SP4 \                  |
* |                 +----------------------------+                 |
* |                   /    \  /       |                    |
* |                   /     \ /        |                    |
* |                  SPR      /\         SPR                    |
* |               (300 Mbps)   SPR SPR     (200 Mbps)                 |
* |                 / (200 Mbps) (300 Mbps)  |                    |
* |                /       /     \       |                    |
* |               \/      \/     \/      \/                    |
* |             +--------------+      +--------------+                 |
* |            /CL (4 SP levels)\     /CL (4 SP levels)\                 |
* |           /              \  /             \                |
* |          / SP0  SP1  SP2  SP3 \ / SP0  SP1  SP2  SP3 \               |
* |         +---------------------++----------------------+               |
* |           /    \            /    \                       |
* |           /     \           /     \                       |
* |          SPR      SPR         SPR      SPR                       |
* |       (500 Mbps) (500 Mbps)  (500 Mbps) (500 Mbps)                    |
* |         /          \      /          \                    |
* |        \/          \/     \/          \/                    |
* |      +------+     +------+   +------+     +------+                 |
* |     /   FQ   \   /   FQ   \ /   FQ   \   /   FQ   \                |
* |    +----------+  +----------+----------+  +----------+                |
* |        |         |       |          |                    |
* |        |         |       |          |                    |
* |        SPR         SPR       SPR          SPR                    |
* |      (500 Mbps)    (500 Mbps) (500 Mbps)    (500 Mbps)                 |
* |        |         |       |          |                    |
* |        |         |       |          |                    |
* |        \/         \/       \/          \/                    |
* |      |    |    |   |   |    |      |    |                |
* |      |    |    |   |   |    |      |    |                |
* |      |    |    |   |   |    |      |    |                |
* |      |    |    |   |   |    |      |    |                |
* |      |    |    |   |   |    |      |    |                |
* |      +-----+     +-----+   +-----+       +-----+                 |
* |    Input:500 Mbps         Input:100 Mbps             +----------------+ |
* |                                       |     KEY      | |
* |                                       +----------------+ |
* |                                       |SPR- Rate Shaper| |
* |                                       |            | |
* |                                       +----------------+ |
* |              +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                    |
* |              |   Figure 8: Composite SE   |                    |
* ~~~~~~~~~~~~~~~~~~~
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_e2e_composite_se.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_stack.c,v 1.3.164.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON STACK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_stack.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2011 Broadcom Corporation All Rights Reserved.$
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004
board_name=bcm5301x_gmac_reset
os=unix
dual_imp_enable=1
pbmp_valid=0x0000011f
pbmp_wan_port=0x1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM953012K.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600XbXcfgRemapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/fabric/sbZfFabBm9600XbXcfgRemapEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_modid_group_map.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE MODID GROUP MAP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/dfe_modid_group_map.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_tcm.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_tcm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_tcm.h
No license file was found, but licenses were detected in source scan.

```
/*
* Misc Broadcom BCM47XX MDC/MDIO enet phy definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmenetphy.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmenetphy.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_mpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_utils_mpls.c
* Purpose: Provide mpls utility functions functions
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_xmod_arg_len.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/bcm_xmod_arg_len.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkBrgApi.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkBrgApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkBrgApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: circ_cmd_buffer.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: Thread safe circular buffer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/circ_cmd_buffer.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vxlan_roo.c,v 1.10 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*****************************************************************************************
*****************************************************
*
*
* Network diagram
*
* We configure Router A
*
*
*
*                    __________    __________
*          host2------| ROUTER E|  | ROUTER B|------host1
*                    |__________|  |__________|
* access_vlan_2, access_port_2 |     |access_vlan_1, access_port_1
*                          |     |
*                    host3-| |     |
* access_vlan_1,access_port2 | |     |
*      ___________________________|_|_____|_________________________________
*     |                 |        |                          |
*     |                 | ROUTER A| (intra DC IP)    DC FABRIC  |
*     |   provider_vlan,  |__________|                          |
*     |       provider_port2/       \provider_port1, provider_vlan|
*     | native_vlan1, vni1 /        \ native_vlan1, vni1          |
*     |           ________/___       \___________                 |
*     |          |         |     |         |                |
*     |          | ROUTER C |     | ROUTER D |                |
*     |          |___________|     |___________|                |
*     |           /                       \                |
*     |        /                            \               |
*     |_____ /_____________________________________________\_________________|
*      ____/___                            _____\__
*     |  TOR1 |                          |  TOR2 |
*     |________|                          |________|
*     |      |                          |      |
*     |      |                          |      |
*     |________|                          |________|
*     | VM:A0 |                           |      |
*     |________|                          |________|
*
*
* Configuration:
*
* soc properties:
```

```
* #enable VXLAN according to SIP/DIP
* #0:none 1:dip_sip termination 2: dip_termination 3: both
* bcm886xx_vxlan_enable=1
* #1:seperated in SEM 2:for joined in TCAM
* bcm886xx_vxlan_tunnel_lookup_mode=1
* #disable conflicting features
* bcm886xx_ip4_tunnel_termination_mode=0
* bcm886xx_l2gre_enable=0
* bcm886xx_ether_ip_enable=0
* bcm886xx_auxiliary_table_mode=1 (for arad/+ devices only)
* #enable ROO for vxlan
* bcm886xx_roo_enable=1
*
* cint;
* cint_reset();
* exit;
* cint ../../../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../../../src/examples/dpp/utility/cint_utils_l2.c
* cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* cint ../../../../src/examples/dpp/utility/cint_utils_multicast.c
* cint ../../../../src/examples/dpp/utility/cint_utils_vlan.c
* cint ../../../../src/examples/dpp/utility/cint_utils_roo.c
* cint ../../../../src/examples/dpp/cint_ip_route.c
* cint ../../../../src/examples/dpp/cint_ip_tunnel.c
* cint ../../../../src/examples/dpp/cint_ip_tunnel_term.c
* cint ../../../../src/examples/dpp/cint_port_tpid.c
* cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* cint ../../../../src/examples/dpp/cint_mact.c
* cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
* cint ../../../../src/examples/dpp/cint_vxlan.c
* cint ../../../../src/examples/dpp/cint_vxlan_roo.c
* cint ../../../../src/examples/dpp/cint_vxlan_roo_mc.c
* cint ../../../../src/examples/dpp/cint_field_gre_learn_data_rebuild.c
* int unit=0;
* int access_port1 = 200;
* int access_port2 = 201;
* int provider_port1 = 202;
* int provider_port2 = 203;
* int add_routing_table_entry = 0;
* vxlan_roo_mc_run(unit, access_port1, access_port2, provider_port1, provider_port2);
*
*
*
* MC Traffic from access routerB to access router: routerE,
*                         to overlay network: routerC, routerD
*                         to host3
*  Note: for now we only send to overlay network routerD
*
```

```
* Purpose: - check compatible MC at L3 to overlay and to native router
*         - check fall to bridge
*
*    Send:
*            ----------------------------------------------
*       eth: |    DA       |     SA      |      VLAN      |
*            ----------------------------------------------
*            | provider_MC | routerB_mac |  access_vlan_1 |
*            ----------------------------------------------
*
*               ----------------------------
*            ip: |   SIP     | DIP          |
*               ----------------------------
*               | host10_ip |  provider_MC |
*               ----------------------------
*
* Receive:  to access router: router E
*
*            ----------------------------------------------
*       eth: |    DA       |     SA      |      VLAN      |
*            ----------------------------------------------
*            | provider_MC | routerA_mac |  access_vlan_2 |
*            ----------------------------------------------
*
*               ----------------------------
*            ip: |   SIP     | DIP          |
*               ----------------------------
*               | host10_ip |  provider_MC |
*               ----------------------------
*
* Receive:  to host3 (fall to bridge)
*
*            ----------------------------------------------
*       eth: |    DA       |     SA      |     VLAN      |
*            ----------------------------------------------
*            | provider_MC | routerB_mac | access_vlan_1 |
*            ----------------------------------------------
*
*               ----------------------------
*            ip: |   SIP     | DIP          |
*               ----------------------------
*               | host10_ip |  provider_MC |
*               ----------------------------
*
*
* Receive:  to router C, router D (overlay)
*            ----------------------------------------------
*       eth: |    DA      |     SA      |      VLAN     |
```

```
*           ---------------------------------------------
*           | provider_MC| routerA_mac | provider_vlan |
*           ---------------------------------------------
*
*              ---------------------------
*           ip: |   SIP     | DIP         |
*              ---------------------------
*              | routerA_ip| provider_MC |
*              ---------------------------
*
*             udp:
*
*               vxlan:  ---------
*                     |  VNI  |
*                     ---------
*                     |  vni  |
*                     ---------
*
*                          --------------------------------------
*                native eth: |    DA       |     SA      |   VLAN |
*                          --------------------------------------
*                          | provider_MC | routerA_mac |   vpn  |
*                          --------------------------------------
*
*                             ----------------------------
*                     native ip:  |   SIP     | DIP         |
*                             ----------------------------
*                             | host10_ip |  native_MC   |
*                             ----------------------------
*
* Packet flow  :
* - get the VSI from port x vlan
* - DA is identified as compatible MC, ethernet header is terminated
* - get the RIF (= vsi)
* - RIF is compatible MC
* - packet is forwarded according to DIP and VRF (inRif.vrf)
* - result is MC
* - each MC member contains: outLif, outRif and port.
* - for MC entry to routerE (routing): LL outLif, outRif and port.
*   - DA is built from DIP (compatible MC)
*   - SA = outRif.myMac
*   - VLAN = VSI (=outRif)
* - for MC entry to host3 (fall to bridge): LL outLif, outRif and port.
*   - inRif == outRif so do fall to bridge
*   - packet is bridged
* - for MC entry to router C and D (overlay): vxlan outLif, outRif and port
*   - vxlan tunnel is built using IP tunnel eedb entry.
*   - vxlan header.vni is resovled from outVsi (outRif) -> vni
```

```
*   - native is built from DIP (compatible MC)
*   - native SA = outRif.myMac
*   - VLAN = VSI (=outRif)
*
*
*
*
* MC traffic from overlay router C to access router B,
*                                access router E
*                                and provider router D (will be filtered)
*  Purpose: - check tunnel is terminated,
*           - check native MC
*           - check fall to bridge and split horizon filter (for copy to provider router C)
*  Note: this test is separated into 2 tests: 1 MC group to terminate the tunnel and send to access router B and access
router E
*                                       1 MC group to terminate the tunnel, fall back to bridge and split horizon filter
*
*
* Send:
*            -----------------------------------
*        eth: |    DA      |     SA      | VLAN |
*            -----------------------------------
*            | provider_MC| routerC_mac |  v2  |
*            -----------------------------------
*
*               ------------------------
*            ip: |   SIP  | DIP         |
*               ------------------------
*               | tor1_ip| provider_MC |
*               ------------------------
*
*              udp:
*
*                vxlan:  ---------
*                        |  VNI  |
*                        ---------
*                        |  vni  |
*                        ---------
*
*                            -------------------------------------
*                  native eth: |    DA       |     SA      |  VLAN |
*                            -------------------------------------
*                            | native_MC   | routerC_mac |  vpn  |
*                            -------------------------------------
*
*                                ---------------------------
*                      native ip:  |   SIP     | DIP         |
*                                ---------------------------
```

```
*                                | vmA0_ip   |  native_MC   |
*                                ----------------------------
*
*
* Recieve
*                ---------------------------------------
*     native eth: |    DA       |     SA      |  VLAN |
*                ---------------------------------------
*                | native_MC   | routerA_mac |   v1  |
*                ---------------------------------------
*
*                  ----------------------------
*         native ip:  |   SIP     | DIP         |
*                  -----------------------------
*                  | vmA0_ip   |  native_MC   |
*                  ----------------------------
*
*
* - get the VSI from the VNI (vni -> vsi table in isem)
* - DA is identified as compatible MC, ethernet header is terminated
* - get the RIF (=vsi)
* - RIF is compatible MC
* - tunnel is terminated at TT (currently, tunnel is terminated at second pass: VTT program: if recycle port and IP
MC packet, terminate the tunnel)
* - get the inRif (=VSI)
* - packet is forwarded according to MC
* - RIF is compatible MC
* - packet is forwarded according to DIP and VRF (inRif.vrf)
* - result is MC
* - MC members: outLif, outRif and port
* - for MC entry to provider routerD, vxlan outLif, outRif and port
*   - outRif = inRif ( = vsi (vsi come from VNI -> VSI mapping))
*   - fall to bridge
*   - ip tunnel inLif.fwrd_group = ip tunnel outLif. frwrd_group, filter the packet. (orientation filter, BUD to BUD is
filtered)
*  - for MC entries to access router E and access Router B, do routing
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vxlan_roo_mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0Entry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_0Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vxlan.c,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNX VXLAN implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfcmap88060_a0.c
* Purpose:    BFCMAP Driver support for Broadcom BCM8806X Phy devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap88060_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.c,v 1.42 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW L2GRE API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/l2gre.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: draco_arltest.c,v 1.106 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ARL Tests.
*
* Insert/Lookup/Delete, hashing, bucket overflow tests.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/draco_arltest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLastSentPriAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLastSentPriAddr.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_fec.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_fec.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/PPC/ppc_api_frwrd_fec.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwQ2NPCEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQ2NPCEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwQ2NPCEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_init.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv4Only.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashIPv4Only.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ofp_rates.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  l3.c
* Purpose:  Tracks and manages l3 routing tables and interfaces.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_includes.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_workarounds.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_example.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vsq_tc_examples.c,v 1.2 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vsq_tc_examples.c
* Purpose: Exampe of how to configure WRED and Tail Drop for specific VSQs
*
* TM example script.
* The focus of the CINT is to show how to enable a tail drop and WRED settings using this property.
* VSQ used here are from vsq group: traffic class (CTTC).
* In this example we try to provide how to use VSQ traffic class
* to be a property of a queue, such that a VSQ realte to a specific queues.
*
* In the tail drop example, we show a typical example to signify the priority of the packets in
* respective VSQ queues such that, higher priority have higher tail drop maximum size.
*
* In the wred example, we show how to run a wred application using a vsq property.
*
* There are 2 main examples in this cint script:
*  1.  WRED - configuring VSQ WRED.
*      Enterance point: run_wred_example
*  2.  Tail Drop - configuring Max Queue size for 2 different VSQs from category Traffic Class.
*      Enterance point: run_tail_drop_example
*
* Application Sequence:
*  1.  Set VSQ category ranges by settings queues type ranges.
*  2.  Create a VSQ-CTTC.
*  3.  Assign VOQs to the VSQ.
*  4.  Set tail drop/wred settings to be triggered by the VSQ.
*  5.  Enable admission test of the traffic class category.
*
*  The application assumes that queue/port mappings are configured before running the examples.
*  Current parameters defined are according to diag_init application.
*
*  Tail drop and WRED settings are also provided in the ingress traffic management section.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vsq_tc_examples.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_mpls_term.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/PPD/ppd_api_mpls_term.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_rx.h,v 1.2.12.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 RX H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_rx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: romInit.s,v 1.10 2011/07/21 16:14:21 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/romInit.s
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_voq_count.c
* Purpose:     Example of reading VOQ counters when the counter processor has a VOQ source
*
* The example counts all the possible HW counters of a single VOQ when the counter processor has a VOQ source
*
* The settings include:
*  o    Set the Counter Processor to count VOQ traffic with highest definition (SOC properties)
*  o    Get all the possible HW counters of a single VOQ.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_voq_count.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: verinet.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Routines for accessing the network and sending RPC commands to/from
* the PLI test-server.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/verinet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_gex.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/robo_gex.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_brd.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo_brd.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/topo_brd.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_footer.h,v 1.3 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/SOC_SAND/Utils/include/soc_sand_footer.h
*
* MODULE PREFIX:  SOC_SAND
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_footer.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap21v_gfa.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap21v_gfa.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fifodma_test.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FIFO DMA Test
*
* The FIFO DMA test fills up the L2_MOD_FIFO with random values through SCHAN.
* Then, it reads the L2_MOD_FIFO through FIFO DMA to an external memory. Data
* integrity check is done by comparing the source and destination memories.
* FIFO DMA read performance in bps is calculated.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/fifodma_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spl.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       spl.c
* Purpose:    Multi-processor safe recursive global lock
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/spl.c
No license file was found, but licenses were detected in source scan.

```
/*
* OTP support.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmotp.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmotp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knetctrl.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       knetctrl.c
* Purpose:    Kernel network control
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/knetctrl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/knetctrl.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
*****************************************************************************************
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO
```

USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmdevmgr_refapp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_refapp/nlmdevmgr_refapp.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_gsa_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_gsa_api.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_api_end2end_scheduler.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_end2end_scheduler.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: vsc256_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VSC256 FABRIC CELL H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/vsc256_fabric_cell.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/vsc256_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ea_diag.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* EA socdiag command list
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:       bfd_sdk_pack.c
* Purpose:     BFD unpack routines for:
*              - BFD Control messages
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/bfd_sdk_pack.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_quadra28_functions.c                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs                                          *
*  Revision      :  $Id: merlin_quadra28_functions.c 960 2015-03-11 21:43:05Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
```

```
*      Broadcom Corporation                                    *
*      5300 California Avenue                                  *
*      Irvine, CA  92617                                       *
*                                                              *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk_sw_db.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/trunk_sw_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/trunk_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_portmod_dispatch.h,v 1.4 2011/08/21 07:22:18 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phynull.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_portmod_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mstp.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mstp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/mstp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_cnm.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_cnm.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon_furia_fields.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for FALCON_FURIA                            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
```

* $Id: sbZfFabBm9600BwR0BagEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR0BagEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: arefHelper.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/applref/arefHelper.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: storm.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/storm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_ecn_example.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ECN Example script
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ecn_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avs.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       avs.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3/avs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/avs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2/avs.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
```

```
*  company private proprietary, and trade secret.                    *
*                                                                    *
*********************************************************************
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_ingress_scheduler.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0EntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmt_0EntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_defx.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/ui_defx.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbQe2000ElibZf.h Master include for ZFrame generated API
*
* <pre>
* ==============================================
* == sbQe2000ElibZf.h - Master include for EP ZFrames  ==
* ==============================================
```

```
*
* WORKING REVISION: $Id: sbQe2000ElibZf.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000ElibZf.h
*
* ABSTRACT:
*
*     Master include file for EP ZFrames
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     15-Nov-2004
*</pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000ElibZf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicd_dma.c,v 1.05 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     CMICDV2 interface drvier for SOC DMA
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicd_dma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_chip_regs.h,v 1.7 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_chip_regs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap10m.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap10m.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       lpmv6.h
* Purpose:     Function declarations for LPMV6 Internal functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/lpmv6.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVlanMem.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibCIT.h
*
* <pre>
*
* ==============================================================
* ==  sbZfSbQe2000ElibCIT.h - Class Instruction Table ZFrame  ==
* ==============================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibVlanMem.hx,v 1.4 Broadcom SDK $
```

```
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibCIT.h
*
* ABSTRACT:
*
*     Class Instruction Table ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-November-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVlanMem.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_vec.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
```

```
* TDM vector library for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/apache/tdm_ap_vec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mem.c
* Purpose:    Diag shell memory commands for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_mem.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Memory (Table) Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/cfp.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: falcon_furia_dv_functions.c 869 2015-01-23 00:24:44Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_dv_functions.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oob.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OOB Flow Control and OOB Stats
* Purpose: API to set different OOB Flow Control and OOB Stats registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/oob.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/oob.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: shadow_dispatch.h
* Purpose: shadow driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/shadow_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_init.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_parser.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_parser.h
* Purpose:     CINT parser interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_parser.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_eg_encap_access.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_eg_encap_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.51 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: TR3 MPLS enhancements
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2BEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2BEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: systemInit.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/systemInit.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_evpn.c
* Purpose: Example of how to FP for EVPN application.
```

```
*
* The application requires two DBs in ingress and one in egress.
* Ingress PMF:
* EVPN DB
*  Use one ingress PMF entry to trigger the copy of ingress AC LIF additional data (20-bit ESI label + 20-bit PE ID)
into UDH-extension.
* Pre-selector:  Forwarding type (L2) + EVPN inLIF profile
* Key: EVPN inLIF profile
* Action: copy inLIF.additional-data to UDH-extension
*
* ESI DB
*  Use N ingress PMF entries for ESI label lookup to trigger the copy of forbidden-out-port into learn-extension.
* Pre-selector: Forwarding type (L2) + EVPN inLIF profile + TT termination found
* Key: ESI label
* Action: copy forbidden-out-port to learn-extension if match. Otherwise, drop the packet
*
*
* Egress PMF:
* EVPN DB
*  Use 33 egress PMF entries in one DB to drop a bridge packet whose learn-extension (carried forbidden-out-port)
equals to the destination system port
* Pre-selector: bridge packet + learn-extension present
* Key: 16-bit forbidden port in learn-extension-header + 16-bit destination system port
* Action: Drop if forbidden port equals destination system port
*
* This application can run either in advanced mode (user arranges preselection programs by herself/himself) or in
* regular mode (SDK arranges these programs).
* In order to work with advanced mode set field_presel_mgmt_advanced_mode = 1. For more examples for this
mode see cint_field_presel_mgmt_advanced_mode.c.
*
* CINT Usage:
*
*  1. Run:
*      cint cint_field_evpn.c
*      Optional: Set field_presel_mgmt_advanced_mode = 1.
*      field_processor_evpn_example(int unit);
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_field_evpn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_mirror.c,v Exp $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: MIRROR APIs
*
* Purpose:
*     Warm boot support for MIRROR API for Caladan3 Packet Processor devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        bcm56524_a0.c
* Purpose:     bcm56524_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56524_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_ocm.c,v 1.13.122.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_ocm.c
* Purpose: Caladan3 OCM test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_ocm.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: rce_c.stg,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_rce.c: Guadalupe2k V1.3 RCE
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_rce_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_rce.c
No license file was found, but licenses were detected in source scan.

```
# $Id: c2switch.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Chassis 2
#
# Sample script to configure line modules and CFM on backplane
#
# TBD update
# traffic path
# TBD update
#
##########################################################################
# BP S0   LM
# CFM0 BCM5675 P7 L4 BCM5675 P5
# CFM0 BCM5675 P8 L4 BCM5675 P7
# CFM0 BCM5675 P5 L3 BCM5675 P5
# CFM0 BCM5675 P6 L3 BCM5675 P7
# CFM0 BCM5675 P3 L2 BCM5675 P5
# CFM0 BCM5675 P4 L2 BCM5675 P7
# CFM0 BCM5675 P1 L1 BCM5675 P5
# CFM0 BCM5675 P2 L1 BCM5675 P7
#
# BP CFM0 LM
# CFM1 BCM5675 P7 L4 BCM5675 P6
# CFM1 BCM5675 P8 L4 BCM5675 P8
# CFM1 BCM5675 P5 L3 BCM5675 P6
# CFM1 BCM5675 P6 L3 BCM5675 P8
# CFM1 BCM5675 P3 L2 BCM5675 P6
# CFM1 BCM5675 P4 L2 BCM5675 P8
# CFM1 BCM5675 P1 L1 BCM5675 P6
```

```
# CFM1 BCM5675 P2 L1 BCM5675 P8
# ##########################################################################
#Backplane [ CFM1 CFM2 LM-slot3 LM-slot4 LM-slot5 LM-slot6 ]
#
#CFM1 Herc
#port-1 (hg0) (0x002) <--> slot 3 port-5 (0x040)
#port-2 (hg1) (0x004) <--> slot 3 port-7 (0x080)
#port-3 (hg2) (0x008) <--> slot 4 port-5 (0x040)
#port-4 (hg3) (0x010) <--> slot 4 port-7 (0x080)
#port-5 (hg4) (0x020) <--> slot 5 port-5 (0x040)
#port-6 (hg5) (0x040) <--> slot 5 port-7 (0x080)
#port-7 (hg6) (0x080) <--> slot 6 port-5 (0x040)
#port-8 (hg7) (0x100) <--> slot 6 port-7 (0x080)
#CFM2 Herc
#port-1 (hg0) (0x002) <--> slot 3 port-6 (0x040)
#port-2 (hg1) (0x004) <--> slot 3 port-8 (0x080)
#port-3 (hg2) (0x008) <--> slot 4 port-6 (0x040)
#port-4 (hg3) (0x010) <--> slot 4 port-8 (0x080)
#port-5 (hg4) (0x020) <--> slot 5 port-6 (0x040)
#port-6 (hg5) (0x040) <--> slot 5 port-8 (0x080)
#port-7 (hg6) (0x080) <--> slot 6 port-6 (0x040)
#port-8 (hg7) (0x100) <--> slot 6 port-8 (0x080)
#
#LM slot 3
#port-1 (hg0) (0x002) <--> Unit-1 Modid  0
#port-2 (hg1) (0x004) <--> Unit-2 Modid  1
#port-3 (hg2) (0x008) <--> Unit-3 Modid  2
#port-4 (hg3) (0x010) <--> Unit-4 Modid  3
#port-5 (hg4) (0x020) <--> CFM1 port-1 (0x040)
#port-6 (hg5) (0x040) <--> CFM2 port-1 (0x080)
#port-7 (hg6) (0x080) <--> CFM1 port-2 (0x040)
#port-8 (hg7) (0x100) <--> CFM2 port-2 (0x080)
#
#LM slot 4
#port-1 (hg0) (0x002) <--> Unit-1 Modid  0
#port-2 (hg1) (0x004) <--> Unit-2 Modid  1
#port-3 (hg2) (0x008) <--> Unit-3 Modid  2
#port-4 (hg3) (0x010) <--> Unit-4 Modid  3
#port-5 (hg4) (0x020) <--> CFM1 port-3 (0x040)
#port-6 (hg5) (0x040) <--> CFM2 port-3 (0x080)
#port-7 (hg6) (0x080) <--> CFM1 port-4 (0x040)
#port-8 (hg7) (0x100) <--> CFM2 port-4 (0x080)
#LM slot 5
#port-1 (hg0) (0x002) <--> Unit-1 Modid  0
#port-2 (hg1) (0x004) <--> Unit-2 Modid  1
#port-3 (hg2) (0x008) <--> Unit-3 Modid  2
#port-4 (hg3) (0x010) <--> Unit-4 Modid  3
#port-5 (hg4) (0x020) <--> CFM1 port-5 (0x040)
```

```
#port-6 (hg5) (0x040) <--> CFM2 port-5 (0x080)
#port-7 (hg6) (0x080) <--> CFM1 port-6 (0x040)
#port-8 (hg7) (0x100) <--> CFM2 port-6 (0x080)
#LM slot 6
#port-1 (hg0) (0x002) <--> Unit-1 Modid  0
#port-2 (hg1) (0x004) <--> Unit-2 Modid  1
#port-3 (hg2) (0x008) <--> Unit-3 Modid  2
#port-4 (hg3) (0x010) <--> Unit-4 Modid  3
#port-5 (hg4) (0x020) <--> CFM1 port-7 (0x040)
#port-6 (hg5) (0x040) <--> CFM2 port-7 (0x080)
#port-7 (hg6) (0x080) <--> CFM1 port-8 (0x040)
#port-8 (hg7) (0x100) <--> CFM2 port-8 (0x080)
##########################################################################

if !@?lm 'setenv cfm 1'

if @?cfm 'echo "Configuring CFM"'
if @?cfm1 'echo "Configuring CFM in slot 1"'
if @?cfm2 'echo "Configuring CFM in slot 2"'
if @?lm3 'echo "Configuring Line Module in slot 3"'
if @?lm4 'echo "Configuring Line Module in slot 4"'
if @?lm5 'echo "Configuring Line Module in slot 5"'
if @?lm6 'echo "Configuring Line Module in slot 6"'

#determine LM type
#lm24x1g - 24 port 1G LM
#lm2x10g - 2 port 10G XFP LM
#lm6x10g - 6 port 10G CX4 LM
#*:lmchk
#if $?lm24x1g 'echo "Setting Up 24 x 1G line module"'
#if $?lm2x10g 'echo "Setting Up 2 x 10G XFP line module"'
#if $?lm6x10g 'echo "Setting Up 6 x 10G CX4 line module"'

#run RC
if @?lm && !@?chassis2_no_rc ' \
  0:rc ; \
  1:rc ; \
  2:rc ; \
  3:rc ; \
  4:rc ; \
  '
#if @?lm ' \
#    1:port ge sp=1000 fd=t ; \
#    2:port ge sp=1000 fd=t ; \
#    3:port ge sp=1000 fd=t ; \
#    4:port ge sp=1000 fd=t ; \
#    '
```

```
local ledcode '\
E0 28 60 C3 67 7C 06 C3 80 28 60 C3 67 7C 67 40 \
06 C3 90 28 60 C3 67 40 06 C3 80 80 D2 0C 74 01 \
12 C2 85 05 D2 0F 71 2A 52 00 12 C1 85 05 D2 1F \
71 34 52 00 12 C0 85 05 D2 05 71 3E 52 00 3A 30 \
32 00 97 75 4C 12 A0 FE C3 02 0A 50 32 01 97 75 \
58 12 AC FE C3 02 0A 50 12 AC FE C3 95 75 6A 85 \
12 A0 FE C3 95 75 B9 85 77 AB 12 A0 FE C3 95 75 \
74 85 77 B2 16 C0 DA 02 71 B2 77 B9 32 05 97 71 \
8C 32 02 97 71 AB 06 C1 D2 01 71 AB 06 C3 67 A4 \
75 AB 32 03 97 71 B9 32 04 97 75 B2 06 C2 D2 07 \
71 B2 77 B9 12 80 F8 15 1A 00 57 32 0E 87 32 0E \
87 57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57 \
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 \
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 \
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 \
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 \
'
if @?lm ' \
   1:led prog $ledcode ; \
   2:led prog $ledcode  ; \
   3:led prog $ledcode  ; \
   4:led prog $ledcode  ; \
   1:led auto on ; \
   2:led auto on  ; \
   3:led auto on  ; \
   4:led auto on  ; \
   1:led start ; \
   2:led start  ; \
   3:led start  ; \
   4:led start  ; \
'

#if @?lm6x10g && !@?chassis2_no_rc ' \
#    local led_file 'lm5673.hex' ; \
#    3:rc ; \
#    4:rc ; \
#    5:rc ; \
#    6:rc ; \
#    '

if @?cfm && !@?chassis2_no_rc ' \
   0:rc ; \
   '
#CFM Config
# Remove the CPU from VLAN. No traffic to CPU.
if @?cfm '0:vlan remove 1 PortBitMap=0x1'
# Filter out unwanted traffic to CPU
```

```
if @?cfm '0:m ING_CPUTOBMAP BMAP=0'

#CFM connectivity
# Always use one port from LM(hg4)  to CFM(Use CFM in slot 1 only
# for inter LM switching)
if @?cfm ' \
      0:m ING_EGRMSKBMAP.hg0 BMAP=0x0aa ; \
      0:m ING_EGRMSKBMAP.hg1 BMAP=0x000 ; \
      0:m ING_EGRMSKBMAP.hg2 BMAP=0x0aa ; \
      0:m ING_EGRMSKBMAP.hg3 BMAP=0x000 ; \
      0:m ING_EGRMSKBMAP.hg4 BMAP=0x0aa ; \
      0:m ING_EGRMSKBMAP.hg5 BMAP=0x000 ; \
      0:m ING_EGRMSKBMAP.hg6 BMAP=0x0aa ; \
      0:m ING_EGRMSKBMAP.hg7 BMAP=0x000 ; \
      0:w vid.1 1 4095 VIDBITMAP=0x0aa ; \
      0:w vid.2 1 4095 VIDBITMAP=0x000 ; \
      0:w vid.3 1 4095 VIDBITMAP=0x0aa ; \
      0:w vid.4 1 4095 VIDBITMAP=0x000 ; \
      0:w vid.5 1 4095 VIDBITMAP=0x0aa ; \
      0:w vid.6 1 4095 VIDBITMAP=0x000 ; \
      0:w vid.7 1 4095 VIDBITMAP=0x0aa ; \
      0:w vid.8 1 4095 VIDBITMAP=0x000 ; \
      '

if @?cfm "\
  ;\
   0:w uc.1     0 128 0x000 ; \
   0:w uc.2     0 128 0x000 ; \
   0:w uc.3     0 128 0x000 ; \
   0:w uc.4     0 128 0x000 ; \
   0:w uc.5     0 128 0x000 ; \
   0:w uc.6     0 128 0x000 ; \
   0:w uc.7     0 128 0x000 ; \
   0:w uc.8     0 128 0x000 ; \
   "
#       Port    Mod    PBMP
if @?cfm \
  " \
   0:w uc.1     0  8 0x002 ; \
   0:w uc.1     8  8 0x008 ; \
   0:w uc.1    16  8 0x020 ; \
   0:w uc.1    24  8 0x080 ; \
   ; \
   0:w uc.3     0  8 0x002 ; \
   0:w uc.3     8  8 0x008 ; \
   0:w uc.3    16  8 0x020 ; \
   0:w uc.3    24  8 0x080 ; \
   ; \
```

```
  0:w uc.5     0  8 0x002 ; \
  0:w uc.5     8  8 0x008 ; \
  0:w uc.5    16  8 0x020 ; \
  0:w uc.5    24  8 0x080 ; \
  ; \
  0:w uc.7     0  8 0x002 ; \
  0:w uc.7     8  8 0x008 ; \
  0:w uc.7    16  8 0x020 ; \
  0:w uc.7    24  8 0x080 ; \
  ; \
  "

######################### LM ############################
#LM config
# Remove the CPU from VLAN. No traffic to CPU.
if $?lm ' \
      0:clear c; \
      0:vlan remove 1 PortBitMap=cpu ; \
      1:vlan remove 1 PortBitMap=cpu ; \
      2:vlan remove 1 PortBitMap=cpu ; \
      3:vlan remove 1 PortBitMap=cpu ; \
      4:vlan remove 1 PortBitMap=cpu ; \
      0:m ING_CPUTOBMAP BMAP=0 ; \
      '
#LM connectivity
if @?lm ' \
      0:m ING_EGRMSKBMAP BMAP=0x03e ; \
       ; \
      0:m ING_EGRMSKBMAP.hg5 BMAP=0x000 ; \
      0:m ING_EGRMSKBMAP.hg6 BMAP=0x000 ; \
      0:m ING_EGRMSKBMAP.hg7 BMAP=0x000 ; \
      0:w vid.1 1 4095 VIDBITMAP=0x03e ; \
      0:w vid.2 1 4095 VIDBITMAP=0x03e ; \
      0:w vid.3 1 4095 VIDBITMAP=0x03e ; \
      0:w vid.4 1 4095 VIDBITMAP=0x03e ; \
      0:w vid.5 1 4095 VIDBITMAP=0x03e ; \
      ; \
      0:w vid.6 1 4095 VIDBITMAP=0x000 ; \
      0:w vid.7 1 4095 VIDBITMAP=0x000 ; \
      0:w vid.8 1 4095 VIDBITMAP=0x000 ; \
      '

########################################
# Hercules UC setup
########################################
if @?lm \
  "  \
  0:w uc.1     0  32 0x020 ; \
```

```
  0:w uc.2     0  32 0x020 ; \
  0:w uc.3     0  32 0x020 ; \
  0:w uc.4     0  32 0x020 ; \
  0:w uc.5     0  32 0x020 ; \
  0:w uc.6     0  32 0x000 ; \
  0:w uc.7     0  32 0x000 ; \
  0:w uc.8     0  32 0x000 ; \
 "

if @?lm3 \
 " \
  0:w uc.1     0  1 0x002 ; \
  0:w uc.1     1  1 0x004 ; \
  0:w uc.1     2  1 0x008 ; \
  0:w uc.1     3  1 0x010 ; \
  ;\
  0:w uc.2     0  1 0x002 ; \
  0:w uc.2     1  1 0x004 ; \
  0:w uc.2     2  1 0x008 ; \
  0:w uc.2     3  1 0x010 ; \
  ;\
  0:w uc.3     0  1 0x002 ; \
  0:w uc.3     1  1 0x004 ; \
  0:w uc.3     2  1 0x008 ; \
  0:w uc.3     3  1 0x010 ; \
  ;\
  0:w uc.4     0  1 0x002 ; \
  0:w uc.4     1  1 0x004 ; \
  0:w uc.4     2  1 0x008 ; \
  0:w uc.4     3  1 0x010 ; \
  ;\
  0:w uc.5     0  1 0x002 ; \
  0:w uc.5     1  1 0x004 ; \
  0:w uc.5     2  1 0x008 ; \
  0:w uc.5     3  1 0x010 ; \
  ;\
  "

if @?lm4 \
 " \
  0:w uc.1     8  1 0x002 ; \
  0:w uc.1     9  1 0x004 ; \
  0:w uc.1    10  1 0x008 ; \
  0:w uc.1    11  1 0x010 ; \
  ;\
  0:w uc.2     8  1 0x002 ; \
  0:w uc.2     9  1 0x004 ; \
  0:w uc.2    10  1 0x008 ; \
```

```
  0:w uc.2    11  1 0x010 ; \
  ;\
  0:w uc.3     8  1 0x002 ; \
  0:w uc.3     9  1 0x004 ; \
  0:w uc.3    10  1 0x008 ; \
  0:w uc.3    11  1 0x010 ; \
  ;\
  0:w uc.4     8  1 0x002 ; \
  0:w uc.4     9  1 0x004 ; \
  0:w uc.4    10  1 0x008 ; \
  0:w uc.4    11  1 0x010 ; \
  ;\
  0:w uc.5     8  1 0x002 ; \
  0:w uc.5     9  1 0x004 ; \
  0:w uc.5    10  1 0x008 ; \
  0:w uc.5    11  1 0x010 ; \
  ;\
  "

if @?lm5 \
  " \
  0:w uc.1    16  1 0x002 ; \
  0:w uc.1    17  1 0x004 ; \
  0:w uc.1    18  1 0x008 ; \
  0:w uc.1    19  1 0x010 ; \
  ;\
  0:w uc.2    16  1 0x002 ; \
  0:w uc.2    17  1 0x004 ; \
  0:w uc.2    18  1 0x008 ; \
  0:w uc.2    19  1 0x010 ; \
  ;\
  0:w uc.3    16  1 0x002 ; \
  0:w uc.3    17  1 0x004 ; \
  0:w uc.3    18  1 0x008 ; \
  0:w uc.3    19  1 0x010 ; \
  ;\
  0:w uc.4    16  1 0x002 ; \
  0:w uc.4    17  1 0x004 ; \
  0:w uc.4    18  1 0x008 ; \
  0:w uc.4    19  1 0x010 ; \
  ;\
  0:w uc.5    16  1 0x002 ; \
  0:w uc.5    17  1 0x004 ; \
  0:w uc.5    18  1 0x008 ; \
  0:w uc.5    19  1 0x010 ; \
  ;\
  "
```

```
if @?lm6 \
 " \
  0:w uc.1    24  1 0x002 ; \
  0:w uc.1    25  1 0x004 ; \
  0:w uc.1    26  1 0x008 ; \
  0:w uc.1    27  1 0x010 ; \
  ;\
  0:w uc.2    24  1 0x002 ; \
  0:w uc.2    25  1 0x004 ; \
  0:w uc.2    26  1 0x008 ; \
  0:w uc.2    27  1 0x010 ; \
  ;\
  0:w uc.3    24  1 0x002 ; \
  0:w uc.3    25  1 0x004 ; \
  0:w uc.3    26  1 0x008 ; \
  0:w uc.3    27  1 0x010 ; \
  ;\
  0:w uc.4    24  1 0x002 ; \
  0:w uc.4    25  1 0x004 ; \
  0:w uc.4    26  1 0x008 ; \
  0:w uc.4    27  1 0x010 ; \
  ;\
  0:w uc.5    24  1 0x002 ; \
  0:w uc.5    25  1 0x004 ; \
  0:w uc.5    26  1 0x008 ; \
  0:w uc.5    27  1 0x010 ; \
  ;\
  "

########################################
# Draco Module ID setup
########################################
if @?lm \
  " \
  1:s MODPORT_7_0 0xcccccccc ; \
  1:s IMODPORT_7_0 0xcccccccc ; \
  1:s MODPORT_15_8 0xcccccccc ; \
  1:s IMODPORT_15_8 0xcccccccc ; \
  1:s MODPORT_23_16 0xcccccccc ; \
  1:s IMODPORT_23_16 0xcccccccc ; \
  1:s MODPORT_31_24 0xcccccccc ; \
  1:s IMODPORT_31_24 0xcccccccc ; \
  2:s MODPORT_7_0 0xcccccccc ; \
  2:s IMODPORT_7_0 0xcccccccc ; \
  2:s MODPORT_15_8 0xcccccccc ; \
  2:s IMODPORT_15_8 0xcccccccc ; \
  2:s MODPORT_23_16 0xcccccccc ; \
  2:s IMODPORT_23_16 0xcccccccc ; \
```

```
  2:s MODPORT_31_24 0xcccccccc ; \
  2:s IMODPORT_31_24 0xcccccccc ; \
  3:s MODPORT_7_0 0xcccccccc ; \
  3:s IMODPORT_7_0 0xcccccccc ; \
  3:s MODPORT_15_8 0xcccccccc ; \
  3:s IMODPORT_15_8 0xcccccccc ; \
  3:s MODPORT_23_16 0xcccccccc ; \
  3:s IMODPORT_23_16 0xcccccccc ; \
  3:s MODPORT_31_24 0xcccccccc ; \
  3:s IMODPORT_31_24 0xcccccccc ; \
  4:s MODPORT_7_0 0xcccccccc ; \
  4:s IMODPORT_7_0 0xcccccccc ; \
  4:s MODPORT_15_8 0xcccccccc ; \
  4:s IMODPORT_15_8 0xcccccccc ; \
  4:s MODPORT_23_16 0xcccccccc ; \
  4:s IMODPORT_23_16 0xcccccccc ; \
  4:s MODPORT_31_24 0xcccccccc ; \
  4:s IMODPORT_31_24 0xcccccccc ; \
    "
if @?lm3\
  " \
  1:m config my_modid=0; \
  1:m iconfig my_modid=0; \
  2:m config my_modid=1; \
  2:m iconfig my_modid=1; \
  3:m config my_modid=2; \
  3:m iconfig my_modid=2; \
  4:m config my_modid=3; \
  4:m iconfig my_modid=3; \
  "
if @?lm4\
  " \
  1:m config my_modid=8; \
  1:m iconfig my_modid=8; \
  2:m config my_modid=9; \
  2:m iconfig my_modid=9; \
  3:m config my_modid=10; \
  3:m iconfig my_modid=10; \
  4:m config my_modid=11; \
  4:m iconfig my_modid=11; \
  "
if @?lm5\
  " \
  1:m config my_modid=16; \
  1:m iconfig my_modid=16; \
  2:m config my_modid=17; \
  2:m iconfig my_modid=17; \
  3:m config my_modid=18; \
```

```
  3:m iconfig my_modid=18; \
  4:m config my_modid=19; \
  4:m iconfig my_modid=19; \
  "
if @?lm6\
  " \
  1:m config my_modid=24; \
  1:m iconfig my_modid=24; \
  2:m config my_modid=25; \
  2:m iconfig my_modid=25; \
  3:m config my_modid=26; \
  3:m iconfig my_modid=26; \
  4:m config my_modid=27; \
  4:m iconfig my_modid=27; \
  "

if $?lm \
  " \
  1:m CONFIG L2DH_EN=0 ; \
  2:m CONFIG L2DH_EN=0 ; \
  3:m CONFIG L2DH_EN=0 ; \
  4:m CONFIG L2DH_EN=0 ; \
  1:age 5 ; \
  2:age 5 ; \
  3:age 5 ; \
  4:age 5 ; \
  "
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/c2switch.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_furia_debug_functions.h 776 2014-11-11 18:28:55Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
```

```
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
************************************************************************************
************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_debug_functions.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
# $Id: dsanity.soc,v 1.10 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
# Avoid link messages while testing

echo "testsuite: started: sanity"
# We need to print out port status since any cabling effects results.
*:ps

linkscan off

# Use expected COS configuration for test
config add bcm_num_cos=4

init
init misc

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# Tests Start Here

echo Running CPU benchmarks ...
tr 21
```

```
$done

echo Running PCI tests ...
tr 2
$done

echo Running register tests ...
tr 3
$done

echo Running S-Channel message buffer test ...
tr 4
$done

# Note: Memories that are on the same line cannot be BISTed independently
if !$?drac15                                    \
 "echo Running BIST on all tables ...;         \
 init;                                          \
 echo \"   DEF_IP_HI\"; bist DEF_IP_HI;        \
 echo \"   DEF_IP_LO\"; bist DEF_IP_LO;        \
 echo \"   L2_TABLE\"; bist L2_TABLE;          \
 echo \"   L2MC_TABLE VLAN_STG L3_IPMC\";      \
 bist L2MC_TABLE VLAN_STG L3_IPMC;             \
 echo \"   L3INTF VLAN\"; bist L3INTF VLAN;    \
 echo \"   GIMASK GIRULE\"; bist GIMASK GIRULE;\
 echo \"   CBPDATA0\"; bist CBPDATA0;          \
 echo \"   CBPDATA1\"; bist CBPDATA1;          \
 echo \"   CBPDATA2\"; bist CBPDATA2;          \
 echo \"   CBPDATA3\"; bist CBPDATA3;          \
 echo \"   CBPHEADER\"; bist CBPHEADER;        \
 echo \"   CCP CFAP\"; bist CCP CFAP;          \
 echo \"   XQ 0-13\"; \
 bist XQ0 XQ1 XQ2 XQ3 XQ4 XQ5 XQ6 XQ7 XQ8 XQ9 XQ10 XQ11 XQ12 XQ13; \
 init"
$done

echo Running Switching Memory tests
# Note: Switching memory tests automatically put MMU in debug mode

echo "   DEF_IP_HI";  tr 50 m=DEF_IP_HI; tr 51 m=DEF_IP_HI
echo "   DEF_IP_HIT_HI"; tr 50 m=DEF_IP_HIT_HI; tr 51 m=DEF_IP_HIT_HI
echo "   DEF_IP_HIT_LO"; tr 50 m=DEF_IP_HIT_LO; tr 51 m=DEF_IP_HIT_LO
if !$?drac15                                    \
 "echo \"   DEF_IP_LO\"; tr 50 m=DEF_IP_LO; tr 51 m=DEF_IP_LO"
echo "   EGRESS_MASK";  tr 50 m=EGRESS_MASK; tr 51 m=EGRESS_MASK
echo "   GFFPCOUNTERS";  tr 50 m=GFFPCOUNTERS; tr 51 m=GFFPCOUNTERS
echo "   GFFPPACKETCOUNTERS"; tr 50 m=GFFPPACKETCOUNTERS
   tr 51 m=GFFPPACKETCOUNTERS
```

```
echo "   GIMASK";  tr 50 m=GIMASK; tr 51 m=GIMASK
echo "   GIRULE";  tr 50 m=GIRULE; tr 51 m=GIRULE
echo "   GMETERING";  tr 50 m=GMETERING; tr 51 m=GMETERING
echo "   L2_TABLE";  tr 50 m=L2_TABLE; tr 51 m=L2_TABLE
echo "   L2_HIT_BITS";  tr 50 m=L2_HIT_BITS; tr 51 m=L2_HIT_BITS
echo "   L2MC_TABLE";  tr 50 m=L2MC_TABLE; tr 51 m=L2MC_TABLE
echo "   L2_STATIC_BITS"; tr 50 m=L2_STATIC_BITS; tr 51 m=L2_STATIC_BITS
echo "   L2_VALID_BITS"; tr 50 m=L2_VALID_BITS; tr 51 m=L2_VALID_BITS
echo "   L3_TABLE";  tr 50 m=L3_TABLE; tr 51 m=L3_TABLE
echo "   L3_HIT_BITS";  tr 50 m=L3_HIT_BITS; tr 51 m=L3_HIT_BITS
echo "   L3_VALID_BITS"; tr 50 m=L3_VALID_BITS; tr 51 m=L3_VALID_BITS
echo "   L3INTF";  tr 50 m=L3INTF; tr 51 m=L3INTF
echo "   L3_IPMC";  tr 50 m=L3_IPMC; tr 51 m=L3_IPMC
echo "   PORT_MAC_BLOCK"; tr 50 m=PORT_MAC_BLOCK; tr 51 m=PORT_MAC_BLOCK
echo "   PORT";   tr 50 m=PORT; tr 51 m=PORT
echo "   VLAN_STG";  tr 50 m=VLAN_STG; tr 51 m=VLAN_STG
echo "   TRUNK_BITMAP";  tr 50 m=TRUNK_BITMAP; tr 51 m=TRUNK_BITMAP
echo "   PORT_TRUNK_EGRESS"; tr 50 m=PORT_TRUNK_EGRESS
   tr 51 m=PORT_TRUNK_EGRESS
echo "   TRUNK_GROUP";  tr 50 m=TRUNK_GROUP; tr 51 m=TRUNK_GROUP
echo "   VLAN";   tr 50 m=VLAN; tr 51 m=VLAN
if $?drac15                                  \
 "echo \"   DSCP\"; tr 50 m=DSCP; tr 51 m=DSCP; \
 echo \"   L3_ECMP\"; tr 50 m=L3_ECMP; tr 51 m=L3_ECMP; \
 echo \"   IPMC_GROUP\"; tr 50 m=IPMC_GROUP; tr 51 m=IPMC_GROUP; \
 echo \"   IPMC_VLAN\"; tr 50 m=IPMC_VLAN; tr 51 m=IPMC_VLAN; \
 echo \"   VLAN_DATA\"; tr 50 m=VLAN_DATA; tr 51 m=VLAN_DATA; \
 echo \"   VLAN_MAC\"; tr 50 m=VLAN_MAC; tr 51 m=VLAN_MAC; \
 echo \"   VLAN_MAC_VALID\"; \
   tr 50 m=VLAN_MAC_VALID; \
   tr 51 m=VLAN_MAC_VALID; \
 echo \"   VLAN_PROTOCOL\"; \
   tr 50 m=VLAN_PROTOCOL; \
   tr 51 m=VLAN_PROTOCOL;   \
 echo \"   VLAN_SUBNET\"; tr 50 m=VLAN_SUBNET; tr 51 m=VLAN_SUBNET"
echo "   CBPDATA 0-3";  tr 50 m=CBPDATA0; tr 51 m=CBPDATA0
   tr 50 m=CBPDATA1; tr 51 m=CBPDATA1
   tr 50 m=CBPDATA2; tr 51 m=CBPDATA2
   tr 50 m=CBPDATA3; tr 51 m=CBPDATA3
echo "   CBPHEADER";  tr 50 m=CBPHEADER; tr 51 m=CBPHEADER
echo "   CCP";   tr 50 m=CCP; tr 51 m=CCP
echo "   CFAP";   tr 50 m=CFAP; tr 51 m=CFAP
if $?feature_ipmc_lookup                         \
 "echo \"   EGR_TRUNK_MAP\"; \
   tr 50 m=EGR_TRUNK_MAP; tr 51 m=EGR_TRUNK_MAP; \
 echo \"   SRC_TRUNK_MAP\"; \
   tr 50 m=SRC_TRUNK_MAP; tr 51 m=SRC_TRUNK_MAP"
if $?feature_mstp_lookup                         \
```

```
 "echo \"   MSTP_TBL\"; tr 50 m=MSTP_TBL; tr 51 m=MSTP_TBL; \
 echo \"   ST_PORT_TBL\"; tr 50 m=ST_PORT_TBL; tr 51 m=ST_PORT_TBL"
echo "   XQ 0-13"
for xq=0,13 'tr 50 m=XQ$xq; tr 51 m=XQ$xq'
$done

echo Running Table DMA Tests
# Specify a zero count for each test to indicate entire memory.
# Otherwise the count from the previous invocation is used.
echo "   DEF_IP_HI";  tr 71 m=DEF_IP_HI c=0
echo "   DEF_IP_HIT_HI"; tr 71 m=DEF_IP_HIT_HI c=0
echo "   DEF_IP_HIT_LO"; tr 71 m=DEF_IP_HIT_LO c=0
if !$?drac15 \
 "echo \"   DEF_IP_LO\"; tr 71 m=DEF_IP_LO c=0"
echo "   EGRESS_MASK";  tr 71 m=EGRESS_MASK c=0
if $?feature_ipmc_lookup \
 "echo \"   EGR_TRUNK_MAP\"; \
   tr 71 m=EGR_TRUNK_MAP c=1"
echo "   GFFPCOUNTERS";  tr 71 m=GFFPCOUNTERS c=0
echo "   GFFPPACKETCOUNTERS"; tr 71 m=GFFPPACKETCOUNTERS c=0
echo "   GMETERING";  tr 71 m=GMETERING c=0
echo "   L2_TABLE";  tr 71 m=L2_TABLE c=0
echo "   L2_HIT_BITS";  tr 71 m=L2_HIT_BITS c=0
echo "   L2MC_TABLE";  tr 71 m=L2MC_TABLE c=0
echo "   L2_STATIC_BITS"; tr 71 m=L2_STATIC_BITS c=0
echo "   L2_VALID_BITS"; tr 71 m=L2_VALID_BITS c=0
echo "   L3_TABLE";  tr 71 m=L3_TABLE c=0
echo "   L3_HIT_BITS";  tr 71 m=L3_HIT_BITS c=0
echo "   L3_VALID_BITS"; tr 71 m=L3_VALID_BITS c=0
echo "   L3INTF";  tr 71 m=L3INTF c=0
echo "   L3_IPMC";  tr 71 m=L3_IPMC c=0
if $?feature_mstp_lookup \
 "echo \"   MSTP_TBL\"; tr 71 m=MSTP_TBL c=1"
echo "   PORT_MAC_BLOCK"; tr 71 m=PORT_MAC_BLOCK c=0
echo "   PORT";   tr 71 m=PORT c=0
if $?feature_ipmc_lookup \
 "echo \"   SRC_TRUNK_MAP\"; tr 71 m=SRC_TRUNK_MAP c=1"
if $?feature_mstp_lookup \
 "echo \"   ST_PORT_TBL\"; tr 71 m=ST_PORT_TBL c=1"
echo "   VLAN_STG";  tr 71 m=VLAN_STG c=0
echo "   TRUNK_BITMAP";  tr 71 m=TRUNK_BITMAP c=0
echo "   PORT_TRUNK_EGRESS"; tr 71 m=PORT_TRUNK_EGRESS c=0
echo "   TRUNK_GROUP";  tr 71 m=TRUNK_GROUP c=0
echo "   VLAN";   tr 71 m=VLAN c=0
if $?drac15 \
 "echo \"   DSCP\"; tr 71 m=DSCP c=0;          \
 echo \"   L3_ECMP\"; tr 71 m=L3_ECMP c=0;       \
 echo \"   IPMC_VLAN\"; tr 71 m=IPMC_VLAN c=0;      \
```

```
 echo \"   VLAN_DATA\"; tr 71 m=VLAN_DATA c=0;      \
 echo \"   VLAN_MAC\"; tr 71 m=VLAN_MAC c=0;       \
 echo \"   VLAN_MAC_VALID\"; \
    tr 71 m=VLAN_MAC_VALID c=0; \
 echo \"   VLAN_PROTOCOL\"; \
    tr 71 m=VLAN_PROTOCOL c=0;  \
 echo \"   VLAN_SUBNET\"; \
    tr 71 m=VLAN_SUBNET c=0;"
$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
$done

echo Running L2 insert/delete/lookup test ...
tr 32
$done

echo Running L2 overflow insert test ...
tr 33
$done

echo Running L2 hash test ...
tr 34
$done

echo Running L2 delete by port test ...
tr 35
$done

echo Running L2 delete by vlan test ...
tr 36
$done

echo Running L3 overflow insert test ...
tr 37
$done

echo Running L3 hash test ...
tr 38
```

```
$done

echo Running MDIO Linkscan test
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

echo Testing CPU DMA loopback ...
tr 17 c=5
$done

echo Testing CPU DMA, Scatter/Gather Reload ...
tr 22
$done

echo Testing CPU DMA, Scatter/Gather Simple ...
tr 23
$done

echo Testing CPU DMA, Scatter/Gather Random ...
tr 24
$done

#--------- MAC Loopback ---------

echo Testing MAC Loopback - 10 Mb/s all GE ports
tr 18 pbm=ge speed=10

echo Testing MAC Loopback - 100 Mb/s all GE ports
tr 18 pbm=ge speed=100

echo Testing MAC Loopback - 1000 Mb/s all GE ports
tr 18 pbm=ge speed=1000

echo Testing MAC Loopback - 10000 Mb/s all HG ports
tr 18 pbm=hg speed=10G

$done

#--------- PHY Loopback ---------

echo Testing PHY Loopback - 10 Mb/s all GE ports
tr 19 pbm=ge speed=10 count=1

echo Testing PHY Loopback - 100 Mb/s all GE ports
tr 19 pbm=ge speed=100 count=1
```

```
echo Testing PHY Loopback - 1000 MB/s all GE ports
tr 19 pbm=ge speed=1000

$done

#--------- EXT Loopback ---------

# If you have external loopback cables connected as follows
# 1-2, 3-4, 5-6, 7-8, 9-10, 11-12
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
# setenv ext10 1
# setenv ext100 1
# setenv ext1000 1
# or
# setenv extall 1

local fwd 0x555
local bwd 0xaaa

if $?extall \
 "local ext10 1; local ext100 1; local ext1000 1"

if $?ext10 \
 "echo Testing External Loopback - 10 MB/s forward; \
  tr 20 tpbm=$fwd di=1 speed=10 count=10; \
  echo Testing External Loopback - 10 MB/s reverse; \
  tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
 "echo Testing External Loopback - 100 MB/s forward; \
  tr 20 tpbm=$fwd di=1 speed=100 count=10; \
  echo Testing External Loopback - 100 MB/s reverse; \
  tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if $?ext1000 \
 "echo Testing External Loopback - 1000 MB/s forward; \
  tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
  echo Testing External Loopback - 1000 MB/s reverse; \
  tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

#--------- INT snake Loopback ---------

echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two

echo "Running internal snake on all ports, PHY loopback ..."
```

```
tr 39 loopbackmode=phy snakepath=two

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

echo "Testing Filters"
rcload rc.soc
tr 70

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/dsanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_route_over_ac.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*****************************************************************************************************
*****************************************************
* This CINT script is an example how to setup route over ac function in PON application downstream.
*
* Network diagram
*
*
*                    -------------------------------------
*                   |                           |
*                   |                           |
*                   |            ROUTER             |
*                   |                           |
*                   |  ---------            ------    |
*                   | |  VSIx   |           | VSIy |    |
```

```
*                    |  ---------            ------    |
*                    |   |    |              |      |
*                    |   | RIF1|            RIF2|       |
*                    |____|_____|_____________________|________|
*                        |                      |
*                        |                      |
*                     host1 (PON  port)        host3 (NNI port)
*                    <10,100>                  <30>
*
*                    <x,y> - x is tunnel ID     <y> - y is outer VID
*                            y is outer VID
*
* Default values:
* VLAN values are in diagramm
* Host1   -   MAC: 00:00:11:11:11:11
*             IP:  17.17.17.17
* Host3   -   MAC: 00:00:33:33:33:33
*             IP:  51.51.51.51
* PORT1(RIF1) - MAC: 00:11:00:00:01:11
* PORT2(RIF2) - MAC: 00:11:00:00:02:22
*
* run:
* cd   ../../../../src/examples/dpp
* cint utility/cint_utils_global.c
* cint utility/cint_utils_port.c
* cint utility/cint_utils_l2.c
* cint utility/cint_utils_l3.c
* cint utility/cint_utils_vlan.c
* cint cint_port_tpid.c
* cint pon/cint_route_over_ac.c
* cint pon/cint_pon_field_router_over_ac.c
* cint
* print route_over_ac_with_ports__start_run(unit,pon_port,nni_port);
* print field_group_router_over_ac_pselect_setup(unit, nni_port);
* print field_group_router_over_ac_setup(unit, group_pri);
*
* All default values could be re-written with initialization of the global structure 'g_route_over_ac', before calliing
the main  function
* In order to re-write only part of values, call 'route_over_ac_struct_get(route_over_ac_s)' function and re-write
values,
* prior calling the main function
*
* ##############    Scenario #1    #######################
*
*  Traffic from Host3 (NNI port) to Host1 (PON port)
*  Testing routing over ac between two AC's that belong to different VSI's
*
*    Send:
```

```
*            ----------------------------------------------
*       eth: |    DA     |     SA      |   VLAN-O |
*            ----------------------------------------------
*           |  RIF2_mac | host3_mac   |    30    |
*            ----------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host3_ip  |  host1_ip |
*               -----------------------
*    Receive:
*            ----------------------------------------------
*       eth: |    DA     |     SA      |   tunnel ID | VLAN-O |
*            ----------------------------------------------
*           | host1_mac |  RIF1_mac   |    10    |  100   |
*            ----------------------------------------------
*
*               -----------------------
*           ip: |   SIP     | DIP       |
*               -----------------------
*              | host3_ip  |  host1_ip |
*               -----------------------
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_route_over_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc.c
* Purpose:     SOC related CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/soc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vlan_basic_bridge.c,v 1.6 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vlan_basic_bridge.c
* Purpose: Example of Basic Bridging VLAN membership
*
* Calling sequence for case 1 (vsi =vlan):
*  1. Create vlan and Add port for basic bridging, Add l2 address for unicast.
*       - Call bcm_vlan_create()
*       - Call bcm_vlan_port_add()
*       - Call bcm_l2_addr_add()
*  2. Remove port from vlan and Verify the traffic
*       - Call bcm_vlan_port_remove()
*
* Calling sequence for case 2 (vsi !=vlan):
*  1. Create vlan and vsi, Create the vlan_port with vlan and vsi, Add port for bridging, Add l2 address for unicast.
*       - Call bcm_vlan_create()
*       - Call bcm_vlan_port_create()
*       - Call bcm_vlan_port_add()
*       - Call bcm_l2_addr_add()
*  2. Remove port from vlan and Verify the traffic
*       - Call bcm_vlan_port_remove()
*  3. Create and remove a specific number of vlan_port for both cases:
*       - Call vlan_basic_bridge_vlan_port_test()
*
*Calling sequence for case 3 (vsi = vlan + vsi_base):
*     - Call bcm_vswitch_create_with_id()    - create vswitch (vsi= vsi_base+vid)
*     - Call bcm_vlan_create()               - create vlan
*     - Call bcm_multicast_create()          - create multicast group
*     - Call bcm_vlan_port_create()          - allocate lif only (see parameters)
*     - Call bcm_port_match_add()            - associate port with allocated lif
*     - Call bcm_vswitch_port_add()          - add port to created vsi
*     - Call bcm_multicast_egress_add()      - add port to multicast group for flooding
*     - Call bcm_l2_addr_add()               - add l2 addresses fo unicast
*
* Traffic:
*  1. For case vlan=vsi=10.
*  unicast:
*     -   Send Ethernet packet  to port 1:
*         -   SA 00:00:00:00:00:05
*         -   DA 00:00:00:00:00:02
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*     -   Packet is transmitted to port 2.
*
*  Flooding
*     -   Send Ethernet packet to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
```

```
*         -   VLAN tag: VLAN tag type 0x8100, VID =10
*     -   Packet is flooded to port 2(as DA is not known).
*
*  2. For case vlan=20 vsi=30.
*  unicast:
*     -   Send Ethernet packet  to port 1:
*         -   SA 00:00:00:00:00:05
*         -   DA 00:00:00:00:00:02
*         -   VLAN tag: VLAN tag type 0x8100, VID =20
*     -   Packet is transmitted to port 2.
*
*  Flooding
*     -   Send Ethernet packet to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =20
*     -   Packet is flooded to port 2(as DA is not known).
*
*  3. For case vlan=20 vsi_base = 4096 => vsi = vlan+vsi_base.
*  unicast:
*     -   Send Ethernet packet  to port 1:
*         -   SA 00:00:00:00:00:05
*         -   DA 00:00:00:00:00:02
*         -   VLAN tag: VLAN tag type 0x8100, VID =20
*     -   Packet is transmitted to port 2.
*
*  Flooding
*     -   Send Ethernet packet to port 1:
*         -   SA 00:00:00:00:00:05
*         -   Unknown DA
*         -   VLAN tag: VLAN tag type 0x8100, VID =20
*     -   Packet is flooded to port 2(as DA is not known).
* To Activate Above Settings Run:
*     BCM> cint ../../../../src/examples/dpp/cint_port_tpid.c
*     BCM> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
*     BCM> cint ../../../../src/examples/dpp/cint_vlan_basic_bridge.c
*     BCM> cint
*     cint> vlan_basic_bridge_run(unit, vid);
*     cint> vlan_basic_bridge_run2(unit, vid, vsi);
*     cint> vlan_base_vid_run(unit,vid,vsi_base);     ----> in order to run this scenario avoid running
vlan_basic_bridge_run&vlan_basic_bridge_run2 before
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_basic_bridge.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpOneBitEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpOneBitEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88230_b0.c
* Purpose:     bcm88230_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88230_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_cache.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_cache.c
* Purpose: Example of the usage of l2_cahce APIs to trap BPDUs.
*
* Via this capability, you can control packets based on <incoming-port, MAC-DA, subtype>.
* The action can be to drop/trap/redirect/snoop the packet.
*
* Default settings:
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    By default, learning is managed by device without interference from the CPU.
*  o    By default, aging is disabled.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
```

```
* Note: Without running diag_init, ports are not associated with any TPID,
*       and thus all packets would be considered as untagged.
*       Besides, only untagged packets are accepted.
*
* In Arad, the l2-cache entry has to fulfill the following rules:
*  o    Classification has to include the explicit port, that is, src_port_mask = 0
*       and src_port has to be a valid local port.
*  o    vlan_mask/vlan are ignored and has to be set to  - 1.
*  o    DA can be one of the following:
*       -    Either MAC DA is reserved MC MAC, and mac_mask has to be all zero
*       OR
*       -    MAC DA can be any MAC address and mac_mask can mask only consecutive lsb-bits of the MAC
*       -    In the second case, you can supply also the subtype.
*
* Calling l2_cache_init(unit, -1, 0x0180, 0xc2000002,  $0x0188, $0xc2005505, 1, 5, 10);
*  o    Send packets ingress from port 1 with DA: 01-80-c2-00-00-02 to port 5 with priority (Traffic-Class) 6
*  o    Drop packets ingress from port 1 with DA: 01-88-c2-00-55-xx and subtype 0
*
* Multi Device
*  o    For a two-unit example, call l2_cache_init(unit, 1, 0x0180, 0xc2000002,  $0x0188, $0xc2005505, 1, 5, 10);
* Note:
*  o    This is the same as the one-device example, except that the In port is on device 0
*       and the Out port is on device 1.
*  o    The "unit" device should be the master unit and the "second_unit" device should be the slave unit.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_cache.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_stat_if.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_stat_if.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_tmu_hash.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_tmu.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_tmu_hash.c
No license file was found, but licenses were detected in source scan.

```
/** \file template_mngr_api.h
*
* Internal DNX template manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/template_mngr/template_mngr_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brcm_osl.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom OS Independent Layer
*
* NOTE: This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
* the contents of this file may not be disclosed to third parties, copied or
* duplicated in any form, in whole or in part, without the prior written
* permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/brcm_osl.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_tdm.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_tdm.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: api_grammar.y,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       api_grammar.y
* Purpose:    API mode parser
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/api_grammar.y
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: physim.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       physim.c
* Purpose:    Dummy phy driver for simulation
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/physim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaEsetPriEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaEsetPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_modid_group_map.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE MODID GROUP MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/dfe_modid_group_map.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wlan.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* WLAN CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Id: sbutils.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/sbutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
```

*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Software Memory Error Scanning

Curt McDowell
Broadcom Corp. 08-27-04
Last Updated: 08-30-04

---

1) Introduction

The amount of on-chip memory in a switch or fabric chip is rapidly increasing. Regardless of how good a memory technology is, the chance that an alpha particle or similar event causes corruption somewhere in the chip memory increases linearly with the amount of memory on the chip, and also increases linearly with the number of chips in the system (which may contribute more than an order of magnitude in a chassis or stacking environment).

One possibility is for software to keep a cached copy of the contents of certain on-chip memories, and periodically compare the contents of the hardware memory with the cached copy. If an unexpected mismatch is found, software can report it is a memory error and update the on-chip memory with good data from the cached copy. This is the technique described in this document.

2) Implementation

A low-level memory caching mechanism already exists in the memory read and write routines at the SOC layer. The primary intent for this caching mechanism is to enhance performance by completely eliminating memory reads to memories which are eligible for caching.

Our implementation of memory scanning works in conjunction with this caching mechanism. This works well because in general, the same memories that are eligible for caching are also the ones amenable to software error scanning (see Eligible Memories below), and the memory spent on the backing store results in the additional performance benefits of caching.

An optional background task called "memscan" has been added, and is implemented in soc/memscan.c. Also, a "memscan" command has been added to the BCM Diagnostics CLI to start and stop this task with selectable

operating parameters.

When the memscan task is running (a separate one per unit), it continually scans the contents of any memories for which caches are enabled. If a memory error is detected, a message is displayed on the console at the DK_WARN error level, and the problem is fixed by writing back good data from the cache.

The configuration parameters are:

* Interval - The period in microseconds between times the scan thread wakes up to scan table entries.

* Rate - The number of table entries to scan each time the scan thread wakes up.

For example, if the interval is set to 100000 (ten times per second) and the rate is set to 64, then the task will process a total of 640 entries per second (64 entries ten times per second). The amount of time to scan all memories depends on the total number of entries being scanned, which in turn depends on which memories have caching enabled.

3) Limitations

There are a number of limitations to this method, some of them severe. The overall value of enabling software memory error scan is left to the judgement of the application designer. By default, the SDK does not use memory error scanning (or caching). It should only be used with careful consideration to the information in this section.

3.1) Memory Consumption

Enabling the caches on a particular memory causes an amount of memory approximately equal to the size of the on-chip memory to be allocated to keep the memory backing store. If there is more than one copy of a memory on a chip, each copy is cached independently. Also, if there is more than one chip attached to the same CPU using caching, this can add up to a lot of memory.

3.2) CPU Utilization

Performing the scanning consumes CPU cycles. The amount of CPU dedicated to this activity is fully adjustable and is dependent on the Interval and Rate parameters. Also, the scanning consumes a small amount of PCI bandwidth. Also, if there is more than one chip attached to the CPU using scanning, this can add up to a lot of CPU cycles.

3.3) Latency to Failure Correction

This method will not prevent errors from occurring. It can only correct the error some time after it has been detected.

If a memory error does occur, the average latency to detect and correct it will be one half of the total time required for the scan task to scan all memories.

During the time the memory error exists, the switching behavior of the chip may be affected if the chip references the bad location. A wide variety of incorrect behaviors could occur during this window. For example, if the trunk table were corrupted, packets might be sent to the wrong port until the error was corrected.

3.4) Eligible Memories

Memories of a "dynamic" nature are ineligible for caching, and also ineligible for software error correction scanning.

"Dynamic" memories are those that may be updated automatically by the hardware. If the software were to attempt to cache these memories, changes by the hardware would not be visible to the application, or would be seen as memory errors by the scanning process.

Some examples of dynamic memories include:

* Counter memories, such as those used for Metering

* Memories with hit bits, such as L2, L3, and LPM tables

* Memories with special hardware macro-commands that manipulate the memory; for example, Hash Table Insert/Delete. It would be complex to emulate the equivalent behavior in the cache for each case.

* Memories with multiple software "views." As a theoretical example, there might be one physical memory in the hardware, but the same memory can be accessed in three ways either as a "left half entry," "right half entry," or as a "whole entry."

* Memories with automatic recalculate-on-write parity bits. Although it will work if the parity bits are marked No-Test, most likely such errors should be processed by the parity interrupt mechanism instead.

In general, large dynamic memories demand special hardware to achieve some form of protection. ECC can be used to eliminate errors, but is generally too expensive to consider. Parity allows errors to be detected, ensures the bad data does not get used for switching, and often also allows corrective action to be taken by software.

3.5) Disease vs. Cure

In the course of memory scanning over a period of weeks or months, the CPU could perform trillions of reads and transfer terabytes of data from the switch chip across the PCI bus. If the likelihood of a CPU error, PCI error, or other problem exceeds the likelihood of an actual memory error occurring, then the cure could be worse than the disease and scanning would be inadvisable.

Although the SOC software library performs careful locking on accesses to the memories (MEM_LOCK) by the scan task and accesses by the switching application, there is a small but non-zero danger a software bug or race condition could still exist and cause an infrequent crash of unknown origin.

Some users may wish to use memory scanning for diagnostic purposes. For example, it could be enabled on all chips in a chassis during a burn-in period.

4) Example

The following tutorial shows how to enable and test memory scanning, and assumes a BCM5690 is being used.

All of the visible memories in the chip can be shown using the "listmem" command in the diagnostics. The "C" flag in the Flags column indicates that the memory is eligible for caching, and therefore also eligible for software error scanning:

```
BCM.0> listmem
Flags   Name                Entry/Copy Description
----bC  DEF_IP_HI             4097      top-half default IP Router Table
------  DEF_IP_HIT_HI          512      top-half default IP router table h...
------  DEF_IP_HIT_LO          512      bottom-half default IP router tabl...
r-----  DEF_IP_HI_ENTRY        4096      top-half default IP Router Table
----bC  DEF_IP_LO             4097      bottom-half default IP Router Table
r-----  DEF_IP_LO_ENTRY        4096      bottom-half default IP Router Table
-----C  EGRESS_MASK           1024      egress mask table
------  GFFPCOUNTERS            32/12   FFP Counters
------  GFFPPACKETCOUNTERS      64/12   FFP Counters
----bC  GIMASK                16/12   Inclusive Filter Mask Table
--s-bC  GIRULE               128/12   Inclusive Filter Rules Table
------  GMETERING              64/12   METERING TABLE
------  HASHINPUT               1      struct used for GetHash function
------  HASHTRAP                1      trap information when a bucket ove...
r-h---  L2_ENTRY             16384      L2 ENTRY
----b-  L2_TABLE             16384      L2 TABLE
```

```
------  L2_HIT_BITS          2048     L2 table source hit bits
----bC  L2MC_TABLE            256     L2 multicast table
------  L2_STATIC_BITS       2048     L2 table static bits
------  L2_VALID_BITS        2048     L2 table valid bits
r-h---  L3_ENTRY             4096     L3 table
----b-  L3_TABLE             4096     L3 table
------  L3_HIT_BITS           512     L3 table source hit bits
------  L3_VALID_BITS         512     L3 table valid bits
----bC  L3INTF                512     L3 interface table
----bC  IPMC                  256     IP Multicast Table
-----C  PORT_MAC_BLOCK         32     MAC block mask table
-d-cb-  CBPDATA0             8192     CBP Data0 RAM
-d-cb-  CBPDATA1             8192     CBP Data1 RAM
-d-cb-  CBPDATA2             8192     CBP Data2 RAM
-d-cb-  CBPDATA3             8192     CBP Data3 RAM
-d-cb-  CBPHEADER            8192     CBP Header RAM
-d-cb-  CCP                  8192     Copy CountPool RAM
-d-cb-  CFAP                 8192     Cell Free Address Pool RAM
-d-cb-  XQ0                  8192     XQ0
-d-cb-  XQ1                  8192     XQ1
-d-cb-  XQ2                  8192     XQ2
-d-cb-  XQ3                  8192     XQ3
-d-cb-  XQ4                  8192     XQ4
-d-cb-  XQ5                  8192     XQ5
-d-cb-  XQ6                  8192     XQ6
-d-cb-  XQ7                  8192     XQ7
-d-cb-  XQ8                  8192     XQ8
-d-cb-  XQ9                  8192     XQ9
-d-cb-  XQ10                 8192     XQ10
-d-cb-  XQ11                 8192     XQ11
-d-cb-  XQ12                 8192     XQ12
-d-cb-  XQ13                 8192     XQ13
-----C  PORT                   12     port table
----bC  VLAN_STG              256     spanning tree group table
-----C  TRUNK_BITMAP           32     trunk bitmap table
-----C  PORT_TRUNK_EGRESS      32     trunk egress mask table
-----C  TRUNK_GROUP            32     trunk group table
----bC  VLAN                 4096     802.1Q vlan table
Flags: (r)eadonly, (d)ebug, (s)orted, (h)ashed
     C(A)M, (c)bp, (b)ist-able, (C)achable
```

The following command enables memory scanning at a rate of 640 entries per second. The actual rate to use is completely up to the application designer.

```
BCM.0> memscan interval=100000 rate=64
BCM.0> memscan off  (turns it off -- or can use interval=0)
BCM.0> memscan on  (resumes with previous parameters)
```

No scanning actually takes place until caching is enabled on the target memories. The memory scan task and memory caching can be enabled and disabled independently and at will without fear of repercussions. The following is an example of a randomly chosen set of memories on BCM5690:

```
BCM.0> cache +egress_mask +gimask +girule +l2mc_table +vlan
```

Note that only the cached entries are scanned. On BCM5670, enabling the caches does not pre-fetch the memories into the cache, so only the individual entries actually written by software after the caches are enabled will be scanned. On BCM5690, enabling the caches uses table DMA to pre-fetch the contents of the memories into the cache, so all entries will be scanned immediately after the cache is enabled.

```
BCM.0> debug +tests     (or "-tests" to turn off)
```

The test debug flag is used to cause the memscan task to display debugging information. Warning: a copious amount of information may be displayed if the interval is small. One piece of information the task will display is the total number of entries being scanned (at the conclusion of a scan pass). This may be useful in deciding what interval and rate to settle with.

There is a secret "nocache" keyword option to the "write" command. This option allows one to write into a memory without the cache being updated. This can be used to induce a "memory error" for testing purposes. In the following example, an "error" is induced in an STG_TAB entry, and some time later the scan task notices and corrects it.

```
BCM.0> d raw vlan_stg 100 1
VLAN_STG.arl0[100]: 0x0030d69c
BCM.0> w nocache vlan_stg 100 1 0x30d68f
BCM.0> [bcmMEM_SCAN.1]Memory error detected on unit 1 in STG_TAB.arl0[100]
[bcmMEM_SCAN.1]    WAS: 0030d69c
[bcmMEM_SCAN.1]    BAD: 0030d68f
[bcmMEM_SCAN.1]    Corrected by writing back cached data
```

The following example can be used to stress-test the memory accesses on a Lancelot platform (where unit 0 is BCM5670 and units 1-4 are BCM5690):

```
BCM.0> *:memscan i=10000 r=256
MemSCAN: Started on unit 0
MemSCAN: Started on unit 1
MemSCAN: Started on unit 2
MemSCAN: Started on unit 3
MemSCAN: Started on unit 4
BCM.0> 0:cache uc mc vid
```

```
BCM.0> 1-4:cache def_ip_hi def_ip_lo egress_mask gimask girule ipmc
BCM.0> 1-4:cache l2mc_table l3intf port_mac_block port vlan_stg
BCM.0> 1-4:cache trunk_bitmap port_trunk_egress trunk_group vlan
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/memscan.txt
No license file was found, but licenses were detected in source scan.

```
/*
   BCM53xx Register definitions
   Supports: BCM5325m, BCM5335

   Copyright 2002, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.

   $Id: etc53xx.h,v 1.4 2011/09/28 22:56:03 miyarn Exp $

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etc53xx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.99 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     Receive packet mechanism
*
*******************************************************************
* Requires:
*
* See firmware/orion/doc/txrx.txt and pkt.txt for
* information on the RX API and implementation.
*
* Quick overview:
*
*     Packet buffer allocation/deallocation is user configurable.
*     This expects to be given monolithic (single block) buffers.
*     When "HANDLED_OWNED" is returned by a handler, that means
```

```
*     that the data buffer is stolen, not the packet structure.
*
*     Callback functions may be registered in interrupt or non-
*     interrupt mode.  Non-interrupt is preferred.
*
*     Interrupt load is limitted by setting overall rate limit
*     (bcm_rx_rate_burst_set/get).
*
*     If a packet is not serviced in interrupt mode, it is queued
*     based on its COS.
*
*     Each queue has a rate limit (bcm_rx_cos_rate_set/get) which
*     controls the number of callbacks that will be made for the queue.
*     The non-interrupt thread services these queues from highest to
*     lowest and will discard packets in the queue when they exceed
*     the queue's rate limit.
*
*     Packets handled at interrupt level are still accounted for in
*     the COS rate limiting.
*
*     A channel is:
*         Physically:  A separate hardware DMA process
*         Logically:  A collection of COS bundled together.
*     Rate limitting per channel is no longer supported (replaced
*     by COS queue rate limitting).
*
*     Channels may be enabled and disabled separately from starting RX
*     running.  However, stopping RX disables all channels.
*
*     Packets are started in groups called "chains", each of which
*     is controlled by a "DV" (DMA-descriptor vector).
*
*     Updates to the handler linked list need to be synchronized
*     both with thread packet processing (mutex) and interrupt
*     packet processing (spl).
*
*     If no real callouts are registered (other than internal discard)
*     don't bother starting DVs, nor queuing input pkts into cos queues.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dump.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* socdiag dump command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/dump.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Initialization RC (run commands) file
#
# These are default commands that are read and executed by default
# when BCM boots up.  Typically this file is called rc.soc and resides
# in the flash filesystem, NVRAM, or disk.
#

if $?1 "echo bcm.soc: arguments not supported; exit"

# On 48-port, set PCI retries to infinite to get around PCI bridge
# fairness bug in IDTRC3233x.
if $?p48 "s pcic 0x40 0x0080"

# Be sure linkscan is off before doing init.
linkscan off

# Set convenience local variables

if $?quickturn || $?plisim \
 "local simulator 1"

# Set software's wait for S-Channel response to 3 seconds for QuickTurn
# (Recommend at least 10 seconds if the ARL is 100% busy with inserts.)
if $?quickturn "stimeout 3000000"

# Reset chip, initialize for most basic operation
init soc

# Initialize miscellaneous chip registers
init misc

# Program the SDRAM timing and MMU switch configuration registers
init mmu

# Determine and configure the GBP size
```

```
if !$?gsl && !$?drac "sizegbp size=auto quiet=yes"

# Initialize the Slot Free Address Pool in the GBP
if !$?gsl && !$?drac && !$?herc "sfapinit"

# Turn on mirroring of hardware ARL operations into software ARL table.
if !$?drac && !$?herc && !$?simulator "arlmode intr_dma"
if $?drac && !$?simulator "l2mode interval=3000000"

# Enable caching of some tables.  Caching uses memory, but reduces or
# eliminates table reads.  When a cache is enabled on a table, the whole
# table is read in.  Note: L3 usually can't be cached because the
# hardware can update the hit bits.
if !$?gsl && !$?drac && !$?herc "cache imask irule"
if                    !$?herc "cache gimask girule"
if          !$?drac && !$?herc "cache marl ptable vtable"
if          !$?drac && !$?herc "cache l3intf def_ip"
if           $?drac            "cache port vlan trunk_bitmap trunk_group"
if                     $?herc "cache uc mc vid"
echo "Table caches enabled"

# Initialize the BCM driver layer
init bcm
echo "BCM Driver Enabled"

# Configure ports and turn enable automatic link scanning
linkscan 250000
port * linkscan=on autoneg=on \
 speed=0 fullduplex=true txpause=true rxpause=true

stg stp 1 all forward

# Clear counters and enable counter collection
clear counters
if  $?quickturn "local cint 1000"
if !$?quickturn "local cint 1000000"
if  $?plisim    "local cdma false"
if !$?plisim    "local cdma true"
counter Interval=$cint Pbm=all DMA=$cdma

# Set default mode for packet watcher
pw report +raw

# Default LED processor program for 5605 SDK

if !$?p48 "local ledcode '\
E0 28 60 7F 67 2F 67 6B 06 7F 80 D2 1A 74 01 12 \
7E 85 05 D2 0F 71 19 52 00 12 7D 85 05 D2 1F 71 \
```

```
23 52 00 12 7C 85 05 D2 05 71 2D 52 00 3A 68 32 \
00 97 75 3B 12 A0 FE 7F 02 0A 50 32 01 97 75 47 \
12 BA FE 7F 02 0A 50 12 BA FE 7F 95 75 59 85 12 \
A0 FE 7F 95 75 A8 85 77 9A 12 A0 FE 7F 95 75 63 \
85 77 A1 16 7C DA 02 71 A1 77 A8 32 05 97 71 76 \
06 7D D2 01 71 9A 06 7F 67 93 75 9A 32 02 97 71 \
9A 32 03 97 71 A8 32 04 97 75 A1 06 7E D2 07 71 \
A1 77 A8 12 80 F8 15 1A 00 57 32 0E 87 32 0E 87 \
57 32 0E 87 32 0F 87 57 32 0F 87 32 0E 87 57'''

# Default LED processor program for 48-port SDK

if $?p48 "local ledcode '\
E0 28 60 7F 67 43 67 3C 67 35 67 2F 06 7F 80 D2 \
18 74 01 28 60 7F 67 9B 67 89 67 BF 67 83 67 3C \
67 73 67 68 67 5D 06 7F 80 D2 1A 74 13 3A 70 67 \
AD 71 C3 77 BF 32 03 97 71 C3 77 BF 32 05 97 71 \
C3 77 BF 12 BA FE 7F 32 01 97 75 4F 02 06 50 32 \
00 97 75 57 02 06 50 95 75 C3 85 77 BF 67 AD 75 \
BF 32 04 97 71 C3 77 BF 67 AD 75 BF 32 03 97 71 \
C3 77 BF 67 AD 75 BF 32 03 97 71 BF 32 04 97 71 \
BF 77 C3 67 B6 71 C3 77 BF 12 A0 FE 7F 32 00 97 \
75 95 02 06 50 95 75 C3 85 77 BF 12 BA FE 7F 32 \
01 97 75 A7 02 06 50 95 75 C3 85 77 BF 06 7F 12 \
80 F8 15 1A 00 57 06 7F 12 80 F8 15 1A 07 57 32 \
0F 87 57 32 0E 87 57'''

# Download LED code into LED process and enable (if applicable)

if $?BCM5605_A0 || $?ul \
 "led prog $ledcode; \
  led auto on; \
  led start"

echo "Initialization complete."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_signals_cint_data.c,v 1.19 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hand-coded support for dpp_dsig_read routine and probable other
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dpp_signals_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm83207_a0.c
* Purpose:     bcm83207_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm83207_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: ppe_h.stg,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_pp_rule_encode.h: Guadalupe3k V1.0 PPE rule encoding functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
* File generated from ppe_config.cfg
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_ppe_rule_encode.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmPortsetInfoEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmPortsetInfoEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_stat_if.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_stat_if.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: eyescan.c,v 1.46 Broadcom SDK $
* $Id:
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC EYESCAN
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/eyescan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_diag.c,v 1.93 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_diag.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_diag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_cos.h,v 1.6 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_cos.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bhh.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bhh.h
* Purpose: Defines common BHH parameters.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bhh.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_sw_db.c,v 1.118 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_sw_db.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_ipv6.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ipv6.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: c3hppc_test.c,v 1.133 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       c3hppc_test.c
* Purpose:     Run a Caladan3 HPP Cluster test
*
*
* Notes:
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3hppc_test.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56340sanity.soc,v 1.11 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Spiral BCM56049 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*


# This sanity script supports BCM56049:
#       1. RGR_XFI_150: 1xF.QSGMII + 3xFlex[4x10] + 1GE


# config.bcm #
# ------------------------------------ #
# phy_port_primary_and_offset_ge4=0x0104
# phy_port_primary_and_offset_ge3=0x0103
# phy_port_primary_and_offset_ge2=0x0102
# phy_port_primary_and_offset_ge1=0x0101
# phy_port_primary_and_offset_ge0=0x0100
# phy_sgmii_autoneg_ge=1
# portgroup_2=1
# portgroup_1=1
```

```
# pbmp_xport_xe=0x1e00
# ------------------------------------ #


# Enabling all ports; bcm56049 SKU
if $?BCM56049_A0 \
   'local pbmge  0x3e;   local pbmge25 0x0; local pbmmgmt 0x20; local pbmhg 0x1e000; \
   local pbmport 0x1ffe1e; local pbmxe   0x1e000; local pbmhg21 0x20000 echo **56049** '


# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: Spiral (BCM56049) sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

if !$?ihost_mode \
   'echo "Running PCI S-Channel Buf ...";\
    tr 4;\
    $done;'
```

```
init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
memscsan off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

spiral_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
memscsan off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
#echo "Running hash mem test ..."
#tr 55
$done

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done
```

```
#echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

ps

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 2.5 Gb/s GE 2.5 ports"
tr 18 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 21 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=11G
tr 18 PortBitMap=$pbmhg21 Speed=21G
$done

echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 2.5 Gb/s GE 2.5 ports"
tr 19 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 21 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg Speed=11G
tr 19 PortBitMap=$pbmhg21 Speed=21G
```

```
$done

# tr 48 does not work with mix of port types
echo "Running MAC loopback V2 on GE ports..."
tr 48 pbm=$pbmge speed=1000
$done

echo "Running MAC loopback V2 on XE ports ..."
tr 48 pbm=$pbmxe speed=10G
$done

echo "Running MAC loopback V2 on HG ports ..."
tr 48 pbm=$pbmhg speed=21G
$done

# tr 49 does not work with mix of port types
echo "Running PHY loopback V2 on GE ports ..."
tr 49 pbm=$pbmge speed=1000
$done

echo "Running PHY loopback V2 on XE ports ..."
tr 49 pbm=$pbmxe speed=10G
$done

echo "Running PHY loopback V2 on HG ports ..."
tr 49 pbm=$pbmhg speed=11G
tr 49 pbm=$pbmhg21 speed=21G
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
```

```
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

#Traffic Test
echo "Running Traffic Test on GE 2.5 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge25 c=10 sp=2500
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=11G
tr 72 RunMode=MAC PortBitMap=$pbmhg21 c=10 sp=21G
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=11G
tr 72 RunMode=PHY PortBitMap=$pbmhg21 c=10 sp=21G
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/rc/bcm56049sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_cos.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_cos.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon_furia_dependencies.c                    *
* Created On    :  05/29/2014                                     *
* Created By    :  Sharad Sharma                                  *
* Description   :  Version of Dependency APIs used in Eval        *
* Revision      :  $Id: $                                         *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$     *
* No portions of this material may be reproduced in any form without    *
* the written permission of:                                      *
*     Broadcom Corporation                                        *
*     5300 California Avenue                                      *
*     Irvine, CA  92617                                           *
*                                                                 *
* All information contained in this document is Broadcom Corporation    *
* company private proprietary, and trade secret.                  *
*                                                                 *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_mem.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dcmn/dcmn_mem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qux_defs.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QUX DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QUX/qux_defs.h
No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo "there are 971 more memories to test.";echo "tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 970 more memories to test.";echo "tr 52 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1";tr 52 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 969 more memories to test.";echo "tr 52 M=PORT_COS_MAP IS=min IE=4 ITERations=1";tr 52 M=PORT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 968 more memories to test.";echo "tr 52 M=COS_MAP_SEL IS=min IE=4 ITERations=1";tr 52 M=COS_MAP_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 967 more memories to test.";echo "tr 52 M=CPU_COS_MAP IS=min IE=4 ITERations=1";tr 52 M=CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 966 more memories to test.";echo "tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1";tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 965 more memories to test.";echo "tr 52 M=CPU_COS_MAP_ONLY IS=min IE=4 ITERations=1";tr 52 M=CPU_COS_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 964 more memories to test.";echo "tr 52 M=CPU_PBM IS=min IE=0 ITERations=1";tr 52 M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 963 more memories to test.";echo "tr 52 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 52 M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 962 more memories to test.";echo "tr 52 M=CPU_TS_MAP IS=min IE=4 ITERations=1";tr 52 M=CPU_TS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 961 more memories to test.";echo "tr 52 M=DEST_TRUNK_BITMAP IS=min IE=4 ITERations=1";tr 52 M=DEST_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 960 more memories to test.";echo "tr 52 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1";tr 52 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 959 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET IS=min IE=4 ITERations=1";tr 52 M=DLB_HGT_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 958 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
```

```
IE=4 ITERations=1";tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 957 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X
IS=min IE=4 ITERations=1";tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X IS=min IE=4
ITERations=1;echo "done";
echo "there are 956 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y
IS=min IE=4 ITERations=1";tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y IS=min IE=4
ITERations=1;echo "done";
echo "there are 955 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_X IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_FLOWSET_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 954 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_Y IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_FLOWSET_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 953 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_CONTROL IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_GROUP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 952 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 951 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_STATS IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_GROUP_STATS IS=min IE=4 ITERations=1;echo "done";
echo "there are 950 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_STATS_X IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_GROUP_STATS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 949 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_STATS_Y IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_GROUP_STATS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 948 more memories to test.";echo "tr 52 M=DLB_HGT_HIST_LOAD IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_HIST_LOAD IS=min IE=4 ITERations=1;echo "done";
echo "there are 947 more memories to test.";echo "tr 52 M=DLB_HGT_INST_LOAD IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_INST_LOAD IS=min IE=4 ITERations=1;echo "done";
echo "there are 946 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 945 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_STATUS IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_MEMBER_STATUS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 944 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0
ITERations=1";tr 52 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0 ITERations=1;echo "done";
echo "there are 943 more memories to test.";echo "tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 942 more memories to test.";echo "tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 941 more memories to test.";echo "tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 940 more memories to test.";echo "tr 52 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=4 ITERations=1";tr 52 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=4 ITERations=1;echo
"done";
echo "there are 939 more memories to test.";echo "tr 52 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 938 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_CONTROL IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_QUALITY_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 937 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_MAPPING IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_QUALITY_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 936 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_RESULT IS=min IE=4
```

```
ITERations=1";tr 52 M=DLB_HGT_QUALITY_RESULT IS=min IE=4 ITERations=1;echo "done";
echo "there are 935 more memories to test.";echo "tr 52 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=4
ITERations=1";tr 52 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=4 ITERations=1;echo "done";
echo "there are 934 more memories to test.";echo "tr 52 M=DSCP_TABLE IS=min IE=4 ITERations=1";tr 52
M=DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 933 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS IS=min IE=4 ITERations=1";tr 52
M=E2E_HOL_STATUS IS=min IE=4 ITERations=1;echo "done";
echo "there are 932 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1";tr
52 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 931 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE IS=min IE=4
ITERations=1";tr 52 M=EFP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 930 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_X IS=min IE=4
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 929 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE_Y IS=min IE=4
ITERations=1";tr 52 M=EFP_COUNTER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 928 more memories to test.";echo "tr 52 M=EFP_METER_TABLE IS=min IE=4 ITERations=1";tr
52 M=EFP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 927 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_X IS=min IE=4
ITERations=1";tr 52 M=EFP_METER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 926 more memories to test.";echo "tr 52 M=EFP_METER_TABLE_Y IS=min IE=4
ITERations=1";tr 52 M=EFP_METER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 925 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 924 more memories to test.";echo "tr 52 M=EFP_TCAM IS=min IE=4 ITERations=1";tr 52
M=EFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 923 more memories to test.";echo "tr 52 M=EGR_1588_SA IS=min IE=4 ITERations=1";tr 52
M=EGR_1588_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 922 more memories to test.";echo "tr 52 M=EGR_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 921 more memories to test.";echo "tr 52 M=EGR_DGPP_TO_NHI IS=min IE=4 ITERations=1";tr
52 M=EGR_DGPP_TO_NHI IS=min IE=4 ITERations=1;echo "done";
echo "there are 920 more memories to test.";echo "tr 52 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=4
ITERations=1";tr 52 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 919 more memories to test.";echo "tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 918 more memories to test.";echo "tr 52 M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1";tr 52
M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 917 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=4
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 915 more memories to test.";echo "tr 52 M=EGR_EDB_XMIT_CTRL IS=min IE=4
ITERations=1";tr 52 M=EGR_EDB_XMIT_CTRL IS=min IE=4 ITERations=1;echo "done";
echo "there are 914 more memories to test.";echo "tr 52 M=EGR_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 52 M=EGR_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 52 M=EGR_ENABLE IS=min IE=4 ITERations=1";tr 52
M=EGR_ENABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=4
```

```
ITERations=1";tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=4 ITERations=1;echo "done";
#echo "there are 911 more memories to test.";echo "tr 52 M=EGR_FCOE_CONTROL_1 IS=min IE=0
ITERations=1";tr 52 M=EGR_FCOE_CONTROL_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 910 more memories to test.";echo "tr 52 M=EGR_FC_HEADER_TYPE IS=min IE=4
ITERations=1";tr 52 M=EGR_FC_HEADER_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 909 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 908 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 907 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 906 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 905 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 904 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 903 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 901 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 900 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 898 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min
IE=4 ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 897 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 893 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 892 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4
```

```
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 891 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 888 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=4
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 886 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=4
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=4
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=4 ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 883 more memories to test.";echo "tr 52 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1";tr
52 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 882 more memories to test.";echo "tr 52 M=EGR_ING_PORT IS=min IE=4 ITERations=1";tr 52
M=EGR_ING_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 881 more memories to test.";echo "tr 52 M=EGR_IPMC IS=min IE=4 ITERations=1";tr 52
M=EGR_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 880 more memories to test.";echo "tr 52 M=EGR_IPMC_CFG2 IS=min IE=4 ITERations=1";tr 52
M=EGR_IPMC_CFG2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 879 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1";tr 52
M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 878 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4
ITERations=1";tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 877 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=4
ITERations=1";tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 876 more memories to test.";echo "tr 52 M=EGR_L3_INTF IS=min IE=4 ITERations=1";tr 52
M=EGR_L3_INTF IS=min IE=4 ITERations=1;echo "done";
echo "there are 875 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
52 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 874 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_L3_NEXT_HOP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 873 more memories to test.";echo "tr 52 M=EGR_LPORT_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_LPORT_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 872 more memories to test.";echo "tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 871 more memories to test.";echo "tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 870 more memories to test.";echo "tr 52 M=EGR_MAP_MH IS=min IE=4 ITERations=1";tr 52
M=EGR_MAP_MH IS=min IE=4 ITERations=1;echo "done";
echo "there are 869 more memories to test.";echo "tr 52 M=EGR_MASK IS=min IE=4 ITERations=1";tr 52
M=EGR_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 868 more memories to test.";echo "tr 52 M=EGR_MASK_MODBASE IS=min IE=4
```

```
ITERations=1";tr 52 M=EGR_MASK_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 867 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 866 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 865 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 864 more memories to test.";echo "tr 52 M=EGR_MMU_CREDIT_LIMIT IS=min IE=4
ITERations=1";tr 52 M=EGR_MMU_CREDIT_LIMIT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 52 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=4
ITERations=1";tr 52 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 862 more memories to test.";echo "tr 52 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=4
ITERations=1";tr 52 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 861 more memories to test.";echo "tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 860 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 859 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 858 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 857 more memories to test.";echo "tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 856 more memories to test.";echo "tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=4 ITERations=1";tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 855 more memories to test.";echo "tr 52 M=EGR_MTU IS=min IE=4 ITERations=1";tr 52
M=EGR_MTU IS=min IE=4 ITERations=1;echo "done";
echo "there are 854 more memories to test.";echo "tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=4
ITERations=1";tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=4 ITERations=1;echo "done";
#echo "there are 853 more memories to test.";echo "tr 52 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1";tr
52 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1;echo "done";
echo "there are 852 more memories to test.";echo "tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=4
ITERations=1";tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 851 more memories to test.";echo "tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4
ITERations=1";tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 850 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=4
ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 849 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=4
ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 848 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=4
ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 847 more memories to test.";echo "tr 52 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=4 ITERations=1";tr 52 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=4 ITERations=1;echo
"done";
echo "there are 846 more memories to test.";echo "tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=4 ITERations=1";tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=4 ITERations=1;echo "done";
echo "there are 845 more memories to test.";echo "tr 52 M=EGR_PFC_CONTROL IS=min IE=4 ITERations=1";tr
```

```
52 M=EGR_PFC_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 844 more memories to test.";echo "tr 52 M=EGR_PORT IS=min IE=4 ITERations=1";tr 52
M=EGR_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 843 more memories to test.";echo "tr 52 M=EGR_PORT_1 IS=min IE=4 ITERations=1";tr 52
M=EGR_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 842 more memories to test.";echo "tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=4
ITERations=1";tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=4 ITERations=1;echo "done";
echo "there are 841 more memories to test.";echo "tr 52 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
52 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 840 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=4
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 839 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_X IS=min IE=4
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 838 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=4
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 837 more memories to test.";echo "tr 52 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0
ITERations=1";tr 52 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 836 more memories to test.";echo "tr 52 M=EGR_SER_FIFO IS=min IE=4 ITERations=1";tr 52
M=EGR_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 835 more memories to test.";echo "tr 52 M=EGR_SHAPING_CONTROL IS=min IE=4
ITERations=1";tr 52 M=EGR_SHAPING_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 834 more memories to test.";echo "tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 833 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 832 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0
ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=3
ITERations=1";tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=3 ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 52 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 828 more memories to test.";echo "tr 52 M=EGR_VFI IS=min IE=4 ITERations=1";tr 52
M=EGR_VFI IS=min IE=4 ITERations=1;echo "done";
echo "there are 827 more memories to test.";echo "tr 52 M=EGR_VFT_FIELDS_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_VFT_FIELDS_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 52 M=EGR_VFT_PRI_MAP IS=min IE=4 ITERations=1";tr
52 M=EGR_VFT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 52 M=EGR_VLAN IS=min IE=4 ITERations=1";tr 52
M=EGR_VLAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_1 IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 823 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_2 IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 822 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_3 IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 52 M=EGR_VLAN_STG IS=min IE=4 ITERations=1";tr 52
```

```
M=EGR_VLAN_STG IS=min IE=4 ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 52 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1";tr
52 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=4
ITERations=1";tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 52 M=EGR_VPLAG_GROUP IS=min IE=4 ITERations=1";tr
52 M=EGR_VPLAG_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 814 more memories to test.";echo "tr 52 M=EGR_VPLAG_MEMBER IS=min IE=4
ITERations=1";tr 52 M=EGR_VPLAG_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 813 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=4
ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=3 ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=3 ITERations=1;echo
"done";
echo "there are 811 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=3 ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=3 ITERations=1;echo
"done";
echo "there are 810 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=4 ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 809 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=4 ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 808 more memories to test.";echo "tr 52 M=EGR_VSAN_INTPRI_MAP IS=min IE=4
ITERations=1";tr 52 M=EGR_VSAN_INTPRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 807 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1";tr
52 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 806 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL1 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 805 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL2 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 804 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL3 IS=min IE=4
ITERations=1";tr 52 M=EMIRROR_CONTROL3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 803 more memories to test.";echo "tr 52 M=EM_MTP_INDEX IS=min IE=3 ITERations=1";tr 52
M=EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 802 more memories to test.";echo "tr 52 M=ENDPOINT_COS_MAP IS=min IE=4
ITERations=1";tr 52 M=ENDPOINT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 801 more memories to test.";echo "tr 52 M=ENDPOINT_QUEUE_MAP IS=min IE=4
ITERations=1";tr 52 M=ENDPOINT_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 800 more memories to test.";echo "tr 52 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 52
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 799 more memories to test.";echo "tr 52 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=0
```

```
ITERations=1";tr 52 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=0 ITERations=1;echo "done";
echo "there are 798 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 797 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 796 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_ERROR IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 790 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_PARENT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 787 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L0_XOFF IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L0_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 785 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 784 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 783 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 782 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_ERROR IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 781 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 780 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 779 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 778 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 777 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_PARENT IS=min IE=4
```

ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 775 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 774 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 773 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L1_XOFF IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 772 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 771 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo "done";
echo "there are 770 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=4 ITERations=1;echo "done";
echo "there are 769 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_ERROR IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 768 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 767 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_PARENT IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 766 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 765 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_L2_XOFF IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 764 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 763 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 762 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 761 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 760 more memories to test.";echo "tr 52 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 759 more memories to test.";echo "tr 52 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 758 more memories to test.";echo "tr 52 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 757 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo "done";
echo "there are 755 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=4

```
ITERations=1;echo "done";
echo "there are 754 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_ERROR IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 753 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 752 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 751 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 750 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 749 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_PARENT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 748 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 747 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 745 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L0_XOFF IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L0_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 744 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 743 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 742 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_ERROR IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 740 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 739 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 738 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 737 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 736 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_PARENT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 735 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 734 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 733 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L1_XOFF IS=min IE=4
```

```
ITERations=1";tr 52 M=ES_PIPE1_LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 729 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_ERROR IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 726 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_PARENT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 724 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_L2_XOFF IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 723 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 722 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 52 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min
IE=4 ITERations=1";tr 52 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 52 M=ES_PIPE1_TDM_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_TDM_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 52 M=ES_PIPE1_TDM_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=ES_PIPE1_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 716 more memories to test.";echo "tr 52 M=FCOE_HOP_COUNT_FN IS=min IE=4
ITERations=1";tr 52 M=FCOE_HOP_COUNT_FN IS=min IE=4 ITERations=1;echo "done";
echo "there are 715 more memories to test.";echo "tr 52 M=FC_MAP_PROFILE IS=min IE=4 ITERations=1";tr 52
M=FC_MAP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 52 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1";tr
52 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 52 M=FP_COUNTER_TABLE_X IS=min IE=4
ITERations=1";tr 52 M=FP_COUNTER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 712 more memories to test.";echo "tr 52 M=FP_COUNTER_TABLE_Y IS=min IE=4
ITERations=1";tr 52 M=FP_COUNTER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 711 more memories to test.";echo "tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=4
ITERations=1";tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 52 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=4
ITERations=1";tr 52 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 52 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=4
```

```
ITERations=1";tr 52 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 52 M=FP_GM_FIELDS IS=min IE=4 ITERations=1";tr 52
M=FP_GM_FIELDS IS=min IE=4 ITERations=1;echo "done";
echo "there are 707 more memories to test.";echo "tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 706 more memories to test.";echo "tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 705 more memories to test.";echo "tr 52 M=FP_METER_CONTROL IS=min IE=4
ITERations=1";tr 52 M=FP_METER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 52 M=FP_METER_TABLE IS=min IE=4 ITERations=1";tr 52
M=FP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 703 more memories to test.";echo "tr 52 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 702 more memories to test.";echo "tr 52 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1";tr
52 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 701 more memories to test.";echo "tr 52 M=FP_PORT_METER_MAP IS=min IE=4
ITERations=1";tr 52 M=FP_PORT_METER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 700 more memories to test.";echo "tr 52 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1";tr
52 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 699 more memories to test.";echo "tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 698 more memories to test.";echo "tr 52 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 52
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 697 more memories to test.";echo "tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=4
ITERations=1";tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 696 more memories to test.";echo "tr 52 M=FP_STORM_CONTROL_METERS_X IS=min IE=4
ITERations=1";tr 52 M=FP_STORM_CONTROL_METERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 695 more memories to test.";echo "tr 52 M=FP_STORM_CONTROL_METERS_Y IS=min IE=4
ITERations=1";tr 52 M=FP_STORM_CONTROL_METERS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 694 more memories to test.";echo "tr 52 M=FP_TCAM IS=min IE=4 ITERations=1";tr 52
M=FP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 693 more memories to test.";echo "tr 52 M=GTP_PORT_TABLE IS=min IE=3 ITERations=1";tr 52
M=GTP_PORT_TABLE IS=min IE=3 ITERations=1;echo "done";
echo "there are 692 more memories to test.";echo "tr 52 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1";tr
52 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 691 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 690 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=4
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 52 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1";tr
52 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 688 more memories to test.";echo "tr 52 M=HG_TRUNK_MEMBER IS=min IE=4
ITERations=1";tr 52 M=HG_TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
#echo "there are 687 more memories to test.";echo "tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 686 more memories to test.";echo "tr 52 M=IARB_ING_PORT_TABLE IS=min IE=4
ITERations=1";tr 52 M=IARB_ING_PORT_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 685 more memories to test.";echo "tr 52 M=IARB_MAIN_TDM IS=min IE=4 ITERations=1";tr 52
```

```
M=IARB_MAIN_TDM IS=min IE=4 ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 52 M=IARB_MAIN_TDM_X IS=min IE=4 ITERations=1";tr
52 M=IARB_MAIN_TDM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 683 more memories to test.";echo "tr 52 M=IARB_MAIN_TDM_Y IS=min IE=4 ITERations=1";tr
52 M=IARB_MAIN_TDM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 682 more memories to test.";echo "tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=4
ITERations=1";tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 681 more memories to test.";echo "tr 52 M=IFP_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=IFP_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 680 more memories to test.";echo "tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 679 more memories to test.";echo "tr 52 M=IMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 52
M=IMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 678 more memories to test.";echo "tr 52 M=IM_MTP_INDEX IS=min IE=3 ITERations=1";tr 52
M=IM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 677 more memories to test.";echo "tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=4
ITERations=1";tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=4 ITERations=1;echo "done";
echo "there are 676 more memories to test.";echo "tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=4
ITERations=1";tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 675 more memories to test.";echo "tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=0
ITERations=1";tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=4
ITERations=1";tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 673 more memories to test.";echo "tr 52 M=ING_DVP_2_TABLE IS=min IE=4 ITERations=1";tr
52 M=ING_DVP_2_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 672 more memories to test.";echo "tr 52 M=ING_DVP_TABLE IS=min IE=4 ITERations=1";tr 52
M=ING_DVP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 671 more memories to test.";echo "tr 52 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1";tr
52 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 670 more memories to test.";echo "tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 669 more memories to test.";echo "tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=4
ITERations=1";tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 668 more memories to test.";echo "tr 52 M=ING_FC_HEADER_TYPE IS=min IE=4
ITERations=1";tr 52 M=ING_FC_HEADER_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 667 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 666 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 665 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 664 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 663 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=4 ITERations=1;echo
"done";
```

```
echo "there are 662 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 661 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 660 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 659 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 658 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 657 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 656 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 655 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 654 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 653 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 652 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 651 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 650 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 649 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 648 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 647 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 646 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 645 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min IE=4 ITERations=1;echo
"done";
```

```
echo "there are 644 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min
IE=4 ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 643 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 642 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 641 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 640 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 639 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 638 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 637 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 636 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 631 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=4 ITERations=1";tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 629 more memories to test.";echo "tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=0 ITERations=1";tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=0 ITERations=1;echo "done";
echo "there are 628 more memories to test.";echo "tr 52 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
52 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 627 more memories to test.";echo "tr 52 M=ING_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=ING_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=4
ITERations=1";tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=4 ITERations=1";tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 624 more memories to test.";echo "tr 52
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=4 ITERations=1";tr 52
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 623 more memories to test.";echo "tr 52 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
```

```
52 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=4
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=4 ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=4
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=4
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 52 M=ING_SER_FIFO IS=min IE=4 ITERations=1";tr 52
M=ING_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 52 M=ING_SER_FIFO_X IS=min IE=4 ITERations=1";tr 52
M=ING_SER_FIFO_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 616 more memories to test.";echo "tr 52 M=ING_SER_FIFO_Y IS=min IE=4 ITERations=1";tr 52
M=ING_SER_FIFO_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 615 more memories to test.";echo "tr 52 M=ING_SNAT IS=min IE=4 ITERations=1";tr 52
M=ING_SNAT IS=min IE=4 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 613 more memories to test.";echo "tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 612 more memories to test.";echo "tr 52 M=ING_SNAT_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 52 M=ING_SNAT_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 611 more memories to test.";echo "tr 52 M=ING_SNAT_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 52 M=ING_SNAT_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 610 more memories to test.";echo "tr 52 M=ING_SNAT_ONLY IS=min IE=4 ITERations=1";tr 52
M=ING_SNAT_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 608 more memories to test.";echo "tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=0 ITERations=1";tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=0
ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 52 M=ING_UNTAGGED_PHB IS=min IE=4
ITERations=1";tr 52 M=ING_UNTAGGED_PHB IS=min IE=4 ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 52 M=ING_VFT_PRI_MAP IS=min IE=4 ITERations=1";tr
52 M=ING_VFT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 605 more memories to test.";echo "tr 52 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1";tr
52 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1;echo "done";
echo "there are 604 more memories to test.";echo "tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 603 more memories to test.";echo "tr 52 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=4
ITERations=1";tr 52 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 602 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=4
ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=3 ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=3 ITERations=1;echo
"done";
echo "there are 600 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
```

```
IE=3 ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=3 ITERations=1;echo
"done";
echo "there are 599 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=4 ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 598 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=4 ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 597 more memories to test.";echo "tr 52 M=ING_VSAN IS=min IE=4 ITERations=1";tr 52
M=ING_VSAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4
ITERations=1";tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1";tr 52
M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=4
ITERations=1";tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=3 ITERations=1";tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 590 more memories to test.";echo "tr 52 M=IP_MULTICAST_TCAM IS=min IE=4
ITERations=1";tr 52 M=IP_MULTICAST_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=4 ITERations=1";tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 588 more memories to test.";echo "tr 52 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=0
ITERations=1";tr 52 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=0 ITERations=1;echo "done";
echo "there are 587 more memories to test.";echo "tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 586 more memories to test.";echo "tr 52 M=L2MC IS=min IE=4 ITERations=1";tr 52 M=L2MC
IS=min IE=4 ITERations=1;echo "done";
#echo "there are 585 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 584 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
#echo "there are 583 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 582 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 52 M=L2_ENDPOINT_ID IS=min IE=4 ITERations=1";tr 52
M=L2_ENDPOINT_ID IS=min IE=4 ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 52 M=L2X IS=min IE=4 ITERations=1";tr 52 M=L2X IS=min
IE=4 ITERations=1;echo "done";
echo "there are 579 more memories to test.";echo "tr 52 M=L2_ENTRY_LP IS=min IE=4 ITERations=1";tr 52
M=L2_ENTRY_LP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 578 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 577 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=4
ITERations=1";tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 576 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_HITDA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY_X IS=min IE=4 ITERations=1";tr
52 M=L2_HITDA_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 574 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY_Y IS=min IE=4 ITERations=1";tr
52 M=L2_HITDA_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 573 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY IS=min IE=4 ITERations=1";tr 52
M=L2_HITSA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 572 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY_X IS=min IE=4 ITERations=1";tr
52 M=L2_HITSA_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 571 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY_Y IS=min IE=4 ITERations=1";tr
52 M=L2_HITSA_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 570 more memories to test.";echo "tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=0
ITERations=1";tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=0 ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 52 M=L2_MOD_FIFO IS=min IE=4 ITERations=1";tr 52
M=L2_MOD_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 52 M=L2_USER_ENTRY IS=min IE=4 ITERations=1";tr 52
M=L2_USER_ENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 565 more memories to test.";echo "tr 52 M=L3_DEFIP IS=min IE=4 ITERations=1";tr 52
M=L3_DEFIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_ECC IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_ECC IS=min IE=4 ITERations=1;echo "done";
#echo "there are 563 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 562 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 561 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 560 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 559 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 558 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 557 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 556 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 555 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_RAW IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_ALPM_RAW IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 554 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 553 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0
ITERations=1";tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0 ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 550 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1";tr
52 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 547 more memories to test.";echo "tr 52 M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1";tr 52
M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1";tr
52 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 540 more memories to test.";echo "tr 52 M=L3_ECMP IS=min IE=4 ITERations=1";tr 52
M=L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 52 M=L3_ECMP_COUNT IS=min IE=4 ITERations=1";tr 52
M=L3_ECMP_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 537 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 536 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 52 M=L3_ENTRY_LP IS=min IE=4 ITERations=1";tr 52
M=L3_ENTRY_LP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 530 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 52
M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=4
ITERations=1";tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 52 M=L3_IIF IS=min IE=4 ITERations=1";tr 52 M=L3_IIF
IS=min IE=4 ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 52 M=L3_IIF_PROFILE IS=min IE=4 ITERations=1";tr 52
M=L3_IIF_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 52 M=L3_IPMC IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 52 M=L3_IPMC_1 IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 52 M=L3_IPMC_REMAP IS=min IE=4 ITERations=1";tr 52
M=L3_IPMC_REMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 52 M=L3_MTU_VALUES IS=min IE=4 ITERations=1";tr 52
M=L3_MTU_VALUES IS=min IE=4 ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 52 M=L3_TUNNEL IS=min IE=4 ITERations=1";tr 52
M=L3_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 520 more memories to test.";echo "tr 52 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1";tr
52 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=4 ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 518 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=4 ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 517 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=4 ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=4
ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 52 M=LPORT_TAB IS=min IE=4 ITERations=1";tr 52
M=LPORT_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 515 more memories to test.";echo "tr 52 M=MAC_BLOCK IS=min IE=4 ITERations=1";tr 52
M=MAC_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 52 M=MIRROR_CONTROL IS=min IE=4 ITERations=1";tr
52 M=MIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 52 M=MMU_AGING_CTR IS=min IE=4 ITERations=1";tr 52
M=MMU_AGING_CTR IS=min IE=4 ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 52 M=MMU_AGING_EXP IS=min IE=4 ITERations=1";tr 52
M=MMU_AGING_EXP IS=min IE=4 ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 52 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 52 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 509 more memories to test.";echo "tr 52 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 52 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 508 more memories to test.";echo "tr 52 M=MMU_CBPData0 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 52 M=MMU_CBPData1 IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_CBPData1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 52 M=MMU_CBPData10 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 52 M=MMU_CBPData11 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 52 M=MMU_CBPData12 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData12 IS=min IE=4 ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 52 M=MMU_CBPData13 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData13 IS=min IE=4 ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 52 M=MMU_CBPData14 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData14 IS=min IE=4 ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 52 M=MMU_CBPData15 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData15 IS=min IE=4 ITERations=1;echo "done";
echo "there are 500 more memories to test.";echo "tr 52 M=MMU_CBPData16 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData16 IS=min IE=4 ITERations=1;echo "done";
echo "there are 499 more memories to test.";echo "tr 52 M=MMU_CBPData17 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData17 IS=min IE=4 ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 52 M=MMU_CBPData18 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData18 IS=min IE=4 ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 52 M=MMU_CBPData19 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData19 IS=min IE=4 ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 52 M=MMU_CBPData2 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 52 M=MMU_CBPData20 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData20 IS=min IE=4 ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 52 M=MMU_CBPData21 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData21 IS=min IE=4 ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 52 M=MMU_CBPData22 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData22 IS=min IE=4 ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 52 M=MMU_CBPData23 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData23 IS=min IE=4 ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 52 M=MMU_CBPData24 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData24 IS=min IE=4 ITERations=1;echo "done";
echo "there are 490 more memories to test.";echo "tr 52 M=MMU_CBPData25 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData25 IS=min IE=4 ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 52 M=MMU_CBPData26 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData26 IS=min IE=4 ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 52 M=MMU_CBPData27 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData27 IS=min IE=4 ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 52 M=MMU_CBPData28 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData28 IS=min IE=4 ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 52 M=MMU_CBPData29 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData29 IS=min IE=4 ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 52 M=MMU_CBPData3 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 52 M=MMU_CBPData30 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData30 IS=min IE=4 ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 52 M=MMU_CBPData31 IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_CBPData31 IS=min IE=4 ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 52 M=MMU_CBPData32 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData32 IS=min IE=4 ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 52 M=MMU_CBPData33 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData33 IS=min IE=4 ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 52 M=MMU_CBPData34 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData34 IS=min IE=4 ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 52 M=MMU_CBPData35 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData35 IS=min IE=4 ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 52 M=MMU_CBPData36 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData36 IS=min IE=4 ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 52 M=MMU_CBPData37 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData37 IS=min IE=4 ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 52 M=MMU_CBPData38 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData38 IS=min IE=4 ITERations=1;echo "done";
echo "there are 475 more memories to test.";echo "tr 52 M=MMU_CBPData39 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData39 IS=min IE=4 ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 52 M=MMU_CBPData4 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 473 more memories to test.";echo "tr 52 M=MMU_CBPData40 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData40 IS=min IE=4 ITERations=1;echo "done";
echo "there are 472 more memories to test.";echo "tr 52 M=MMU_CBPData41 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData41 IS=min IE=4 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 52 M=MMU_CBPData42 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData42 IS=min IE=4 ITERations=1;echo "done";
echo "there are 470 more memories to test.";echo "tr 52 M=MMU_CBPData43 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData43 IS=min IE=4 ITERations=1;echo "done";
echo "there are 469 more memories to test.";echo "tr 52 M=MMU_CBPData44 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData44 IS=min IE=4 ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 52 M=MMU_CBPData45 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData45 IS=min IE=4 ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 52 M=MMU_CBPData46 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData46 IS=min IE=4 ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 52 M=MMU_CBPData47 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData47 IS=min IE=4 ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 52 M=MMU_CBPData48 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData48 IS=min IE=4 ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 52 M=MMU_CBPData49 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData49 IS=min IE=4 ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 52 M=MMU_CBPData5 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 52 M=MMU_CBPData50 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData50 IS=min IE=4 ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 52 M=MMU_CBPData51 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData51 IS=min IE=4 ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 52 M=MMU_CBPData52 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData52 IS=min IE=4 ITERations=1;echo "done";
echo "there are 459 more memories to test.";echo "tr 52 M=MMU_CBPData53 IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_CBPData53 IS=min IE=4 ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 52 M=MMU_CBPData54 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData54 IS=min IE=4 ITERations=1;echo "done";
echo "there are 457 more memories to test.";echo "tr 52 M=MMU_CBPData55 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData55 IS=min IE=4 ITERations=1;echo "done";
echo "there are 456 more memories to test.";echo "tr 52 M=MMU_CBPData56 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData56 IS=min IE=4 ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 52 M=MMU_CBPData57 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData57 IS=min IE=4 ITERations=1;echo "done";
echo "there are 454 more memories to test.";echo "tr 52 M=MMU_CBPData58 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData58 IS=min IE=4 ITERations=1;echo "done";
echo "there are 453 more memories to test.";echo "tr 52 M=MMU_CBPData59 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData59 IS=min IE=4 ITERations=1;echo "done";
echo "there are 452 more memories to test.";echo "tr 52 M=MMU_CBPData6 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 451 more memories to test.";echo "tr 52 M=MMU_CBPData60 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData60 IS=min IE=4 ITERations=1;echo "done";
echo "there are 450 more memories to test.";echo "tr 52 M=MMU_CBPData61 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData61 IS=min IE=4 ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 52 M=MMU_CBPData62 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData62 IS=min IE=4 ITERations=1;echo "done";
echo "there are 448 more memories to test.";echo "tr 52 M=MMU_CBPData63 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData63 IS=min IE=4 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 52 M=MMU_CBPData64 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData64 IS=min IE=4 ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 52 M=MMU_CBPData65 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData65 IS=min IE=4 ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 52 M=MMU_CBPData66 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData66 IS=min IE=4 ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 52 M=MMU_CBPData67 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData67 IS=min IE=4 ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 52 M=MMU_CBPData68 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData68 IS=min IE=4 ITERations=1;echo "done";
echo "there are 442 more memories to test.";echo "tr 52 M=MMU_CBPData69 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData69 IS=min IE=4 ITERations=1;echo "done";
echo "there are 441 more memories to test.";echo "tr 52 M=MMU_CBPData7 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 52 M=MMU_CBPData70 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData70 IS=min IE=4 ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 52 M=MMU_CBPData71 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData71 IS=min IE=4 ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 52 M=MMU_CBPData72 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData72 IS=min IE=4 ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 52 M=MMU_CBPData73 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData73 IS=min IE=4 ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 52 M=MMU_CBPData74 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData74 IS=min IE=4 ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 52 M=MMU_CBPData75 IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_CBPData75 IS=min IE=4 ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 52 M=MMU_CBPData76 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData76 IS=min IE=4 ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 52 M=MMU_CBPData77 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData77 IS=min IE=4 ITERations=1;echo "done";
echo "there are 432 more memories to test.";echo "tr 52 M=MMU_CBPData78 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData78 IS=min IE=4 ITERations=1;echo "done";
echo "there are 431 more memories to test.";echo "tr 52 M=MMU_CBPData79 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData79 IS=min IE=4 ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 52 M=MMU_CBPData8 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 52 M=MMU_CBPData80 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData80 IS=min IE=4 ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 52 M=MMU_CBPData81 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData81 IS=min IE=4 ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 52 M=MMU_CBPData82 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData82 IS=min IE=4 ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 52 M=MMU_CBPData83 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData83 IS=min IE=4 ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 52 M=MMU_CBPData9 IS=min IE=4 ITERations=1";tr 52
M=MMU_CBPData9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 424 more memories to test.";echo "tr 52 M=MMU_CCP0_RESEQ_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CCP0_RESEQ_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 423 more memories to test.";echo "tr 52 M=MMU_CCP1_RESEQ_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CCP1_RESEQ_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 52 M=MMU_CCP_MEM IS=min IE=4 ITERations=1";tr 52
M=MMU_CCP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 52 M=MMU_CELL_LINK IS=min IE=4 ITERations=1";tr 52
M=MMU_CELL_LINK IS=min IE=4 ITERations=1;echo "done";
echo "there are 420 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK0 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK1 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 418 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK10 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK11 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK12 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK12 IS=min IE=4 ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK13 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK13 IS=min IE=4 ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK14 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK14 IS=min IE=4 ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK15 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK15 IS=min IE=4 ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK16 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK16 IS=min IE=4 ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK17 IS=min IE=4 ITERations=1";tr
```

```
52 M=MMU_CFAP_BANK17 IS=min IE=4 ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK18 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK18 IS=min IE=4 ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK19 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK19 IS=min IE=4 ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK2 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK20 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK20 IS=min IE=4 ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK3 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK4 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK5 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK6 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK7 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK8 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 52 M=MMU_CFAP_BANK9 IS=min IE=4 ITERations=1";tr
52 M=MMU_CFAP_BANK9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 399 more memories to test.";echo "tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4
ITERations=1";tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 396 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 394 more memories to test.";echo "tr 52 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=4
ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 52 M=MMU_ENQ_PBI_DB IS=min IE=4 ITERations=1";tr
52 M=MMU_ENQ_PBI_DB IS=min IE=4 ITERations=1;echo "done";
echo "there are 391 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM IS=min IE=4 ITERations=1";tr 52
M=MMU_EPRG_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4
```

```
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 52 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=4 ITERations=1;echo "done";
echo "there are 382 more memories to test.";echo "tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 378 more memories to test.";echo "tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=4 ITERations=1";tr 52 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 370 more memories to test.";echo "tr 52 M=MMU_MCFP IS=min IE=4 ITERations=1";tr 52
M=MMU_MCFP IS=min IE=4 ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 52 M=MMU_MCQDB0 IS=min IE=4 ITERations=1";tr 52
M=MMU_MCQDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 52 M=MMU_MCQDB1 IS=min IE=4 ITERations=1";tr 52
M=MMU_MCQDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 52 M=MMU_MCQE IS=min IE=4 ITERations=1";tr 52
M=MMU_MCQE IS=min IE=4 ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 52 M=MMU_MCQN IS=min IE=4 ITERations=1";tr 52
M=MMU_MCQN IS=min IE=4 ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1 IS=min IE=4
```

```
ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1 IS=min IE=4
ITERations=1;echo "done";
echo "there are 361 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 357 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1
IS=min IE=4 ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1 IS=min IE=4
ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 351 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 349 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 348 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 347 more memories to test.";echo "tr 52 M=MMU_PDB0 IS=min IE=4 ITERations=1";tr 52
M=MMU_PDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 52 M=MMU_PDB1 IS=min IE=4 ITERations=1";tr 52
M=MMU_PDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 52 M=MMU_PKTHDR IS=min IE=4 ITERations=1";tr 52
M=MMU_PKTHDR IS=min IE=4 ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 52 M=MMU_PKT_LINK IS=min IE=4 ITERations=1";tr 52
M=MMU_PKT_LINK IS=min IE=4 ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 52 M=MMU_PORTCNT IS=min IE=4 ITERations=1";tr 52
M=MMU_PORTCNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM IS=min IE=4 ITERations=1";tr 52
```

```
M=MMU_PQE0_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 52 M=MMU_PQE1_MEM IS=min IE=4 ITERations=1";tr 52
M=MMU_PQE1_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 52 M=MMU_QCN_CNM_COUNTER IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_CNM_COUNTER IS=min IE=4 ITERations=1;echo "done";
echo "there are 339 more memories to test.";echo "tr 52 M=MMU_QCN_CNM_QUEUE0 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_CNM_QUEUE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 52 M=MMU_QCN_CNM_QUEUE1 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_CNM_QUEUE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 52 M=MMU_QCN_CPQST_QLEN IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_CPQST_QLEN IS=min IE=4 ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 52 M=MMU_QCN_CPQST_TSSLS IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_CPQST_TSSLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 52 M=MMU_QCN_ENABLE_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_ENABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 52 M=MMU_QCN_ENABLE_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_ENABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 52 M=MMU_QCN_QFBTB IS=min IE=4 ITERations=1";tr
52 M=MMU_QCN_QFBTB IS=min IE=4 ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 52 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 52 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=4
ITERations=1";tr 52 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 52 M=MMU_QCN_SITB IS=min IE=4 ITERations=1";tr 52
M=MMU_QCN_SITB IS=min IE=4 ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO0 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO1 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=4 ITERations=1";tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=4
ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 318 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 317 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 314 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 313 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 312 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 310 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 309 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 308 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=4 ITERations=1;echo "done";
echo "there are 304 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=4 ITERations=1;echo "done";
echo "there are 303 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=4 ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min IE=4 ITERations=1;echo "done";
echo "there are 300 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min IE=4 ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min IE=4 ITERations=1;echo "done";
echo "there are 298 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 297 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=4 ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=4 ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=4 ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min IE=4 ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min IE=4 ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min IE=4 ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 283 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 282 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 281 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 280 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 279 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 278 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min IE=4
ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 276 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 275 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 274 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 273 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 272 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 271 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 270 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 269 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 268 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 267 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 266 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 265 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 264 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 263 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 262 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 261 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min IE=4 ITERations=1;echo
"done";
```

```
echo "there are 260 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 259 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 258 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 257 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 256 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 253 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 251 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 248 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 247 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 246 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 244 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 243 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 242 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=4
```

```
ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 238 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 235 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 234 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 232 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 229 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 228 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 227 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 226 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_RESUME_PORT IS=min IE=4
ITERations=1";tr 52 M=MMU_THDU_YPIPE_RESUME_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min
```

```
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 221 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 220 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 52 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min
IE=4 ITERations=1";tr 52 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 52 M=MMU_UCQDB0 IS=min IE=4 ITERations=1";tr 52
M=MMU_UCQDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 217 more memories to test.";echo "tr 52 M=MMU_UCQDB1 IS=min IE=4 ITERations=1";tr 52
M=MMU_UCQDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 216 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 215 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 214 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=4
ITERations=1";tr 52 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 212 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE
```

```
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 199 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE
IS=min IE=4 ITERations=1";tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 192 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 191 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 190 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 188 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 52
```

```
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 186 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 185 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=4 ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 184 more memories to test.";echo "tr 52 M=MODID_BASE_PTR IS=min IE=4 ITERations=1";tr 52
M=MODID_BASE_PTR IS=min IE=4 ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 52 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 52 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 52 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 52 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 179 more memories to test.";echo "tr 52 M=MODPORT_MAP_MIRROR IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 178 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 175 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 174 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=4
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 52 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1";tr
52 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1;echo "done";
#echo "there are 171 more memories to test.";echo "tr 52 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0
ITERations=1";tr 52 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0 ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 52 M=MPLS_ENTRY IS=min IE=4 ITERations=1";tr 52
M=MPLS_ENTRY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 169 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 52 M=MY_STATION_TCAM IS=min IE=4 ITERations=1";tr
52 M=MY_STATION_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2 IS=min IE=4
ITERations=1";tr 52 M=MY_STATION_TCAM_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=4 ITERations=1";tr 52 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=4 ITERations=1";tr 52 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo
```

```
"done";
echo "there are 164 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 52 M=NUM_QCN_CNM_RECEIVED IS=min IE=4
ITERations=1";tr 52 M=NUM_QCN_CNM_RECEIVED IS=min IE=4 ITERations=1;echo "done";
echo "there are 160 more memories to test.";echo "tr 52 M=PFS_PACKET_TYPE_OFFSET IS=min IE=4
ITERations=1";tr 52 M=PFS_PACKET_TYPE_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 52 M=PHB2_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=PHB2_COS_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 157 more memories to test.";echo "tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE IS=min IE=4 ITERations=1";tr 52
M=PORT_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=4
ITERations=1";tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 52 M=PORT_TAB IS=min IE=4 ITERations=1";tr 52
M=PORT_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=4
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 151 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=4
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 150 more memories to test.";echo "tr 52 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1";tr
52 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 149 more memories to test.";echo "tr 52 M=RH_ECMP_DROPS_X IS=min IE=0 ITERations=1";tr
52 M=RH_ECMP_DROPS_X IS=min IE=0 ITERations=1;echo "done";
#echo "there are 148 more memories to test.";echo "tr 52 M=RH_ECMP_DROPS_Y IS=min IE=0 ITERations=1";tr
52 M=RH_ECMP_DROPS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 52 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=4 ITERations=1";tr 52 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4
ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 52 M=RH_ECMP_FLOWSET IS=min IE=4 ITERations=1";tr
52 M=RH_ECMP_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 52 M=RH_HGT_DROPS IS=min IE=4 ITERations=1";tr 52
M=RH_HGT_DROPS IS=min IE=4 ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 52 M=RH_HGT_DROPS_X IS=min IE=4 ITERations=1";tr
52 M=RH_HGT_DROPS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 52 M=RH_HGT_DROPS_Y IS=min IE=4 ITERations=1";tr
52 M=RH_HGT_DROPS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 52 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=4 ITERations=1";tr 52 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1;echo
```

```
"done";
echo "there are 141 more memories to test.";echo "tr 52 M=RH_HGT_FLOWSET IS=min IE=4 ITERations=1";tr
52 M=RH_HGT_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 140 more memories to test.";echo "tr 52 M=RH_HGT_GROUP_CONTROL IS=min IE=4
ITERations=1";tr 52 M=RH_HGT_GROUP_CONTROL IS=min IE=4 ITERations=1;echo "done";
#echo "there are 139 more memories to test.";echo "tr 52 M=RH_LAG_DROPS IS=min IE=0 ITERations=1";tr 52
M=RH_LAG_DROPS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 138 more memories to test.";echo "tr 52 M=RH_LAG_DROPS_X IS=min IE=0 ITERations=1";tr
52 M=RH_LAG_DROPS_X IS=min IE=0 ITERations=1;echo "done";
#echo "there are 137 more memories to test.";echo "tr 52 M=RH_LAG_DROPS_Y IS=min IE=0 ITERations=1";tr
52 M=RH_LAG_DROPS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 136 more memories to test.";echo "tr 52 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=4 ITERations=1";tr 52 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 135 more memories to test.";echo "tr 52 M=RH_LAG_FLOWSET IS=min IE=4 ITERations=1";tr
52 M=RH_LAG_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 52 M=RQE_FREE_LIST IS=min IE=4 ITERations=1";tr 52
M=RQE_FREE_LIST IS=min IE=4 ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 52 M=RQE_LINK_LIST IS=min IE=4 ITERations=1";tr 52
M=RQE_LINK_LIST IS=min IE=4 ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=4
ITERations=1";tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=4
ITERations=1";tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 52 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1";tr
52 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 52 M=SERVICE_PORT_MAP IS=min IE=4 ITERations=1";tr
52 M=SERVICE_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 52 M=SERVICE_QUEUE_MAP IS=min IE=4
ITERations=1";tr 52 M=SERVICE_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 52 M=SER_MEMORY IS=min IE=4 ITERations=1";tr 52
M=SER_MEMORY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 125 more memories to test.";echo "tr 52 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 124 more memories to test.";echo "tr 52 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 123 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 122 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 121 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 120 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 52 M=SGPP_TO_PIPE_MAPPING IS=min IE=4
ITERations=1";tr 52 M=SGPP_TO_PIPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 118 more memories to test.";echo "tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 52 M=SOURCE_VP IS=min IE=4 ITERations=1";tr 52
M=SOURCE_VP IS=min IE=4 ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 52 M=SOURCE_VP_2 IS=min IE=4 ITERations=1";tr 52
M=SOURCE_VP_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 52 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1";tr
52 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1;echo "done";
echo "there are 112 more memories to test.";echo "tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4
ITERations=1";tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP IS=min IE=4
ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=4 ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 109 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=4
ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=4
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 107 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 52 M=TCP_FN IS=min IE=4 ITERations=1";tr 52
M=TCP_FN IS=min IE=4 ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_BST_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_BST_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_X IS=min IE=4
```

```
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_BST_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_BST_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 84 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 83 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG2_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_X IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 80 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_Y IS=min IE=4
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 79 more memories to test.";echo "tr 52 M=TOS_FN IS=min IE=4 ITERations=1";tr 52 M=TOS_FN
IS=min IE=4 ITERations=1;echo "done";
#echo "there are 78 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1";tr
52 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 77 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_X IS=min IE=0
ITERations=1";tr 52 M=TRILL_DROP_STATS_X IS=min IE=0 ITERations=1;echo "done";
#echo "there are 76 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS_Y IS=min IE=0
ITERations=1";tr 52 M=TRILL_DROP_STATS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 52 M=TRUNK_BITMAP IS=min IE=4 ITERations=1";tr 52
M=TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 74 more memories to test.";echo "tr 52 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1";tr
52 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 73 more memories to test.";echo "tr 52 M=TRUNK_GROUP IS=min IE=4 ITERations=1";tr 52
M=TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 52 M=TRUNK_MEMBER IS=min IE=4 ITERations=1";tr 52
M=TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 52 M=TTL_FN IS=min IE=4 ITERations=1";tr 52 M=TTL_FN
```

```
IS=min IE=4 ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 52 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 52 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=4 ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 68 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=4 ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 67 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET IS=min IE=4 ITERations=1";tr 52
M=FP_UDF_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 52 M=FP_UDF_TCAM IS=min IE=4 ITERations=1";tr 52
M=FP_UDF_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 52 M=VFI IS=min IE=4 ITERations=1";tr 52 M=VFI IS=min
IE=4 ITERations=1;echo "done";
echo "there are 61 more memories to test.";echo "tr 52 M=VFI_1 IS=min IE=4 ITERations=1";tr 52 M=VFI_1
IS=min IE=4 ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 52 M=VFI_PROFILE IS=min IE=4 ITERations=1";tr 52
M=VFI_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 52 M=VFI_PROFILE_2 IS=min IE=4 ITERations=1";tr 52
M=VFI_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 58 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4
ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 57 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4
ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4 ITERations=1;echo "done";
echo "there are 56 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
52 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 55 more memories to test.";echo "tr 52 M=VFP_TCAM IS=min IE=4 ITERations=1";tr 52
M=VFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 54 more memories to test.";echo "tr 52 M=VLAN_TAB IS=min IE=4 ITERations=1";tr 52
M=VLAN_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 53 more memories to test.";echo "tr 52 M=VLAN_MAC IS=min IE=4 ITERations=1";tr 52
M=VLAN_MAC IS=min IE=4 ITERations=1;echo "done";
echo "there are 52 more memories to test.";echo "tr 52 M=VLAN_MPLS IS=min IE=4 ITERations=1";tr 52
M=VLAN_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 51 more memories to test.";echo "tr 52 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1";tr
52 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 50 more memories to test.";echo "tr 52 M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1";tr 52
M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 49 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL IS=min IE=4 ITERations=1";tr 52
M=VLAN_PROTOCOL IS=min IE=4 ITERations=1;echo "done";
echo "there are 48 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=4
```

```
ITERations=1";tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 47 more memories to test.";echo "tr 52 M=STG_TAB IS=min IE=4 ITERations=1";tr 52
M=STG_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 46 more memories to test.";echo "tr 52 M=VLAN_SUBNET IS=min IE=4 ITERations=1";tr 52
M=VLAN_SUBNET IS=min IE=4 ITERations=1;echo "done";
echo "there are 45 more memories to test.";echo "tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4
ITERations=1";tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 44 more memories to test.";echo "tr 52 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1";tr
52 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 43 more memories to test.";echo "tr 52 M=VLAN_XLATE IS=min IE=4 ITERations=1";tr 52
M=VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 42 more memories to test.";echo "tr 52 M=VLAN_XLATE_ECC IS=min IE=4 ITERations=1";tr 52
M=VLAN_XLATE_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 41 more memories to test.";echo "tr 52 M=VLAN_XLATE_LP IS=min IE=4 ITERations=1";tr 52
M=VLAN_XLATE_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 40 more memories to test.";echo "tr 52 M=VOQ_COS_MAP IS=min IE=4 ITERations=1";tr 52
M=VOQ_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 39 more memories to test.";echo "tr 52 M=VOQ_MOD_MAP IS=min IE=4 ITERations=1";tr 52
M=VOQ_MOD_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 38 more memories to test.";echo "tr 52 M=VOQ_PORT_MAP IS=min IE=4 ITERations=1";tr 52
M=VOQ_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 37 more memories to test.";echo "tr 52 M=VRF IS=min IE=4 ITERations=1";tr 52 M=VRF IS=min
IE=4 ITERations=1;echo "done";
#echo "there are 36 more memories to test.";echo "tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=4
ITERations=1";tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=4 ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 35 more memories to test.';echo 'tr 52 M=EDB_1DBG_B IS=min IE=4 ITERations=1';tr 52
M=EDB_1DBG_B IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 33 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 32 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 29 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 28 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 26 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 25 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 24 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 52 M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 52 M=ING_SERVICE_PRI_MAP IS=min IE=4
ITERations=1';tr 52 M=ING_SERVICE_PRI_MAP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 52 M=LINK_STATUS IS=min IE=4 ITERations=1';tr 52
M=LINK_STATUS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 52 M=LMEP IS=min IE=4 ITERations=1';tr 52 M=LMEP
IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 52 M=LMEP_DA IS=min IE=4 ITERations=1';tr 52
M=LMEP_DA IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 52 M=MAID_REDUCTION IS=min IE=4 ITERations=1';tr 52
M=MAID_REDUCTION IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 52 M=MA_INDEX IS=min IE=4 ITERations=1';tr 52
M=MA_INDEX IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 52 M=MA_STATE IS=min IE=4 ITERations=1';tr 52
M=MA_STATE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 52 M=OAM_LM_COUNTERS IS=min IE=4 ITERations=1';tr
52 M=OAM_LM_COUNTERS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 52 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4
ITERations=1';tr 52 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 52 M=RMEP IS=min IE=4 ITERations=1';tr 52 M=RMEP
IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 12 more memories to test.';echo 'tr 52 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=4
ITERations=1';tr 52 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES_X IS=min IE=4
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES_Y IS=min IE=4
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS_X IS=min IE=4
ITERations=1';tr 52 M=EGR_MMU_REQUESTS_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS_Y IS=min IE=4
ITERations=1';tr 52 M=EGR_MMU_REQUESTS_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
52 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS_X IS=min IE=4
```

```
ITERations=1';tr 52 M=EGR_PORT_REQUESTS_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS_Y IS=min IE=4
ITERations=1';tr 52 M=EGR_PORT_REQUESTS_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=4
ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1
IS=min IE=4 ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 IS=min IE=4
ITERations=1;echo 'done';
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr52_bcm56860_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_quadra28_field_access.h                                      *
*  Created On    :  29/04/2013                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  Serdes IP Register and Field access APIs                            *
*  Revision      :  $Id: merlin_quadra28_field_access.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwBwpEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
```

```
* $Id: sbZfFabBm3200BwBwpEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwBwpEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon_furia_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: falcon_furia_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_proc.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip operations
*/
/**
@name: tdm_postalloc
@param:
```

Unless special exceptions are needed for certain port speeds, this is the standard procedure to load time vectors into TDM vector map
**/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_proc.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dnxf_modid_group_map.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF MODID GROUP MAP
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/dnxf_modid_group_map.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bscbus.c,v 1.1.2.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bscbus.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmstring.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmstring.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_12x1g_1xhg42.h,v 1.1.2.1 Broadcom SDK $

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_12x1g_1xhg42.h
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl -w
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#

use strict;
use warnings;
use File::Basename;
use IO::File;
use Data::Dumper;

my $arg;
my @files = ();
my @text = ();
my @insert_before = ();
my @insert_after = ();
my $exact = 1;
my $verbose = 0;
my $textfile;   # File contains name of functions to be changed
my $texttoinsert; # Text to insert when function is found
my @functions = ();
my $dryrun = 0;

while ( defined ( $arg = shift @ARGV) ) {
 if ( $arg eq '-h' || $arg eq '-help' ) {
      print_help();
  exit 0;
 }
 if ( $arg eq '-f' ) {
      while ( defined ( my $tmp = shift @ARGV ) ) {
         if ( $tmp !~ /^-/ ) {
            push ( @files, $tmp );
         } else {
            unshift ( @ARGV, $tmp );
            last;
         }
      }
      next;
   }
```

```
 if ( $arg eq '-text' ) {
   push (@text, shift @ARGV);
   push (@text, shift @ARGV);
   next;
 }
   if ( $arg eq '-vague' ) {
       $exact = 0;
       next;
   }
   if ( $arg eq '-inserta' ) {
  push (@insert_after, shift @ARGV);
  push (@insert_after, shift @ARGV);
       next;
   }
   if ( $arg eq '-insertb' ) {
  push (@insert_before, shift @ARGV);
  push (@insert_before, shift @ARGV);
       next;
   }
   if ( $arg eq '-verbose' ) {
       $verbose = shift @ARGV;
       next;
   }
   if ( $arg eq '-list' ) {
       $textfile = shift @ARGV;
       $texttoinsert = shift @ARGV;
       next;
   }
   if ( $arg eq '-dryrun' ) {
       $dryrun = 1;
  next;
 }
   print "Illegal option $arg\n";
}

if ( @text || @insert_before || @insert_after ) {
   foreach my $file ( @files ) {
  my $once = 1;
       print "Processing file $file\n" if ($verbose & 0x1  );
       my $modified = 0;
       my $fhr = IO::File->new("$file",'r') || die "$! Unable to open file $file for reading\n";
       my $fhw = IO::File->new("$file.$$",'w') || die "$! Unable to open file $file.$$ for writing\n";
       while ( my $line=<$fhr> ) {
           for ( my $idx=0; $idx < @insert_before; $idx += 2 ) {
               if ( $line =~ m/$insert_before[$idx]/ ) {
                   $modified = 1;
                   print $fhw $insert_before[$idx+1], "\n" if ( !$dryrun );
                   print $insert_before[$idx+1], "\n" if ( $dryrun );
```

```
            }
        }
        for ( my $idx=0; $idx < @text; $idx += 2 ) {
    print "Searching for !$text[$idx]! and replace it with !$text[$idx+1]!\n" if ( $once );
            if ( $exact ) {
                if ( $line =~ s/\b$text[$idx]\b/$text[$idx+1]/g ) {
                    $modified = 1;
                    print "Changing this \'$_\' into this \'$line\'\n" if ( $verbose & 0x2 );
                }
            } else {
     if ( $line =~ s/$text[$idx]/$text[$idx+1]/g ) {
                    $modified = 1;
                    print "Changing this \'$_\' into this \'$line\'\n" if ( $verbose & 0x2 );
                }
            }
        }
   $once = 0;
        print $fhw $line;
        for ( my $idx=0; $idx < @insert_after; $idx += 2 ) {
            if ( $line =~ m/$insert_after[$idx]/ ) {
                $modified = 1;
                print $fhw $insert_after[$idx+1], "\n" if ( !$dryrun );
                print $insert_after[$idx+1], "\n" if ( $dryrun );
            }
        }
      }
      close ( $fhr );
      close ( $fhw );
      if ( !$modified ) {
         unlink ("$file.$$");
         print "No match found. Original file unchanged. Removing temporary file $file.$$\n" if ( $verbose & 0x1 );
      } else {
         rename ( "$file.$$", "$file") || die "$! Unable to rename $file.$$ to $file\n"
      }
   }
}

if ( defined $textfile ) {
   my $fhr = IO::File->new("$textfile",'r') || die "$! Unable to open file $textfile for reading\n";
   @functions = <$fhr>;
   chomp(@functions);
   close ( $fhr );
   foreach my $file ( @files ) {
      print "Processing file $file\n" if ($verbose & 0x1);
      my $modified = 0;
      my $fhr = IO::File->new("$file",'r') || die "$! Unable to open file $file for reading\n";
      my $fhw = IO::File->new("$file.$$",'w') || die "$! Unable to open file $file.$$ for writing\n";
      while ( my $line=<$fhr> ) {
```

```
        my $savedline = $line;
        for ( my $idx=0; $idx < @functions; $idx++  ) {
            next if ( $functions[$idx] =~ m/^$/ );
            if ( $line =~ s/($functions[$idx])/$1$texttoinsert/ ) {
                $modified = 1;
                print "Changing this \'$savedline\' into this \'$line\' with search pattern \'$functions[$idx]\'\n" if (
$verbose & 0x2 );
                last;
            }
        }
        print $fhw $line if ( !$dryrun );
        print $line if ( !$dryrun );
    }
    close ( $fhr );
    close ( $fhw );
    if ( !$modified ) {
        unlink ("$file.$$");
        print "No match found. Original file unchanged. Removing temporary file $file.$$\n" if ( $verbose & 0x1 );
    } else {
        rename ( "$file.$$", "$file") || die "$! Unable to rename $file.$$ to $file\n"
    }
  }
}

sub print_help {
  print << "EOT"
$0 -text <text to search> <text to replace> -insert <text to search> <text to insert> -f <list of files> -vague

This script searches all the files for specified search text pattern
and replaces it with replacement text pattern. Note that the script
replaces the original file with the modified file. Back up of the original
is highly recommended.

The -insertb option searches for specified text pattern and insert
the specified text before the line.
The -inserta option searches for specified text pattern and insert
the specified text after the line.
The -dryrun option shows what is being changed without modify the files
The -list option specifies a file contains a list of text to be changed

the -text option can be used multiple times.
the -inserta and -insertb option can be used multiple times.


If the -vague option is used then the scripts will match any words
that contains the search pattern. Otherwise it will perform the exact
match.
```

```
USAGE:
$0 -text "find me" "replace me" -f *.c *.h

EOT
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/sar.pl
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.97 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    rh.c
* Purpose: Tomahawk Resilient Hashing function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/rh.c
No license file was found, but licenses were detected in source scan.

```
#
# mktool.pl
#
# $Id: mktool.pl,v 1.5 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

use File::Path;
use File::Find;
use File::Copy;
use Cwd;

($prog = $0) =~ s/.*\//;

SWITCH:
{
  $op = shift;

  if ($op eq "-rm") { mktool_rm(@ARGV); last SWITCH; }
  if ($op eq "-cp") { mktool_cp(@ARGV); last SWITCH; }
  if ($op eq "-md") { mktool_md(@ARGV); last SWITCH; }
  if ($op eq "-ln") { mktool_ln(@ARGV); last SWITCH; }
```

```
   if ($op eq "-foreach") { mktool_foreach(@ARGV); last SWITCH; }
   if ($op eq "-dep") { mktool_makedep(@ARGV); last SWITCH; }
   if ($op eq "-echo") { mktool_echo(@ARGV); last SWITCH; }
   if ($op eq "-beep") { mktool_beep(@ARGV); last SWITCH; }
   die("$prog: unknown option '$op'\n");
}

exit 0;




#
# mktool_execute
#
# Executes a command, returns exist status.
# Performs token special translation before execution.
#

sub mktool_execute
{
   my $token = shift;
   my @cmds = @_;

#    printf("mktool_execute: token = '$token'\n");
   foreach $cmd (@cmds)
   {
 #printf("mktool_execute: cmd = '$cmd'\n");
 $cmd =~ s/\#\#/$token/g;
 if($cmd =~ /^-p/)
 {
     $cmd =~ s/^-p//;
     printf("$cmd\n");
 }
 else
 {
     system($cmd);
     my $excode = ($? >> 8);
     exit $excode if $excode;
 }
   }
}


$find_regexp = "";
@find_cmd;

#
```

```
# mktool_foreach
#
sub mktool_foreach
{
  if($_[0] eq "-find")
  {
 shift;
 $find_dir = shift;
 $find_regexp = shift;
 @find_cmds = @_;

 if(!($find_dir =~ /^\//))
 {
    $find_dir = cwd() . "/" . $find_dir;
 }
 find(\&_mktool_foreach_find_wanted, $find_dir);
  }
  else
  {
 my $subdir = 0;
 if($_[0] eq "-subdir")
 {
    $subdir = 1;
    shift;
 }

 my @thingies = split(' ', shift);

 foreach $thingy (@thingies)
 {
    chdir $thingy unless $subdir == 0;
    mktool_execute($thingy, @_);
    chdir ".." unless $subdir == 0;
 }
  }
}



sub _mktool_foreach_find_wanted
{
  my $expr = "\$File::Find::name =~ /\^$find_regexp\$/";

  if(eval($expr))
  {
 mktool_execute($File::Find::name, @find_cmds);
 exit $excode if $excode;
  }
```

```
}


#
# rm
#
# Removes a list of objects
#
sub mktool_rm
{
   my($f);

   foreach $f (@_) {
 eval { rmtree($f) };
 if ($@) {
     die "$prog $op: failed to remove $f: $@\n";
 }
   }
}

#
# md
#
# Makes a list of directories
#
sub mktool_md
{
   my($dir);

   foreach $dir (@_) {
 $dir =~ s!/+$!!;
 eval { mkpath($dir) };
 if ($@) {
     die "$prog $op: failed to make directory $dir: $@\n";
       }
   }
}


sub mktool_cp
{
   my($from, $to) = @_;

   if (@_ != 2) {
     die "$prog $op: must have two arguments\n";
   }
   copy($from, $to) ||
 die "$prog $op: failed to copy $from to $to: $!\n";
```

```
}

sub mktool_ln
{
   my($old, $new) = @_;

   if (@_ != 2) {
     die "$prog $op: must have two arguments\n";
   }
   link ($old, $new) ||
 die "$prog $op: failed to link $new to $old: $!\n";
}


# @echo "$@ \\" > ${BLDDIR}/$(notdir $@)
# @if ($(DEPEND)) >> $(BLDDIR)/$(notdir $@); then \
#     exit 0;    \
# else     \
#     rm -f ${BLDDIR}/$(notdir $@); \
#     exit 1;    \
# fi

# $(MAKEDEP) "$@" "$(BLDDIR)/$(notdir $@)" "$(DEPEND)"

sub mktool_makedep
{
   my ($source, $target, $cmd, $curdir) = @_;
   my @result = `$cmd`;
   my $sdk = $ENV{'SDK'};
   my $count;
   my $tmp;
   local $resultant;

## Comman $cmd
#Command $cmd
print <<MKTOOL;

mktool.pl::
curdir $curdir

MKTOOL

   # derive the path to the target
   $curdir = "$sdk/$curdir";

   # save the basename
   $dirName = substr($target,0,rindex($target,"\/"));
```

```
  # prepare the top line of the %.d file
  $resultant="$source \\\n\${BLDDIR}/";
  if(!$?)
  {
foreach $line (@result)
{
$line =~ s/^#.*\n//g;  # some makedeps produce comments
$line =~ s/\n+$//;  # toss trailing newlines
$line =~ s/(\s+)(\.\/)/  /g;    # remove leading ./

# insert SDK path before ../
$line =~ s/(\s+)(\.\.\/)/${1}$curdir\/${2}/g;

# insert SDK path
$line =~ s/(\s+)(\w+)/${1}$curdir\/${2}/g;

$count=0;
      $tmp=$line;
while( (index($line,"..")>-1) & ($count < 20) )
{
 $line=~s/\/\w+\/\.\.//;
 # if we hit a major recursion, revert the line, report
 # this to the output and drop out of the loop, but do
 # continue, this should not halt generation
 if($count++>19)
 {
  print "mktool.pl: could not process $line \n\n";
  print ":: curdir  $curdir\n";
  print ":: target  $target\n";
  print ":: cmd     $cmd\n";
  $line=$tmp;
 }
}

# set all the paths to use the $SDK variable
$line =~ s/$ENV{'SDK'}/\$\{SDK\}/g;
$resultant=$resultant . $line;
}

# some compilers return extra newlines
$resultant=~s/\n//g;

# now clean up the result
$resultant=~s/\\/\\\n/g;

mktool_md($dirName) unless (-d $dirName);
open (TARGET, ">$target") ||
    die("$prog $op: cannot open '$target' for writing: $!\n");
```

```
 print TARGET "$resultant\n";
 close(TARGET);
   }
}

sub mktool_echo
{
   print "@_\n";
}

sub mktool_beep
{
   -t STDOUT && defined $ENV{MAKEBEEP} && print "\007";
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/mktool.pl
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nh_tx.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        nh_tx.h
* Purpose:     Header file for next hop transmit functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/nh_tx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.148 2013/09/17 10:45:12  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cint_utils_oam.c
* Purpose: Utility functions and variables to be used by all OAM/BFD cints
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ipfix.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipfix.c
* Purpose:    IPFIX common APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ipfix.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM3200 Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bme3200/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56260_b0.c
* Purpose:     bcm56260_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56260_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_extender.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
/*****************************************************************
*
* FILENAME:       $SDK/include/soc/dpp/PPC/ppc_api_extender.h
*
* MODULE PREFIX:  soc_ppc_extender
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_extender.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_TSCE_DPLL_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tsce_dpll_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Filename Make.local.53570
FEATURE_LIST=PTP CINT  L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU KNET
```

```
BCM_PTL_SPT = 1

BCM_53570_A0 = 1

#CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
#CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
#CFGFLAGS += -DSAL_THREAD_EXPLICIT_PRIO

# workspace:system=53570
#deprecated
# linux36-user:system=53570 buildDir=systems/linux/user/iproc-3_6 cpu=iproc
# linux-user:system=53570 buildDir=systems/linux/user/iproc-3_14 cpu=iproc
# linux-user:system=53570 buildDir=systems/linux/user/gto cpu=gto
# linux36-user:system=53570 buildDir=systems/linux/user/rsx-3_6 cpu=rsx
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/esw/Make.pkg.53570
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.h
* Purpose:     Firebolt VLAN_MAC hardware table manipulation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_l3uc.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_l3uc.c
* Purpose: This file implements techsupport utility for
*          l3uc(layer 3 unicast feature.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3uc/techsupport_l3uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: disc.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       disc.h
* Purpose:     Stack Discovery Algorithm
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/discover/disc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_mac_ctrl.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_mac_ctrl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2xmsg.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l2xmsg.c
* Purpose: Provide a reliable stream of L2 insert/delete messages.
*
* This module monitors the L2X table for changes and performs callbacks
* for each insert, delete, or port movement that is detected.
*
* There is a time lag from the actual table change to the callback
* because the l2xmsg task scans the L2X table only periodically.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph3/l2xmsg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_vxlan.c Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_vxlan.c
* Purpose: Maintains all the debug information for vxlan
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vxlan/trident2_vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pack.h,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pack.h
* Purpose:     Pack and unpack macros using Big-Endian (network byte order).
*
* Pack and unpack macros:
*   _SHR_PACK_U8    : Packs a uint8, advances pointer
*   _SHR_UNPACK_U8  : Unpacks a uint8, advances pointer
*   _SHR_PACK_U16   : Packs a uint16, advances pointer
*   _SHR_UNPACK_U16 : Unpacks a uint16, advances pointer
*   _SHR_PACK_U32   : Packs a uint32, advances pointer
*   _SHR_UNPACK_U32 : Unpacks a uint32, advances pointer
*
* The pack/unpack macros take (_buf, _var)
* where,
*     _buf  - is a pointer to buffer where to pack or unpack value;
*             should be of type 'uint8 *', or 'char *'.
*     _var  - is the variable with value to pack, or to unpack to.
*
* NOTE:
* All above macros increment the given buffer pointer based
* on the corresponding type size.
*
* Avoid expressions in these macros (side effects).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/pack.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sdk_source_check.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Check for basic source code architecture violations.
*
* Note that if this file is included multiple times, it must
* be propcessed for errors every time.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sdk_source_check.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_chassis.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_chassis.c
* Purpose:    BCM956000 Chassis top level board programming
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_chassis.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbBm9600MemAccess.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbBm9600MemAccess.c
* Purpose:    sbx commands to read/write BM9600 indirect mems
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbBm9600MemAccess.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.c,v 1.32 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNX L2Gre implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/l2gre.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_multicast_fabric.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_multicast_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apache Sanity
#
# Script to run all available tests.
# For testing basic sanity of new drivers, simulators, chips, etc.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'

counter off
l2mode off

# We need to print out port status since any cabling effects results.
```

```
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

local done 'echo "Test Completed"'

#Display some useful information
date
ver
soc
config show
show portmap
show params
phy info

dump pcic
dump pcim

#Start Test
echo "Running PCI Compliance Test ..."
tr 2
$done

echo "Running PCI S-Channel Buffer Test ..."
tr 4
$done

echo "Running Register Reset Defaults Test..."
tr 1
$done

echo "Running Register Read/Write Test..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running CPU Benchmarks Test..."
tr 21
$done
```

```
echo "Running XGS L2 Delete by Port Test..."
tr 35 Reset=False

echo "Running XGS L2 Delete by VLAN Test..."
tr 36 Reset=False Count=50

echo "Running BCM Packet Send Test..."
tr 40

echo "Running BCM Packet Receive Test..."
tr 41

set rct=false
echo "Running Memory Tests..."
rcload trall_bcm56560_a0.soc
$done

# Re-initialize to clean up of various read/writes to MMU memories
set rct=true
counter off
l2mode off
linkscan off
memscan off

echo "Running Counter Width Verification Test..."
tr 30
$done

echo "Running Counter Read/Write Test..."
tr 31
$done

set rct=false
echo "Running Memory Hashing Tests..."
tr 55 Mem=L2_ENTRY
tr 55 Mem=L3_ENTRY_IPV4_UNICAST
tr 55 Mem=L3_ENTRY_IPV6_UNICAST
tr 55 Mem=L3_ENTRY_IPV4_MULTICAST
tr 55 Mem=L3_ENTRY_IPV6_MULTICAST
tr 55 Mem=VLAN_XLATE
tr 55 Mem=EGR_VLAN_XLATE
tr 55 Mem=MPLS_ENTRY
tr 55 Mem=ING_VP_VLAN_MEMBERSHIP
tr 55 Mem=EGR_VP_VLAN_MEMBERSHIP
tr 55 Mem=ING_DNAT_ADDRESS_TYPE
tr 55 Mem=L2_ENDPOINT_ID
tr 55 Mem=ENDPOINT_QUEUE_MAP
$done
```

```
#L2Xm and L3_ENTRY_xxm need init soc only.
echo "init soc"
init soc

echo "Running Memory Hashing Overflow Insert Test..."
#tr 56 Mem=L2_ENTRY
#tr 56 Mem=L3_ENTRY_IPV4_UNICAST
#tr 56 Mem=L3_ENTRY_IPV6_UNICAST
#tr 56 Mem=L3_ENTRY_IPV4_MULTICAST
#tr 56 Mem=L3_ENTRY_IPV6_MULTICAST

tr 56 Mem=VLAN_XLATE
tr 56 Mem=EGR_VLAN_XLATE
tr 56 Mem=MPLS_ENTRY
tr 56 Mem=ING_VP_VLAN_MEMBERSHIP
tr 56 Mem=EGR_VP_VLAN_MEMBERSHIP
tr 56 Mem=ING_DNAT_ADDRESS_TYPE
tr 56 Mem=L2_ENDPOINT_ID
tr 56 Mem=ENDPOINT_QUEUE_MAP
$done
set rct=true

echo "Running MDIO Linkscan Test..."
tr 60
$done

echo "Running CPU DMA Loopback Test..."
tr 17
$done

echo "Running CPU DMA, Scatter/Gather Reload Test..."
tr 22
$done

echo "Running CPU DMA, Scatter/Gather Simple Test..."
tr 23 PacketsPerChainEnd=1
$done

echo "Running CPU DMA, Scatter/Gather Random Test..."
tr 24 PacketsPerChainEnd=1
$done

#MAC Loopback
echo "Running MAC Loopback Test - all E ports..."
tr 18 PortBitMap=e Speed=max
$done
```

```
#PHY Loopback
echo "Running PHY Loopback Test - all E ports..."
tr 19 PortBitMap=e Speed=max
$done

echo "Running MAC Loopback V2 Test - all E ports..."
tr 48 PortBitMap=e
$done

echo "Running PHY Loopback V2 Test - all E ports..."
tr 49 PortBitMap=e
$done

#Internal snake Loopback
echo "Running Internal Snake Test - all E ports, MAC Loopback..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=e Count=1
$done

echo "Running Internal Snake Test - all E ports, PHY Loopback..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=e Count=1
$done

#Traffic Test
echo "Running Traffic Test in MAC mode on E ports..."
tr 72 RunMode=MAC PortBitMap=e TimeInSeconds=3
$done

echo "Running Traffic Test in PHY mode on E ports..."
tr 72 RunMode=PHY PortBitMap=e TimeInSeconds=3
$done

echo "Running TX Reload Test..."
tr 90
$done

echo "Running RX Reload Test..."
tr 91
$done

set rct=false
init soc
init misc

echo "Running VLAN Xlate Overflow Insert Test..."
tr 100
$done

echo "Running VLAN Xlate Hashing Test..."
```

```
tr 101 DualEnable=1 DualHash=0 Count=1024
tr 101 DualEnable=1 DualHash=1 Count=1024
tr 101 DualEnable=1 DualHash=2 Count=1024
tr 101 DualEnable=1 DualHash=3 Count=1024
tr 101 DualEnable=1 DualHash=4 Count=1024
tr 101 DualEnable=1 DualHash=5 Count=1024
$done

echo "Running Egress VLAN Xlate Overfloew Insert Test..."
tr 102
$done

echo "Running Egress VLAN Xlate Hashing Test..."
tr 103 DualEnable=1 DualHash=0 Count=1024
tr 103 DualEnable=1 DualHash=1 Count=1024
tr 103 DualEnable=1 DualHash=2 Count=1024
tr 103 DualEnable=1 DualHash=3 Count=1024
tr 103 DualEnable=1 DualHash=4 Count=1024
tr 103 DualEnable=1 DualHash=5 Count=1024
$done

echo "Running MPLS Overflow Insert Test..."
tr 104
$done

echo "Running MPLS Hashing Test..."
tr 105 DualEnable=1 DualHash=0 Count=1024
tr 105 DualEnable=1 DualHash=1 Count=1024
tr 105 DualEnable=1 DualHash=2 Count=1024
tr 105 DualEnable=1 DualHash=3 Count=1024
tr 105 DualEnable=1 DualHash=4 Count=1024
tr 105 DualEnable=1 DualHash=5 Count=1024
$done

echo "Running Software Error Recovery Test ..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo "Tests Complete.  Reinitializing ..."
config refresh
rcload rc.soc
counter off
```

```
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/apsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_brd.h,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo_brd.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/topo_brd.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_access_timna.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_access_timna.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* $Copyright: (c) Broadcom Corporation
* All rights reserved $
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
```

```
* Author: vn-1109210841
*
* t3p1__PkgInt__initDefault(C3Asm3__PkgInt *_p)
*
* static data for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_ucode.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_multicast_fabric.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_llp_cos.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1BEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1BEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_t20e_acc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_t20e_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbucket.c,v 1.72.14.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    sbucket.c
* Purpose: Caladan3 TAPS sram bucket driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/sbucket.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_flows.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_flows.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  This cint contains basic functions to create and connect voq / voq connector for a single port
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_voq_connection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph.c,v 1.269 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       triumph.c
```

```
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_framework.c,v 1.123 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_framework.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sat.c,v 1.34.4.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*  sat.c
*
* Purpose:
*  SAT implementation for SABER2 family of devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/saber2/sat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ped.c,v 1.18.20.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    ped.c
* Purpose: Caladan3 Packet Editor drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ped.c

No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra28_reg_access.c 2014/12/18 Aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibMvtEntry.hx,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbZfG2EplibMvtEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: apache.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       apache.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_elements.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_elements.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dnxc_mbist.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_mbist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_ddr23.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_ddr.h
* Purpose:     Sirius ddr definitions
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sirius_ddr23.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vulcan_service.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/vulcan_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_api.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: olp_pack.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       olp_pack.c
* Purpose:    OLP pack and unpack routines for:
*             - OLP tx/rx header
*
*
* OLP control messages
*
* OLP messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The OLP control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/olp_pack.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dpp_multicast_imp.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: sbFe2000CommonInit.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* ******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000CommonInit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_parser.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_parser.c
* Purpose:     CINT parser
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_parser.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr.c,v 1.312 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr.c
* Purpose:     Resource allocation manager for DNX_SAND chips.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/alloc_mngr_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/alloc_mngr_cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/alloc_mngr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcitest.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PCI Tests
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/pcitest.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_vx_shell.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_vx_shell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l2.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: L2 APIs
*
* Purpose:
*     L2 API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_l2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 802.1X
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_pp_lbp_init.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_lbp_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.c,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/hal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriLutEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: slave_config.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    slave_config.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_static_unicast_slave_add
*     bcm_common_ptp_static_unicast_slave_list
*     bcm_common_ptp_static_unicast_slave_remove
*     bcm_common_ptp_static_unicast_slave_table_clear
*     bcm_common_ptp_acceptable_master_add
*     bcm_common_ptp_acceptable_master_enabled_get
*     bcm_common_ptp_acceptable_master_enabled_set
*     bcm_common_ptp_acceptable_master_list
```

```
*     bcm_common_ptp_acceptable_master_remove
*     bcm_common_ptp_acceptable_master_table_clear
*     bcm_common_ptp_acceptable_master_table_size_get
*
*     _bcm_ptp_unicast_slave_table_init
*     _bcm_ptp_unicast_slave_table_detach
*     _bcm_ptp_unicast_slave_table_stack_create
*     _bcm_ptp_unicast_slave_table_clock_create
*     _bcm_ptp_acceptable_master_table_init
*     _bcm_ptp_acceptable_master_table_detach
*     _bcm_ptp_acceptable_master_table_stack_create
*     _bcm_ptp_acceptable_master_table_clock_create
*     _bcm_ptp_unicast_slave_host_reset
*     _bcm_ptp_unicast_slave_stack_restore
*     _bcm_ptp_acceptable_master_table_set
*     _bcm_ptp_add_unicast_slave_announce
*     _bcm_ptp_add_unicast_slave_sync
*     _bcm_ptp_add_unicast_slave_delay_response
*     _bcm_ptp_add_unicast_slave_peer_delay_response
*     _bcm_ptp_remove_unicast_slave_announce
*     _bcm_ptp_remove_unicast_slave_sync
*     _bcm_ptp_remove_unicast_slave_delay_response
*     _bcm_ptp_remove_unicast_slave_peer_delay_response
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/slave_config.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_ddr_test_suite.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_ddr_test_suite.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwDstEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwDstEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
```

* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwDstEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pon_additional_tpid.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_additional_tpid.c
* Purpose: An example of how to use additional TPID for NNI port of PON application.
* The following CINT provides a calling sequence example to set the different tunnel_id to be mapped to different LLID profile and bring up one main PON services 1:1 Model.
* ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers 0-7).
* Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service (ONU), and class of service.
* Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link Identification (LLID), i.e., service or ONU#.
* We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is prepended to the VLAN-Tag stack (as the outermost tag).
* Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
* When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
* When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
* 1. PON regular initial routine
* - call pon_app_init()
*
* 2. Create PON PP port with different PON tunnel profile id 0.
* - call bcm_port_pon_tunnel_add()
* 3. Map tunnel id 1000/1001 to PON PP port 5 (indirectly mapped to PON tunnel profile id 0).
* - call bcm_port_pon_tunnel_map_set()
* 4. Set TPIDs (0x8100, 0x9100) to PON pp port 5.
* - call bcm_port_tpid_delete_all()
* - call bcm_port_tpid_add()
* - call bcm_port_inner_tpid_set()
* 5. Set VLAN domain of PON pp port 5 to 5.
* - call bcm_port_class_set()
* 6. Enable additional port tunnel lookup in PON PP port 5.
* - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable

```
*
*  7. Create PON PP port with different PON tunnel profile id 1.
*       - call bcm_port_pon_tunnel_add()
*  8. Map tunnel id 1002/1003 to PON PP port 13 (indirectly mapped to PON tunnel profile id 1).
*       - call bcm_port_pon_tunnel_map_set()
*  9. Set TPIDs (0x8100, 0x88a8) to PON pp port 13.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  10. Set VLAN domain of PON pp port 13 to 13.
*       - call bcm_port_class_set()
*  11. Enable additional port tunnel lookup in PON PP port 13.
*       - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable
*
*  12. Add additional TPID to global table.
*       - call bcm_switch_tpid_add()
*
* 1:1 Service:
* Set up sequence:
*  1. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN
*  2. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  3. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  4. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  5. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
* 1:1 Service:
*     N(1) PON Port 5  <-------------------------------------------  CrossConnect  ----------------> 1 NNI Port 129
*     Tunnel-ID 1000 Outer TPID 0x9100 CVLAN 20 PON_PP_PORT 5 <-------------------------------------> Outer
TPID 0x88a8 CVLAN 200
*     Tunnel-ID 1001 Outer TPID 0x9100 CVLAN 30 PON_PP_PORT 5 <-------------------------------------> Outer
TPID 0x9100 CVLAN 300
```

```
*     Tunnel-ID 1001 Outer TPID 0x8100 SVLAN 40 Inner TPID 0x9100 CVLAN 41 PON_PP_PORT 5 <-----------
-> Outer TPID 0x8100 SVLAN 400 Inner TPID 0x9100 CVLAN 401
*
*     Tunnel-ID 1002 Outer TPID 0x88a8 CVLAN 50 PON_PP_PORT 13 <------------------------------------> Outer
TPID 0x88a8 CVLAN 500
*     Tunnel-ID 1002 Outer TPID 0x88a8 CVLAN 60 PON_PP_PORT 13 <------------------------------------> Outer
TPID 0x9100 CVLAN 600
*     Tunnel-ID 1003 Outer TPID 0x8100 CVLAN 70 Inner TPID 0x88a8 CVLAN 71 PON_PP_PORT 13 <----------
-> Outer TPID 0x8100 SVLAN 700 Inner TPID 0x9100 CVLAN 701
*     Tunnel-ID 1003 Outer TPID 0x8100 CVLAN 80 Inner TPID 0x88a8 CVLAN 81 PON_PP_PORT 13 <----------
-> Outer TPID 0x8100 SVLAN 800 Inner TPID 0x88a8 CVLAN 801
*
* Traffic:
*  1. PON Port 5 PON PP Port 5 Tunnel-ID 1000 Outer TPID 0x9100 CVLAN 20 <-CrossConnect-> NNI Port 129
Outer TPID 0x88a8 CVLAN 200
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x9100, VID = 20
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x88a8, VID = 200
*
*  2. PON Port 5 PON PP Port 5 Tunnel-ID 1000 Outer TPID 0x9100 CVLAN 30 <-CrossConnect-> NNI Port 129
Outer TPID 0x9100 CVLAN 300
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x9100, VID = 30
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x9100, VID = 300
*
*  3. PON Port 5 PON PP Port 5 Tunnel-ID 1000 Outer TPID 0x8100 SVLAN 40 Inner TPID 0x9100 CVLAN 41
<-CrossConnect-> NNI Port 129 Outer TPID 0x8100 SVLAN 400 Inner TPID 0x9100 CVLAN 401
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 40, VLAN tag type 0x9100, VID = 41
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 401, VLAN tag type 0x9100, VID = 401
*
*  4. PON Port 5 PON PP Port 13 Tunnel-ID 1000 Outer TPID 0x88a8 CVLAN 50 <-CrossConnect-> NNI Port 129
Outer TPID 0x9100 CVLAN 500
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
```

```
*           -   VLAN tag: VLAN tag type 0x88a8, VID = 50
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x88a8, VID = 500
*
*  5. PON Port 5 PON PP Port 13 Tunnel-ID 1000 Outer TPID 0x88a8 CVLAN 60 <-CrossConnect-> NNI Port 129
Outer TPID 0x88a8 CVLAN 600
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x88a8, VID = 60
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x88a8, VID = 600
*
*  6. PON Port 5 PON PP Port 13 Tunnel-ID 1000 Outer TPID 0x8100 SVLAN 70 Inner TPID 0x88a8 CVLAN 71
<-CrossConnect-> NNI Port 129 Outer TPID 0x8100 SVLAN 700 Inner TPID 0x9100 CVLAN 701
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 70, VLAN tag type 0x88a8, VID = 71
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 701, VLAN tag type 0x9100, VID = 701
*
*  7. PON Port 5 PON PP Port 13 Tunnel-ID 1000 Outer TPID 0x8100 SVLAN 80 Inner TPID 0x88a8 CVLAN 81
<-CrossConnect-> NNI Port 129 Outer TPID 0x8100 SVLAN 800 Inner TPID 0x88a8 CVLAN 801
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 80, VLAN tag type 0x88a8, VID = 81
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 801, VLAN tag type 0x88a8, VID = 801
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_additional_tpid.c
*     BCM> cint
*     cint> pon_additional_tpid_service_init(unit, pon_port, nni_port);
*     cint> pon_additional_tpid_1_1_service(unit);
*     cint> pon_additional_tpid_1_1_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_additional_tpids.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag.h
No license file was found, but licenses were detected in source scan.

```
# $Id: td2sanity.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident2 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

if $?BCM56750_A0  || $?BCM56750_A1 || $?BCM56750_A2 \
   'local titan2 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'
```

```
# Avoid link messages while testing
linkscan off

init
init misc
memscan off

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

init soc;
```

```
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_RR_SELECTION_POINTER'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ETAG_PCP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES_X'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
```

```
# [NOTEST] local mem 'EGR_MMU_REQUESTS'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_MMU_REQUESTS_X'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_MMU_REQUESTS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_NAT_PACKET_EDIT_INFO'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_PORT_REQUESTS'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_PORT_REQUESTS_X'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_PORT_REQUESTS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
# [NOTEST] local mem 'EGR_SER_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFT_FIELDS_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE_LP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VP_VLAN_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VSAN_INTPRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ENDPOINT_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ENDPOINT_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ES_PIPE0_LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_PORT_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_PORT_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_PORT_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE0_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ES_PIPE1_LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_PORT_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_PORT_MEMA_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_PORT_MEMB_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ES_PIPE1_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'FCOE_HOP_COUNT_FN'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_PROFILE'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'FP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_STORM_CONTROL_METERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_STORM_CONTROL_METERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L0_ACCUM_COMP_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L0_ACCUM_COMP_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L0_CREDIT_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L0_CREDIT_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L1_ACCUM_COMP_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L1_ACCUM_COMP_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L1_CREDIT_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L1_CREDIT_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L2_ACCUM_COMP_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L2_ACCUM_COMP_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L2_CREDIT_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_SCHED_L2_CREDIT_MEM_1'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'IARB_MAIN_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'IARB_MAIN_TDM_X'; $name; $tr50; $tr51; $tr52;
local mem 'IARB_MAIN_TDM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ACTIVE_L3_IIF_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DNAT_ADDRESS_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ETAG_PCP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_X'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
# {NOTEST] local mem 'ING_SER_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'ING_SNAT_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VFT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VP_VLAN_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VSAN'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENDPOINT_ID'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_LP'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'L2_HITDA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY_X'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY_Y'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'L2_HITSA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY_X'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY_Y'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'L3_DEFIP_ALPM_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1'; $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW'; $name; $tr50; $tr51; $tr52;'
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_AUX_TABLE'; $name; $tr50; $tr51; $tr52;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
 !$?BCM56830_A2 && !$?BCM56834_A0 && \
 !$?BCM56834_A1 && !$?BCM56834_A2 \
 'local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;'
# [BASE TABLE] local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
 !$?BCM56830_A2 && !$?BCM56834_A0 && \
 !$?BCM56834_A1 && !$?BCM56834_A2 \
  'local mem 'L3_DEFIP_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
 !$?BCM56830_A2 && !$?BCM56834_A0 && \
 !$?BCM56834_A1 && !$?BCM56834_A2 \
  'local mem 'L3_DEFIP_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;'
```

```
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;'
# [BASE TABLE] local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;'
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_LP'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;'
```

```
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'LMEP'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'LMEP_DA'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'MAID_REDUCTION'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'MA_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_AGING_MASK_TBL_PIPE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_AGING_MASK_TBL_PIPE1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA52'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA53'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA54'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA55'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA56'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA57'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA58'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA59'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA60'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA61'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA62'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA63'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP0_RESEQ_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP1_RESEQ_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELL_LINK'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_ING_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP0'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP1'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MTRI_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_ENQ_PBI_DB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_EPRG_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'XPIPE_FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'XPIPE_FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'XPIPE_FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'YPIPE_FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'YPIPE_FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'YPIPE_FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MCFP'; $name; $tr50; $tr51; $tr52;
local mem 'MCQDB0'; $name; $tr50; $tr51; $tr52;
local mem 'MCQDB1'; $name; $tr50; $tr51; $tr52;
local mem 'MCQE'; $name; $tr50; $tr51; $tr52;
local mem 'MCQN'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRI_BKPMETERINGBUCKET_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRI_BKPMETERINGBUCKET_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRI_BKPMETERINGCONFIG_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRI_BKPMETERINGCONFIG_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM_1'; $name; $tr50; $tr51; $tr52;
local mem 'PDB0'; $name; $tr50; $tr51; $tr52;
local mem 'PDB1'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKT_LINK'; $name; $tr50; $tr51; $tr52;
local mem 'PORTCNT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE1_MEM'; $name; $tr50; $tr51; $tr52;
#Add delay to avoid schan nak
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'QCN_ENABLE'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'QCN_QFBTB'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'MMU_QCN_QLEN_SHADOW0'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'MMU_QCN_QLEN_SHADOW1'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'QCN_SITB'; $name; $tr50; sleep 1; $tr51; sleep 1; $tr52; sleep 1;
local mem 'REPL_GROUP_INFO0'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP_INFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INITIAL_COPY_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE1'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_0'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_DB_QUEUE_COUNT_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1C'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_BST_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_BST_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_BST_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_CONFIG_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_CONFIG_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_CONFIG_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_XPIPE_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_RESUME_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_RESUME_PORT_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_RESUME_PORT_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_XPIPE_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_BST_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_BST_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_BST_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_CONFIG_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_CONFIG_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_CONFIG_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_RESUME_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_RESUME_PORT_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_RESUME_PORT_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_YPIPE_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQDB0'; $name; $tr50; $tr51; $tr52;
local mem 'UCQDB1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_DROP_THD_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
# [OAM] local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PFS_PACKET_TYPE_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'REPLICATION_FIFO_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'REPLICATION_FIFO_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'RH_ECMP_FLOWSET'; $name; $tr50; $tr51; $tr52;
# [BASE TABLE] local mem 'RH_HGT_DROPS'; $name; $tr50; $tr51; $tr52;
local mem 'RH_HGT_DROPS_X'; $name; $tr50; $tr51; $tr52;
local mem 'RH_HGT_DROPS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'RH_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'RH_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'RH_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'RH_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'RH_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
```

```
# [OAM] local mem 'RMEP'; $name; $tr50; $tr51; $tr52;
local mem 'RQE_FREE_LIST'; $name; $tr50; $tr51; $tr52;
local mem 'RQE_LINK_LIST'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SER_MEMORY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_RT1_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_RT1_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_RT2_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_RT2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_SH1_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_SH1_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_SH2_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS_SH2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG0_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG0_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG1_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG1_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG2_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_Y'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDI_PORT_SP_CONFIG2_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_Y'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_X'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_Y'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_RAM'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MAC'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE_LP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;
local mem 'XLPORT_WC_UCMEM_DATA'; $name; $tr50; $tr51; $tr52;

# TCAM tables
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GM_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'IP_MULTICAST_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
```

```
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;'
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;

# Single entry tables
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
# [NOTEST] local mem 'DLB_HGT_MEMBER_HW_STATE'; $name; $tr50;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'EGR_FCOE_CONTROL_1'; $name; $tr50;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_IPV6_MC_RESERVED_ADDRESS'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr50;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr50;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr50;
```

```
local mem 'L2_LEARN_INSERT_FAILURE'; $name; $tr50;
local mem 'L3_DEFIP_AUX_SCRATCH'; $name; $tr50;
local mem 'LINK_STATUS'; $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
# [BASE TABLE] local mem 'RH_ECMP_DROPS'; $name; $tr50;
local mem 'RH_ECMP_DROPS_X'; $name; $tr50;
local mem 'RH_ECMP_DROPS_Y'; $name; $tr50;
# [BASE TABLE] local mem 'RH_LAG_DROPS'; $name; $tr50;
local mem 'RH_LAG_DROPS_X'; $name; $tr50;
local mem 'RH_LAG_DROPS_Y'; $name; $tr50;
local mem 'SER_RESULT_0'; $name; $tr50;
local mem 'SER_RESULT_1'; $name; $tr50;
local mem 'SER_RESULT_DATA_0'; $name; $tr50;
local mem 'SER_RESULT_DATA_1'; $name; $tr50;
local mem 'SER_RESULT_EXPECTED_0'; $name; $tr50;
local mem 'SER_RESULT_EXPECTED_1'; $name; $tr50;
# [BASE TABLE] local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRILL_DROP_STATS_X'; $name; $tr50;
local mem 'TRILL_DROP_STATS_Y'; $name; $tr50;

init misc
memscan off

# tables require MISCCONFIG.INIT_MEM
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;

# tables require port mapping
# [BASE TABLE] local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr50; $tr51; $tr52;
```

```
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';

init soc

local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_RR_SELECTION_POINTER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
# [BASE TABLE] local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ETAG_PCP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES_X'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MAX_USED_ENTRIES_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MMU_REQUESTS'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MMU_REQUESTS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_MMU_REQUESTS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_NAT_PACKET_EDIT_INFO'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_PORT_REQUESTS'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_PORT_REQUESTS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_PORT_REQUESTS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'EGR_SER_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFT_FIELDS_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE_LP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VP_VLAN_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VSAN_INTPRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ENDPOINT_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ENDPOINT_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L0_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L1_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_L2_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_PORT_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_PORT_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_PORT_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_PORT_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_LLS_PORT_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_TDM_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE0_TDM_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L0_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L1_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_L2_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_PORT_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_PORT_MEMA_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_PORT_MEMB_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_PORT_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_LLS_PORT_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_TDM_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ES_PIPE1_TDM_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FCOE_HOP_COUNT_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_MAP_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'FP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L0_ACCUM_COMP_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L0_ACCUM_COMP_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L0_CREDIT_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L0_CREDIT_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L1_ACCUM_COMP_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L1_ACCUM_COMP_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L1_CREDIT_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L1_CREDIT_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L2_ACCUM_COMP_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L2_ACCUM_COMP_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L2_CREDIT_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HSP_SCHED_L2_CREDIT_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'IARB_MAIN_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_MAIN_TDM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_MAIN_TDM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ACTIVE_L3_IIF_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DNAT_ADDRESS_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ETAG_PCP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
# [BASE TABLE] local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [NOTEST] local mem 'ING_SER_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'ING_SNAT_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_HIT_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_HIT_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VFT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VP_VLAN_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VSAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENDPOINT_ID'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_LP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'L2_HITDA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'L2_HITSA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'L3_DEFIP_ALPM_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1'; $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW'; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_AUX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
 !$?BCM56830_A2 && !$?BCM56834_A0 && \
```

```
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
# [BASE TABLE] local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_HIT_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_HIT_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
# [BASE TABLE] local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_HIT_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_DEFIP_PAIR_128_HIT_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_HIT_ONLY_X'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_HIT_ONLY_Y'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
```

```
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_LP'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
   'local mem 'L3_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'LMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'LMEP_DA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'MAID_REDUCTION'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'MA_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AGING_CTR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AGING_EXP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_AGING_MASK_TBL_PIPE0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_AGING_MASK_TBL_PIPE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA8'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA9'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA10'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA11'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA12'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA13'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA14'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA15'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'CBPDATA16'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA17'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA18'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA19'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA20'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA21'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA22'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA23'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA24'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA25'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA26'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA27'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA28'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA29'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA30'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA31'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA32'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA33'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA34'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA35'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA36'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA37'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA38'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA39'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA40'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA41'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA42'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA43'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA44'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA45'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA46'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA47'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA48'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA49'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA50'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA51'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA52'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA53'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA54'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA55'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA56'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA57'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA58'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA59'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA60'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA61'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA62'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CBPDATA63'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CCP0_RESEQ_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP1_RESEQ_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CCP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CELL_LINK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_COLOR_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_ING_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_MC_DROP0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_MC_DROP1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_MTRI_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CTR_UC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQ_PBI_DB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_EPRG_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BASE_INDEX_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_ST_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_ST_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_ST_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MERGE_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OFFSET_MAP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PFC_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ST_TRANS_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'XPIPE_FC_MAP_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'XPIPE_FC_MAP_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'XPIPE_FC_MAP_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'YPIPE_FC_MAP_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'YPIPE_FC_MAP_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'YPIPE_FC_MAP_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'QCN_CNM_TIMER_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'QCN_TBID_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'QCN_TOV_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MCFP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MCQDB0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MCQDB1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MCQE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MCQN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRI_BKPMETERINGBUCKET_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRI_BKPMETERINGBUCKET_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRI_BKPMETERINGCONFIG_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRI_BKPMETERINGCONFIG_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L2_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L2_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L0_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L0_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L1_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L1_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L2_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_CONFIG_L2_MEM_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PDB0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PDB1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PKTHDR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PKT_LINK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORTCNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PQE0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PQE1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#Add delay to avoid schan nak
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_CPQST_QLEN'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_CPQST_TSSLS'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_ENABLE'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_ENABLE'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_QFBTB'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'MMU_QCN_QLEN_SHADOW0'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'MMU_QCN_QLEN_SHADOW1'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'QCN_SITB'; $name; $tr71_1; sleep 1; $tr71_2; sleep 1; $tr71_3; sleep 1;
local mem 'REPL_GROUP_INFO0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'REPL_GROUP_INFO1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INITIAL_COPY_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'REPL_HEAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPMC_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_0C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_DB_PORTSP_CONFIG_1C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_0C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_1C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_0C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_1C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_0C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_1C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_0C'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_1C'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_BST_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_BST_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_BST_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_CONFIG_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_CONFIG_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_CONFIG_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_COUNTER_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_COUNTER_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_COUNTER_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_OFFSET_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_OFFSET_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_RESUME_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_RESUME_PORT_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_RESUME_PORT_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_RESUME_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_XPIPE_RESUME_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_BST_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_BST_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_BST_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_CONFIG_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_CONFIG_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_CONFIG_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_COUNTER_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_COUNTER_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_COUNTER_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_OFFSET_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_OFFSET_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_RESUME_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_RESUME_PORT_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_RESUME_PORT_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_RESUME_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_YPIPE_RESUME_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UCQDB0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UCQDB1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_WRED_CONFIG_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_QGROUP_DROP_THD_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_QGROUP_DROP_THD_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PFS_PACKET_TYPE_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'REPLICATION_FIFO_BANK0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'REPLICATION_FIFO_BANK1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_ECMP_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
# [BASE TABLE] local mem 'RH_HGT_DROPS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_HGT_DROPS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_HGT_DROPS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RH_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
# [OAM] local mem 'RMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RQE_FREE_LIST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RQE_LINK_LIST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SER_MEMORY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_BST_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_BST_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_RT1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_RT1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_RT2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_RT2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_SH1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_SH1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_SH2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CNTRS_SH2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG0_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG0_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'THDI_PORT_PG_CONFIG_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_PG_CONFIG_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_RAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MAC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE_LP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'XLPORT_WC_UCMEM_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;

# TCAM tables
```

```
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GM_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_MULTICAST_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;'
if !$?BCM56830_A0 && !$?BCM56830_A1 && \
  !$?BCM56830_A2 && !$?BCM56834_A0 && \
  !$?BCM56834_A1 && !$?BCM56834_A2 \
    'local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;

init misc
memscan off

# tables require MISCCONFIG.INIT_MEM
local mem 'MMU_CFAP_BANK0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CFAP_BANK8'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK15'; $name; $tr71_1; $tr71_2; $tr71_3;

# tables require port mapping
# [BASE TABLE] local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;

$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#if !$?titan2 \
#    'echo "Testing CPU DMA loopback ..." \
#     tr 17 \
#     $done'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
```

```
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=10G
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=10G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
if !$?titan2 \
  'echo "Running internal snake on all ports, MAC loopback ..."; \
   tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe; \
   $done'

if !$?titan2 \
  'echo "Running internal snake on all ports, PHY loopback ..."; \
   tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe; \
   $done'

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=xe
$done
```

```
echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=xe
$done

echo "Running Software Error Recovery Test ..."
linkscan off
tr 144
$done


# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
```

```
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/td2sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_pkt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == sbx_pkt.h - SBX Packet Class Functions ==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/sbx_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph2.c,v 1.155 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       triumph2.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph2.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
*$Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ca_c2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv6ClassEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassIPv6ClassEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   general include files

File Name:
   ag_macros.h

File Description:
   contain general purpose macros

$Revision: 1.1.2.1 $  - Visual SourceSafe automatic revision number

History:
   Date          Name          Comment
   ----          ----          -------
   3/7/00        Gadi Admoni    initial version
   22/1/00       Gadi Admoni    Added AG_ to all macros.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_macros.h

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53134_a0.c
* Purpose: bcm53134_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53134_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cop_test4.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cop_test4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       robo.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* MMU/Cosq soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_jer_additional_tpids.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_jer_additional_tpids.c
* Purpose: An example of Jericho additional TPID usage.
*          The following CINT provides a calling sequence example to set additional TPIDs.
*
* Calling sequence:
*
* Initialization:
*  1. Set ports to recognize single stag and single ctag frames.
*      - call port_tpid_init();
*      - call bcm_port_tpid_add();
*  2. Add Ports to VLAN x.
*      - call bcm_vlan_create();
*      - call bcm_vlan_port_add();
*  3. Add additional TPIDs.
*      - Call bcm_switch_tpid_add() with following criterias:
*        bcmTpidTypeOuter, bcmTpidTypeInner
*  4. Get the first outer and inner additional TPIDs.
*      - Call bcm_switch_tpid_get() with following criterias:
*        bcmTpidTypeOuter, bcmTpidTypeInner
*  5. Get all additional TPIDs.
*      - Call bcm_switch_tpid_get_all();
*  6. Delete additional TPIDs one by one.
*      - Call bcm_switch_tpid_delete() with following criterias:
*        bcmTpidTypeOuter, bcmTpidTypeInner
*  7. Delete all additional TPIDs.
*      - Call bcm_switch_tpid_delete_all();
*
* Clean up sequence:
*  1. Remove port from VLAN X.
*      - Call bcm_vlan_port_remove();
*  2. Destroy VLAN X.
*      - Call bcm_vlan_destroy()
*  3. Delete all additional TPIDs.
*      - Call additional_tpid_delete_all();
*
```

```
* Service Model:
*    Port 13       <-----------------  VLAN 100-----------> Port 14
*    TPID 0x8100 <-------------------------------------> TPID 0x8100
*    TPID 0x9100 <-------------------------------------> TPID 0x8100
*    TPID 0x8200 <-------------------------------------> TPID 0x8100
*    TPID 0x9200 <-------------------------------------> TPID 0x8100
*    TPID 0x8300 <-------------------------------------> TPID 0x8100
*    TPID 0x9300 <-------------------------------------> TPID 0x8100
*
* Traffic:
*  1. Port 13 <-VLAN 100-> Port 14
*      - From PON port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x8100, VID = 100
*      - From NNI port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x8100, VID = 100
*
*  2. Port 13 <-VLAN 100-> Port 14
*      - From PON port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x9100, VID = 100
*      - From NNI port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x9100, VID = 100
*
*  3. Port 13 <-VLAN 100-> Port 14
*      - From PON port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x8200, VID = 100
*      - From NNI port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x8200, VID = 100
*
*  4. Port 13 <-VLAN 100-> Port 14
*      - From PON port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x9200, VID = 100
*      - From NNI port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x9200, VID = 100
*
*  1. Port 13 <-VLAN 100-> Port 14
*      - From PON port:
*          - ethernet header with any DA, SA
*          - VLAN tag: VLAN tag tpid 0x8300, VID = 100
*      - From NNI port:
*          - ethernet header with any DA, SA
```

```
*            -   VLAN tag: VLAN tag tpid 0x8300, VID = 100
*
*  1. Port 13 <-VLAN 100-> Port 14
*       - From PON port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag tpid 0x9300, VID = 100
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag tpid 0x9300, VID = 100
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_jer_additional_tpids.c
*     BCM> cint
*     cint> additional_tpid_service(unit, port_1, port_2, vlan);
*     cint> additional_tpid_service_cleanup(unit, port_1, port_2);
*     cint> additional_tpid_add(unit);
*     cint> additional_tpid_get(unit);
*     cint> additional_tpid_get_all(unit);
*     cint> additional_tpid_delete(unit);
*     cint> additional_tpid_delete_all(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_additional_tpids.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_mpls_x_presel.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mpls_x_presel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_status.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 WARM BOOT H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_warm_boot.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2.h,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident2.h
* Purpose:     Function declarations for Trident2 Internal functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trident2.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbxhigig-bcmsim.bcm,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX Higig Application systems.
# config-sbxhigig-bcmsim.bcm
#

os=unix

# Maximum number of COSes
bcm_num_cos=8

# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# Maximum number of modules in the system (number of XGS + SBX)
num_modules=10

# Set the FE HiGig application support
ucode_feature_hg=1
diag_cosq_init=2
qe_tme_mode=1

# The maximum number of consecutive timeslots a QE can hold
# priority for transmitting packets which cross timeslots.
hold_pri_max_timeslots=1
```

```
# Declare the fabric control ports on the BME (Unit 2)
#
#           +--- port (one based)
#           | +--- unit
#           | | +--- is SCI
#           | | |
#           v v v
port_is_sci.port1.2=1

# By default, run in standalone mode
diag_chassis=0

# Logging can be pointed to a file:
#diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
qe_spi_0.0=15
qe_spi_1.0=0

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
qe_spi_1_subport_speed.port13.0=10000

# This property must be present for ucode_port properties to be used
# Otherwise, a default front panel to ucode to system port mapping is used
#ucode_num_ports.1=1

# The FE-2000 ucode port property values have the form:
#       fport:sysport
# Where ports are of the form:
#       gex.y      GbE ports, x=0,1, y=0-11
#       xex.y      XG/HG ports, x=0,1, y=0
#       spix.y     SPI-4.2 ports, x=0-1, y=0-63
#       pcix       CPU port, x=0
#
# The `fport' is the front-side port, and the `sysport' is the
# system-side port.
# Most system configurations use a QE-2000 CPU port,
# so the PCI port is typically not mapped to a microcode port.
#
# Note that an attached QE-2000 SPI port mapping must be
# `synchronized' with the FE-2000 SPI port mapping to ensure
# consistent SPI port calendars.  If SPI training fails, this
# is typically because the FE & QE have different calendar
# lengths.
```

```
#
# Here is an example configuration with 4 front-side ports
#
#qe_spi_0.0=4
#qe_spi_1.0=0
#ucode_num_ports.1=4
#ucode_port.port1.1=ge0.0:spi0.0
#ucode_port.port2.1=xe0.0:spi0.1
#ucode_port.port3.1=spi1.0:spi0.2
#ucode_port.port4.1=pci0:spi0.3

# To map a microcode port to HG port
#ucode_port.port5.1=hg0:spi0.13

# FE PCI does not deliver an ERH on receive
rx_parse_erh.1=0

# Set these to indicate the FE-2000 wide memory ports are
# connected to 2 x18 RAMs.  Otherwise they are assumed to
# connect to 1 x 36 RAM
# Broadcom MetroCore FE-2000 reference design uses 2 x18 RAMs
wide_sram0_x18=1
wide_sram1_x18=1

# Needed for sbx diags.
# FE2k reference design uses 4M parts but are only addressable to 2M
# np, 4Mx18 will look like 2Mx36 (FE reads 36 bits (2x18) in one cycle)
# wp, 2(4Mx18) will look like 2Mx72 (FE reads 72 (2x36) bits in one cycle)
wp_addr_width=21
wp_data_width=36
np0_data_width=18
np0_addr_width=21
np1_data_width=18
np1_addr_width=21

qe_mvt_old_configuration=0

# To have both XEs as HiGig use
# remove this line or pbmp_xport_xe 0x0
pbmp_xport_xe=0x1000000

# This is needed only for 12G HiGig
xgxs_lcpll_12gbps=1

# memory table configurations
# These are defaults:
#smac_pyld_percent=25
#dmac_pyld_percent=25
```

```
#ipv4_sa_pyld_percent=25
#ipv4_da_pyld_percent=25
#ipv4mc_sg_pyld_percent=10
#ipv4mc_g_pyld_percent=10

#All ports are on SPI0
ucode_num_ports.1=32
ucode_port.port1.1=ge0.0:spi0.0
ucode_port.port2.1=ge0.1:spi0.1
ucode_port.port3.1=ge0.2:spi0.2
ucode_port.port4.1=ge0.3:spi0.3
ucode_port.port5.1=ge0.4:spi0.4
ucode_port.port6.1=ge0.5:spi0.5
ucode_port.port7.1=ge0.6:spi0.6
ucode_port.port8.1=ge0.7:spi0.7
ucode_port.port9.1=ge0.8:spi0.8
ucode_port.port10.1=ge0.9:spi0.9
ucode_port.port11.1=ge0.10:spi0.10
ucode_port.port12.1=ge0.11:spi0.11
#ucode_port.port13.1=ge1.0:spi0.12
#ucode_port.port14.1=ge1.1:spi0.13
#ucode_port.port15.1=ge1.2:spi0.14
#ucode_port.port16.1=ge1.3:spi0.15
#ucode_port.port17.1=ge1.4:spi0.16
#ucode_port.port18.1=ge1.5:spi0.17
#ucode_port.port19.1=ge1.6:spi0.18
#ucode_port.port20.1=ge1.7:spi0.19
#ucode_port.port21.1=ge1.8:spi0.20
#ucode_port.port22.1=ge1.9:spi0.21
#ucode_port.port23.1=ge1.10:spi0.22
#ucode_port.port24.1=ge1.11:spi0.23
ucode_port.port25.1=xe1.0:spi0.12
ucode_port.port26.1=xe0.0:spi0.14
#ucode_port.port27.1=spi0
#ucode_port.port28.1=spi1
ucode_port.port32.1=pci0:spi0.13
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbxhigig-bcmsim.bcm
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: qtce.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier2/qtce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sal.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sal.c
* Purpose: Defines sal routines for user-mode Unix targets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/unix/sal.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ecmp_hashing.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ECMP hashing example script
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ecmp_hashing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgSrcId.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgSrcId.hx
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane SDRAM controller core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbsdram.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbsdram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_sbusdma_desc.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/legacy/JER/jer_sbusdma_desc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcast.c
* Purpose:     Tracks and manages L2 Multicast tables.
*
* NOTE: These are empty stubs because the standard bcm_mcast layer
* calls are not intended for programming a fabric chip.
* Fabric device mcast programming should use the bcm_mcast_bitmap_* APIs.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: source_routed_cint.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hand-coded support for soc_dpp routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/source_routed_cint.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allenum.h
* Purpose: Enumerated types for fields, memories, registers
* Supports: bcm53242_a0
```

```
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/allenum.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_quadra28_internal.c                              *
*  Created On    :  13/02/2014                                              *
*  Created By    :  Justin Gaither                                          *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: merlin_quadra28_internal.c 947 2015-03-06 21:11:44Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_internal_c.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dm.h,v 1.4.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TMU DM defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/dm.h
No license file was found, but licenses were detected in source scan.

```
/*

* $Id: dnxf_drv.c,v 1.87 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_drv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vlan_edit_port_default_lif.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_edit_port_default_lif.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ref_sys.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/ref_sys.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.88 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* QoS module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpV6TciConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpV6TciConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ac_fec_facility_protection.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ac_fec_facility_protection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/cfp.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     switch.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQueueTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Triumph2 L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_create.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       topo_create.c
* Purpose:     Local topology calculator
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/topo_create.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_cnt.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_cnt.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mmu_config.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CMAC driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/mmu_config.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_info_access.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/bsp_info_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_j.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_j.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_sand.h
* Purpose:    Conversion between BCM and DNX_SAND types, and common macros/function for
*             handling Dune's code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmdevs.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* Broadcom device-specific manifest constants.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmdevs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: system.c,v 1.237 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/system.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dev.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/lotus/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vulcan/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird/dev.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeRateEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeRateEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod_defines.h#11 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*  Description: define enumerators and qmod_st
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.217 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     XGS3 port function implementations
*
* int bcm_xgs3_port_cfg_init(int unit, bcm_port_t port, bcm_vlan_data_t *vd)
* int bcm_xgs3_port_cfg_get(int unit, bcm_port_t port, bcm_port_cfg_t *cfg)
* int bcm_xgs3_port_cfg_set(int unit, bcm_port_t port, bcm_port_cfg_t *cfg)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/port.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 2x10g_3xhg10_6x1g-ilkn50
# $Id: Broadcom SDK $
# Note A-B

pci_override_dev=0x34

# Default microcode is g3p1
```

```
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# Use the common mode baseline TDM for this specific TDM instance
bcm88030_config.0=44

#
# ucode ports definition
#
ucode_num_port_override.0=1
ucode_num_ports.0=37


# ====================================================
# WC 0
# ====================================================
# Lane 0 (not being used in this use-case; phantom for proper initilization of WC)
#
ucode_port.port1.0=clport0.xe.0.0:il1.il50n.0.0

# Lane 1
# (uses 8 Qs)
ucode_port.port2.0=clport0.hg10.0.1-1:il1.il50n.0.1
ucode_port.port3.0=clport0.hg10.0.1-1:il1.il50n.0.2
ucode_port.port4.0=clport0.hg10.0.1-1:il1.il50n.0.3
ucode_port.port5.0=clport0.hg10.0.1-1:il1.il50n.0.4
ucode_port.port6.0=clport0.hg10.0.1-1:il1.il50n.0.5
ucode_port.port7.0=clport0.hg10.0.1-1:il1.il50n.0.6
ucode_port.port8.0=clport0.hg10.0.1-1:il1.il50n.0.7
ucode_port.port9.0=clport0.hg10.0.1-1:il1.il50n.0.8

# Lane 2
#
ucode_port.port10.0=clport0.ge.0.2:il1.il50n.0.9

# Lane 3
#
ucode_port.port11.0=clport0.ge.0.3:il1.il50n.0.10


# ====================================================
# WC 1
# ====================================================
ucode_port.port12.0=clport0.xe.1.0:il1.il50n.0.11
ucode_port.port13.0=clport0.xe.1.1:il1.il50n.0.12

# Lane 2
```

```
ucode_port.port14.0=clport0.ge.1.2:il1.il50n.0.13

# Lane 3
ucode_port.port15.0=clport0.ge.1.3:il1.il50n.0.14



# ====================================================
# WC 2
# ====================================================
# Lane 0
ucode_port.port16.0=clport0.hg10.2.0-1:il1.il50n.0.15
ucode_port.port17.0=clport0.hg10.2.0-1:il1.il50n.0.16
ucode_port.port18.0=clport0.hg10.2.0-1:il1.il50n.0.17
ucode_port.port19.0=clport0.hg10.2.0-1:il1.il50n.0.18
ucode_port.port20.0=clport0.hg10.2.0-1:il1.il50n.0.19
ucode_port.port21.0=clport0.hg10.2.0-1:il1.il50n.0.20
ucode_port.port22.0=clport0.hg10.2.0-1:il1.il50n.0.21
ucode_port.port23.0=clport0.hg10.2.0-1:il1.il50n.0.22
ucode_port.port24.0=clport0.hg10.2.0-1:il1.il50n.0.23
ucode_port.port25.0=clport0.hg10.2.0-1:il1.il50n.0.24

# Lane 1
ucode_port.port26.0=clport0.hg10.2.1-1:il1.il50n.0.25
ucode_port.port27.0=clport0.hg10.2.1-1:il1.il50n.0.26
ucode_port.port28.0=clport0.hg10.2.1-1:il1.il50n.0.27
ucode_port.port29.0=clport0.hg10.2.1-1:il1.il50n.0.28
ucode_port.port30.0=clport0.hg10.2.1-1:il1.il50n.0.29
ucode_port.port31.0=clport0.hg10.2.1-1:il1.il50n.0.30
ucode_port.port32.0=clport0.hg10.2.1-1:il1.il50n.0.31
ucode_port.port33.0=clport0.hg10.2.1-1:il1.il50n.0.32
ucode_port.port34.0=clport0.hg10.2.1-1:il1.il50n.0.33
ucode_port.port35.0=clport0.hg10.2.1-1:il1.il50n.0.34


# Lane 2
ucode_port.port36.0=clport0.ge.2.2:il1.il50n.0.35

# Lane 3
ucode_port.port37.0=clport0.ge.2.3:il1.il50n.0.36



#=========================================================================


# Required so phy comes up in SGMII and NOT QSGMII
serdes_qsgmii_sgmii_override_ge0=2
```

```
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2
serdes_qsgmii_sgmii_override_ge4=2
serdes_qsgmii_sgmii_override_ge5=2


diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032

xgxs_rx_lane_map_hg8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210

xgxs_tx_lane_map_hg8=0x1032


phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001

phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001


phy_fiber_pref_ge=1
phy_automedium_ge=1


#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
#XXXTBD
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312
```

```
higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg8=1


# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0


# System .21
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x95959797,0x99999797
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10.0=0x00a1a3a0,0x009ea19b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci10.0=0x99999292,0x98989494
ddr3_tune_rd_en_ci2.0=0x009b9b9c,0x009fa19d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000ae
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
```

ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a999b,0x00979a95
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x92929898,0x97979393
ddr3_tune_rd_dqs_ci0.0=0x91919696,0x96969797
ddr3_tune_rd_en_ci4.0=0x00999999,0x00959694
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_vref_ci14.0=0x0000075d
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989899,0x009a9e97
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci14.0=0x95959999,0x99999292
ddr3_tune_rd_dqs_ci2.0=0x91919797,0x96969696
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000ae
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_wl0_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484

ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci4.0=0x97979191,0x97979898
ddr3_tune_rd_en_ci8.0=0x00959596,0x009a9c98
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x90909393,0x99999898
ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x009d9d9e,0x009a9c98
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x91919191,0x91919191
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-2x10g_3xhg10_6x1g-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwPrtEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwPrtEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwPrtEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_llp_filter.c,v 1.5 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_filter.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56639sanity.soc,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph2 (BCM56634) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
```

```
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
```

```
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
```

```
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
```

```
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
```

```
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
```

```
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
```

```
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
```

```
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
```

```
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
```

```
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
```

```
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
```

```
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
```

```
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
```

```
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
```

```
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
```

```
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
```

```
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
```

```
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
```

```
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
```

```
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
```

```
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
```

```
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
```

```
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
```

```
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
```

```
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
```

```
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
```

```
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
```

```
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
```

```
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
```

```
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
```

```
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
```

```
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
```

```
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
```

```
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
```

```
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
```

```
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
```

```
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
```

```
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
```

```
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
```

```
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
```

```
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
```

```
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
```

```
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
```

```
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
```

```
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
```

```
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
```

```
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
```

```
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
```

```
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
```

```
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
```

```
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
```

```
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
```

```
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
```

```
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=100
```

```
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=ge0-ge24,hg
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=ge0-ge24,hg
```

```
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge0-ge24
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge0-ge24
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge0-ge24,hg
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=ge0-ge24,hg
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56639sanity.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: acl_field.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       acl_field.h
* Purpose:
*     Header file for field specific functionality to ACL.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/acl/acl_field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: FileTransCtc.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     FileTransCtc.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/FileTransCtc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: libsoc.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/libsoc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv6ClassEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassIPv6ClassEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       portphy.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/portphy.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/tsc_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueParamEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQueueParamEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_530.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-5.3.0 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/compat/compat_530.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkRuleApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:     TkRuleApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkRuleApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: greyhound.h,v 1.1.8.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       greyhound.h
* Purpose:     Function declarations for Greyhound bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/greyhound.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: iproc.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: iproc.c
* Purpose:  IPROC memory Access Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/iproc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_exact_match.c.internal,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_exact_match.c.internal
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trap.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/trap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/huracan_cfg_seq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_dependencies.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: x1240RtcEeprom.h,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/x1240RtcEeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sample.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_unit/sample.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_flow_control.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: packet.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	packet.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/packet.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/field.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp.c,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_kbp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.22 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     cosq.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpBfPriTableAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_tdm.c, v1 18/11/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: eagle_tsc_fields.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for EAGLE_TSC                                *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_fields.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
```

```
*  File Name     :  eagle2_tsc2pll_field_access.h                                  *
*  Created On    :  29/04/2013                                                     *
*  Created By    :  Kiran Divakar                                                  *
*  Description   :  Serdes IP Register and Field access APIs                       *
*  Revision      :  $Id: eagle2_tsc2pll_field_access.h 1374 2016-03-12 01:19:55Z cvazquez $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
************************************************************************************
************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_field_access.h
No license file was found, but licenses were detected in source scan.

```
/************************************************************************************
************************************************************************************
*  File Name     :  falcon_furia_functions.h                                       *
*  Created On    :  29/04/2013                                                     *
*  Created By    :  Kiran Divakar                                                  *
*  Description   :  Header file with API functions for Serdes IPs                  *
*  Revision      :  $Id: falcon_furia_functions.h 844 2015-01-12 20:58:16Z kirand $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
************************************************************************************
************************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_functions.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyreg.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common PHY register definition.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define PHY register definition.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phyreg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_diag.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
*  Broadcom Switch API
*
*  Robo L2 Switch API compatible with Strata/XGS Enterprise switch API.
*  OS-Independet API Interface
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.c,v 1.2 2011/09/13 07:23:46 mlarsen Exp $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/swapi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_filter.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_filter.h
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ocm_diags_h.stg,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_diags.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_l2.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file provides MPLS PORT basic functionality and defines MPLS_PORT global variables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/examples/dpp/utility/cint_utils_mpls_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.h,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        socdma.h
* Purpose:     Maps out structures used for DMA operations and
*              exports routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dma.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_cell.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_cell.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_ofp_rates.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_pwr_mgt.c                                    *
*  Created On    :  04 Nov 2015                                           *
*  Created By    :  Brent Roberts                                         *
*  Description   :  APIs for Serdes IPs                                   *
```

```
*  Revision     :     *
*                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                    *
*     Broadcom Corporation                                        *
*     5300 California Avenue                                      *
*     Irvine, CA  92617                                         *
*                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                    *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_pwr_mgt.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************************
*******************************************************************************************
*                                                    *
*  Revision     :  $Id: eagle_tsc_common.h 1140 2015-09-18 21:05:29Z kirand $ *
*                                                    *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                    *
*     Broadcom Corporation                                        *
*     5300 California Avenue                                      *
*     Irvine, CA  92617                                         *
*                                                    *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                          *
*                                                    *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_common.h
No license file was found, but licenses were detected in source scan.

```
/*$Copyright: (c) 2013 Broadcom Corporation All Rights Reserved.$*/
```

```
/* $Id: cint_ip_tunnel_term.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_tunnel_term.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_port.c,v 1.37.20.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_port.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Metrolite Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'

counter off
l2mode off
```

```
# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init soc
local done 'echo "   Done";date'

#Display some useful information
date
ver
soc
config show
show portmap
show params
phy info

$done

#Start Test
date
echo "Running PCI Compliance ..."
tr 2
$done

date
echo "Running PCI S-Channel Buf ..."
tr 4
$done

date
echo "Running Register reset defaults ..."
tr 1
$done

init soc
init misc
date
echo "Running Register read/write ..."
tr 3 mask64
$done
date

rcload rc.soc
counter off
```

```
l2mode off
linkscan off
memscan off

date
echo "Running CPU Benchmarks ..."
tr 21
$done

date
set rct=false
# Usage: BCM.0>metrolitesanity_screen w x y z
# (w,x,y,z can be 50,51,52,71) and in any combination
# By default ie. if no arguments provided, only TR 52,71 are run
echo "Running memory tests ..."
if !"expr $1+0 == 50" || !"expr $2+0 == 50" || !"expr $3+0 == 50" || !"expr $4+0 == 50" \
   'rcload tr50_bcm56270_a0.soc'
if !"expr $1+0 == 51" || !"expr $2+0 == 51" || !"expr $3+0 == 51" || !"expr $4+0 == 51" \
   'rcload tr51_bcm56270_a0.soc'
if !"expr $1+0 == 52" || !"expr $2+0 == 52" || !"expr $3+0 == 52" || !"expr $4+0 == 52" \
   'rcload tr52_bcm56270_a0.soc'
if !"expr $1+0 == 71" || !"expr $2+0 == 71" || !"expr $3+0 == 71" || !"expr $4+0 == 71" \
   'rcload tr71_bcm56270_a0.soc'
if !"expr $1+0 == 0" && !"expr $2+0 == 0" && !"expr $3+0 == 0" && !"expr $4+0 == 0" \
   'rcload tr52_bcm56270_a0.soc' \
   'rcload tr71_bcm56270_a0.soc'
$done
date

# Re-initialize to clean up of various read/writes to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

date
echo "Running counter width verification test ..."
tr 30
$done

date
echo "Running counter read/write test ..."
tr 31
$done
```

```
#echo "Running MDIO Linkscan test"
#tr 60
#$done

#echo "Testing CPU DMA loopback ..."
#tr 17
#$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
#$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
#$done

#MAC Loopback
date
echo "Testing MAC Loopback - all XE/GE ports"
tr 18 PortBitMap=xe,ge Speed=max
$done

#echo "Testing MAC Loopback - 100 Gb/s all CE ports"
#tr 18 PortBitMap=ce Speed=100G
#$done

#echo "Testing MAC Loopback - 106 Gb/s all HG ports"
#tr 18 PortBitMap=hg Speed=106G
#$done

#PHY Loopback
#echo "Testing PHY Loopback - all XE/GE ports"
#tr 19 PortBitMap=xe,ge Speed=max
#$done

#echo "Testing PHY Loopback - 100 Gb/s all CE ports"
#tr 19 PortBitMap=ce Speed=100G
#$done

#echo "Testing PHY Loopback - 106 Gb/s all HG ports"
#tr 19 PortBitMap=hg Speed=106G
#$done

#echo "Running MAC loopback V2 on all ports ..."
```

```
#tr 48 PortBitMap=ce,xe
#tr 48 PortBitMap=xe
#$done

#echo "Running PHY loopback V2 on all ports ..."
#tr 49 PortBitMap=ce,xe
#tr 49 PortBitMap=xe
#$done

#Internal snake Loopback
date
echo "Running internal snake on all XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe
$done

#echo "Running internal snake on all XE ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe
#$done

#echo "Running internal snake on all CE ports, MAC loopback ..."
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ce
#$done

#echo "Running internal snake on all CE ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce
#$done

#Traffic Test
date
echo "Running Traffic Test in MAC mode on XE ports..."
tr 72 RunMode=MAC PortBitMap=xe tis=5
$done

#echo "Running Traffic Test in EXTERNAL mode on XE ports with AutoNeg disabled..."
#tr 72 RunMode=EXTERNAL AutoNeg=False PortBitMap=xe
#$done

#echo "Running Traffic Test in PHY mode on XE ports..."
#tr 72 RunMode=PHY PortBitMap=xe tis=5
#$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/metrolitesanity_screen.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN CMICD IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_wb.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_g.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_g.i
No license file was found, but licenses were detected in source scan.

```
/*
* NVRAM variable manipulation
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmnvram.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmnvram.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmnvram.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_conv.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* FILENAME:       soc_sand_conv.h
*
* AUTHOR:         Dune (Y.P.)
*
* FILE DESCRIPTION:
*   SOC_SAND units conversion module
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_conv.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* ==================================================
* ==  sbQe2000ElibMem.c - elib private memory access API  ==
* ==================================================
*
* WORKING REVISION: $Id: sbQe2000ElibMem.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000ElibMem.c
*
* ABSTRACT:
*
*     elib private memory access API
*
* LANGUAGE:
*
*     C
```

```
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     21-December-2004
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbQe2000ElibMem.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: merlin_dino_enum.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                  *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the XMOD API prototypes, structres and defines.
```

```
* This file is intended to be used by both the host software and device fw.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x_xmod_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx_los_db.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RX LOS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/rx_los/rx_los_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: device_wred.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       device_wred.h
* Purpose:    Implement WRED configuration parameter algorithm. This could be
*             shared across devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/device_wred.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPost.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*             additional components necessary for SDK.
*             Includes this file immediately after configAll.h
*             in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/configSdkPost.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcb.h,v 1.6 2015/07/15 00:19:34 Sherry Xiao Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tcb.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_rif.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_rif.h
*
* MODULE PREFIX:  soc_ppd_rif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_rif.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56340sanity.soc,v 1.10 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Helix4 BCM56340 Sanity
#
```

```
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# This sanity script supports 3 SKUs
# 56340:
#       1. 12xF.QSGMII + 4xSGMII + 2xXFI + 2xHGd[21] + 1GE - Default
#       2. 12xF.QSGMII + Flex[4x10] + 2xHG[21] + 1GE - bcm56340_4x10
# 56342:
#       1. 7xF.QSGMII + Flex[4x10] + 2xHG[21] + 1GE  - Default

# Enabling all ports; bcm56340_4x10 SKU
if $?BCM56340_A0 && !"expr $bcm56340_4x10 + 0" \
   'local pbmge 0x3ffffffffffe; local pbmmgmt 0x2000000000000; local pbmhg 0xc0000000000000; \
    local pbmport 0xffffffffffffe; local pbmge25 0x0; local pbmxe 0x3c000000000000; \
    echo "*** 56340 *" '

if $?BCM56340_A0 && "expr $bcm56340_4x10 + 0" \
   'local pbmge 0x3ffffffffffe; local pbmmgmt 0x2000000000000; local pbmhg 0x300000000000000; \
    local pbmport 0x37ffffffffffe; local pbmge25 0x3c000000000000; local pbmxe 0x40000000000000; \
    echo "*** 56340 Base SKU *" '

# local pbmport 0x3ffffffffffffe
# local pbmxe 0xC0000000000000

if $?BCM56342_A0 \
   'local pbmhg 0xc0000000000000; local pbmge 0x1fffffe; local pbmxe 0x3c000000000000; \
    local pbmport 0xc600001fffffe; local pbmmgmt 0x2000000000000; local pbmge25 0x0; \
    echo "*** 56342 *" '

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: Helix4 sanity"
rcload rc.soc
counter off
l2mode off
```

```
# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

if !$?ihost_mode \
   'echo "Running PCI S-Channel Buf ...";\
    tr 4;\
    $done;'

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

hx4_mem.soc
```

```
# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
echo "Running hash mem test ..."
tr 55
$done

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

ps

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 2.5 Gb/s GE 2.5 ports"
```

```
tr 18 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 21 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=21G
$done

echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 2.5 Gb/s GE 2.5 ports"
tr 19 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 21 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg Speed=21G
$done

# tr 48 does not work with mix of port types
echo "Running MAC loopback V2 on GE ports..."
tr 48 pbm=$pbmge speed=1000
$done

echo "Running MAC loopback V2 on XE ports ..."
tr 48 pbm=$pbmxe speed=10G
$done

echo "Running MAC loopback V2 on HG ports ..."
tr 48 pbm=$pbmhg speed=21G
$done

# tr 49 does not work with mix of port types
echo "Running PHY loopback V2 on GE ports ..."
tr 49 pbm=$pbmge speed=1000
$done

echo "Running PHY loopback V2 on XE ports ..."
tr 49 pbm=$pbmxe speed=10G
$done
```

```
echo "Running PHY loopback V2 on HG ports ..."
tr 49 pbm=$pbmhg speed=21G
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

#Traffic Test
echo "Running Traffic Test on GE 2.5 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge25 c=10 sp=2500
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=21G
$done
```

```
echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=21G
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56340sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: driver.h
* Purpose: Chip driver declarations
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
```

```
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/driver.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
* Purpose:     Implementation of bcm multiplexing
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_multicast_fabric.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_multicast_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Triumph L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/l3.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: error.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Error translation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/error.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/error.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pli.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pli.c
*
* Provides:
*     pli_reset_service
*     pli_getreg_service
*     pli_setreg_service
*
* Requires:
*     soc_internal_reset
*     soc_internal_<mem>
*     soc_internal_send_int
*     pcid_dma_stat_write
*     pcid_dma_ctrl_write
*     soc_internal_arl_init
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/pli.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wc40_config.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wc40_config.c
* Purpose:     Perform configuration for Warpcore device.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.c,v 1.51 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
* dma.c
* Requires:
* soc_internal_memory_fetch/store
* soc_internal_send_int
* Provides:
* pcid_dcb_fetch
* pcid_dcb_store
* pcid_dma_tx_start
* pcid_dma_rx_start
* pcid_dma_rx_check
* pcid_dma_start_chan
* pcid_dma_stat_write
* pcid_dma_ctrl_write
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/dma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_trill.h,v 1.8 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_trill.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_trill.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type35.h
* Purpose:    Define dma control block (DCB) format for a type35 DCB
*             used by the 56560 (APACHE)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type35.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: attach.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Attach Application
*
```

```
* A callback suitable for use in the stack task database update
* callback is provided.  It automatically attaches and detaches
* units through the BCM RPC attachments.  A callback mechanism
* is provided to notify users (BCMX for example) that a unit has
* been added or removed.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/attach.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init_deinit.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       init_deinit.c
* Purpose:     DCMN initialization sequence.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/init_deinit.c
No license file was found, but licenses were detected in source scan.

```
# $Id: swirl.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Swirl Setup Script
#
# Configure swirling of packets on consecutive pairs of ports
# Used for EMI testing under full packet TX/RX load
# NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE
```

```
# Ports MUST be configured in external loopback mode with ports
# 1 connected to 2, 3 connected to 4, 5-6,7-8, and so on.
#
# Once this script has been executed, use the commands:
# show counters (or g <counter>.fe) to view statistics.
# Under normal operating mode, you can expect to see TPKT and RPKT
# perpetually incrementing.
#
# Init chip
socrc

# Init ports (100 FDX)
port all AN=T AF=F SP=1000 FD=True TPAU=F RPAU=F LS=SW LRN=5 DISC=None VF=F PRIO=0 PFM=0
PHYM=Auto E=T

# Hardwire EPC_LINK so all ports forward
s epc_link 0xffffffff

# Clear stats
clear counters

# Initialize vtable to zero
clear vtable

#Ports 0-1 configuration
modify ptable 0 1 vlan_tag=1 port_bitmap=0x3 ut_port_bitmap=0x3
modify ptable 1 1 vlan_tag=2 port_bitmap=0x3 ut_port_bitmap=0x3
insert vtable vlan_tag=1 port_bitmap=0x3 ut_port_bitmap=0x3
insert vtable vlan_tag=2 port_bitmap=0x3 ut_port_bitmap=0x3
insert arl mac_addr=1 vlan_tag=2 port=0
insert arl mac_addr=2 vlan_tag=1 port=1
#Packet coming in on p0 and going out on p1 will loop infinitely
tx 1 PBM=0x2 UBM=0x2 L=68 VL=1 P=0x12345678 PI=1 SM=00:00:00:00:00:01 SMI=0 DM=00:00:00:00:00:02
DMI=0 COS=0 CRC=Recompute
# Packet coming in on p1 and out on p0 will give us Full DupleX (0-1)
tx 1 PBM=0x1 UBM=0x1 L=68 VL=1 P=0x12345678 PI=1 SM=00:00:00:00:00:02 SMI=0 DM=00:00:00:00:00:01
DMI=0 COS=0 CRC=Recompute

# Ports 2-3 configuration
modify ptable 2 1 vlan_tag=3 port_bitmap=0xc ut_port_bitmap=0xc
modify ptable 3 1 vlan_tag=4 port_bitmap=0xc ut_port_bitmap=0xc
insert vtable vlan_tag=3 port_bitmap=0xc ut_port_bitmap=0xc
insert vtable vlan_tag=4 port_bitmap=0xc ut_port_bitmap=0xc
insert arl mac_addr=3 vlan_tag=4 port=2
insert arl mac_addr=4 vlan_tag=3 port=3
# Come in on p2 and out on p3
tx 1 PBM=0x8 UBM=0x8 L=68 VL=3 P=0x12345678 PI=1 SM=00:00:00:00:00:03 SMI=0 DM=00:00:00:00:00:04
DMI=0 COS=0 CRC=Recompute
```

```
# FDX (2-3)
tx 1 PBM=0x4 UBM=0x4 L=68 VL=3 P=0x12345678 PI=1 SM=00:00:00:00:00:04 SMI=0 DM=00:00:00:00:00:03
DMI=0 COS=0 CRC=Recompute

# Ports 4-5 configuration
modify ptable 4 1 vlan_tag=5 port_bitmap=0x30 ut_port_bitmap=0x30
modify ptable 5 1 vlan_tag=6 port_bitmap=0x30 ut_port_bitmap=0x30
insert vtable vlan_tag=5 port_bitmap=0x30 ut_port_bitmap=0x30
insert vtable vlan_tag=6 port_bitmap=0x30 ut_port_bitmap=0x30
insert arl mac_addr=5 vlan_tag=6 port=4
insert arl mac_addr=6 vlan_tag=5 port=5
# Come in on p4 and out on p5
tx 1 PBM=0x20 UBM=0x20 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:05 SMI=0
DM=00:00:00:00:00:06 DMI=0 COS=0 CRC=Recompute
# FDX (2-3)
tx 1 PBM=0x10 UBM=0x10 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:06 SMI=0
DM=00:00:00:00:00:05 DMI=0 COS=0 CRC=Recompute

# Ports 6-7 configuration
modify ptable 6 1 vlan_tag=7 port_bitmap=0xc0 ut_port_bitmap=0xc0
modify ptable 7 1 vlan_tag=8 port_bitmap=0xc0 ut_port_bitmap=0xc0
insert vtable vlan_tag=7 port_bitmap=0xc0 ut_port_bitmap=0xc0
insert vtable vlan_tag=8 port_bitmap=0xc0 ut_port_bitmap=0xc0
insert arl mac_addr=7 vlan_tag=8 port=6
insert arl mac_addr=8 vlan_tag=7 port=7
# Come in on p6 and out on p7
tx 1 PBM=0x80 UBM=0x80 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:07 SMI=0
DM=00:00:00:00:00:08 DMI=0 COS=0 CRC=Recompute
# FDX (6-7)
tx 1 PBM=0x40 UBM=0x40 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:08 SMI=0
DM=00:00:00:00:00:07 DMI=0 COS=0 CRC=Recompute

# Ports 8-9 configuration
modify ptable 8 1 vlan_tag=9 port_bitmap=0x300 ut_port_bitmap=0x300
modify ptable 9 1 vlan_tag=10 port_bitmap=0x300 ut_port_bitmap=0x300
insert vtable vlan_tag=9 port_bitmap=0x300 ut_port_bitmap=0x300
insert vtable vlan_tag=10 port_bitmap=0x300 ut_port_bitmap=0x300
insert arl mac_addr=9 vlan_tag=10 port=8
insert arl mac_addr=10 vlan_tag=9 port=9
# Come in on p8 and out on p9
tx 1 PBM=0x200 UBM=0x200 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:09 SMI=0
DM=00:00:00:00:00:0a DMI=0 COS=0 CRC=Recompute
# FDX (8-9)
tx 1 PBM=0x100 UBM=0x100 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0a SMI=0
DM=00:00:00:00:00:09 DMI=0 COS=0 CRC=Recompute

# Ports 10-11 configuration
modify ptable 10 1 vlan_tag=11 port_bitmap=0xc00 ut_port_bitmap=0xc00
```

```
modify ptable 11 1 vlan_tag=12 port_bitmap=0xc00 ut_port_bitmap=0xc00
insert vtable vlan_tag=11 port_bitmap=0xc00 ut_port_bitmap=0xc00
insert vtable vlan_tag=12 port_bitmap=0xc00 ut_port_bitmap=0xc00
insert arl mac_addr=11 vlan_tag=12 port=10
insert arl mac_addr=12 vlan_tag=11 port=11
# Come in on p10 and out on p11
tx 1 PBM=0x800 UBM=0x800 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0b SMI=0
DM=00:00:00:00:00:0c DMI=0 COS=0 CRC=Recompute
# FDX (10-11)
tx 1 PBM=0x400 UBM=0x400 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0c SMI=0
DM=00:00:00:00:00:0b DMI=0 COS=0 CRC=Recompute

# Ports 12-13 configuration
modify ptable 12 1 vlan_tag=13 port_bitmap=0x3000 ut_port_bitmap=0x3000
modify ptable 13 1 vlan_tag=14 port_bitmap=0x3000 ut_port_bitmap=0x3000
insert vtable vlan_tag=13 port_bitmap=0x3000 ut_port_bitmap=0x3000
insert vtable vlan_tag=14 port_bitmap=0x3000 ut_port_bitmap=0x3000
insert arl mac_addr=13 vlan_tag=14 port=12
insert arl mac_addr=14 vlan_tag=13 port=13
# Come in on p12 and out on p13
tx 1 PBM=0x2000 UBM=0x2000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0d SMI=0
DM=00:00:00:00:00:0e DMI=0 COS=0 CRC=Recompute
# FDX (12-13)
tx 1 PBM=0x1000 UBM=0x1000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0e SMI=0
DM=00:00:00:00:00:0d DMI=0 COS=0 CRC=Recompute

# Ports 14-15 configuration
modify ptable 14 1 vlan_tag=15 port_bitmap=0xc000 ut_port_bitmap=0xc000
modify ptable 15 1 vlan_tag=16 port_bitmap=0xc000 ut_port_bitmap=0xc000
insert vtable vlan_tag=15 port_bitmap=0xc000 ut_port_bitmap=0xc000
insert vtable vlan_tag=16 port_bitmap=0xc000 ut_port_bitmap=0xc000
insert arl mac_addr=15 vlan_tag=16 port=14
insert arl mac_addr=16 vlan_tag=15 port=15
# Come in on p14 and out on p15
tx 1 PBM=0x8000 UBM=0x8000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:0f SMI=0
DM=00:00:00:00:00:10 DMI=0 COS=0 CRC=Recompute
# FDX (14-15)
tx 1 PBM=0x4000 UBM=0x4000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:10 SMI=0
DM=00:00:00:00:00:0f DMI=0 COS=0 CRC=Recompute

# Ports 16-17 configuration
modify ptable 16 1 vlan_tag=17 port_bitmap=0x30000 ut_port_bitmap=0x30000
modify ptable 17 1 vlan_tag=18 port_bitmap=0x30000 ut_port_bitmap=0x30000
insert vtable vlan_tag=17 port_bitmap=0x30000 ut_port_bitmap=0x30000
insert vtable vlan_tag=18 port_bitmap=0x30000 ut_port_bitmap=0x30000
insert arl mac_addr=17 vlan_tag=18 port=16
insert arl mac_addr=18 vlan_tag=17 port=17
# Come in on p16 and out on p17
```

```
tx 1 PBM=0x20000 UBM=0x20000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:11 SMI=0
DM=00:00:00:00:00:12 DMI=0 COS=0 CRC=Recompute
# FDX (16-17)
tx 1 PBM=0x10000 UBM=0x10000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:12 SMI=0
DM=00:00:00:00:00:11 DMI=0 COS=0 CRC=Recompute

# Ports 18-19 configuration
modify ptable 18 1 vlan_tag=19 port_bitmap=0xc0000 ut_port_bitmap=0xc0000
modify ptable 19 1 vlan_tag=20 port_bitmap=0xc0000 ut_port_bitmap=0xc0000
insert vtable vlan_tag=19 port_bitmap=0xc0000 ut_port_bitmap=0xc0000
insert vtable vlan_tag=20 port_bitmap=0xc0000 ut_port_bitmap=0xc0000
insert arl mac_addr=19 vlan_tag=20 port=18
insert arl mac_addr=20 vlan_tag=19 port=19
# Come in on p18 and out on p19
tx 1 PBM=0x80000 UBM=0x80000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:13 SMI=0
DM=00:00:00:00:00:14 DMI=0 COS=0 CRC=Recompute
# FDX (18-19)
tx 1 PBM=0x40000 UBM=0x40000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:14 SMI=0
DM=00:00:00:00:00:13 DMI=0 COS=0 CRC=Recompute

# Ports 20-21 configuration
modify ptable 20 1 vlan_tag=21 port_bitmap=0x300000 ut_port_bitmap=0x300000
modify ptable 21 1 vlan_tag=22 port_bitmap=0x300000 ut_port_bitmap=0x300000
insert vtable vlan_tag=21 port_bitmap=0x300000 ut_port_bitmap=0x300000
insert vtable vlan_tag=22 port_bitmap=0x300000 ut_port_bitmap=0x300000
insert arl mac_addr=21 vlan_tag=22 port=20
insert arl mac_addr=22 vlan_tag=21 port=21
# Come in on p20 and out on p21
tx 1 PBM=0x200000 UBM=0x200000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:15 SMI=0
DM=00:00:00:00:00:16 DMI=0 COS=0 CRC=Recompute
# FDX (20-21)
tx 1 PBM=0x100000 UBM=0x100000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:16 SMI=0
DM=00:00:00:00:00:15 DMI=0 COS=0 CRC=Recompute

# Ports 22-23 configuration
modify ptable 22 1 vlan_tag=23 port_bitmap=0xc00000 ut_port_bitmap=0xc00000
modify ptable 23 1 vlan_tag=24 port_bitmap=0xc00000 ut_port_bitmap=0xc00000
insert vtable vlan_tag=23 port_bitmap=0xc00000 ut_port_bitmap=0xc00000
insert vtable vlan_tag=24 port_bitmap=0xc00000 ut_port_bitmap=0xc00000
insert arl mac_addr=23 vlan_tag=24 port=22
insert arl mac_addr=24 vlan_tag=23 port=23
# Come in on p20 and out on p21
tx 1 PBM=0x800000 UBM=0x800000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:17 SMI=0
DM=00:00:00:00:00:18 DMI=0 COS=0 CRC=Recompute
# FDX (20-21)
tx 1 PBM=0x400000 UBM=0x400000 L=68 VL=5 P=0x12345678 PI=1 SM=00:00:00:00:00:18 SMI=0
DM=00:00:00:00:00:17 DMI=0 COS=0 CRC=Recompute
```

```
echo "The LED lights should now be blinking indicating activity."
echo "The system will now attempt to detect a port failure "
echo "In the event that you see any output below, the ports "
echo "listed may have errors and should be verified."
statclear;loop 1200 "statdump same nz fe"
echo "Test done (note any errors and correct listed ports)"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/swirl.soc
No license file was found, but licenses were detected in source scan.

```
# $Id: fb4_mem.soc,v 1.14 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Firebolt4 Memory Sanity
#
# Note:
# Since this is a subset of the TR3 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0
config add mem_scan_enable=0

if $?BCM56640_A0 || $?BCM56643_A0 || $?BCM56644_A0 || $?BCM56648_A0 || $?BCM56649_A0 \
   "local a_mems 1;"
if $?BCM56640_A1 || $?BCM56643_A1 || $?BCM56644_A1 || $?BCM56648_A1 || $?BCM56649_A1 \
   "local a_mems 1;"
if $?BCM56640_B0 || $?BCM56643_B0 || $?BCM56644_B0 || $?BCM56648_B0 || $?BCM56649_B0 \
   "local b_mems 1;"

if $?BCM56545_A0 || $?BCM56545_A1 || $?BCM56545_B0 \
   "local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1; \
    local xlport0 1; local clport0 1; local clport1 1;"

echo "testsuite: started: Memory sanity"
init soc
init misc
```

```
local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';
local tr50lim 'tr 50 Memory=$mem is=$start ie=$end';
local tr51lim 'tr 51 Memory=$mem is=$start ie=$end';
local tr52lim 'tr 52 Memory=$mem is=$start ie=$end';

init soc;
init misc;
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $clport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51;'
if !"expr $clport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
```

```
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'

local mem 'SVM_METER_TABLE'; $name; local range 4095
for start=0,32767,4096 'expr $start + 2047; local end $?; \
     $tr50lim; $tr51lim; $tr52lim;'

local mem 'FP_POLICY_TABLE'; $name;
for start=0,8191,256 'expr $start + 127; local end $?; \
     $tr50lim; $tr51lim; $tr52lim;'

local mem 'FP_COUNTER_TABLE'; $name;
for start=0,8191,512 'expr $start + 255; local end $?; \
     $tr50lim; $tr51lim; $tr52lim;'

local mem 'FP_METER_TABLE'; $name;
for start=0,8191,1024 'expr $start + 511; local end $?; \
     $tr50lim; $tr51lim; $tr52lim;'

#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
if !"expr $BCM56545K_B0 + 0" "echo BCM56545K_B0:$BCM56545K_B0 skip REGEX verification"
if "expr $BCM56545K_B0 + 0"                                  \
'local mem "AXP_SM_CHAR_REMAP0"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP1"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP2"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP3"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP4"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP5"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP6"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP7"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP8"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP9"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP10"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP11"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP12"; $name; $tr50; $tr51; $tr52;        \
local mem "AXP_SM_CHAR_REMAP13"; $name; $tr50; $tr51; $tr52;        \
```

```
local mem "AXP_SM_CHAR_REMAP14"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP15"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP16"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP17"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP18"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP19"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP20"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP21"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP22"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP23"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP24"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP25"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP26"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP27"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP28"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP29"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP30"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_CHAR_REMAP31"; $name; $tr50; $tr51; $tr52;       \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_DATA"; $name; $tr50;       \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_MASK"; $name; $tr50;       \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA"; $name; $tr50;     \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK"; $name; $tr50;     \
local mem "AXP_SM_FLOW_TABLE_MEM"; $name; $tr50; $tr51; $tr52;     \
local mem "AXP_SM_MATCH_COUNTERS_MEM0"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM1"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM2"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_COUNTERS_MEM3"; $name; $tr50; $tr51; $tr52; \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_DATA"; $name; $tr50;      \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_MASK"; $name; $tr50;      \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA"; $name; $tr50;    \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK"; $name; $tr50;    \
local mem "AXP_SM_MATCH_TABLE_MEM0"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_MATCH_TABLE_MEM1"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_MATCH_TABLE_MEM2"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_MATCH_TABLE_MEM3"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_PACKET_BUFFER_MEM"; $name; $tr50; $tr51; $tr52;  \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_DATA"; $name; $tr50;      \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_MASK"; $name; $tr50;      \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_DATA"; $name; $tr50;    \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_MASK"; $name; $tr50;    \
local mem "AXP_SM_STATE_TABLE_MEM0"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM1"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM2"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM3"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM4"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM5"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM6"; $name; $tr50; $tr51; $tr52;   \
local mem "AXP_SM_STATE_TABLE_MEM7"; $name; $tr50; $tr51; $tr52;   \
```

```
local mem "FT_AGE_PROFILE"; $name; $tr50; $tr51; $tr52;            \
local mem "FT_DST_LAG_CONFIG"; $name; $tr50; $tr51; $tr52;         \
local mem "FT_DST_PORT_CONFIG"; $name; $tr50; $tr51; $tr52;        \
local mem "FT_EOP_TBL"; $name; $tr50; $tr51; $tr52;                \
local mem "FT_SESSION"; $name; $tr50; $tr51; $tr52;                \
local mem "FT_SESSION_IPV6"; $name; $tr50; $tr51; $tr52;           \
local mem "FT_EXPORT_CNTR_ONLY"; $name; $tr50; $tr51; $tr52;       \
local mem "FT_EXPORT_DATA_ONLY"; $name; $tr50; $tr51; $tr52;       \
local mem "FT_EXPORT_FIFO"; $name; $tr50; $tr51; $tr52;            \
local mem "FT_L4PORT"; $name; $tr50; $tr51; $tr52;                 \
local mem "FT_POLICY"; $name; $tr50; $tr51; $tr52;'
local mem 'AXP_WLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WRX_WCD'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_WTX_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;'
```

```
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L2_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_PORT_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
```

```
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP_DA'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MAID_REDUCTION'; $name; $tr50; $tr51; $tr52;
local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'MA_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'RMEP'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_OFFSET_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
$done


#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';
local tr71_1lim 'tr 71 m=$mem s=$start c=$count tse=f slth=t';
local tr71_2lim 'tr 71 m=$mem s=$start c=$count tse=t slth=t';
local tr71_3lim 'tr 71 m=$mem s=$start c=$count tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
```

```
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport2 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport3 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $clport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name;\
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $clport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xlport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'
  if !"expr $xlport1 + 0" \
```

```
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'

local mem 'SVM_METER_TABLE'; $name; local count 2048;
for start=0,32767,4096 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

local mem 'FP_POLICY_TABLE'; $name; local count 127;
for start=0,8191,256 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

local mem 'FP_COUNTER_TABLE'; $name; local count 255;
for start=0,8191,512 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

local mem 'FP_METER_TABLE'; $name; local count 511;
for start=0,8191,1024 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

# Reverse SLAM problems
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'AXP_WRX_WCD'; $name; $tr71_1; $tr71_2;
local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2;

local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2;


local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
if !"expr $BCM56545K_B0 + 0" "echo BCM56545K_B0:$BCM56545K_B0 skip FT DMA verification"
if "expr $BCM56545K_B0 + 0"                                    \
'local mem "FT_AGE_PROFILE"; $name; $tr71_1; $tr71_2; $tr71_3;          \
local mem "FT_DST_LAG_CONFIG"; $name; $tr71_1; $tr71_2; $tr71_3;        \
local mem "FT_DST_PORT_CONFIG"; $name; $tr71_1; $tr71_2; $tr71_3;       \
local mem "FT_EOP_TBL"; $name; $tr71_1; $tr71_2; $tr71_3;               \
local mem "FT_EXPORT_CNTR_ONLY"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "FT_EXPORT_DATA_ONLY"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "FT_EXPORT_FIFO"; $name; $tr71_1; $tr71_2; $tr71_3;           \
local mem "FT_L4PORT"; $name; $tr71_1; $tr71_2; $tr71_3;                \
local mem "FT_POLICY"; $name; $tr71_1; $tr71_2; $tr71_3;                \
```

```
local mem "FT_SESSION"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "FT_SESSION_IPV6"; $name; $tr71_1; $tr71_2; $tr71_3;        \
local mem "AXP_SM_CHAR_REMAP0"; $name; $tr71_1; $tr71_2;              \
local mem "AXP_SM_CHAR_REMAP1"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP2"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP3"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP4"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP5"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP6"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP7"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP8"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP9"; $name; $tr71_1; $tr71_2; $tr71_3;      \
local mem "AXP_SM_CHAR_REMAP10"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP11"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP12"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP13"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP14"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP15"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP16"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP17"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP18"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP19"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP20"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP21"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP22"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP23"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP24"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP25"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP26"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP27"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP28"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP29"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP30"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_CHAR_REMAP31"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_FLOW_TABLE_MEM"; $name; $tr71_1; $tr71_2;            \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_FLOW_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;     \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;   \
local mem "AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;   \
local mem "AXP_SM_MATCH_COUNTERS_MEM0"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_COUNTERS_MEM1"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_COUNTERS_MEM2"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_COUNTERS_MEM3"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;    \
local mem "AXP_SM_MATCH_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;    \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;  \
local mem "AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;  \
local mem "AXP_SM_MATCH_TABLE_MEM0"; $name; $tr71_1; $tr71_2; $tr71_3;               \
```

```
local mem "AXP_SM_MATCH_TABLE_MEM1"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_TABLE_MEM2"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_MATCH_TABLE_MEM3"; $name; $tr71_1; $tr71_2; $tr71_3;            \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;    \
local mem "AXP_SM_STATE_TABLE_BULK_MATCH_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;    \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_DATA"; $name; $tr71_1; $tr71_2; $tr71_3;  \
local mem "AXP_SM_STATE_TABLE_BULK_REPLACE_MASK"; $name; $tr71_1; $tr71_2; $tr71_3;  \
local mem 'AXP_SM_PACKET_BUFFER_MEM'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM0'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM1'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM2'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM3'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM4'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM5'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM6'; $name; $tr71_1; $tr71_2;                    \
local mem 'AXP_SM_STATE_TABLE_MEM7'; $name; $tr71_1; $tr71_2;'
local mem 'AXP_WLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_DSCP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_FRAG_ID'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_WTX_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L2_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L2_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
```

```
local mem 'L2_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L3_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 c=16000; $tr71_2 c=16000; $tr71_3 c=16000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 s=16000; $tr71_2 s=16000; $tr71_3 s=16000;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LMEP_DA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAID_REDUCTION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_OFFSET_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
# Since this is a subset of the TR3 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/fb4_mem.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcf8574.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Phillips PCF8574 Parallel port.
*
* On P48 systems, the parallel port is typically connected to two
* MUX's used to control I2C slave addressing on the common I2C bus.
*
*
*       o-------[MUX1]--[MUX2]
*       |       |       |
*       |       |       |
*       |       |       |
*   [PCF8574]   (SxA)   (SyB)
*       |       |       |
*       0=========O=======0================I2C
*
*
* SxA = Slave X with Address Bits A
* SxB = Slave Y with Address Bits B
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pcf8574.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56850_a0.c
* Purpose:     bcm56850_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56850_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lrp.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    lrp.c
* Purpose: Caladan3 on LRP drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/lrp.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53010_a0.c
* Purpose: bcm53010_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53010_a0.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                      *
*                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_common_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_etu.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_etu.h : ETU defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_etu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600FoTestInfo.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600FoTestInfo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_property.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 PROPERTY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_property.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BagEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0BagEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_cop.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    wb_db_cop.h
* Purpose: Caladan3 Packet Parsing Engine drivers Warm Boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/wb_db_cop.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:dpp_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dpp_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File: jer2_jer_mgmt.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_sand_exact_match_hash.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_exact_match_hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lrp.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* lrp.h : LRP defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/lrp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_multicast_imp.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gmodule.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Generic Linux Module Framework
*
* Hooks up your driver to the kernel
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/shared/gmodule.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pstats.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packetized Statistic
* Purpose: API to set Packetized Stats registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/pstats.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.139 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_intr_init.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement soc interrupt handler.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_intr_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtAddressConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEbMvtAddressConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  merlin16_usr_includes.h                                    *
*  Created On    :  05/07/2014                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :   *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hash.c
* Purpose:     Apache hash table calculation routines
```

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/hash.c
No license file was found, but licenses were detected in source scan.

```
# $Id: ktsanity.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana (BCM56440) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56440_A0 || $?BCM56441_A0 || $?BCM56443_A0 || $?BCM56249_A0 || $?BCM56449_A0 ||
$?BCM56240_A0 || \
  $?BCM55440_A0 || $?BCM55441_A0 || $?BCM65245_A0 \
   'local BCM56440 1'
if $?BCM56445_A0 || $?BCM56444_A0 || $?BCM56448_A0 || $?BCM56241_A0 \
   'local BCM56445 1'

if $?BCM56440_B0 || $?BCM56441_B0 || $?BCM56443_B0 || $?BCM56249_B0 || $?BCM56449_B0 ||
$?BCM56240_B0 || \
  $?BCM55440_B0 || $?BCM55441_B0 || $?BCM56242_B0 || $?BCM56243_B0 || $?BCM65245_B0 ||
$?BCM56246_B0\
   'local BCM56440 1'
if $?BCM56445_B0 || $?BCM56444_B0 || $?BCM56448_B0 || $?BCM56241_B0 \
   'local BCM56445 1'

if $?BCM56440_B0 || $?BCM56441_B0 || $?BCM56443_B0 || $?BCM56249_B0 || $?BCM56449_B0 ||
$?BCM56240_B0 || \
  $?BCM56445_B0 || $?BCM56444_B0 || $?BCM56448_B0 || $?BCM56241_B0 || $?BCM55440_B0 ||
$?BCM55441_B0 || \
  $?BCM56242_B0 || $?BCM56243_B0 || $?BCM56446_B0 || $?BCM56447_B0 || $?BCM56442_B0 ||
$?BCM56245_B0 || \
  $?BCM56246_B0 \
  'local BCM56X4X_B0 1'

if $?BCM56240_B0 || $?BCM56242_B0 || $?BCM56243_B0 || $?BCM56245_B0 || $?BCM56246_B0 \
  'local BCM56240 1'

if $?BCM55440_B0 'local BCM55440_B0 1'

if $?BCM56448_A0 || $?BCM56449_A0 \
```

```
   'local BCM56448 1'

if $?BCM56448_B0 || $?BCM56449_B0 \
   'local BCM56448 1'

if $?BCM56442_B0 || $?BCM56442_A0 \
   'local BCM56442 1'

if $?BCM56449_A0 || $?BCM56449_B0 || $?BCM56245_B0 || $?BCM56240_A0 || $?BCM56240_B0 \
   'local SKIP_SNAKE_TEST 1'

 local SKIP_L3_DEFIP_TEST 0;
 local SKIP_L3_DEFIP_128_TEST 0;

if $?BCM56240 || $?BCM56445 || $?BCM56440 || $?BCM56442 'config get ipv6_lpm_128b_enable';
if  $?BCM56240 && $config_var_val "local SKIP_L3_DEFIP_TEST 1"
if  $?BCM56240 || $?BCM56440 || $?BCM56445 || $?BCM56442 && !$config_var_val\
 "local SKIP_L3_DEFIP_128_TEST 1"

echo "skip_l3_defip_128 $SKIP_L3_DEFIP_128_TEST skip_l3_defip $SKIP_L3_DEFIP_TEST"

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
```

```
date
ver
soc

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init mmu; init misc;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

init soc; init mmu; init misc;
ktsanity_ecc_off
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " BCAST_BLOCK_MASK";
tr 50 M=BCAST_BLOCK_MASK;
tr 51 M=BCAST_BLOCK_MASK;
```

```
tr 52 M=BCAST_BLOCK_MASK;
tr 71 M=BCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=F;
echo " COS_MAP_SEL";
tr 50 M=COS_MAP_SEL;
tr 51 M=COS_MAP_SEL;
tr 52 M=COS_MAP_SEL;
tr 71 M=COS_MAP_SEL TSE=F SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_PBM";
tr 50 M=CPU_PBM;
#tr 51 M=CPU_PBM;
#tr 52 M=CPU_PBM;
tr 71 M=CPU_PBM TSE=F SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=F;
echo " CPU_PBM_2";
tr 50 M=CPU_PBM_2;
#tr 51 M=CPU_PBM_2;
#tr 52 M=CPU_PBM_2;
tr 71 M=CPU_PBM_2 TSE=F SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
```

```
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
if  !$?BCM56X4X_B0 \
'echo " CTR_FLEX_COUNT_0"; \
tr 50 M=CTR_FLEX_COUNT_0; \
tr 51 M=CTR_FLEX_COUNT_0; \
tr 52 M=CTR_FLEX_COUNT_0; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_1"; \
tr 50 M=CTR_FLEX_COUNT_1; \
tr 51 M=CTR_FLEX_COUNT_1; \
tr 52 M=CTR_FLEX_COUNT_1; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_10"; \
tr 50 M=CTR_FLEX_COUNT_10; \
tr 51 M=CTR_FLEX_COUNT_10; \
tr 52 M=CTR_FLEX_COUNT_10; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_11"; \
tr 50 M=CTR_FLEX_COUNT_11; \
tr 51 M=CTR_FLEX_COUNT_11; \
tr 52 M=CTR_FLEX_COUNT_11; \
tr 71 M=CTR_FLEX_COUNT_11 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_2"; \
tr 50 M=CTR_FLEX_COUNT_2; \
tr 51 M=CTR_FLEX_COUNT_2; \
tr 52 M=CTR_FLEX_COUNT_2; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_3"; \
tr 50 M=CTR_FLEX_COUNT_3; \
tr 51 M=CTR_FLEX_COUNT_3; \
tr 52 M=CTR_FLEX_COUNT_3; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=F; \
```

```
echo " CTR_FLEX_COUNT_4"; \
tr 50 M=CTR_FLEX_COUNT_4; \
tr 51 M=CTR_FLEX_COUNT_4; \
tr 52 M=CTR_FLEX_COUNT_4; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_5"; \
tr 50 M=CTR_FLEX_COUNT_5; \
tr 51 M=CTR_FLEX_COUNT_5; \
tr 52 M=CTR_FLEX_COUNT_5; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_6"; \
tr 50 M=CTR_FLEX_COUNT_6; \
tr 51 M=CTR_FLEX_COUNT_6; \
tr 52 M=CTR_FLEX_COUNT_6; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_7"; \
tr 50 M=CTR_FLEX_COUNT_7; \
tr 51 M=CTR_FLEX_COUNT_7; \
tr 52 M=CTR_FLEX_COUNT_7; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_8"; \
tr 50 M=CTR_FLEX_COUNT_8; \
tr 51 M=CTR_FLEX_COUNT_8; \
tr 52 M=CTR_FLEX_COUNT_8; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_9"; \
tr 50 M=CTR_FLEX_COUNT_9; \
tr 51 M=CTR_FLEX_COUNT_9; \
tr 52 M=CTR_FLEX_COUNT_9; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=F;'
$done
echo " DLB_HGT_FLOWSET_PORT";
tr 50 M=DLB_HGT_FLOWSET_PORT;
tr 51 M=DLB_HGT_FLOWSET_PORT;
tr 52 M=DLB_HGT_FLOWSET_PORT;
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=F SLTH=T;
```

```
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=T SLTH=T;
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=T SLTH=F;
#echo " DLB_HGT_FLOWSET_TIMESTAMP";
#tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=F SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=T SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=T SLTH=F;
#echo " DLB_HGT_FLOWSET_TIMESTAMP_PAGE";
#tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=F SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=T SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=T SLTH=F;
echo " DLB_HGT_GLB_QUANTIZE_THRESHOLDS";
tr 50 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
#tr 51 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
#tr 52 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=F SLTH=T;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=T SLTH=T;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=T SLTH=F;
echo " DLB_HGT_GROUP_CONTROL";
tr 50 M=DLB_HGT_GROUP_CONTROL;
tr 51 M=DLB_HGT_GROUP_CONTROL;
tr 52 M=DLB_HGT_GROUP_CONTROL;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=T SLTH=F;
echo " DLB_HGT_GROUP_MEMBERSHIP";
tr 50 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 51 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 52 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=T SLTH=F;
echo " DLB_HGT_GROUP_STATS";
tr 50 M=DLB_HGT_GROUP_STATS;
tr 51 M=DLB_HGT_GROUP_STATS;
tr 52 M=DLB_HGT_GROUP_STATS;
tr 71 M=DLB_HGT_GROUP_STATS TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_STATS TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_STATS TSE=T SLTH=F;
echo " DLB_HGT_LINK_CONTROL";
tr 50 M=DLB_HGT_LINK_CONTROL;
#tr 51 M=DLB_HGT_LINK_CONTROL;
#tr 52 M=DLB_HGT_LINK_CONTROL;
```

```
tr 71 M=DLB_HGT_LINK_CONTROL TSE=F SLTH=T;
tr 71 M=DLB_HGT_LINK_CONTROL TSE=T SLTH=T;
tr 71 M=DLB_HGT_LINK_CONTROL TSE=T SLTH=F;
echo " DLB_HGT_OPTIMAL_CANDIDATE";
tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=F SLTH=T;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=T SLTH=T;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=T SLTH=F;
echo " DLB_HGT_PORT_QUALITY_MAPPING";
tr 50 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 51 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 52 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=F SLTH=T;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=T SLTH=T;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=T SLTH=F;
#echo " DLB_HGT_PORT_STATE";
#tr 50 M=DLB_HGT_PORT_STATE;
#tr 51 M=DLB_HGT_PORT_STATE;
#tr 52 M=DLB_HGT_PORT_STATE;
#tr 71 M=DLB_HGT_PORT_STATE TSE=F SLTH=T;
#tr 71 M=DLB_HGT_PORT_STATE TSE=T SLTH=T;
#tr 71 M=DLB_HGT_PORT_STATE TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
```

```
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_DVP_ATTRIBUTE";
tr 50 M=EGR_DVP_ATTRIBUTE;
```

```
tr 51 M=EGR_DVP_ATTRIBUTE;
tr 52 M=EGR_DVP_ATTRIBUTE;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=F SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_4";
```

```
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
```

```
echo " EGR_FLEX_CTR_OFFSET_TABLE_3";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_PRI_MAP";
tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_RES_MAP";
tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
```

```
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PORT_MAP";
tr 50 M=EGR_FLEX_CTR_PORT_MAP;
tr 51 M=EGR_FLEX_CTR_PORT_MAP;
tr 52 M=EGR_FLEX_CTR_PORT_MAP;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_TOS_MAP";
tr 50 M=EGR_FLEX_CTR_TOS_MAP;
tr 51 M=EGR_FLEX_CTR_TOS_MAP;
tr 52 M=EGR_FLEX_CTR_TOS_MAP;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ING_PORT";
tr 50 M=EGR_ING_PORT;
tr 51 M=EGR_ING_PORT;
tr 52 M=EGR_ING_PORT;
tr 71 M=EGR_ING_PORT TSE=F SLTH=T;
tr 71 M=EGR_ING_PORT TSE=T SLTH=T;
tr 71 M=EGR_ING_PORT TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
```

```
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGR_MAP_MH";
tr 50 M=EGR_MAP_MH;
tr 51 M=EGR_MAP_MH;
tr 52 M=EGR_MAP_MH;
```

```
tr 71 M=EGR_MAP_MH TSE=F SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=F;
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
echo " EGR_MASK_MODBASE";
tr 50 M=EGR_MASK_MODBASE;
tr 51 M=EGR_MASK_MODBASE;
tr 52 M=EGR_MASK_MODBASE;
tr 71 M=EGR_MASK_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_CONTROL";
tr 50 M=EGR_MIRROR_ENCAP_CONTROL;
tr 51 M=EGR_MIRROR_ENCAP_CONTROL;
tr 52 M=EGR_MIRROR_ENCAP_CONTROL;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_1";
tr 50 M=EGR_MIRROR_ENCAP_DATA_1;
tr 51 M=EGR_MIRROR_ENCAP_DATA_1;
tr 52 M=EGR_MIRROR_ENCAP_DATA_1;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
```

```
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_0";
#tr 50 M=EGR_PBE_DEBUG_0;
#tr 51 M=EGR_PBE_DEBUG_0;
#tr 52 M=EGR_PBE_DEBUG_0;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_1";
#tr 50 M=EGR_PBE_DEBUG_1;
```

```
#tr 51 M=EGR_PBE_DEBUG_1;
#tr 52 M=EGR_PBE_DEBUG_1;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=F;
echo " EGR_PORT";
tr 50 M=EGR_PORT;
tr 51 M=EGR_PORT;
tr 52 M=EGR_PORT;
tr 71 M=EGR_PORT TSE=F SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
```

```
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EMIRROR_CONTROL";
tr 50 M=EMIRROR_CONTROL;
tr 51 M=EMIRROR_CONTROL;
tr 52 M=EMIRROR_CONTROL;
tr 71 M=EMIRROR_CONTROL TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=F;
echo " EMIRROR_CONTROL1";
tr 50 M=EMIRROR_CONTROL1;
tr 51 M=EMIRROR_CONTROL1;
tr 52 M=EMIRROR_CONTROL1;
tr 71 M=EMIRROR_CONTROL1 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=F;
echo " EMIRROR_CONTROL2";
tr 50 M=EMIRROR_CONTROL2;
tr 51 M=EMIRROR_CONTROL2;
tr 52 M=EMIRROR_CONTROL2;
tr 71 M=EMIRROR_CONTROL2 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=F;
echo " EMIRROR_CONTROL3";
tr 50 M=EMIRROR_CONTROL3;
tr 51 M=EMIRROR_CONTROL3;
tr 52 M=EMIRROR_CONTROL3;
tr 71 M=EMIRROR_CONTROL3 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=F;
```

```
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EPC_LINK_BMAP";
tr 50 M=EPC_LINK_BMAP;
#tr 51 M=EPC_LINK_BMAP;
#tr 52 M=EPC_LINK_BMAP;
tr 71 M=EPC_LINK_BMAP TSE=F SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
```

```
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
```

```
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " FP_UDF_TCAM";
tr 50 M=FP_UDF_TCAM;
tr 51 M=FP_UDF_TCAM;
tr 52 M=FP_UDF_TCAM;
tr 71 M=FP_UDF_TCAM TSE=F SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_BITMAP";
tr 50 M=HG_TRUNK_BITMAP;
#tr 51 M=HG_TRUNK_BITMAP;
#tr 52 M=HG_TRUNK_BITMAP;
tr 71 M=HG_TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_ENABLE";
tr 50 M=HG_TRUNK_FAILOVER_ENABLE;
#tr 51 M=HG_TRUNK_FAILOVER_ENABLE;
#tr 52 M=HG_TRUNK_FAILOVER_ENABLE;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " HG_TRUNK_GROUP";
tr 50 M=HG_TRUNK_GROUP;
#tr 51 M=HG_TRUNK_GROUP;
#tr 52 M=HG_TRUNK_GROUP;
tr 71 M=HG_TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=F;
echo " HG_TRUNK_MEMBER";
tr 50 M=HG_TRUNK_MEMBER;
tr 51 M=HG_TRUNK_MEMBER;
tr 52 M=HG_TRUNK_MEMBER;
tr 71 M=HG_TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=F;
echo " HIGIG_TRUNK_CONTROL";
tr 50 M=HIGIG_TRUNK_CONTROL;
#tr 51 M=HIGIG_TRUNK_CONTROL;
#tr 52 M=HIGIG_TRUNK_CONTROL;
```

```
tr 71 M=HIGIG_TRUNK_CONTROL TSE=F SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " ICONTROL_OPCODE_BITMAP";
tr 50 M=ICONTROL_OPCODE_BITMAP;
tr 51 M=ICONTROL_OPCODE_BITMAP;
tr 52 M=ICONTROL_OPCODE_BITMAP;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=F SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IMIRROR_BITMAP";
tr 50 M=IMIRROR_BITMAP;
tr 51 M=IMIRROR_BITMAP;
tr 52 M=IMIRROR_BITMAP;
tr 71 M=IMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_1588_TS_DISPOSITION_PROFILE_TABLE";
tr 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 52 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=F SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
```

```
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_EGRMSKBMAP";
tr 50 M=ING_EGRMSKBMAP;
tr 51 M=ING_EGRMSKBMAP;
tr 52 M=ING_EGRMSKBMAP;
tr 71 M=ING_EGRMSKBMAP TSE=F SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=F;
echo " ING_EN_EFILTER_BITMAP";
tr 50 M=ING_EN_EFILTER_BITMAP;
#tr 51 M=ING_EN_EFILTER_BITMAP;
#tr 52 M=ING_EN_EFILTER_BITMAP;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=F SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_4";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4;
```

```
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_3";
```

```
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_PRI_MAP";
tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_RES_MAP";
tr 50 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 51 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 52 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
```

```
echo " ING_FLEX_CTR_PORT_MAP";
tr 50 M=ING_FLEX_CTR_PORT_MAP;
tr 51 M=ING_FLEX_CTR_PORT_MAP;
tr 52 M=ING_FLEX_CTR_PORT_MAP;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_TOS_MAP";
tr 50 M=ING_FLEX_CTR_TOS_MAP;
tr 51 M=ING_FLEX_CTR_TOS_MAP;
tr 52 M=ING_FLEX_CTR_TOS_MAP;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " ING_HIGIG_TRUNK_OVERRIDE_PROFILE";
tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=F SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
```

```
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_0";
#tr 50 M=ING_PBI_DEBUG_0;
#tr 51 M=ING_PBI_DEBUG_0;
#tr 52 M=ING_PBI_DEBUG_0;
#tr 71 M=ING_PBI_DEBUG_0 TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0 TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0 TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_1";
#tr 50 M=ING_PBI_DEBUG_1;
#tr 51 M=ING_PBI_DEBUG_1;
#tr 52 M=ING_PBI_DEBUG_1;
#tr 71 M=ING_PBI_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_QUEUE_MAP";
tr 50 M=ING_QUEUE_MAP;
tr 51 M=ING_QUEUE_MAP;
tr 52 M=ING_QUEUE_MAP;
tr 71 M=ING_QUEUE_MAP TSE=F SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=F;
echo " ING_QUEUE_OFFSET_MAPPING_TABLE";
tr 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 52 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
```

```
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_PRI_MAP";
tr 50 M=ING_SVM_PKT_PRI_MAP;
tr 51 M=ING_SVM_PKT_PRI_MAP;
tr 52 M=ING_SVM_PKT_PRI_MAP;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_RES_MAP";
tr 50 M=ING_SVM_PKT_RES_MAP;
tr 51 M=ING_SVM_PKT_RES_MAP;
tr 52 M=ING_SVM_PKT_RES_MAP;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=F;
echo " ING_SVM_PORT_MAP";
tr 50 M=ING_SVM_PORT_MAP;
tr 51 M=ING_SVM_PORT_MAP;
tr 52 M=ING_SVM_PORT_MAP;
tr 71 M=ING_SVM_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=F;
echo " ING_SVM_PRI_CNG_MAP";
tr 50 M=ING_SVM_PRI_CNG_MAP;
tr 51 M=ING_SVM_PRI_CNG_MAP;
tr 52 M=ING_SVM_PRI_CNG_MAP;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SVM_TOS_MAP";
tr 50 M=ING_SVM_TOS_MAP;
tr 51 M=ING_SVM_TOS_MAP;
tr 52 M=ING_SVM_TOS_MAP;
tr 71 M=ING_SVM_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=F;
echo " ING_UNTAGGED_PHB";
tr 50 M=ING_UNTAGGED_PHB;
tr 51 M=ING_UNTAGGED_PHB;
tr 52 M=ING_UNTAGGED_PHB;
tr 71 M=ING_UNTAGGED_PHB TSE=F SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
```

```
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_GROUP";
tr 50 M=INITIAL_L3_ECMP_GROUP;
tr 51 M=INITIAL_L3_ECMP_GROUP;
tr 52 M=INITIAL_L3_ECMP_GROUP;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
```

```
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " KNOWN_MCAST_BLOCK_MASK";
tr 50 M=KNOWN_MCAST_BLOCK_MASK;
tr 51 M=KNOWN_MCAST_BLOCK_MASK;
tr 52 M=KNOWN_MCAST_BLOCK_MASK;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_BULK_MATCH_DATA";
tr 50 M=L2_BULK_MATCH_DATA;
#tr 51 M=L2_BULK_MATCH_DATA;
#tr 52 M=L2_BULK_MATCH_DATA;
tr 71 M=L2_BULK_MATCH_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=F;
echo " L2_BULK_MATCH_MASK";
tr 50 M=L2_BULK_MATCH_MASK;
#tr 51 M=L2_BULK_MATCH_MASK;
#tr 52 M=L2_BULK_MATCH_MASK;
tr 71 M=L2_BULK_MATCH_MASK TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=F;
echo " L2_BULK_REPLACE_DATA";
tr 50 M=L2_BULK_REPLACE_DATA;
#tr 51 M=L2_BULK_REPLACE_DATA;
#tr 52 M=L2_BULK_REPLACE_DATA;
tr 71 M=L2_BULK_REPLACE_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=F;
echo " L2_BULK_REPLACE_MASK";
tr 50 M=L2_BULK_REPLACE_MASK;
```

```
#tr 51 M=L2_BULK_REPLACE_MASK;
#tr 52 M=L2_BULK_REPLACE_MASK;
tr 71 M=L2_BULK_REPLACE_MASK TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW;
#tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
```

```
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
if !$SKIP_L3_DEFIP_TEST \
'echo " L3_DEFIP";\
tr 50 M=L3_DEFIP;\
tr 51 M=L3_DEFIP;\
tr 52 M=L3_DEFIP;\
tr 71 M=L3_DEFIP TSE=F SLTH=T;\
tr 71 M=L3_DEFIP TSE=T SLTH=T;\
tr 71 M=L3_DEFIP TSE=T SLTH=F;'

if !$SKIP_L3_DEFIP_128_TEST \
'echo " L3_DEFIP_128";\
tr 50 M=L3_DEFIP_128;\
tr 51 M=L3_DEFIP_128;\
tr 52 M=L3_DEFIP_128;\
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;\
echo " L3_DEFIP_128_DATA_ONLY";\
tr 50 M=L3_DEFIP_128_DATA_ONLY;\
tr 51 M=L3_DEFIP_128_DATA_ONLY;\
tr 52 M=L3_DEFIP_128_DATA_ONLY;\
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_128_HIT_ONLY";\
tr 50 M=L3_DEFIP_128_HIT_ONLY;\
tr 51 M=L3_DEFIP_128_HIT_ONLY;\
tr 52 M=L3_DEFIP_128_HIT_ONLY;\
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_128_ONLY";\
tr 50 M=L3_DEFIP_128_ONLY;\
tr 51 M=L3_DEFIP_128_ONLY;\
tr 52 M=L3_DEFIP_128_ONLY;\
```

```
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;'

if !$SKIP_L3_DEFIP_TEST \
'echo " L3_DEFIP_DATA_ONLY";\
tr 50 M=L3_DEFIP_DATA_ONLY;\
tr 51 M=L3_DEFIP_DATA_ONLY;\
tr 52 M=L3_DEFIP_DATA_ONLY;\
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_HIT_ONLY";\
tr 50 M=L3_DEFIP_HIT_ONLY;\
tr 51 M=L3_DEFIP_HIT_ONLY;\
tr 52 M=L3_DEFIP_HIT_ONLY;\
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_ONLY";\
tr 50 M=L3_DEFIP_ONLY;\
tr 51 M=L3_DEFIP_ONLY;\
tr 52 M=L3_DEFIP_ONLY;\
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;'

ktsanity_ecc_off.soc
if !$SKIP_L3_DEFIP_128_TEST \
'echo " L3_DEFIP_PAIR_128";\
tr 50 M=L3_DEFIP_PAIR_128;\
tr 51 M=L3_DEFIP_PAIR_128;\
tr 52 M=L3_DEFIP_PAIR_128;\
tr 71 M=L3_DEFIP_PAIR_128 TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=F;\
echo " L3_DEFIP_PAIR_128_DATA_ONLY";\
tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY;\
tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY;\
tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY;\
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_PAIR_128_HIT_ONLY";\
tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY;\
tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY;\
tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY;\
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=F SLTH=T;\
```

```
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=F;\
echo " L3_DEFIP_PAIR_128_ONLY";\
tr 50 M=L3_DEFIP_PAIR_128_ONLY;\
tr 51 M=L3_DEFIP_PAIR_128_ONLY;\
tr 52 M=L3_DEFIP_PAIR_128_ONLY;\
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=F SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=T;\
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=F;'

echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
tr 71 M=L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
```

```
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
```

```
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
#echo " LINK_STATUS";
#tr 50 M=LINK_STATUS;
#tr 51 M=LINK_STATUS;
#tr 52 M=LINK_STATUS;
#tr 71 M=LINK_STATUS TSE=F SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=F;
echo " LLS_L0_CHILD_STATE1";
tr 50 M=LLS_L0_CHILD_STATE1;
tr 51 M=LLS_L0_CHILD_STATE1;
tr 52 M=LLS_L0_CHILD_STATE1;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L0_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L0_CONFIG";
tr 50 M=LLS_L0_CONFIG;
tr 51 M=LLS_L0_CONFIG;
tr 52 M=LLS_L0_CONFIG;
tr 71 M=LLS_L0_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=F;
echo " LLS_L0_EF_NEXT";
tr 50 M=LLS_L0_EF_NEXT;
tr 51 M=LLS_L0_EF_NEXT;
tr 52 M=LLS_L0_EF_NEXT;
tr 71 M=LLS_L0_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=F;
echo " LLS_L0_ERROR";
```

```
tr 50 M=LLS_L0_ERROR;
tr 51 M=LLS_L0_ERROR;
tr 52 M=LLS_L0_ERROR;
tr 71 M=LLS_L0_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=F;
echo " LLS_L0_HEADS_TAILS";
tr 50 M=LLS_L0_HEADS_TAILS;
tr 51 M=LLS_L0_HEADS_TAILS;
tr 52 M=LLS_L0_HEADS_TAILS;
tr 71 M=LLS_L0_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L0_MIN_BUCKET_C";
#tr 50 M=LLS_L0_MIN_BUCKET_C;
#tr 51 M=LLS_L0_MIN_BUCKET_C;
#tr 52 M=LLS_L0_MIN_BUCKET_C;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_MIN_CONFIG_C";
tr 50 M=LLS_L0_MIN_CONFIG_C;
tr 51 M=LLS_L0_MIN_CONFIG_C;
tr 52 M=LLS_L0_MIN_CONFIG_C;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_MIN_NEXT";
tr 50 M=LLS_L0_MIN_NEXT;
tr 51 M=LLS_L0_MIN_NEXT;
tr 52 M=LLS_L0_MIN_NEXT;
tr 71 M=LLS_L0_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L0_PARENT";
tr 50 M=LLS_L0_PARENT;
tr 51 M=LLS_L0_PARENT;
tr 52 M=LLS_L0_PARENT;
tr 71 M=LLS_L0_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L0_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT TSE=T SLTH=F;
echo " LLS_L0_PARENT_STATE";
tr 50 M=LLS_L0_PARENT_STATE;
tr 51 M=LLS_L0_PARENT_STATE;
tr 52 M=LLS_L0_PARENT_STATE;
tr 71 M=LLS_L0_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=F;
```

```
#echo " LLS_L0_SHAPER_BUCKET_C";
#tr 50 M=LLS_L0_SHAPER_BUCKET_C;
#tr 51 M=LLS_L0_SHAPER_BUCKET_C;
#tr 52 M=LLS_L0_SHAPER_BUCKET_C;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_SHAPER_CONFIG_C";
tr 50 M=LLS_L0_SHAPER_CONFIG_C;
tr 51 M=LLS_L0_SHAPER_CONFIG_C;
tr 52 M=LLS_L0_SHAPER_CONFIG_C;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_WERR_MAX_SC";
tr 50 M=LLS_L0_WERR_MAX_SC;
tr 51 M=LLS_L0_WERR_MAX_SC;
tr 52 M=LLS_L0_WERR_MAX_SC;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L0_WERR_NEXT";
tr 50 M=LLS_L0_WERR_NEXT;
tr 51 M=LLS_L0_WERR_NEXT;
tr 52 M=LLS_L0_WERR_NEXT;
tr 71 M=LLS_L0_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L0_XOFF";
tr 50 M=LLS_L0_XOFF;
tr 51 M=LLS_L0_XOFF;
tr 52 M=LLS_L0_XOFF;
tr 71 M=LLS_L0_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L0_XOFF TSE=T SLTH=T;
tr 71 M=LLS_L0_XOFF TSE=T SLTH=F;
echo " LLS_L1_CHILD_STATE1";
tr 50 M=LLS_L1_CHILD_STATE1;
tr 51 M=LLS_L1_CHILD_STATE1;
tr 52 M=LLS_L1_CHILD_STATE1;
tr 71 M=LLS_L1_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L1_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
```

```
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L1_CONFIG";
tr 50 M=LLS_L1_CONFIG;
tr 51 M=LLS_L1_CONFIG;
tr 52 M=LLS_L1_CONFIG;
tr 71 M=LLS_L1_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=F;
echo " LLS_L1_EF_NEXT";
tr 50 M=LLS_L1_EF_NEXT;
tr 51 M=LLS_L1_EF_NEXT;
tr 52 M=LLS_L1_EF_NEXT;
tr 71 M=LLS_L1_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=F;
echo " LLS_L1_ERROR";
tr 50 M=LLS_L1_ERROR;
tr 51 M=LLS_L1_ERROR;
tr 52 M=LLS_L1_ERROR;
tr 71 M=LLS_L1_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=F;
echo " LLS_L1_HEADS_TAILS";
tr 50 M=LLS_L1_HEADS_TAILS;
tr 51 M=LLS_L1_HEADS_TAILS;
tr 52 M=LLS_L1_HEADS_TAILS;
tr 71 M=LLS_L1_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L1_MIN_BUCKET_C";
#tr 50 M=LLS_L1_MIN_BUCKET_C;
#tr 51 M=LLS_L1_MIN_BUCKET_C;
#tr 52 M=LLS_L1_MIN_BUCKET_C;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_MIN_CONFIG_C";
tr 50 M=LLS_L1_MIN_CONFIG_C;
tr 51 M=LLS_L1_MIN_CONFIG_C;
tr 52 M=LLS_L1_MIN_CONFIG_C;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_MIN_NEXT";
tr 50 M=LLS_L1_MIN_NEXT;
tr 51 M=LLS_L1_MIN_NEXT;
tr 52 M=LLS_L1_MIN_NEXT;
tr 71 M=LLS_L1_MIN_NEXT TSE=F SLTH=T;
```

```
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L1_PARENT";
tr 50 M=LLS_L1_PARENT;
tr 51 M=LLS_L1_PARENT;
tr 52 M=LLS_L1_PARENT;
tr 71 M=LLS_L1_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=F;
echo " LLS_L1_PARENT_STATE";
tr 50 M=LLS_L1_PARENT_STATE;
tr 51 M=LLS_L1_PARENT_STATE;
tr 52 M=LLS_L1_PARENT_STATE;
tr 71 M=LLS_L1_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_L1_SHAPER_BUCKET_C";
#tr 50 M=LLS_L1_SHAPER_BUCKET_C;
#tr 51 M=LLS_L1_SHAPER_BUCKET_C;
#tr 52 M=LLS_L1_SHAPER_BUCKET_C;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_SHAPER_CONFIG_C";
tr 50 M=LLS_L1_SHAPER_CONFIG_C;
tr 51 M=LLS_L1_SHAPER_CONFIG_C;
tr 52 M=LLS_L1_SHAPER_CONFIG_C;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_WERR_MAX_SC";
tr 50 M=LLS_L1_WERR_MAX_SC;
tr 51 M=LLS_L1_WERR_MAX_SC;
tr 52 M=LLS_L1_WERR_MAX_SC;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L1_WERR_NEXT";
tr 50 M=LLS_L1_WERR_NEXT;
tr 51 M=LLS_L1_WERR_NEXT;
tr 52 M=LLS_L1_WERR_NEXT;
tr 71 M=LLS_L1_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L1_XOFF";
tr 50 M=LLS_L1_XOFF;
tr 51 M=LLS_L1_XOFF;
tr 52 M=LLS_L1_XOFF;
```

```
tr 71 M=LLS_L1_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L1_XOFF TSE=T SLTH=T;
tr 71 M=LLS_L1_XOFF TSE=T SLTH=F;
echo " LLS_L2_ACT_MIN";
tr 50 M=LLS_L2_ACT_MIN;
tr 51 M=LLS_L2_ACT_MIN;
tr 52 M=LLS_L2_ACT_MIN;
tr 71 M=LLS_L2_ACT_MIN TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=F;
echo " LLS_L2_ACT_SHAPER";
tr 50 M=LLS_L2_ACT_SHAPER;
tr 51 M=LLS_L2_ACT_SHAPER;
tr 52 M=LLS_L2_ACT_SHAPER;
tr 71 M=LLS_L2_ACT_SHAPER TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=F;
echo " LLS_L2_ACT_XON";
tr 50 M=LLS_L2_ACT_XON;
tr 51 M=LLS_L2_ACT_XON;
tr 52 M=LLS_L2_ACT_XON;
tr 71 M=LLS_L2_ACT_XON TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=F;
echo " LLS_L2_CHILD_STATE1";
tr 50 M=LLS_L2_CHILD_STATE1;
tr 51 M=LLS_L2_CHILD_STATE1;
tr 52 M=LLS_L2_CHILD_STATE1;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L2_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L2_EMPTY_STATE";
tr 50 M=LLS_L2_EMPTY_STATE;
tr 51 M=LLS_L2_EMPTY_STATE;
tr 52 M=LLS_L2_EMPTY_STATE;
tr 71 M=LLS_L2_EMPTY_STATE TSE=F SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=F;
echo " LLS_L2_ERROR";
tr 50 M=LLS_L2_ERROR;
tr 51 M=LLS_L2_ERROR;
```

```
tr 52 M=LLS_L2_ERROR;
tr 71 M=LLS_L2_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_LOWER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_UPPER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_LOWER_C";
tr 50 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 51 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 52 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_UPPER_C";
tr 50 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 51 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 52 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_NEXT";
tr 50 M=LLS_L2_MIN_NEXT;
tr 51 M=LLS_L2_MIN_NEXT;
tr 52 M=LLS_L2_MIN_NEXT;
tr 71 M=LLS_L2_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L2_PARENT";
tr 50 M=LLS_L2_PARENT;
tr 51 M=LLS_L2_PARENT;
tr 52 M=LLS_L2_PARENT;
tr 71 M=LLS_L2_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_LOWER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_LOWER;
```

```
#tr 51 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_UPPER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 51 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_LOWER";
tr 50 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 51 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 52 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_UPPER";
tr 50 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 51 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 52 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=F;
echo " LLS_L2_WERR_NEXT";
tr 50 M=LLS_L2_WERR_NEXT;
tr 51 M=LLS_L2_WERR_NEXT;
tr 52 M=LLS_L2_WERR_NEXT;
tr 71 M=LLS_L2_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L2_XOFF";
tr 50 M=LLS_L2_XOFF;
tr 51 M=LLS_L2_XOFF;
tr 52 M=LLS_L2_XOFF;
tr 71 M=LLS_L2_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L2_XOFF TSE=T SLTH=T;
tr 71 M=LLS_L2_XOFF TSE=T SLTH=F;
echo " LLS_PORT_CONFIG";
tr 50 M=LLS_PORT_CONFIG;
tr 51 M=LLS_PORT_CONFIG;
tr 52 M=LLS_PORT_CONFIG;
tr 71 M=LLS_PORT_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=F;
echo " LLS_PORT_ERROR";
```

```
tr 50 M=LLS_PORT_ERROR;
tr 51 M=LLS_PORT_ERROR;
tr 52 M=LLS_PORT_ERROR;
tr 71 M=LLS_PORT_ERROR TSE=F SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=F;
echo " LLS_PORT_HEADS";
tr 50 M=LLS_PORT_HEADS;
tr 51 M=LLS_PORT_HEADS;
tr 52 M=LLS_PORT_HEADS;
tr 71 M=LLS_PORT_HEADS TSE=F SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=F;
echo " LLS_PORT_PARENT_STATE";
tr 50 M=LLS_PORT_PARENT_STATE;
tr 51 M=LLS_PORT_PARENT_STATE;
tr 52 M=LLS_PORT_PARENT_STATE;
tr 71 M=LLS_PORT_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_PORT_SHAPER_BUCKET_C";
#tr 50 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 51 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 52 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=F;
#echo " LLS_PORT_SHAPER_CONFIG_C";
#tr 50 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 51 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 52 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=F SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_PORT_TAILS";
tr 50 M=LLS_PORT_TAILS;
tr 51 M=LLS_PORT_TAILS;
tr 52 M=LLS_PORT_TAILS;
tr 71 M=LLS_PORT_TAILS TSE=F SLTH=T;
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=T;
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=F;
#echo " LLS_PORT_TDM";
#tr 50 M=LLS_PORT_TDM;
#tr 51 M=LLS_PORT_TDM;
#tr 52 M=LLS_PORT_TDM;
#tr 71 M=LLS_PORT_TDM TSE=F SLTH=T;
#tr 71 M=LLS_PORT_TDM TSE=T SLTH=T;
#tr 71 M=LLS_PORT_TDM TSE=T SLTH=F;
```

```
#echo " LLS_PORT_WERR_MAX_SC";
#tr 50 M=LLS_PORT_WERR_MAX_SC;
#tr 51 M=LLS_PORT_WERR_MAX_SC;
#tr 52 M=LLS_PORT_WERR_MAX_SC;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=F SLTH=T;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=T;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_PORT_XOFF";
tr 50 M=LLS_PORT_XOFF;
#tr 51 M=LLS_PORT_XOFF;
#tr 52 M=LLS_PORT_XOFF;
tr 71 M=LLS_PORT_XOFF TSE=F SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_1";
tr 50 M=LMEP_1;
tr 51 M=LMEP_1;
tr 52 M=LMEP_1;
tr 71 M=LMEP_1 TSE=F SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
```

```
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
#echo " MA_STATE";
#tr 50 M=MA_STATE;
#tr 51 M=MA_STATE;
#tr 52 M=MA_STATE;
#tr 71 M=MA_STATE TSE=F SLTH=T;
#tr 71 M=MA_STATE TSE=T SLTH=T;
#tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MIRROR_CONTROL";
tr 50 M=MIRROR_CONTROL;
tr 51 M=MIRROR_CONTROL;
tr 52 M=MIRROR_CONTROL;
tr 71 M=MIRROR_CONTROL TSE=F SLTH=T;
tr 71 M=MIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=MIRROR_CONTROL TSE=T SLTH=F;
echo " MMU_AGING_CTR_EXT";
tr 50 M=MMU_AGING_CTR_EXT;
tr 51 M=MMU_AGING_CTR_EXT;
tr 52 M=MMU_AGING_CTR_EXT;
tr 71 M=MMU_AGING_CTR_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=F;
echo " MMU_AGING_CTR_INT";
tr 50 M=MMU_AGING_CTR_INT;
tr 51 M=MMU_AGING_CTR_INT;
tr 52 M=MMU_AGING_CTR_INT;
tr 71 M=MMU_AGING_CTR_INT TSE=F SLTH=T;
```

```
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=F;
echo " MMU_AGING_EXP_EXT";
tr 50 M=MMU_AGING_EXP_EXT;
tr 51 M=MMU_AGING_EXP_EXT;
tr 52 M=MMU_AGING_EXP_EXT;
tr 71 M=MMU_AGING_EXP_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=F;
echo " MMU_AGING_EXP_INT";
tr 50 M=MMU_AGING_EXP_INT;
tr 51 M=MMU_AGING_EXP_INT;
tr 52 M=MMU_AGING_EXP_INT;
tr 71 M=MMU_AGING_EXP_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=F;
echo " MMU_AGING_LMT_EXT";
tr 50 M=MMU_AGING_LMT_EXT;
tr 51 M=MMU_AGING_LMT_EXT;
tr 52 M=MMU_AGING_LMT_EXT;
tr 71 M=MMU_AGING_LMT_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=F;
echo " MMU_AGING_LMT_INT";
tr 50 M=MMU_AGING_LMT_INT;
tr 51 M=MMU_AGING_LMT_INT;
tr 52 M=MMU_AGING_LMT_INT;
tr 71 M=MMU_AGING_LMT_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=F;
if  !$?BCM56240 && !$?BCM56240_A0 && !$?BCM56242_A0 \
'echo " MMU_CBPI_0"; \
tr 50 M=MMU_CBPI_0; \
tr 51 M=MMU_CBPI_0; \
tr 52 M=MMU_CBPI_0; \
tr 71 M=MMU_CBPI_0 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_0 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_0 TSE=T SLTH=F; \
echo " MMU_CBPI_1"; \
tr 50 M=MMU_CBPI_1; \
tr 51 M=MMU_CBPI_1; \
tr 52 M=MMU_CBPI_1; \
tr 71 M=MMU_CBPI_1 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_1 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_1 TSE=T SLTH=F; \
echo " MMU_CBPI_10"; \
tr 50 M=MMU_CBPI_10; \
tr 51 M=MMU_CBPI_10; \
```

```
tr 52 M=MMU_CBPI_10; \
tr 71 M=MMU_CBPI_10 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_10 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_10 TSE=T SLTH=F; \
echo " MMU_CBPI_11"; \
tr 50 M=MMU_CBPI_11; \
tr 51 M=MMU_CBPI_11; \
tr 52 M=MMU_CBPI_11; \
tr 71 M=MMU_CBPI_11 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_11 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_11 TSE=T SLTH=F; \
echo " MMU_CBPI_2"; \
tr 50 M=MMU_CBPI_2; \
tr 51 M=MMU_CBPI_2; \
tr 52 M=MMU_CBPI_2; \
tr 71 M=MMU_CBPI_2 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_2 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_2 TSE=T SLTH=F; \
echo " MMU_CBPI_3"; \
tr 50 M=MMU_CBPI_3; \
tr 51 M=MMU_CBPI_3; \
tr 52 M=MMU_CBPI_3; \
tr 71 M=MMU_CBPI_3 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_3 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_3 TSE=T SLTH=F; \
echo " MMU_CBPI_4"; \
tr 50 M=MMU_CBPI_4; \
tr 51 M=MMU_CBPI_4; \
tr 52 M=MMU_CBPI_4; \
tr 71 M=MMU_CBPI_4 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_4 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_4 TSE=T SLTH=F; \
echo " MMU_CBPI_5"; \
tr 50 M=MMU_CBPI_5; \
tr 51 M=MMU_CBPI_5; \
tr 52 M=MMU_CBPI_5; \
tr 71 M=MMU_CBPI_5 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_5 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_5 TSE=T SLTH=F; \
echo " MMU_CBPI_6"; \
tr 50 M=MMU_CBPI_6; \
tr 51 M=MMU_CBPI_6; \
tr 52 M=MMU_CBPI_6; \
tr 71 M=MMU_CBPI_6 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_6 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_6 TSE=T SLTH=F; \
echo " MMU_CBPI_7"; \
tr 50 M=MMU_CBPI_7; \
```

```
tr 51 M=MMU_CBPI_7; \
tr 52 M=MMU_CBPI_7; \
tr 71 M=MMU_CBPI_7 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_7 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_7 TSE=T SLTH=F; \
echo " MMU_CBPI_8"; \
tr 50 M=MMU_CBPI_8; \
tr 51 M=MMU_CBPI_8; \
tr 52 M=MMU_CBPI_8; \
tr 71 M=MMU_CBPI_8 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_8 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_8 TSE=T SLTH=F; \
echo " MMU_CBPI_9"; \
tr 50 M=MMU_CBPI_9; \
tr 51 M=MMU_CBPI_9; \
tr 52 M=MMU_CBPI_9; \
tr 71 M=MMU_CBPI_9 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_9 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_9 TSE=T SLTH=F;'
$done
if $?BCM56440 && !$?BCM56240 \
'echo " MMU_CCPE_MEM"; \
tr 50 M=MMU_CCPE_MEM; \
tr 51 M=MMU_CCPE_MEM; \
tr 52 M=MMU_CCPE_MEM; \
tr 71 M=MMU_CCPE_MEM TSE=F SLTH=T; \
tr 71 M=MMU_CCPE_MEM TSE=T SLTH=T; \
tr 71 M=MMU_CCPE_MEM TSE=T SLTH=F;'
$done
echo " MMU_CCPI_MEM";
tr 50 M=MMU_CCPI_MEM;
tr 51 M=MMU_CCPI_MEM;
tr 52 M=MMU_CCPI_MEM;
tr 71 M=MMU_CCPI_MEM TSE=F SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=F;
if $?BCM56440 && !$?BCM56240 \
'echo " MMU_CELLLINKE"; \
tr 50 M=MMU_CELLLINKE; \
tr 51 M=MMU_CELLLINKE; \
tr 52 M=MMU_CELLLINKE; \
tr 71 M=MMU_CELLLINKE TSE=F SLTH=T; \
tr 71 M=MMU_CELLLINKE TSE=T SLTH=T; \
tr 71 M=MMU_CELLLINKE TSE=T SLTH=F;'
$done
echo " MMU_CELLLINKI";
tr 50 M=MMU_CELLLINKI;
tr 51 M=MMU_CELLLINKI;
```

```
tr 52 M=MMU_CELLLINKI;
tr 71 M=MMU_CELLLINKI TSE=F SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=F;
echo " MMU_CFAPE_BITMAP";
tr 50 M=MMU_CFAPE_BITMAP;
tr 51 M=MMU_CFAPE_BITMAP;
tr 52 M=MMU_CFAPE_BITMAP;
tr 71 M=MMU_CFAPE_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPE_STACK";
tr 50 M=MMU_CFAPE_STACK;
tr 51 M=MMU_CFAPE_STACK;
tr 52 M=MMU_CFAPE_STACK;
tr 71 M=MMU_CFAPE_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=F;
echo " MMU_CFAPI_BITMAP";
tr 50 M=MMU_CFAPI_BITMAP;
tr 51 M=MMU_CFAPI_BITMAP;
tr 52 M=MMU_CFAPI_BITMAP;
tr 71 M=MMU_CFAPI_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPI_STACK";
tr 50 M=MMU_CFAPI_STACK;
tr 51 M=MMU_CFAPI_STACK;
tr 52 M=MMU_CFAPI_STACK;
tr 71 M=MMU_CFAPI_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=F;
echo " MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM";
tr 50 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 51 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 52 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=F SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=F;
#echo " MMU_ENQ_CBP_32B_WR_STORE_0";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_CBP_32B_WR_STORE_1";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_1;
```

```
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=F;
echo " MMU_ENQ_CBP_32B_WR_STORE_2";
tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=F;
echo " MMU_ENQ_FAP_BITMAP";
tr 50 M=MMU_ENQ_FAP_BITMAP;
tr 51 M=MMU_ENQ_FAP_BITMAP;
tr 52 M=MMU_ENQ_FAP_BITMAP;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=F;
echo " MMU_ENQ_FAP_STACK";
tr 50 M=MMU_ENQ_FAP_STACK;
tr 51 M=MMU_ENQ_FAP_STACK;
tr 52 M=MMU_ENQ_FAP_STACK;
tr 71 M=MMU_ENQ_FAP_STACK TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_0";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_1";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=F;
echo " MMU_ENQ_RQE_WR_COMPLETE_2";
tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=F;
echo " MMU_EXT_MC_GROUP_MAP";
```

```
tr 50 M=MMU_EXT_MC_GROUP_MAP;
tr 51 M=MMU_EXT_MC_GROUP_MAP;
tr 52 M=MMU_EXT_MC_GROUP_MAP;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST0";
tr 50 M=MMU_EXT_MC_QUEUE_LIST0;
tr 51 M=MMU_EXT_MC_QUEUE_LIST0;
tr 52 M=MMU_EXT_MC_QUEUE_LIST0;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST1";
tr 50 M=MMU_EXT_MC_QUEUE_LIST1;
tr 51 M=MMU_EXT_MC_QUEUE_LIST1;
tr 52 M=MMU_EXT_MC_QUEUE_LIST1;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST4";
tr 50 M=MMU_EXT_MC_QUEUE_LIST4;
tr 51 M=MMU_EXT_MC_QUEUE_LIST4;
tr 52 M=MMU_EXT_MC_QUEUE_LIST4;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=F;
echo " MMU_INTFI_BASE_TBL";
tr 50 M=MMU_INTFI_BASE_TBL;
tr 51 M=MMU_INTFI_BASE_TBL;
tr 52 M=MMU_INTFI_BASE_TBL;
tr 71 M=MMU_INTFI_BASE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_BASE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_BASE_TBL TSE=T SLTH=F;
#echo " MMU_INTFI_DEBUG_MEM";
#tr 50 M=MMU_INTFI_DEBUG_MEM;
#tr 51 M=MMU_INTFI_DEBUG_MEM;
#tr 52 M=MMU_INTFI_DEBUG_MEM;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=F SLTH=T;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=T;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=F;
echo " MMU_INTFI_FC_STATE_TBL";
tr 50 M=MMU_INTFI_FC_STATE_TBL;
tr 51 M=MMU_INTFI_FC_STATE_TBL;
tr 52 M=MMU_INTFI_FC_STATE_TBL;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=T SLTH=F;
```

```
echo " MMU_INTFI_MAP_TBL";
tr 50 M=MMU_INTFI_MAP_TBL;
tr 51 M=MMU_INTFI_MAP_TBL;
tr 52 M=MMU_INTFI_MAP_TBL;
tr 71 M=MMU_INTFI_MAP_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_MAP_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_MAP_TBL TSE=T SLTH=F;
echo " MMU_INTFI_XLATE_TBL";
tr 50 M=MMU_INTFI_XLATE_TBL;
tr 51 M=MMU_INTFI_XLATE_TBL;
tr 52 M=MMU_INTFI_XLATE_TBL;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL0";
tr 50 M=MMU_IPMC_GROUP_TBL0;
tr 51 M=MMU_IPMC_GROUP_TBL0;
tr 52 M=MMU_IPMC_GROUP_TBL0;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL1";
tr 50 M=MMU_IPMC_GROUP_TBL1;
tr 51 M=MMU_IPMC_GROUP_TBL1;
tr 52 M=MMU_IPMC_GROUP_TBL1;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
#echo " MMU_ITE_CTRL_0";
#tr 50 M=MMU_ITE_CTRL_0;
#tr 51 M=MMU_ITE_CTRL_0;
#tr 52 M=MMU_ITE_CTRL_0;
#tr 71 M=MMU_ITE_CTRL_0 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_CTRL_0 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_CTRL_0 TSE=T SLTH=F;
echo " MMU_ITE_CTRL_1";
tr 50 M=MMU_ITE_CTRL_1;
tr 51 M=MMU_ITE_CTRL_1;
tr 52 M=MMU_ITE_CTRL_1;
tr 71 M=MMU_ITE_CTRL_1 TSE=F SLTH=T;
tr 71 M=MMU_ITE_CTRL_1 TSE=T SLTH=T;
tr 71 M=MMU_ITE_CTRL_1 TSE=T SLTH=F;
echo " MMU_ITE_PACKET_PTR_STORE";
tr 50 M=MMU_ITE_PACKET_PTR_STORE;
tr 51 M=MMU_ITE_PACKET_PTR_STORE;
tr 52 M=MMU_ITE_PACKET_PTR_STORE;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=F SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=F;
echo " MMU_ITE_QMGR_FLL";
tr 50 M=MMU_ITE_QMGR_FLL;
tr 51 M=MMU_ITE_QMGR_FLL;
tr 52 M=MMU_ITE_QMGR_FLL;
tr 71 M=MMU_ITE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_ITE_QMGR_QLL";
tr 50 M=MMU_ITE_QMGR_QLL;
tr 51 M=MMU_ITE_QMGR_QLL;
tr 52 M=MMU_ITE_QMGR_QLL;
tr 71 M=MMU_ITE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_0";
#tr 50 M=MMU_ITE_WORK_QUEUE_0;
#tr 51 M=MMU_ITE_WORK_QUEUE_0;
#tr 52 M=MMU_ITE_WORK_QUEUE_0;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=F SLTH=T;
```

```
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_1";
#tr 50 M=MMU_ITE_WORK_QUEUE_1;
#tr 51 M=MMU_ITE_WORK_QUEUE_1;
#tr 52 M=MMU_ITE_WORK_QUEUE_1;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=F;
echo " MMU_ITE_WORK_QUEUE_2";
tr 50 M=MMU_ITE_WORK_QUEUE_2;
tr 51 M=MMU_ITE_WORK_QUEUE_2;
tr 52 M=MMU_ITE_WORK_QUEUE_2;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=F SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
```

```
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
```

```
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_4";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_5";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_6";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_7";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=F;
if $?BCM56440 && !$?BCM56240 \
'echo " MMU_QSTRUCT_QENTRY_LOWER_0"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_1"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_2"; \
```

```
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_3"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_4"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_5"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_6"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_7"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=F;'
$done
echo " MMU_QSTRUCT_QENTRY_UPPER_0";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=T;
```

```
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_1";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_2";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_3";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_4";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_5";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_6";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_7";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=F SLTH=T;
```

```
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=F;
echo " MMU_RQE_QMGR_FLL";
tr 50 M=MMU_RQE_QMGR_FLL;
tr 51 M=MMU_RQE_QMGR_FLL;
tr 52 M=MMU_RQE_QMGR_FLL;
tr 71 M=MMU_RQE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_RQE_QMGR_QLL";
tr 50 M=MMU_RQE_QMGR_QLL;
tr 51 M=MMU_RQE_QMGR_QLL;
tr 52 M=MMU_RQE_QMGR_QLL;
tr 71 M=MMU_RQE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=F;
echo " MMU_RQE_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MMU_RQE_WORK_QUEUE";
tr 50 M=MMU_RQE_WORK_QUEUE;
tr 51 M=MMU_RQE_WORK_QUEUE;
tr 52 M=MMU_RQE_WORK_QUEUE;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=F SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_CELL";
tr 50 M=MMU_THDO_OPNCONFIG_CELL;
tr 51 M=MMU_THDO_OPNCONFIG_CELL;
tr 52 M=MMU_THDO_OPNCONFIG_CELL;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_QENTRY";
tr 50 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 51 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 52 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNCOUNT_CELL";
tr 50 M=MMU_THDO_OPNCOUNT_CELL;
tr 51 M=MMU_THDO_OPNCOUNT_CELL;
tr 52 M=MMU_THDO_OPNCOUNT_CELL;
```

```
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_CELL";
tr 50 M=MMU_THDO_OPNOFFSET_CELL;
tr 51 M=MMU_THDO_OPNOFFSET_CELL;
tr 52 M=MMU_THDO_OPNOFFSET_CELL;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_QENTRY";
tr 50 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 51 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 52 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_CELL";
tr 50 M=MMU_THDO_OPNSTATUS_CELL;
tr 51 M=MMU_THDO_OPNSTATUS_CELL;
tr 52 M=MMU_THDO_OPNSTATUS_CELL;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_QENTRY";
tr 50 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 51 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 52 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_CELL";
tr 50 M=MMU_THDO_QCONFIG_CELL;
tr 51 M=MMU_THDO_QCONFIG_CELL;
tr 52 M=MMU_THDO_QCONFIG_CELL;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_QENTRY";
tr 50 M=MMU_THDO_QCONFIG_QENTRY;
tr 51 M=MMU_THDO_QCONFIG_QENTRY;
tr 52 M=MMU_THDO_QCONFIG_QENTRY;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCOUNT_CELL_0";
tr 50 M=MMU_THDO_QCOUNT_CELL_0;
tr 51 M=MMU_THDO_QCOUNT_CELL_0;
```

```
tr 52 M=MMU_THDO_QCOUNT_CELL_0;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_CELL";
tr 50 M=MMU_THDO_QOFFSET_CELL;
tr 51 M=MMU_THDO_QOFFSET_CELL;
tr 52 M=MMU_THDO_QOFFSET_CELL;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_QENTRY";
tr 50 M=MMU_THDO_QOFFSET_QENTRY;
tr 51 M=MMU_THDO_QOFFSET_QENTRY;
tr 52 M=MMU_THDO_QOFFSET_QENTRY;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_CELL_0";
tr 50 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 51 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 52 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_QENTRY_0";
tr 50 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 51 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 52 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=F;
echo " MMU_THDO_QSTATUS_CELL_0";
tr 50 M=MMU_THDO_QSTATUS_CELL_0;
tr 51 M=MMU_THDO_QSTATUS_CELL_0;
tr 52 M=MMU_THDO_QSTATUS_CELL_0;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QSTATUS_QENTRY_0";
tr 50 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 51 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 52 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM0";
tr 50 M=MMU_TOQ_STATE_MEM0;
```

```
tr 51 M=MMU_TOQ_STATE_MEM0;
tr 52 M=MMU_TOQ_STATE_MEM0;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM1";
tr 50 M=MMU_TOQ_STATE_MEM1;
tr 51 M=MMU_TOQ_STATE_MEM1;
tr 52 M=MMU_TOQ_STATE_MEM1;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_0";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_1";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_2";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_3";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_4";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_5";
```

```
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_BUFFER";
tr 50 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 51 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 52 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_QENTRY";
tr 50 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 51 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 52 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_DEQ";
tr 50 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_ENQ";
tr 50 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=F;
```

```
echo " MMU_WRED_QUEUE_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_BUFFER";
tr 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 52 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_QENTRY";
tr 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 52 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_DEQ";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_ENQ_0";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_ENQ_1";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=T;
```

```
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_M0";
tr 50 M=MODPORT_MAP_M0;
tr 51 M=MODPORT_MAP_M0;
tr 52 M=MODPORT_MAP_M0;
tr 71 M=MODPORT_MAP_M0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=F;
echo " MODPORT_MAP_M1";
tr 50 M=MODPORT_MAP_M1;
tr 51 M=MODPORT_MAP_M1;
tr 52 M=MODPORT_MAP_M1;
tr 71 M=MODPORT_MAP_M1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=F;
echo " MODPORT_MAP_M2";
tr 50 M=MODPORT_MAP_M2;
tr 51 M=MODPORT_MAP_M2;
tr 52 M=MODPORT_MAP_M2;
tr 71 M=MODPORT_MAP_M2 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=F;
echo " MODPORT_MAP_M3";
tr 50 M=MODPORT_MAP_M3;
tr 51 M=MODPORT_MAP_M3;
tr 52 M=MODPORT_MAP_M3;
tr 71 M=MODPORT_MAP_M3 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=F;
ktsanity_ecc_off.soc
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
```

```
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MULTIPASS_LOOPBACK_BITMAP";
tr 50 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 51 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 52 M=MULTIPASS_LOOPBACK_BITMAP;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=F SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=F;
echo " MY_STATION_TCAM";
tr 50 M=MY_STATION_TCAM;
tr 51 M=MY_STATION_TCAM;
tr 52 M=MY_STATION_TCAM;
tr 71 M=MY_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=F;
echo " MY_STATION_TCAM_DATA_ONLY";
tr 50 M=MY_STATION_TCAM_DATA_ONLY;
tr 51 M=MY_STATION_TCAM_DATA_ONLY;
tr 52 M=MY_STATION_TCAM_DATA_ONLY;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=F;
echo " MY_STATION_TCAM_ENTRY_ONLY";
tr 50 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 51 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 52 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS";
tr 50 M=OAM_LM_COUNTERS;
tr 51 M=OAM_LM_COUNTERS;
```

```
tr 52 M=OAM_LM_COUNTERS;
tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_BRIDGE_BMAP";
tr 50 M=PORT_BRIDGE_BMAP;
#tr 51 M=PORT_BRIDGE_BMAP;
#tr 52 M=PORT_BRIDGE_BMAP;
tr 71 M=PORT_BRIDGE_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=F;
echo " PORT_BRIDGE_MIRROR_BMAP";
tr 50 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 51 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 52 M=PORT_BRIDGE_MIRROR_BMAP;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " PORT_CBL_TABLE_MODBASE";
tr 50 M=PORT_CBL_TABLE_MODBASE;
tr 51 M=PORT_CBL_TABLE_MODBASE;
tr 52 M=PORT_CBL_TABLE_MODBASE;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
```

```
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
#echo " RMEP";
#tr 50 M=RMEP;
#tr 51 M=RMEP;
#tr 52 M=RMEP;
#tr 71 M=RMEP TSE=F SLTH=T;
#tr 71 M=RMEP TSE=T SLTH=T;
#tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY_TABLE";
tr 50 M=SOURCE_MOD_PROXY_TABLE;
tr 51 M=SOURCE_MOD_PROXY_TABLE;
tr 52 M=SOURCE_MOD_PROXY_TABLE;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_MODBASE";
```

```
tr 50 M=SOURCE_TRUNK_MAP_MODBASE;
tr 51 M=SOURCE_TRUNK_MAP_MODBASE;
tr 52 M=SOURCE_TRUNK_MAP_MODBASE;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SVM_MACROFLOW_INDEX_TABLE";
tr 50 M=SVM_MACROFLOW_INDEX_TABLE;
tr 51 M=SVM_MACROFLOW_INDEX_TABLE;
tr 52 M=SVM_MACROFLOW_INDEX_TABLE;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=F SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=F;
```

```
echo " SVM_METER_TABLE";
tr 50 M=SVM_METER_TABLE;
tr 51 M=SVM_METER_TABLE;
tr 52 M=SVM_METER_TABLE;
tr 71 M=SVM_METER_TABLE TSE=F SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=F;
echo " SVM_OFFSET_TABLE";
tr 50 M=SVM_OFFSET_TABLE;
tr 51 M=SVM_OFFSET_TABLE;
tr 52 M=SVM_OFFSET_TABLE;
tr 71 M=SVM_OFFSET_TABLE TSE=F SLTH=T;
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=T;
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=F;
echo " SVM_POLICY_TABLE";
tr 50 M=SVM_POLICY_TABLE;
tr 51 M=SVM_POLICY_TABLE;
tr 52 M=SVM_POLICY_TABLE;
tr 71 M=SVM_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE_MODBASE";
tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " THDO_OPNCOUNT_QENTRY";
tr 50 M=THDO_OPNCOUNT_QENTRY;
tr 51 M=THDO_OPNCOUNT_QENTRY;
tr 52 M=THDO_OPNCOUNT_QENTRY;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=F SLTH=T;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=T;
```

```
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=F;
echo " THDO_QCOUNT_CELL_1";
tr 50 M=THDO_QCOUNT_CELL_1;
tr 51 M=THDO_QCOUNT_CELL_1;
tr 52 M=THDO_QCOUNT_CELL_1;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=F;
echo " THDO_QCOUNT_QENTRY_0";
tr 50 M=THDO_QCOUNT_QENTRY_0;
tr 51 M=THDO_QCOUNT_QENTRY_0;
tr 52 M=THDO_QCOUNT_QENTRY_0;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=F;
echo " THDO_QCOUNT_QENTRY_1";
tr 50 M=THDO_QCOUNT_QENTRY_1;
tr 51 M=THDO_QCOUNT_QENTRY_1;
tr 52 M=THDO_QCOUNT_QENTRY_1;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=F;
echo " THDO_QRESET_VALUE_CELL_1";
tr 50 M=THDO_QRESET_VALUE_CELL_1;
tr 51 M=THDO_QRESET_VALUE_CELL_1;
tr 52 M=THDO_QRESET_VALUE_CELL_1;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=F;
echo " THDO_QRESET_VALUE_QENTRY_1";
tr 50 M=THDO_QRESET_VALUE_QENTRY_1;
tr 51 M=THDO_QRESET_VALUE_QENTRY_1;
tr 52 M=THDO_QRESET_VALUE_QENTRY_1;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=F SLTH=T;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=F;
echo " THDO_QSTATUS_CELL_1";
tr 50 M=THDO_QSTATUS_CELL_1;
tr 51 M=THDO_QSTATUS_CELL_1;
tr 52 M=THDO_QSTATUS_CELL_1;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=F;
echo " THDO_QSTATUS_QENTRY_1";
tr 50 M=THDO_QSTATUS_QENTRY_1;
tr 51 M=THDO_QSTATUS_QENTRY_1;
tr 52 M=THDO_QSTATUS_QENTRY_1;
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=F SLTH=T;
```

```
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TRUNK_MEMBER";
tr 50 M=TRUNK_MEMBER;
tr 51 M=TRUNK_MEMBER;
tr 52 M=TRUNK_MEMBER;
tr 71 M=TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " UNKNOWN_HGI_BITMAP";
tr 50 M=UNKNOWN_HGI_BITMAP;
tr 51 M=UNKNOWN_HGI_BITMAP;
tr 52 M=UNKNOWN_HGI_BITMAP;
```

```
tr 71 M=UNKNOWN_HGI_BITMAP TSE=F SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=F;
echo " UNKNOWN_MCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " UNKNOWN_UCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
```

```
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
```

```
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VRF";
```

```
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
#echo " XPORT_WC_UCMEM_DATA";
#tr 50 M=XPORT_WC_UCMEM_DATA;
#tr 51 M=XPORT_WC_UCMEM_DATA;
#tr 52 M=XPORT_WC_UCMEM_DATA;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=F;
if $?BCM56X4X_B0 \
'echo " LLS_L0_ERROR_MIN"; \
tr 50 M=LLS_L0_ERROR_MIN; \
tr 51 M=LLS_L0_ERROR_MIN; \
tr 52 M=LLS_L0_ERROR_MIN; \
tr 71 M=LLS_L0_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=F; \
echo " LLS_L1_ERROR_MIN"; \
tr 50 M=LLS_L1_ERROR_MIN; \
tr 51 M=LLS_L1_ERROR_MIN; \
tr 52 M=LLS_L1_ERROR_MIN; \
tr 71 M=LLS_L1_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=F; \
echo " LLS_L2_ERROR_MIN"; \
tr 50 M=LLS_L2_ERROR_MIN; \
tr 51 M=LLS_L2_ERROR_MIN; \
tr 52 M=LLS_L2_ERROR_MIN; \
tr 71 M=LLS_L2_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL0"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL0; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL0; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL0; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL1"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=T SLTH=T; \
```

```
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL2"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL3"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL4"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL5"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL6"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
config refresh
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
```

```
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

if !$?BCM55440_B0 \
'echo "Running IPV4 overflow insert test ..."; \
tr 87 IPMCEnable=False; \
tr 87 IPMCEnable=True; \
echo "Running IPV6 hash test ..."; \
tr 88 IPMCEnable=False; \
tr 88 IPMCEnable=True; \
echo "Running IPV6 overflow insert test ..."; \
tr 85 IPMCEnable=False; \
tr 85 IPMCEnable=True; \
echo "Running IPV6 hash test ..." ;\
tr 86 IPMCEnable=False; \
tr 86 IPMCEnable=True'
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
```

```
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ...(FIXME tr 22)"
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done
```

```
echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

if !$?BCM56448 \
'echo " Running MAC Loopback V2 on all ports ..."; \
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single;'
$done

if $?BCM56449_A0 || $?BCM56449_B0 \
'echo "Running MAC Loopback V2 on all ports ..."; \
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=hg; \
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=xe; \
echo "Running PHY loopback V2 on all ports ..."; \
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=hg; \
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=xe;'
$done

if $?BCM56448_A0 || $?BCM56448_B0 \
'echo "Running MAC Loopback V2 on ge0-ge23 ports ..."; \
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=ge0-ge23; \
echo "Running PHY loopback V2 on ge0-ge23 ports ..."; \
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=ge0-ge23;'
$done

if !$?BCM56448 \
'echo "Running PHY loopback V2 on all ports ..."; \
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007;'
$done

#Internal snake Loopback
if !$?SKIP_SNAKE_TEST \
'echo "Running internal snake on all ports, MAC loopback ..."; \
tr 39 loopbackmode=mac snakepath=two PBM=e; \
echo "Running internal snake on all ports, PHY loopback ..."; \
tr 39 loopbackmode=phy snakepath=two PBM=e;'
$done

if $?BCM56440_A0 || $?BCM56440_B0 || \
  $?BCM55440_A0 || $?BCM55440_B0 || $?BCM55441_A0 || $?BCM55441_B0 \
'echo "bcm56440 <24GE + 4x HG[13]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
```

```
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56240_A0 || $?BCM56240_B0 || $?BCM56245_B0 \
'echo "bcm56440 <2X 10G + 2x HG[13]> tr 18 & tr 19 tests"; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg0-hg1 speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg0-hg1 speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56242_B0 || $?BCM56243_B0 || $?BCM56246_B0\
'echo "bcm56242 <8X 2.5G + 2x 2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500;'
$done

if $?BCM56443_A0 || $?BCM56443_B0 \
'echo "bcm56443 <8 x 1G/2.5G + 2 x HG[13]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done
```

```
if $?BCM56444_A0 || $?BCM56444_B0 \
'echo "bcm56444 <24FE + 2 x HG[13] + 2 x 2.5HGL> tr 18 & tr 19 tests"; \
tr 18 pbm=fe speed=10; \
tr 18 pbm=fe speed=100; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=fe speed=10; \
tr 19 pbm=fe speed=100; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56445_A0 || $?BCM56445_B0 \
'echo "bcm56445 <24GE + 4x HG[13]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56449_A0 || $?BCM56449_B0 \
'echo "bcm56449 < 2 x HG[13] + 2 x 2.5HGL or 4x2.5HGL> tr 18 & tr 19 tests"; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
```

```
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56249_A0 || $?BCM56249_B0 \
'echo "bcm56249 <24FE + 2 x HG[13] + 2 x 2.5HGL> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done



if $?BCM56241_A0 || $?BCM56241_B0 \
'echo "bcm56241 <6 x 1G + 2 x 2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge3-ge4 speed=2500; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge3-ge4 speed=2500; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done
```

```
if $?BCM56448_A0 || $?BCM56448_B0 \
'echo "bcm56448 <24GE + 4 x 1G/2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=ge0-ge23 speed=10; \
tr 18 pbm=ge0-ge23 speed=100; \
tr 18 pbm=ge0-ge23 speed=1000; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge0-ge23 speed=10; \
tr 19 pbm=ge0-ge23 speed=100; \
tr 19 pbm=ge0-ge23 speed=1000; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done

if $?BCM56246_A0 || $?BCM56246_B0 \
'echo "bcm56246 <8x2.5GE + 2x2.5GE> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500;'
$done

if $?BCM56245_A0 || $?BCM56245_B0 \
'echo "bcm56245 <[2xXAUI | 4x2.5GE] + 2xHG[13]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=10G; \
tr 18 pbm=hg0-hg1 speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=2500; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=10G; \
tr 19 pbm=hg0-hg1 speed=12G; \
tr 19 pbm=hg speed=MAX;'
$done


#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
tr 72 RM=MAC PBM=hg
$done
```

```
echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
tr 72 RM=PHY PBM=hg
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73
$done

#Reload Test
echo "TX Reload Test"
tr 90
$done

echo "RX Reload Test"
tr 91
$done

set rct=false;
if $?BCM56440 \
'echo "DDR memory Test"; \
ddrphytune ci0,ci2 plot=false pt=1; \
tr 53'
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
set rct=true
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ktsanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250_sbprof.c,v 1.2 2011/07/21 16:14:32 yshtil Exp $
```

```
*  Copyright (c) 2002
*  Broadcom Corporation, Irvine, CA
*
*  BROADCOM PROPRIETARY AND CONFIDENTIAL
*
*  This software is furnished under a Broadcom license agreement
*  and may only be used in accordance with and subject to the terms
*  and conditions of such license.
*
* Author: Mark Vandevoorde
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250_sbprof.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmsimplegp.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmsimplegp.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.local.template 1.181.6.1 Broadcom SDK $
# $Copyright: Copyright 2012 Broadcom Corporation.
# This program is the proprietary software of Broadcom Corporation
# and/or its licensors, and may only be used, duplicated, modified
# or distributed pursuant to the terms and conditions of a separate,
# written license agreement executed between you and Broadcom
# (an "Authorized License").  Except as set forth in an Authorized
# License, Broadcom grants no license (express or implied), right
# to use, or waiver of any kind with respect to the Software, and
# Broadcom expressly reserves all rights in and to the Software
# and all intellectual property rights therein.  IF YOU HAVE
# NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
# IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
# ALL USE OF THE SOFTWARE.
#
# Except as expressly set forth in the Authorized License,
#
# 1.     This program, including its structure, sequence and organization,
# constitutes the valuable trade secrets of Broadcom, and you shall use
# all reasonable efforts to protect the confidentiality thereof,
```

```
# and to use this information only in connection with your use of
# Broadcom integrated circuit products.
#
# 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
# PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
# REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
# OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
# DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
# NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
# ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
# CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
# OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
#
# 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
# BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
# INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
# ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
# TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
# THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
# WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
# ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
#

# Usage for Make.local.template and Make.local:
#
# Make.local.template is checked into the tree, but Make.local is never
# checked in.  Copy Make.local.template to Make.local, then change
# Make.local to select the desired compilation options (mostly debugging
# features).
#
# Note on CFGFLAGS usage:
#
#   Because CFGFLAGS may be used with other source preprocessing tools,
#   please limit the values added to CFGFLAGS to -D defines.
#
#
# Table of Contents:
#
#     Compiler Related Options
#     Boot and Debug Related Options
#     Operational and Policy Options
#     System Management and Multiple CPU Options
#     Selective Device Support (Switches and PHYs)
#     Miscellaneous Options
#

#####################################################################
```

```
#
# Compiler Related Options
#
#################################################################

# Compiling out #ifdef DEBUG code saves about 1.3% on executable size.
# It is recommended to leave debug enabled when developing applications.
#DEBUG_IFDEFS=FALSE

# SAL resource usage tracking #ifdef control
# DEBUG_IFDEFS should also be  TRUE for this switch to take effect.
#BCM_RESOURCE_USAGE_PROFILE_IFDEFS=TRUE

# Uncomment to build without debug symbols
#DEBUG_SYMBOLS=FALSE

# Uncomment to add private CFLAGS
#DEBUG_CFLAGS=
#DEBUG_CFLAGS= -D_GNU_SOURCE -I$(DIST)/target_x86/root_fs/src/kernel/include
DEBUG_CFLAGS= -D_GNU_SOURCE -I$(KERNDIR)/include
#DEBUG_CFLAGS= -D_GNU_SOURCE -mcpu=8548 -mabi=no-spe -mfloat-gprs=double -
I$(DIST)/target_ppc/linux-2.6.24/include -I$(DIST)/target_ppc/extracted/ppc_85xx/usr/include
#DEBUG_CFLAGS= -D_GNU_SOURCE -mcpu=8548 -mabi=no-spe -mno-spe -mfloat-gprs=double --
sysroot=/opt/eldk-5.2.1/powerpc-e500v2/sysroots/ppce500v2-linux-gnuspe
# Uncomment to turn off the optimizer when debugging (recommended)
DEBUG_OPTIMIZE=FALSE

# Compiling out assert() saves about 1.1% on executable size,
# however do so is VERY MUCH discouraged.
#DEBUG_ASSERTS=FALSE

# Controlling GCC -pedantic flag
#DEBUG_PEDANTIC=TRUE

# compiler.h overrides, these disable various compiler
# related features even if the compiler normally supports them

# Disable use of long long for uint64
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_LONGLONG

# Disable use of doubles
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_DOUBLE

# Disable inlining of functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_INLINE

# Disable use of const
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_CONST
```

```
# Disable use of static functions
#CFGFLAGS += -DCOMPILER_OVERRIDE_NO_STATIC

# Disable RPC flexible (long) bitmaps.
# Warning: Disabling this changes the RPC version to 2 and
# makes systems running this code incompatible with systems
# running previous versions of BCM RPC code.
#CFGFLAGS += -DBCM_RPC_PBMP_64

#
# Define if longs are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
#CFGFLAGS += -DLONGS_ARE_64BITS

#
# Define if pointers are 64 bits on your compiler;
# this is typically true ONLY for 64-bit processors.
# NOTE: This support works ONLY under conditions where the
# upper 32 bits for ALL pointers are ZERO.
#CFGFLAGS += -DPTRS_ARE_64BITS


##################################################################
#
# Boot and Debug Related Options
#
##################################################################

# Options to turn on various debug flags at boot. BE SURE DK_ERR is set
# otherwise hardware error messages will not be printed.
#CFGFLAGS += -DDEBUG_STARTUP="DK_RCLOAD+DK_TX+DK_ERR"
#CFGFLAGS += -DDEBUG_STARTUP="DK_ERR"

# Define this to add debug code for RX pool buffer tracking
#CFGFLAGS += -DBCM_RXP_DEBUG

# Allow debugging of PCI reads/writes (debug +pci)
#CFGFLAGS += -DSOC_PCI_DEBUG

# Make default debugging settings be 0 (very very quiet)
#CFGFLAGS += -DNO_DEBUG_OUTPUT_DEFAULT

# Don't use vxMemProbe
#CFGFLAGS += -DVX_NO_MEM_PROBE

# Allow debugging of Memory Allocation/Deallocation logging
#CFGFLAGS += -DMEMLOG_SUPPORT
```

```
#################################################################
#################################################################
#
# Operational and Policy Options
#
#################################################################

# VLAN policy control:
# NO_DEFAULT_ETHER do not init ether ports into vlan 1
# NO_DEFAULT_CPU  do not init cpu ports into vlan 1
# NO_DEFAULT_SPI_SUBPORT do not init spi subports into vlan 1
# NO_AUTO_STACK  do not init stack/HG ports into created vlans
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_ETHER
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_CPU
#CFGFLAGS += -DBCM_VLAN_NO_DEFAULT_SPI_SUBPORT
#CFGFLAGS += -DBCM_VLAN_NO_AUTO_STACK

# VLAN multicast flood Policy Control:
# BCM_VLAN_MCAST_FLOOD_ALL      Flood all multicast packets to the VLAN
# BCM_VLAN_MCAST_FLOOD_UNKNOWN  Flood unknown multicast packets to the vlan
# BCM_VLAN_MCAST_FLOOD_NONE     Forward multicast packets with known
#                               destination addresses to the appropriate ports.
#                               All packets destined to an unknown multicast
#                               address are dropped.
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_ALL
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_UNKNOWN
#CFGFLAGS += -DBCM_MCAST_FLOOD_DEFAULT=BCM_VLAN_MCAST_FLOOD_NONE

#Port Enable/Disable Policy control:
#       PORT_DEFAULT_DISABLE       disable ports during switch initialization
#CFGFLAGS += -DBCM_PORT_DEFAULT_DISABLE

# sal thread priority override (this value used for all threads if defined)
#CFGFLAGS += -DSAL_THREAD_PRIORITY=255

# disable printing of thread name in messages
#CFGFLAGS += -DSAL_THREAD_NAME_PRINT_DISABLE

# disable runtime reading of flash config.bcm file (even if !NO_FILEIO)
#CFGFLAGS += -DSAL_CONFIG_FILE_DISABLE

# disable all Application SAL dependencies
#NO_SAL_APPL=1


# Prevent scheduling in SPL locks when interrupt code is run as a thread.
# This option should not be necessary if all locks are implemented correctly,
```

```
# however, some locks may still rely on the assumption that scheduling does
# not occur when interrupts are disabled. If you experience any locking
# problems in e.g. Linux User Mode, try enabling this option.
# Please note that turning on this option will reduce performance by an
# estimated 5 to 10 %.
#CFGFLAGS += -DSAL_SPL_NO_PREEMPT

# disable mapping of higig cosq when mapping priority to cosq
# (use identity mapping instead : map prio0->cos0, prio1->cos1, ... , prio7->cos7)
#CFGFLAGS += -DBCM_COSQ_HIGIG_MAP_DISABLE

##################################################################
#
# System Management and Multiple CPU Options
#
##################################################################

# Turn on BCMX inclusion
#     INCLUDE_BCMX for any support
#INCLUDE_BCMX=1

# Telekinesis suite applications for CPU to CPU communication and discovery
#     CPUDB:        Simple CPU data base manager
#     CPUTRANS:      CPU to CPU communication mechanisms
#     DISCOVER:      Simple discovery; will also include CPUTRANS
#     STKTASK:       Stack manager application
#
#CFGFLAGS += -DINCLUDE_LIB_CPUDB
#CFGFLAGS += -DINCLUDE_LIB_CPUTRANS
#CFGFLAGS += -DINCLUDE_LIB_DISCOVER
#CFGFLAGS += -DINCLUDE_LIB_STKTASK

# Option for discovery to use the application-data field in routing
# packets for Board-ID and CPU base flag information.
#CFGFLAGS += -DDISCOVER_APP_DATA_BOARDID

# Optionally override list of included dispatch modules
# Note: including RPC automatically includes the Telekinesis suite libs
# ESW is the enterprise platforms.
# ROBO includes the managed devices.
# SBX AND FE2000 include API support for bcm988020QSK24X2
#DISPATCH_LIST = RPC ESW ASYNC SBX FE2000

# Define to have end-to-end flow control enabled on boards that
# support it
#CFGFLAGS += -DBCM_BOARD_AUTO_E2E

# Define the following to support per-CPU transmit pointers.
```

```
# This allows the TX setup and send functions to be defined on a
# per-CPU basis, allowing mixed in-band and out-of-band communication.
#CFGFLAGS += -DBCM_C2C_TRANSPORT_SWITCHING

# Options for feature list (INCLUDE_XXX)
# If FEATURE_LIST is defined, it is a list of features to include.
# See Make.config for the default feature list.
#
# Avaliable features:
#
#     BCMX
#     BCMX_DIAG
#     CHASSIS
#     CUSTOMER
#     DRIVERS
#     EDITLINE
#     I2C
#     L3
#     MEM_SCAN
#     ATPTRANS_SOCKET
#     TELNET
#     TEST
#     ACL
#     RCPU
#     KNET - Linux user mode kernel network support
#     BCM_SAL_PROFILE - make available an API to track SAL usage.
#     CINT - Include the C Interpreter in the diagnostic shell.
#          Please note this cannot be used in Linux kernel mode.
#     C_UNIT - Include the C unit testing framework.  If CINT is also included
#            then hooks will be provided for use from it.
#     PHY_SYM_DBG - PHY GUI MDIO read/write support. Socket interface
#                 to PHY GUI for Symbolic debugging.
#     APIMODE - call SDK API functions from shell, requires CINT
#     DUNE_UI - dune legacy user interface. For debug only. Tested
#             on linux-user-gto-2.6 only.
#     KBP   -   include nlm2(11K)/nlm3(12K) KBP support
#FEATURE_LIST=ATPTRANS_SOCKET BCMX_DIAG L3 I2C BCMX MEM_SCAN EDITLINE \
#    CUSTOMER TELNET DRIVERS CHASSIS TEST ACL RCPU BCM_SAL_PROFILE CINT \
#    PTP CES FCMAP BOARD KNET REGEX MACSEC APIMODE BFD BHH KBP

FEATURE_LIST := CINT BSAFE ATPTRANS_SOCKET L3 I2C MEM_SCAN EDITLINE CUSTOMER \
 TELNET DRIVERS CHASSIS TEST BCM_SAL_PROFILE RCPU INTR APIMODE DUNE_UI KBP

#################################################################
#Enable this for 12K device support
#KBP_DEVICE = KBP_12K
#
#Enable this for 11K device support
```

```
#KBP_DEVICE = KBP_11K
#
#Enable this for ALG_KBP device support
KBP_DEVICE = KBP_ALG
#
################################################################

################################################################
#
# Selective Device Support (Switches and PHYs)
#
################################################################

# Multiple Chip Support
#
# By default, the driver supports all Strata switch and fabric chips
# included in this software release.  It checks device IDs at runtime
# to run the correct driver modules.
#
# To save space, the driver can be compiled to support just a subset of
# the chips.  To do this, uncomment the line for BCM_PTL_SPT (partial
# support) and uncomment one line for each chip to support.
#
# Note that there are a lot more chips than drivers.
# For example, the BCM5615 driver is also used for BCM5625 and BCM5645.
#

BCM_PTL_SPT = 1

BCM_88640_A0=0
BCM_88650_A0=1
BCM_88750_A0=1
BCM_88650_B0=1
BCM_88660_A0=1
BCM_88950_A0=1

BCM_88640_A0=1
BCM_88650_A0=1
BCM_88650_B0=1
BCM_88660_A0=1
BCM_88675_A0=1
BCM_88675_B0=1
BCM_88375_A0=1
BCM_88375_B0=1

VENDOR_LIST = BROADCOM
override SBX_CHIPS=
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
```

```
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -m32
LINK_STATIC := 0

#BCM_5675_A0 = 1
#BCM_56102_A0 = 1
#BCM_56112_A0 = 1
#BCM_56304_B0 = 1
#BCM_56314_A0 = 1
#BCM_56504_A0 = 1
#BCM_56504_B0 = 1
#BCM_56514_A0 = 1
#BCM_56624_A0 = 1
#BCM_56624_B0 = 1
#BCM_56680_A0 = 1
#BCM_56680_B0 = 1
#BCM_56580_A0 = 1
#BCM_56700_A0 = 1
#BCM_56800_A0 = 1
#BCM_56218_A0 = 1
#BCM_56224_A0 = 1
#BCM_56224_B0 = 1
#BCM_56725_A0 = 1
#BCM_56820_A0 = 1
#BCM_53314_A0 = 1
#BCM_53324_A0 = 1
#BCM_56634_A0 = 1
#BCM_56634_B0 = 1
#BCM_56524_A0 = 1
#BCM_56524_B0 = 1
#BCM_56685_A0 = 1
#BCM_56685_B0 = 1
#BCM_56334_A0 = 1
#BCM_56334_B0 = 1
#BCM_56840_A0 = 1
#BCM_56840_B0 = 1
#BCM_56850_A0 = 1
#BCM_56142_A0 = 1
#BCM_56150_A0 = 1
#BCM_56836_A0 = 1
#BCM_56640_A0 = 1
#BCM_56440_A0 = 1
#BCM_56440_B0 = 1
#BCM_56450_A0 = 1

#BCM_5338_A0 = 1
#BCM_5380_A0 = 1
```

```
#BCM_5338_B0 = 1
#BCM_5325_A1 = 1

#BCM_5324_A0 = 1
#BCM_5396_A0 = 1
#BCM_5389_A0 = 1
#BCM_5398_A0 = 1
#BCM_5324_A1 = 1
#BCM_53115_A0 = 1
#BCM_53118_A0 = 1
#BCM_53280_A0 = 1
#BCM_53280_B0 = 1
#BCM_53101_A0 = 1
#BCM_53125_A0 = 1
#BCM_53128_A0 = 1
#BCM_53600_A0 = 1
#BCM_89500_A0 = 1

#BCM_88030_A0 = 1
#BCM_FE2000_A0 = 1
#BCM_QE2000_A0 = 1
#BCM_BME3200_B0 = 1
#BCM_BM9600_A0 = 1
#BCM_88230_A0 = 1
#BCM_88230_B0 = 1
#BCM_88230_C0 = 1

#BCM_TK371X_A0 = 1

# Options for multiple PHY support
# If BCM_PHY_LIST is defined, it is a list of PHYs to include.
# The default is to include all of them.
# If none of them should be included specify BCM_PHY_LIST=EMPTY
#BCM_PHY_LIST=522X 54XX 5464 5421S 5482 54616 54680 54680E 52681E 54880E 54682 54684 54640
54640E 54880 SERDES SIMUL 8703 8705 8706 8072 8040 8481 8750 8729 84740 84756 84328 EMPTY
BCM_PHY_LIST=EMPTY

# Options for BCM5338 5380
#CFGFLAGS += -DROBO_OLD
#ROBO_OLD = 1

# Support for phy simulation
#CFGFLAGS += -DINCLUDE_PHY_SIMUL
#CFGFLAGS += -DSIM_ALL_PHYS        # All phys use simulation driver
#CFGFLAGS += -DSIM_CMIC_LINK_STAT  # Get link status from CMIC register

# Support for BOARD library
# if BOARD_LIST is defined, it is a list of Board drivers to include.
```

```
# The default is to include all board drivers appropriate for the devices
# included in the build. If none of them should be included specify
# BOARD_LIST=EMPTY.
#BOARD_LIST=GENERIC

# Support for event logging
#CFGFLAGS += -DINCLUDE_SHARED_EVLOG

# Support for BCM API port translation
#CFGFLAGS += -DINCLUDE_BCM_API_XLATE_PORT

# Support for callback error checks and abort in traverse api's
#CFGFLAGS += -DBCM_CB_ABORT_ON_ERR
##################################################################
#
# Misc Options
#
##################################################################
#CFGFLAGS += -DSOC_MEM_L3_DEFIP_WAR

# Compile out Register/Table descriptive strings to generate a
# compact image
#CFGFLAGS +=-DSOC_NO_NAMES
#CFGFLAGS +=-DSOC_NO_ALIAS
#CFGFLAGS +=-DSOC_NO_DESC

# Reload/WarmBoot Support
#
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
#
# Need this for validation using SOC scripts; Will move to tcl
# someday
# CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP

##################################################################
#
# Enable Easy Reload Support
#
##################################################################
CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT
# For validation purposes
CFGFLAGS += -DBCM_EASY_RELOAD_SUPPORT_SW_DUMP

# Software Trunk failover Support
#
#CFGFLAGS += -DBCM_TRUNK_FAILOVER_SUPPORT

##################################################################
```

```
#
# Override default VXWORKS thread options to make set
# VX_UNBREAKABLE flag in task creation.
#
################################################################
#CFGFLAGS += -DVX_THREAD_OPT_UNBREAKABLE


################################################################
#
# Use default priority for BDE interrupt thread.
#
################################################################
#CFGFLAGS += -DSAL_BDE_THREAD_PRIO_DEFAULT

################################################################
#
# Use cached DMA memory when mapping kernel DMA memory to user
# mode. Should only be enabled on cache-coherent platforms.
#
################################################################
#CFGFLAGS += -DSAL_BDE_CACHE_DMA_MEM

################################################################
#
# Take the spl lock upon entering an ISR
#
################################################################
#CFGFLAGS += -DSAL_SPL_LOCK_ON_IRQ

################################################################
#
# Silently ignore NULL pointer free in sal_free API
# Default behaviour is to assert if a NULL pointer is passed to sal_free
#
################################################################
#CFGFLAGS += -DSAL_FREE_NULL_IGNORE

################################################################
# Enable SBX MPLS TP support
################################################################
#CFGFLAGS += -DBCM_SBX_MPLSTP_SUPPORT
#CFGFLAGS += -DBCM_SBX_C1_MPLSTP_SUPPORT

################################################################
# Restrict SBX C2 Fte range to C2's range
################################################################
#CFGFLAGS += -DBCM_SBX_C1_C2_INTEROP
```

```
#################################################################
# For historical reasons the PCI probe function skips device 12
# by default to prevent a system hang on certain platforms.
# Set this value to zero to probe all PCI devices.
#################################################################
#CFGFLAGS += -DOVERRIDE_PCI_SKIP_DEV_MASK=0

#################################################################
# Override max devices supported by PLI BDE
#################################################################
#CFGFLAGS += -DPLI_MAX_DEVICES

#################################################################
# Track BCM API calls to avoid deinitialization while calls active
# This will incur a small time penalty for each BCM API call
#################################################################
#CFGFLAGS += -DBCM_CONTROL_API_TRACKING

#################################################################
# Override default retry time for detach to wait for executing
# APIs to complete.
#################################################################
#CFGFLAGS += -DBCM_DETACH_POLL_INTERVAL_USECS_DEFAULT=100000
#CFGFLAGS += -DBCM_DETACH_NUM_RETRIES_DEFAULT=3000

#################################################################
# Disable the RX module initialization
#################################################################
#CFGFLAGS += -DBCM_RX_DISABLE
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.local.mrv
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1.c,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: dnxc_iproc.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_iproc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sweep_err_defs.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/sweep/Utils/sweep_err_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_vlan_edit.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchDataEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchDataEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fe600_api.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fe600_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_nph_egress.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_nph_egress.c
* Purpose: An example of the port extender mapping.
*         The following CINT provides a calling sequence example NPH header egress processing.
*
* Calling sequence:
*
*  1. Add the following port configureations to config-sand.bcm
*       ucode_port_13.BCM88675=10GBase-R64.0:core_0.13
*       ucode_port_14.BCM88675=10GBase-R65.0:core_0.14
*       ucode_port_15.BCM88675=10GBase-R68.0:core_0.15
*       ucode_port_16.BCM88675=10GBase-R69.0:core_0.16
*       ucode_port_128.BCM88675=10GBase-R65.1:core_0.128
*       ...
*       ucode_port_166.BCM88675=10GBase-R65.39:core_0.166
*       custom_feature_vendor_custom_pp_port_14=1
*       custom_feature_vendor_customer65=1
*       field_presel_mgmt_advanced_mode=1
*       bcm886xx_rx_use_hw_trap_id=1
*
*       For 2 pass MC replication, add the following SOC properties:
*          ucode_port_168.BCM88675=RCY.0:core_0.168
*          ucode_port_169.BCM88675=RCY.1:core_0.169
*          custom_feature_vendor_custom_pp_port_168=1
*          custom_feature_vendor_custom_pp_port_169=1
*          tm_port_header_type_out_168.BCM88675=TM
*          tm_port_header_type_out_169.BCM88675=TM
*          ucode_port_66.BCM88675=RCY.0:core_1.66
*          ucode_port_67.BCM88675=RCY.1:core_1.67
*          custom_feature_vendor_custom_pp_port_66=1
*          custom_feature_vendor_custom_pp_port_67=1
*          tm_port_header_type_out_66.BCM88675=TM
*          tm_port_header_type_out_67.BCM88675=TM
*       Note:
*          For two pass MC replication, the 1st path replicates packets to recycle ports, NPH header is
*          re-built, UC/MC bit is reset, {ps, output_fp} fields are udpated according to each of the UC
*          destination. {ps, output_fp} is re-built as follows:
*             ps[2] = rcy_port[0]
*             ps[1:0] = CUD[18:17]
*             output_fp[16:0] = CUD[16:0]
```

```
*          Thus two ucode ports (odd/even) need to be added, the LSbit is encoded as the MSbit of PS.
*          Those two ports are defined as custom PP port, and the outgoing header type defined as TM.
*  2. Set PP port mapping according to NPH:
*       - call bcm_port_extender_mapping_info_set()
*             user_define_value should be encoded as { NPH.U/M[0], NPH.SubType[3:0], NPH.DelLength[5:0] }
*          The API does two things, map the packet to a PP port according to the key above,
*          and set outer_header_start according to the DelLength
*  3. Create VLAN port, match key is { NPH.PS(3), NPH.output_fp(17) }:
*       - call bcm_vlan_create()
*  4. Create VPWS tunnel:
*       - call bcm_mpls_port_add()
*  5. Cross-connect VPWS tunnel to the VLAN port:
*       - call bcm_vswitch_cross_connect_add()
*
* Service 1 (AC/NP->PWE):
*          PORT    +    PS        +   output_fp <---->    PWE/AC
*            14     +     7         +     0x1000  <----->     PWE

* Service 2 (PWE/NP->AC):
*          PORT    +    PS        +   output_fp <---->    PWE/AC
*            32     +     0         +     0x2000  <----->     AC
*
* Traffic:
*  1. port 14 -> port 13
*       - NPH: 00000a0d c00e1000 f00e0000 05200000
*       - Payload:
*            -   00000100 00010010 94000002 81000064 08004500 006a0000 0000fffd 393ec055 0102c000 00010000
*  2. port 14 -> port 13
*       - NPH: 00000a0d de002000 f00e0000 05200000
*       - Payload:
*            -   00000000 00220000 00000011 81000014 88470002 80280001 40140002 81ff0000 01000001
00109400
*            -   00028100 00640800 4500006a 00000000 fffd393e c0550102 c0000001
*
*
* LIF extension data:
*     { stag_prio_flag[0], ctag_prio_flag[0], stag_status[1:0], ctag_status[1:0], cos_profile[3:0], stag_pcp_dei[3:0],
ctag_pri_cfi[3:0], ctag_vid[11:0]}
*
* run:
*      cint utility/cint_utils_l2.c
*      cint utility/cint_utils_l3.c
*      cint utility/cint_utils_global.c
*      cint utility/cint_utils_mpls.c
*      cint utility/cint_utils_mpls_port.c
*      cint utility/cint_utils_multicast.c
*      cint cint_port_tpid.c
*      cint cint_advanced_vlan_translation_mode.c
```

```
*     cint cint_mpls_lsr.c
*     cint cint_vswitch_metro_mp.c
*     cint cint_vswitch_cross_connect_p2p.c
*     cint cint_connect_to_np_vpws.c
*     cint cint_nph_egress.c
*     BCM> cint
*     config_ivec_value_mapping(0, 0);
*     config_ivec_value_mapping(0, 1);
*     config_ivec_value_mapping(0, 2);
*     config_ivec_value_mapping(0, 3);
*
*     service_port_init(ac_port,pw_port,ilk_port);
*     config_port_ingress(0, ac_port);
*
*     data_entry_init(ac_port, 0x1000, 0, pwe_output_fp, pwe_ps, 1, 0);
*     config_ingress_vpws(0, 0);
*     data_entry_init(pw_port, 0x2000, 0, ac_output_fp, ac_ps, 0, 0);
*     config_ingress_vpws(0, 1);
*
*     nph_egr_pmf_grp_info_init(priority);
*     nph_egress_port_out_dir_ext(0);
*     nph_vpws_service_egress_run_with_defaults(0);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_nph_egress.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  eagle2_tsc2pll_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                     *
*  Created By    :  Kiran Divakar                                                  *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: eagle2_tsc2pll_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                *
*  the written permission of:                                                        *
*     Broadcom Corporation                                                           *
*     5300 California Avenue                                                         *
*     Irvine, CA  92617                                                              *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                                    *
*                                                                                  *
*****************************************************************************************
```

```
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: generic.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       generic.c
* Purpose:     generic board driver suitable for single device boards
*
* Note: this driver is only intended for engineering use, not for production.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/generic.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_db.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_pmf_low_level.h
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_pmf_low_level_db.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_sch.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_sch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ports.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_tm_scheduler_compensation.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_tm_scheduler_compensation.c
No license file was found, but licenses were detected in source scan.

/* $Id: utils_dffs_cpu_mez.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_dffs_cpu_mez.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmBaaCfgTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmBaaCfgTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bfd.c,v 1.22 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.c
* Purpose:     XGS5 Bidirectional Forwarding Detection common driver.
*
* Notes:      BFD functions will return BCM_E_UAVAIL unless these conditions
*            are true:
*              - BCM_CMICM_SUPPORT
*              - soc_feature_cmicm
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/bfd.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysLib.c,v 1.9 2011/07/21 16:14:58 yshtil Exp $
  Copyright 2001, Broadcom Corporation
  All Rights Reserved.

  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
  the contents of this file may not be disclosed to third parties, copied or
  duplicated in any form, in whole or in part, without the prior written
  permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/sysLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tscf.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tscf.c
* Purpose:     Support Broadcom TSC/Eagle internal SerDes
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fec_performance.h,v 1.312 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        fec_performance.h
* Purpose:     fec allocation performance test
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/FecPerformance/fec_performance.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/FecPerformance/fec_performance.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: netserve.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* netserve: proxy server for stdio.
*
* This daemon connects a network socket to stdio of a local
* application through a pseudo TTY, thus enabling access to
* the application from a telnet client. Terminating the
* telnet session does not terminate the application, i.e.
* it is possible to connect several times to the same
* instance of the application.
*
* Example launching bcm.user on port 5611:
*
*   netserve -d 5611 bcm.user
*
* Now connect to bcm.user, e.g. like this:
*
*   telnet 127.0.0.1 5611
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/portmod/netserve.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/common/netserve.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tcb.c
* Purpose: Handle TH2 specific tcb APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/tcb.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap10m.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap10m.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  falcon16_tsc_debug_functions.c                          *
*  Created On    :  03 Nov 2015                                             *
*  Created By    :  Brent Roberts                                           *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_debug_functions.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_mgmt.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     IPMC CLI Commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaPriEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tunnel.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/l3.c
* Purpose: BCMX APIs
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cpu.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MPC8548 cpu I2C Device Driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/cpu.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   AG general include files

File Name:
   ag_flags.h

File Description:
   Contains system wide compilation flags.

$Revision: 1.1.2.1 $  - Visual SourceSafe automatic revision number

History:
   Date          Name          Comment
   ----          ----          -------
   11/02/01      Gadi Admoni   Created
   17/06/01      Yaeli Karni   Combine AG_SIM with AG_MNT.
                               Add AG_VERILOG for compilation under Verilog
                               which can not use the Nucleus (currently).
   4/07/01       Yaeli Karni   Change AG_VERILOG to NO_OS_SUPPORT
   4/07/01       Yaeli Karni   REMOVE AG_MNT definition - it comes from the makefile
 NOV-12-01  Yehuda Mozes remove AG_PREGx_ON_RPB1_D to project setup
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_flags.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_packet.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_packet.c
*
* MODULE PREFIX:  soc_jer2_tmcpkt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_packet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    subport.c
* Purpose: Manages SUBPORT functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: singlemode.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The PCID application handler.
*
* Requires:
*     All modules
```

```
*
* Provides:
*     Initialization
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/singlemode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmfreeslotmgr.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmfreeslotmgr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     XGS5 RX common driver.
*
* Notes:
*      New RX APIs implementation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/rx.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ppe.h
* Purpose: Caladan3 Packet Parsing Engine drivers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/ppe.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       blocks.c
* Purpose:     Common block info for all chips.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/blocks.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_ptp.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_ptp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_flow_converts.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_flow_converts.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_ipv4.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_ipv4.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_ipv4.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_kaps.c, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_kaps.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmFullStatusEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/fabric/sbZfFabBm9600NmFullStatusEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:       phy8806x_firmware.c
* Purpose:    Firmware for 8806X PHYs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x_firmware.c
No license file was found, but licenses were detected in source scan.

```
/*

* $Id$

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Soc_petra device using PPD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_idb_flexport.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_idb_flexport.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: fe3200_multicast.c,v 1.6.34.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time-mbox.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains BroadSync Time Interface definitions internal to the BCM library.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/time-mbox.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_tests.c,v 1.201 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*       Tests Functions
*       PPD layer feature enumeration
*       BCM layer feature configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_tests.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr_glif.h,v 1.45 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_glif.h
* Purpose:     Resource allocation for gloal lif.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_glif.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_chip_descriptors.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_chip_descriptors.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_chip_descriptors.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane PMU support.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndpmu.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndpmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpV6Tci.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaEpIpV6Tci.c
No license file was found, but licenses were detected in source scan.

```
/*
/* $Copyright: (c) 2016 Broadcom.
/* Broadcom Proprietary and Confidential. All rights reserved.$
$Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_doc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_doc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_cell_snake_test.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC CELL SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_cell_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_diagnostics.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bradley.c,v 1.91 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bradley.c
* Purpose:
* Requires:
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/bradley.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwWstEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_pb_pp_acc.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_pb_pp_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredCfgBaseEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredCfgBaseEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_1Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_drv.c,v 1.72 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       policer.h
* Purpose:    Policer internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/policer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassPortEnablesEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassPortEnablesEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm_dlist.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/bcm_dlist.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassHashInputW0Console.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashInputW0Console.c
No license file was found, but licenses were detected in source scan.

$Id: config-sbx-sirius.bcm,v 1.11 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
#
Example configuration file for SBX systems.
#
config-sbx-sirius.bcm

# Maximum number of COSes
bcm_num_cos=8

# Maximum number of modules in the system (number of QEs)
num_modules=64

# By default, run in standalone mode
diag_chassis=0

# TME mode
qe_tme_mode=1

System (fabric) configuration
0 : BM32 + QE2K
1 : BM96 + Sirius
2 : BM96 + QE2K
3 : BM96 + QE2K + Sirius
#
# Vport mode, polaris+sirius
fabric_configuration=1

```
# Create subports, 4 ports on hg 0
if_subports_create=1
if_subports.port1=1
if_subports.port2=1
if_subports.port3=1
if_subports.port4=1
port_init_speed.port1=1000
port_init_speed.port2=1000
port_init_speed.port3=1000
port_init_speed.port4=1000

# Enable/Disable dual local grants
dual_local_grants=1

# Disable independent egress fifo flow control
egress_fifo_independent_fc=0

diag_emulator_partial_init=0

# Default is HG
# pbmp_xport_xe=0x0

# Will use this for 1xGE SVK board
# pbmp_xport_ge = 0

# serdes speed and encoding
# if not set, default speed and encoding are used
# For 6.5G use 6500, for 3.125G use 3125
# default encoding is 8B10B (TRUE); for 64B66B, use FALSE

# backplane_serdes_speed=0
# backplane_serdes_encoding=0

# Hold TS: for 7 set it to 8
hold_pri_num_timeslots=8

# DDR stuff
sirius_ddr3_clock_mhz=667
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-sirius.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
```

```
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       memarrays.c
* Purpose:     memory arrays additional information.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/memarrays.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_stack.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_stack.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tscf16.c,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier2/tscf16.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3uc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The l3uc test checks TDM and L3 unicast functionality and performance by
* streaming IPv4/IPv6 packets on all ports at maximum rate. All ports are
* configured in MAC loopback mode and each port is paired with a same speed
* port. The test calculates the number of packets needed to saturate the ports
```

```
* and send the IPv4/IPv6 packets from the CPU to each port pairs initially.
* Then the packets are L3 switched between the port pairs indefinitely. The
* MAC DA, MAC SA, and VLAN are changed every time a packet is L3 switched. Once
* the traffic reaches steady state, rate calculation is done by dividing the
* transmit packet count changes and transmit byte count changes over a
* programmable interval. The rates are checked against expected rates based on
* port configuration and oversubscription ratio. Finally, packet integrity
* check is achieved by redirecting the packets back to the CPU and compared
* against expected packets.
*
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*         ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swill. Setting this to 0 will let the
*          test calculate the number of packets that can be sent to achieve
*          a lossless swirl at full rate. Set to 0 by default.
* RateCalcInt: Interval in seconds over which rate is to be calculated
* TolLr: Rate tolerance percentage for linerate ports (1% by default).
* TolOv: Rate tolerance percentage for oversubscribed ports (3% by default).
* ChkPktInteg: Set to 0 to disable packet integrity checks, 1 to enable
             (default).
* MaxNumCells: Max number of cells for random packet sizes. Default = 4. Set
*             to 0 for random.
* IPv6: Set to 1 to send IPv6 packets, 0 to send IPv4 packets (default).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_l3uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbchipc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SiliconBackplane Chipcommon core hardware definitions.
*
* The chipcommon core provides chip identification, SB control,
* jtag, 0/1/2 uarts, clock frequency control, a watchdog interrupt timer,
* gpio interface, extbus, and support for serial and parallel flashes.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbchipc.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_tmd_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_tmd_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWctDpEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWctDpEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwWctDpEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xmac_drv.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC XMAC DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/xmac_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
*  E-Tree script
*
* $Id: etree_cint.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/etree_cint.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe1600_fabric_links.c,v 1.27 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC LINKS
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_links.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log (BSL)
*
* BSL globals for EXTERNAL (application) usage.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/bslnames.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bslnames.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: interrupt_handler.c,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dcmn/interrupts/interrupt_handler.c
No license file was found, but licenses were detected in source scan.

This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/Makefile.LE
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/Makefile.LE
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/Makefile.LE
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: client_rx.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       client_rx.c
* Purpose:     Client implementation of bcm_rx* functions.
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/client_rx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_framework.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_framework.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_framework.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_range.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*     Range comparison support.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_pp_kaps_arm_image.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_kaps_arm_image.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: miim.c,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MII Management (MDIO) bus access routines for reading and writing PHY
* registers.
*
* BCM5690 has an internal MDIO bus in addition to the external one.
* The internal bus is accessed by setting bit 7 in the PHY ID.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/miim.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfKaEpIpTwoBitEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTwoBitEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X spi register definition
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/nspspireg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hw_log.h,v 1 2014/09/22 12:12:10 Miry Heller Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Crash Recovery Mechanism.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hwstate/hw_log.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: merlin_quadra28_enum.h 925 2015-02-24 23:23:58Z kirand $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                        *
*                                                        *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_init.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_dram.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_modid_group_map.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF MODID GROUP MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/dnxf_modid_group_map.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_trap_mgmt.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_trap_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ofp_rates.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_eyescan.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF EYESCAN
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/dnxf_eyescan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp_test.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/diag_pp_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rlink.c,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Remote asynchronous operations including linkscan, L2 address
```

```
* change notification and RX tunnelling.  Only provides connection
* service for tunnelling.  The tunnelled packet handler is registered
* directly with RX and doesn't go through RLink notify.
*
* The client side:
* - remembers the application callbacks
* - sends an RPC to the server side indicating that registration has
*   happended
* - registers with ATP to receive remote link notifications
* - For linkscanning, when an ATP packet is received, does a
*       bcm_port_info_get to the remote side and then calls the
*       application callback
*
* The server side:
* - receives the registration RPC from the client
* - remembers which units have been registered
* - Registers with the proper local function
*       (eg, bcm_linkscan_register) on the local unit
* - when a local callback happens, sends an ATP back to any
*   registered clients
*
* There is a thread that's started on both client and server sides to
* handle the RPCs and packet handling without deadlock.  A single thread
* handles both client and server side.
*
* rlink was originally designed for a master-slave architecture.
* There are two master change situations that may occur:  The stack
* changes so that the master is still present but is no longer the
* master.  For this case, there are two sub cases:  The slave remains
* a slave to the new master, or it becomes the master itself.
*
* The second scenario is that the master disappears from the stack.
* This has the same two subcases as above.
*
* In the second case, we might get a "de-registration" call from the
* old master when it detaches.  But if communication is already torn
* down, we may not; and in the second case, we definitely won't get
* a teardown message.
*
* Because of these situations, rlink now will overwrite information if
* a new registration appears from a different requesting CPU.  This
* has two implications.
*
* First, rlink will not support peer-to-peer connections.  Some L2
* synchronization code may be peer-to-peer; either it won't use rlink,
* or rlink will change.
*
* Second, this may open a security hole since a rogue might be able
```

```
* to overwrite the current info.  rlink expects a layer of security
* above its calls.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/rlink.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Fundamental constants relating to IP Protocol
*
* $Id: bcmip.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/proto/bcmip.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eav.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Ethernet AV BCM APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/eav.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyident.h,v 1.137 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyident.h
* Purpose:     Basic defines for PHY Model/OUI/Rev for PHY identification.
* Note:        This header file is for PHY driver module. Should not include
*              this header file in SOC or BCM layers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyident.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_chip_defines.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_chip_defines.c
*
* FILE DESCRIPTION: soc_sand chip general utilities
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_chip_defines.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ram_defi.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_ram_defi.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_board_general.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/utils_board_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.464 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Memory (Table) Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueStateEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueStateEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx_los_db.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RX LOS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dcmn/rx_los/rx_los_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.68 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_dnx-B Multicast Implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/multicast.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbx_file.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    dbx_file.c
* Purpose:    Misc. routines used by export/import/show facilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/dbx/dbx_file.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpVlanIndTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Tracks and manages IPMC tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmtwolevelgp.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmtwolevelgp.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  falcon2_dino_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: falcon2_dino_functions.h 1282 2015-12-04 12:20:52Z eroes $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.h,v 1.187 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/drv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2AEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2AEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2013, Broadcom Corporation. All Rights Reserved.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/genpll.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/genpll.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCfgTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredCfgTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredCfgBaseEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredCfgBaseEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	bcm_utils.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph.h,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	triumph.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/triumph.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Console Sink
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bsldnx.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bslcons.c
No license file was found, but licenses were detected in source scan.

```
/*
/* $Copyright: (c) 2016 Broadcom.
/* Broadcom Proprietary and Confidential. All rights reserved.$
$Id$
*/
/*!
\page temod-doc TEMod Documentation

\tableofcontents

\section temod-intro Introduction to TEMod/EagleMod

TSCE is a 28 nm quad link full physical layer interface designed to support link
speeds from 10M up to 42G. It consists of the TSC PCS sublayer and the
Eagle PMD sublayer.  TEMod, <b>T</b>DM Serdes controller <b>E</b>agle
<b>Mod</b>ule, is the software driver for TSCE. The Eagle is also used
standalone for non-PCS applications. EagleMod, <b>Eagle</b> <b>Mod</b>ule is the
software driver for Eagle.

TEMod is a source-code distributable C library that implements a hardware
abstraction layer for all the configuration modes of the 10G Broadcom phy IPs.
The phy can contain the PCS sub-layer working in concert with the PMD sub-layer,
(in which case the phy is called TSCE) or can be the PMD sub-layer only (in
which case the phy is called Eagle). The OSI reference model is shown below as a
quick reference. However this document expects the reader to be familiar with
not only general PHY architecture both the TSCE-PCS+PMD and the Eagle-PMD
architectures.

@image html osilayers.jpg "OSI LAYERS"

Acronyms used in this document are at http://www.broadcom.com/press/glossary.php

TEMod has an unambiguous interface to system platforms: Platforms can
be software platforms like MDK, SDK, customer specific software OR validation
platforms including HDL (verilog/systemVerilog/Vera) based testbenches.
TEMod has a tiered structure which progressively encapsulates register accesses
and sequences hiding complexities of register addressing, and access protocol
implementations.  The first layer, 'Tier1 functions' each partially configure
the TSCE. and are used to create comprehensive configurations in the
calling 'Tier2' layers. Tier2 layers are called by PHYMod dispatch layers which
are connected to PHYMod APIs. These APIs can be  called from customer code such
as BCM APIs  or diag shell commnds in Broadcom-SDK,

Tier1 procedures don't have a fixed argument list like in the past. They accept
```

variable number of arguments and return success/failure code. If additional values need to be returned, calling layers pass references which the tier1s will modify. For example, to get the serdes Identification, pass a integer pointer to the tier1 which reads the serdes id.

All tier1 functions operate on a single core. It can be used to access multiple lanes within the TSCE, sometimes simultaneously (a.k.a broadcast) but it cannot access multiple TSCEs simultaneously. This is true even for TSCE12 (which is built using 3 TSCE cores).

TEMod documentation is created using doxygen and follows the TEMod code structure. The following files contain relevent documentation.

\li \ref temod_doc.h : Basic documentation not specific to the code. (this file)
\li \ref temod_cfg_seq.c : TSC PCS Tier1 sequences
\li \ref temod_enum_defines.c : Enumerated type related functions.
\li \ref temod_diagnostics.c : Diagnostic information of the PHY.
\li \ref temod_sc_lkup_table.c : The speed look up table in PCS.
\li \ref eagle_tsc_interface.h : Eagle PMD Tier1 sequences.

TEMod configures PHYs per logical port. Usually a specific lane of the port is all that needs to be accessed to program the port.

-# lane 0 -> quad lane modes
-# lane 0/2 for dual modes
-# lane '0/1/2/3' for single lane modes

However the lanes can also be explicitly selected. The lane specific information, when operating on multiple lanes, is encoded in an integer type (usually 1 byte per lane). When the information doesn't 'fit' into 8 bits, we pass in multiple arguments as required.

\section portmode-lane Port modes and lanes of TSCE

TSCE is a quad lane PHY. It supports one or more ports based on port-modes.

-# Single Port Mode
 -# All lanes combine to form a single port
-# Dual Port Mode
 -# Lanes 0 and 1 combine to form a dual port
 -# Lanes 2 and 3 combine to form another dual port
-# Tri1 Port Mode
 -# Lanes 2 and 3 combine to form a dual port
 -# Lanes 0 forms a single lane port
 -# Lanes 1 forms a single lane port
-# Tri2 Port Mode
 -# Lanes 0 and 1 combine to form a dual port
 -# Lanes 2 forms a single lane port

-# Lanes 3 forms a single lane port
-# Quad Port Mode
-# Lanes 0 forms a single lane port
-# Lanes 1 forms a single lane port
-# Lanes 2 forms a single lane port
-# Lanes 3 forms a single lane port
-# Multi Core Mode (TSCE12 only)
-# Three cores are used to form a single core.
-# Each of these 3 cores can be independent (and have all portmodes above)
-# They combine to form a 100G/106G port (10 lanes, 2 lanes unused)
-# They combine to form a 120G/127G port (12 lanes)
-# QSGMII Port mode
-# TBD.

We can have 1/2/3/4 ports per core. Each port can support different speeds.

\section regacc-sec TEMod Register Access Methods

TSCE does not use traditional MDIO bus protocol but instead uses the TO_TSC bus. TO_TSC is an 8 bit high speed bus, connected to the SBUS via an indirect accessing scheme at chip level. It has a 32 bit address with the following fields.

-# Bits 15:0 : 16-bit register address.
-# Bits 18:16 : AER mode. The ports and lanes affected are as follows.
-# 0: Port 0 - one lane (Logical Lane 0)
-# 1: Port 1 - one lane (Logical Lane 1)
-# 2: Port 2 - one lane (Logical Lane 2)
-# 3: Port 3 - one lane (Logical Lane 3)
-# 4: Port 4 - two lanes (Logical Lanes 0 and 1)
-# 5: Port 5 - two lanes (Logical Lanes 2 and 3)
-# 6: Port 6 - four lane (Logical Lanes 0, 1, 2, and 3)
-# 7: Undefined.
-# Bits 23:19 : Port ID. The TSCE has up to 4 ports.
-# 0:Port 0 ID = prtad_strap_dst
-# 1:Port 1 ID = prtad_strap_dst + 1
-# 2:Port 2 ID = prtad_strap_dst + 2
-# 3:Port 3 ID = prtad_strap_dst + 3
-# Bits 31:27 : Device ID (0 or PCS, 1 for PMD)

prtad_strap_dst is a strap used to identify an instance of a TSCE within a chip. This value is inserted in the 23:19.

To broadcast to registers of 4 lanes, set 18:16 to '6'. There is another elaborate broadcast mechanism involving a special register main0_prtad_bcast (broadcast to ports whose main0_multiPRTs_en bit are set). Ignore that. It is an artifact of TSC12 register access broadcast. The TSC12 does not have a 12 lane broadcast facility, though this information was in the works at one time.

Typically the TSCE is embedded in port hardware. The PHY access is made by using a port level interface (there are a couple: SBUS or PBUS) mechanism. This mechanism writes to a memory (ucmem) in the port. Port logic will then translate this to TSCE understandable TO_TSC protocol. This indirection is true for both registers and memories. The next few sections explain the register and memory access mechanisms from the port level.

\subsection bcst-sec The Port indirect address mechanism to access PHY

TSCE Register accesses are performed by accessing the PORT_WC_UCMEM_DATA memory in the port sub-system. Software will have to access the memory and some associated port registers.

\subsubsection irw TSC Register write.

```
-#  Program PORT_WC_UCMEM_CTRL.ACCESS_MODE to 0
 -# 0 to access the TSC registers
 -# 1 to access the TSC ucode memory
-#  Do a MEM_WR to the zeroth entry (16B or 128b) of PORT_WC_UCMEM_DATA memory
 -# 127-65 : Don't care
 -# 64     : 1 (reg. write)
 -# 63-48  : Write data
 -# 47-32  : Write Mask
 -# 31-0   : TSC Address
```

\subsubsection irr TSC Register Read

```
-#  Program PORT_WC_UCMEM_CTRL.ACCESS_MODE to 0
 -# 0 to access the TSC registers
 -# 1 to access the TSC ucode memory
-#  Do a MEM_WR to the zeroth entry (16B or 128b) of PORT_WC_UCMEM_DATA memory
 -# 127-65 : Don't care
 -# 64     : 0 (reg. write)
 -# 63-48  : Don't care
 -# 47-32  : Don't care
 -# 31-0   : TSC Address
-#  Do a MEM_RD to the zeroth entry (16B or 128b) of PORT_WC_UCMEM_DATA memory
 -# The read data will be in 47:32 of the zeroth entry.
```

\subsubsection imr TSC Memory Write

```
-#  Program PORT_WC_UCMEM_CTRL.ACCESS_MODE to 1
 -# 0 to access the TSC registers
 -# 1 to access the TSC ucode memory
-#  Do a MEM_WR to any of the 2K entries of PORT_WC_UCMEM_DATA memory
 -# TSC ucode mem.addr. is got from the PORT_WC_UCMEM_DATA memory entry no.
 -# 127-0  : 16 bytes of data
```

\subsubsection imw TSC Memory Read

-# Program PORT_WC_UCMEM_CTRL.ACCESS_MODE to 1
-# 0 to access the TSC registers
-# 1 to access the TSC ucode memory
-# Do a MEM_RD to any of the 2K entries of PORT_WC_UCMEM_DATA memory
-# TSC ucode mem.addr. is got from the PORT_WC_UCMEM_DATA memory entry no.
-# 127-0 : 16 bytes of data is returned on SBUS

\section regmacro-sec User Register Access

TEMod configures the PHY by accessing its registers. Since multiple platforms adopt TEMod, it has a virtual register access method to read, write, and modify registers. TEMod uses a auto-generated macro set to identify registers individually. The macros call these virtual routines which eventually attach to platform specific register access methods, such as device driver functions or verilog tasks.

The virtual register access function is described below using the 'read' function as an example. Write and modify are similarly implemented.

```
\code
Register: PHYID2 (Adr:0x0002). This is a read only IEEE Id. register
READ_PHYID2r(pa, ...)
 -> phymod_tsc_iblk_read(pa, ...)
    -> PHYMOD_BUS_READ(pa, ...)
       -> phymod_bus_read(pa, ...)
          -> pa->read(...)
\endcode
```

The last function is actually a pointer to the read function supplied by the platform. For most chips it will be a PCIE transaction which calles an internal system bus (SBUS/PBUS for serial or parallel versions) protocol which the hardware translates to TO_TSC protocol bus of TSCE. For chips that just use the Eagle PHY (like FE3200), the the SBUS/PBUS translates to MDIO protocol. Note, both PCS and PMD registers are accessed similarly, differing only in their devid fields.

Some user level examples for broadcom-SDK diagshells are listed below. For more details please refer to http://confluence.broadcom.com/display/NTSWSW/PHYMOD+Simulator and click on 'SDK CLI with TSC/Eagle Simulator' The register access section has extensive examples of how to access registers.

To read a PCS register, (0xabcd), do the following.

```
\code
BCM.0> phy xe0 0x0abcd  ## lane 0
```

```
BCM.0> phy xe0 0x1abcd  ## lane 1
BCM.0> phy xe0 0x2abcd  ## lane 2
BCM.0> phy xe0 0x3abcd  ## lane 3
\endcode
```

Similarly, to write a PCS register, (0xabcd), do the following.

```
\code
BCM.0> phy xe0 0x'n'abcd  ## lane 'n'
\endcode
```

To broadcast write a PCS register, (0xabcd), do the following.

```
\code
BCM.0> phy xe0 0x6abcd  ## bits 18:16 -> 6 means broadcast
\endcode
```

PHYMod supports symbolic register access. This makes it easier to read registers without having to remember the addresses. Please note that the register name is transformed to an easier name. This will be reflected in the register documentation for TSCE.

Here are some examples of how to use symbolic names.

List the DME LOCK register. This gives the address and field info.

```
\code
BCM.0> phy xe0 AN_CL73_DME_LOCKr
Port xe0:
AN_CL73_DME_LOCKr [0x70109255] = 0x0000
    PD_DME_LOCK_TIMER_PERIOD<15:0>=0x0
\endcode
```

Let's say you know the address but not the symbolic name. You can do a reverse lookup

```
\code
BCM.0> phy xe0 list 0x9255
Port xe0:
Name:    AN_CL73_DME_LOCKr (AN_X1_TIMERS_CL73_DME_LOCK)
Address:  0x9255 (1 copy only)
Fields:   1
    PD_DME_LOCK_TIMER_PERIOD<15:0>
\endcode
```

Now let's read the laneswap register. (Note: We will now only read the relevent lane of the port. If there are two or four copies of these registers, you will have access only to the active lane of that port. For example if this is a single port mode (like 40G) you will read the register in lane 0.

```
\code
BCM.0> phy xe0 raw LANE_SWAPr
```

Port xe0:
LANE_SWAPr [0x70109003] = 0x00e4
\endcode

Write to laneswap register
\code
BCM.0> phy xe0 LANE_SWAPr 0x1b
BCM.0> phy xe0 raw LANE_SWAPr
Port xe0:
LANE_SWAPr [0x70109003] = 0x001b
\endcode
Reset the register. i.e. reset the register to the advertised post-reset
default.
\code
BCM.0> phy xe0 reset LANE_SWAPr
\endcode
Verify that the reset took effect.
\code
BCM.0> phy xe0 raw LANE_SWAPr
Port xe0:
LANE_SWAPr [0x70109003] = 0x00e4
\endcode

Wild cards are allowed in symbolic access.
You can list all registers:
\code
BCM.0> phy xe0 list *
\endcode

You can even reset all registers.
\code
BCM.0> phy xe0 reset *
\endcode

\section funclist-set The TEMod Tier1 function list.

The list of Tier1 functions and documentation is in \ref temod_cfg_seq.c
and \ref eagle_tsc_interface.h

\section config-sec Configuration of the PHY

The TSCE PHY has two PHY sub-layer components. The PCS and the PMD sub-layer.
The PMD sub-layer is referred to as Eagle. The PCS layer is sometimes referred
to as TSCE or PCS. The PHY is configured by configuring both PCS and PMD sub
layers. The PHY driver in this case is called TEMod. In some applications where
the switch talks to the fabric interface, for example, only the PMD sub-layer is
used (aka Eagle). The PHY driver in this case is called EagleMod.

The term 'PMD' encompasses both PMD/PMA sub layers and AFE. The Eagle PMD used in TSCE is a 40Gbps quad Serdes, basic configuration being a quad 10Gbps serdes targeted for optical and backplane applications. It supports raw data rates from 6.25bps to 10.9375 Gbps.

\subsection pcscfg-sec PCS Configuration

PCS is configured while keeping the datapaths in reset.

-# reset
-# configure the PCS
-# release reset

PCS configuration is mainly dependent on the link baud rate. This defines the speed at which to run the PCS. Speed will also define the number of lanes and portmode required.

The PCS configuration can be done in one of four ways.

-# canned configuration
-# canned+override configuration
-# custom configuragtion
-# Bypass configuration

TEMod only supports the first three methods. The fourth mode is used in debug efforts outside of TEMods control.

\subsection cnspd canned configuration

PCS has a built in table (aka Speed config Table or SC table), for all supported speeds. In canned configuration mode, TEMod selects the table entry of the required speed and triggers the speed config. hardware in PCS to configure all PCS sub-systems. This is the simplest mode of configuring the PCS. Note: A copy of the SC table is stored in TEMod, mostly for verification and override purposes. You can see it in \ref temod_sc_lkup_table.h as a structure #sc_table_entry_t

\subsection cnospd canned+override speed

In canned+override speed mode PCS uses the SC table for supported speeds, however but selectively overrides some of the configurations.

\subsection custspd custom speed

In custom speed mode PCS has four programmable SC table entries for four custom speeds. TEMod can set the complete entries with custom configuration.

\subsection bypassspd bypass speed

In bypass configuration mode the PCS SC table is not used. All sub-systems in PCS are to be configured by TEMod, and further the resets of PCS and PMD are to be orchestrated by TEMod. TEMod does not support this mode. Raw register programming/scripts should be used for this purpose.

Once the PCS is fully configured by any of the 3 (non bypass) methods above, TEMod writes to a speed register (SW_SPEED register) in PCS, and sets the SW_SPEED_CHANGE bit. This triggers the PCS to fully configure itself.

The next stage is to program the PMD.

\subsection epmdcfg-sec PMD Configuration

The comprehensive guide to Eagle PMD configuration is in the Eagle Programmers Guide.
http://ingbu.broadcom.com/hsip/serdes/eagle/User%20Documentation/PMD/Eagle%20Programmers%20Guide.pdf

A significant improvement in the PMD architecture is reset management and the relationship between resets and configuration. PMD supports the following reset controls.

-# PMD hard reset. (power on) (comes from primary input only)
-# PMD core Datapath reset (comes from primary input and PMD register)
-# PMD Lane Datapath reset (comes from primary input and PMD register)

All configuration to PMD is done while the datapaths are in reset. All configuration is realized when PMD datapath is out of reset.

The resets are controlled by both PCS and by TEMod. This is shown below.

@image html pmd_resets.jpg "PMD RESETS"

The Eagle PMD IP can be used in two ways.

-# Independent (Standalone) (example SPDR2 chip)
-# Dependent (PCS linked) (example Trident2 chip)

PMD is configured by a combination of TEMod and the PMD firmware (ucode). the ucode gets its information either from TEMod or from a mailbox register associated with the PCS. The configuration procedure depends on the link being set via auto-negotiation or forced speed. So there are multiple different procedures to bring the PMD to the required configuration (explained further below)

Some mode/PCS agnostic PMD attributes are always configured by TEMod. For details, please refer to the Eagle Programmer's guide.

As the general first step, TEMod takes PMD out of hard reset. This allows TEMod
to access the PMD registers. However all configuration is done with the PMD
datapaths kept in reset. The configuration takes effect, sort of atomically,
when TEMod or PCS takes PMD datapaths out of reset.

-# Take PMD out of hard reset
-# Keep PMD in datapath reset
-# program core specific parameters
-# program lane specific parameters
-# Take PMD out of datapath reset

\subsubsection ind-prog-sec Independent Mode Programming

In this case, the TSC-PCS is not involved. The driver employed is 'EagleMod'.
The required PMD configuration is done entirely by EagleMod. To program the PMD.
The EagleMod sequence will look like so.

-# Hold the PMD in reset
-# Program the PMD as mentioned in \ref epmdcfg-sec
-# Unreset the PMD

\subsection dep-ecfg-sec PCS Dependent Mode PMD configuration

In dependent mode configuration, PMD and PCS together form a PHY. If the PHY is
in forced speed mode PCS and PMD are fully configured by TEMod. In auto
negotiation mode PCS is programmed by TEMod and certain aspects of PMD
configuration are done by ucode using PCS hints.

Forced speed and auto negotiation links require different treatment. In forced
speed mode, PMD is configured entirely by TEMod. In auto negotiation modes, PMD
configuration must be done after auto negotiationotiation has resolved the link
rate. At this point TEMod cannot be involved, So PCS configures the PMD. The PCS
writes the configuration to a PMD register which is picked up by the ucode,
which then configures the PMD. (ucode cannot program PMD without this info).

PCS sends both per core and per lane 20 bit encoding to ucode as shown below.

\li Core dig_com_pmd_core_mode_status:{Rsrvd[3:0], OTP_options[3:0], core_speed_id[7:0]}
\li Lane ckrst_ctrl_pmd_pmd_lane_mode_status:{Rsrvd[4:0], CL72_en, scrambler_dis, eee_mode_en,
lane_speed_id[7:0]}

The PMD ucode reads the info in these registers, decodes it and configures PMD
blocks. The ucode is directed to either honor or ignore these register by TEMod.
TEMod provides this direction depending on the port being in auto negotiation or forced
modes. Two PMD fields are used for this purpose

\li core_config_from_pcs
\li lane_config_from_pcs

More details of this in the Eagle Programmer's guide.

@image html phy28-pcs-pmd-cfg.jpg "PCS PMD CONFIGURATION"

\subsection fs-mode-sec Forced speeds Mode

In forced speed mode, the PCS and PMD are configured completely by TEMod. The
PHY configuration will be as shown below
reset.
-# Configure PMD as mentioned in \ref epmdcfg-sec
-# Program the PCS (use one of the init, set up speed)
-# (Wait for status update and read Status registers)
-# (Compare PCS Stats)
-# (PCS will release the PMD resets. PMD will start cranking)
-# (Wait for PLL_LOCK. If PMD is out of reset, pll will lock)
-# (Wait for PMD_LOCK. If PMD is out of reset and receeiving data PMD will lock)
-# Wait for PCS_LINK

-# Take PMD out of hard reset.
-# Reset the config_from_pcs (to 0), so PMD config is software controlled.
-# Reset PMD. This step is not needed if PCS is holding PMD in reset.
-# Program the PMD as mentioned in \ref epmdcfg-sec
-# Unreset PMD datapath. If PCS is holding PMD in reset, it will still be in reset.
-# Program the PCS (init, set up speed)
-# (Wait for status update and read Status registers)
-# (Compare PCS Stats)
-# (PCS will take PMD datapaths out of reset.)
-# (Wait PLL_LOCK)
-# (Wait PMD_LOCK)
-# (Wait for PCS_LINK)

Steps in parenthesis are not required, but are mentioned because they can
be added in the driver for diagnostics.

Note: QSGMII modes are different. It involves QSGMII PCS and not the TSCE PCS.

-# TEMod sets TSCE-PCS in ILKN mode. (bypasses datapath into QSGMII PCS)
-# TSC-PCS no longer controls the PMD resets.
-# TEMod configures PMD for required speed.
-# TEMod configures QSGMII-PCS (1G/100M/10M only for now)
-# (Wait for PLL_LOCK. If PMD is out of reset, pll will lock)
-# (Wait for PMD_LOCK. If PMD is out of reset and receeiving data PMD will lock)
-# QSGMII-PCS will come out of reset when it sees pmd_lock.

\subsection pmd-aneg-sec Auto-Negotiation Mode

In auto negotiation modes, the PMD is first minimally configured so that the AN pages can

be exchanged. Initially TEMod will set PMD for the relevant AN mode (CL37AN or CL73AN). It will keep PMD in reset, configure it, and unreset it. After this the pages get exchanged and PCS will resolve the actual speed. It will now again put the
PMD in reset, and reconfigure the PMD to the new resolved speed.

The TEMod programming sequence for AN will look like so.

-# TEMod configures PMD attributes.(for CL37 or CL73 exchange)
-# TEMod sets cfg_from_PCS bit. (i.e. future programming from PCS)
-# Unreset the PMD datapath.
-# Program the PCS (for CL37 or CL73 auto negotiationotiation)
-# TEMod creates a posedge on auto-neg_enable/restart bit in PCS.
-# (now AN page exchange happens and resolves to a certain speed)
-# (PCS will now reset the PMD)
-# (PCS will configure the PMD with the help of ucode.)
-# Wait for auto negotiation complete indication from PCS or PCS_LINK

-# Set the config_from_pcs (to 1), so PMD config is software controlled.
-# TEMod configures PMD.(for CL37 or CL73 exchange)
-# TEMod sets cfg_from_PCS bit. (i.e. future programming from PCS)
-# Unreset the PMD datapath.
-# Program the PCS (for CL37 or CL73 auto negotiationotiation)
-# TEMod starts auto negotiation via auto-neg_enable/restart bit in PCS.
-# (now AN page exchange happens and resolves to a certain speed)
-# (PCS will now reset the PMD)
-# (PCS will configure the PMD with the help of ucode.)
-# Wait for auto negotiation complete indication from PCS or PCS_LINK

\section els-sec Lane Swap

Lane swapping provides a means to associate any specific component of the MAC byte stream to any physical PMD lane. In simpler terms any physical data stream can be associated with any logical port by lane swapping. This association is configurable in both PCS and PMD sub-layers.

The physical lanes in PMD can be switched to represent different logical lanes. TX and RX are independently software controlled. In the Eagle PMD, only the TX of lanes are swappable. RX is fixed.

The PCS laneswap configuration works slightly differently. It is paired so that both TX and RX will be swapped at once.

For a complete laneswap solution both PCS and PMD laneswapping should be used. The PCS should first be configured to 'fix' the RX. At this point, the RX paths will be correct, but the TX will not. The PMD should now be configured to 'fix' the TX. Thus, even though the PCS and PMD lane swapping are independent, TEMod must ensure that swapping is meaningful.

Lane swapping also changes the configuration access. i.e. the physical lane being configured will be different from the logical lane due to lane swapping. Therefore swapping is configured while the datapath is in reset making it a static configuration. Dynamic swapping is not supported.

As a simple example, consider the need to swap the physical RX lane 0 to logical port 3. The PCS is first configured to swap the entire RX/TX Lane 0 pair to logical port 3. The PMD is then configured to swap the tx of lane 3 to lane 0.

From customers perspectives, they need to set the soc preperties xgxs_tx_lane_map and xgxs_rx_lane_map to control lane swap in the chip in order to compensate the lane swap in the board routing. Historically the notation for WC platforms (TD+ and TR3) xgxs_tx_lane_map is physical lane base, but xgxs_rx_lane_map is the logic lane base. The physical lane base notation is that the digit positions are based on physical lane as P3P2P1P0.

- For example in WC, xgxs_tx_lane_map=0x2031 means
 - physical lane 3 is to connect to logic lane 2,
 - physical lane 2 is to connect to logic lane 0,
 - physical lane 1 is to connect to logic lane 3, and
 - physical lane 0 is to connect to logic lane 1.
- Another WC example for xgxs_rx_lane_map=0x1320 which is logic lane base: it has
 - logic lane 3 is to connect to physical lane 1,
 - logic lane 2 is to connect to physical lane 3,
 - logic lane 1 is to connect to physical lane 2, and
 - logic lane 0 is to connect to physical lane 0.

The notation for TD2 and TD2+ are the opposite: xgxs_tx_lane_map is logic lane base, and xgxs_rx_lane_map is the physical lane base due to different mapping design.

Otherwise the rest of platforms for TSCE and TSCF should assume both xgxs_tx_lane_map and xgxs_rx_lane_map are all logic lane base.

\image html phy28laneswap.jpg

\section loopback-usage Loopbacks

Loopbacks are controls to alter datapath for diagnostic purposes. At the PHY level the following loopbacks are supported. The term 'gloop' mean global loop backs and 'rloop' means remote loopback. In general loopbacks are supported for all speed modes. TSCE does not support loopbacks when autonegotiation is enabled. TSCE does not support gloops when link training (CL72) is enabled. For ports which use autonegotiation or link training, the port has to be reconfigured to a similar forced speed configuration prior to loopback. When loopback is removed, the original configuration can be reapplied.

For rloops, TSCE expects zero ppm offset with link partner. For non-zero PPM, the ppm offset of lane 0 will be applied to all lanes, which may cause inaccuracies.

- PCS-gloop: Loop back data path to system before entering PMD. All PCS blocks are included.
- PMD-gloop: Loop back data path to system before entering Analog serializers/deserializers. The entire PCS datapath is included along with PMD digital datapath.
- PMD-rloop: Loop back data path to line before entering PCS TSCE supports only PMD remote loopbacks.
- PCS-rloop: Loop back data path to line before entering MAC TSCE does not support PCS remote loopbacks.

@image html loopbacks.jpg "Loopbacks in PHY"

\section prbs-usage PRBS and Pattern Generation.

TSCE supports PRBS generation(TX) and check(RX) on a per lane basis. The TX and RX requiremens are decoupled. i.e. they can be on seperate PRBS patterns. This is the default mode in setting PRBS. Please refer to the PRBS section (4.3.1) of the Eagle Programmer's guide for more details.

When PRBS is enabled, PCS cannot send/receive any data and the PCS link comes down. The switch between PRBS and PCS is glitch free and controlled by TMod. When we switch from PRBS back to PCS, PCS will establish the link again. In other words TSCE can switch back and forth from PCS to PRBS. This is very important for KR channels where link training happens in PCS mode. When switching to PRBS, we need to do so without disrupting the trained transmittors/receivers.

There are cases when the PCS is in single port mode (eg. 40G/42G MLD mode) where a switch to PRBS will cause it not only to restart auto negotiation, but also reset the PMD. If this is a trained link this will destroy the trained values of the transmittors/receivers.

For single lane auto-neg lanes the problem is similar but slightly different. Consider two partner trying to bring up PRBS on a link. The first port to send PRBS will bring the PCS link down on its partner, causing the partner to restart auto negotiation. This transition has a flatline which the The local partner will receive causing it to lose signal_detect.

For autonegotiated ports, therefore, we have to disable PCS from restarting autonegotiation and resetting the PMD by overriding the PCS-to-PMD reset controls. This is done by setting 'an_good_trap'. A feature that 'traps' the PCS from completing OR restarting autonegiation.

Following sequence shows how to switch between PCS and PRBS. Autonegotiation

port variation is shown in parenthesis.

- (For AN) Run CL73 (e.g. 1G-KX/10GKR etc. mode)
- (For FS) Set up speed.
- Wait for PCS link up (Happens after speed negotiation and CL72 training)
- (For AN) Set an_good_trap to prevent AN from restarting.
- (For AN) Force signal detect
- Enable PRBS and check error count to reset the count.
- Run PRBS.
- Stop prbs
- (For AN) Release an_good_trap
- (For AN) Remove force signal detect
- Wait for PCS link up again.

We want the signal detect to be forced and an_good_trap to be set before PRBS is enabled on the remote partner. This forces the PRBS sequence to have 3 steps, which is a departure from previous procedures

- PRBS_PREP (an_good_trap/sig_det)
- PRBS_SET (poly, yada yada)
- PRBS_GET (link, error count)

An example sequence of running PRBS in forced speeds using Broadcom SDK diag shell is shown below.
\code
Put xe0 and xe1 are in 10G Forced speed mode.
BCM.0> port xe0 an=f sp=10000
BCM.0> port xe1 an=f sp=10000
BCM.0> ps xe0,xe1
...
BCM.0>
BCM.0> link off
BCM.0> PHY diag xe0 prbs set p=1
BCM.0> PHY diag xe1 prbs set p=1
BCM.0>
BCM.0> PHY diag prbs xe0 get
[you may get errors the first time. Ignore output]
BCM.0> PHY diag xe0 prbs get
xe0 : PRBS OK!
BCM.0> PHY diag xe1 prbs get
[you may get errors the first time. Ignore output]
BCM.0> PHY diag xe1 prbs get
xe1 : PRBS OK!
BCM.0> PHY diag xe0 prbs clear
BCM.0> PHY diag xe1 prbs clear
\endcode

A similar example sequence of running PRBS, but in autoneg mode is shown below.

{Incomplete. FIXIE}
\code
Put xe0 and xe1 are in Autoneg. Assume they will come up
BCM.0> port xe0 an=t ...
BCM.0> port xe1 an=t ....
BCM.0> ps xe0,xe1
...
BCM.0>
BCM.0> link off
BCM.0> PHY diag xe0 prbs set p=1
BCM.0> PHY diag xe1 prbs set p=1
BCM.0>
BCM.0> PHY diag prbs xe0 get
[you may get errors the first time. Ignore output]
BCM.0> PHY diag xe0 prbs get
xe0 : PRBS OK!
BCM.0> PHY diag xe1 prbs get
[you may get errors the first time. Ignore output]
BCM.0> PHY diag xe1 prbs get
xe1 : PRBS OK!
BCM.0> PHY diag xe0 prbs clear
BCM.0> PHY diag xe1 prbs clear
\endcode

\section cnotaft Configuration of CL72(training) and CL74(FEC) for TSCE

CL72(Training) and CL74(FEC) are enabled to improve channel signal integrity. CL72 is physically implemented in the PMD sub-layer. CL74 is physically implemented in the PCS sub-layer. However these features are dependant on link data rates as well. So they are controlled by PCS or TMod as needed. CL72 and CL74 are closely related features and hence are discussed together in this section. However the controls for these features are not related and independently configured. The defaults, and controls are different for auto negotiation and forced speed modes. The controls can be static. For the SDK platform, the controls can be (config or SOC properties) or dynamic(BCM-APIs).

A general rule of thumb is that features are controlled by software (TMod) in forced speed modes and by PMD microcode (ucode) in auto negotiation modes. They will eventually operate on the same set of registers, but the choice is made by the response time required. In auto-negotiation modes, where the configuration is known only after autonegotiation completes.

We will discuss the differences in controls in the next two sub-sections.

\subsection fsccl72774 Forced Speeds Mode Control of CL72 and CL74

CL72 and CL84 are disabled by default for all forced speeds. It can

be enabled for some speeds. This is not really an IEEE mandate but a Broadcom proprietary feature. Currently these features are supported for 10G/10.5G 20G/21G, 40G/42G speeds. Users can control these features dynamically.

\subsubsection lnktrn Link Training (CL72)

As mentioned before users can control CL72 dynamically. As an example, for SDK, CL72 can be controlled dynamically by BCM APIs.

\code
bcm_port_phy_control_set(0 /*unit*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_doc.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: tdm_td2p_vec.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM vector library for BCM56860
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/trident2p/tdm_td2p_vec.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: stack.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: stack_int.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/stack.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File: sw_state_issu_tests.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sw_state_issu_tests.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmarena.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmarena.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_enhance_application_fap.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_enhance_application_fap.c
* Purpose: Example for enhance multicast fabric application
*
* Settings include:
*  o      Enable Enhance mode and accordingly set FMQ queues range.
*  o      Obtain HRs (FMQ classes) from enhance application.
*  o      Set bandwidth and max burst limitations as seen in the figure below.
*  o      Create E2E hierarchy.
*  o      Set multicast groups.
*
* Default settings:
* In this example, the following is assumed:
*  o      Fabric is connected (make sure fabric_connect_mode is "FE").
*  o      diag_init application is executed without cosq configuration (parameter cosq_disable is 1).
* See figure below, with all settings as specified (with default parameters).
*
* Testing traffic can be done via TM or PP packets.
* You need to set traffic with three streams: Destination Multicast, Destination ID MC 1-3.
* For expected results, follow this example.
*
* You can also use the individual functions that are included in the example
* in order to configure different settings for FMQ APIs (refer to documentation in code below).
```

```
*
* Note: You can specify different parameters for these examples including
* traffic port, different FMQs, multicast groups.
*
*
~~~
```

```
* This can be set by calling parameter diag_cosq_disable=1
* Also fabric connect mode must be enabled i.e. fabric_connect_mode=FE
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_enhance_application_fap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: console.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  console.c
* Purpose: User TTY I/O
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/linux/console.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkAllApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:     Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkAllApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dnx_dispatch.h
* Purpose: dnx driver BCM API dispatch table
```

```
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_koi_field_access.h                                  *
*  Created On    :  29/04/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Serdes IP Register and Field access APIs                   *
*  Revision      :  $Id: merlin_koi_field_access.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ast.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_ast.c
* Purpose:     CINT AST node functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_ast.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_655.c,v 2.0 2016/10/20
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-6.5.5 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/compat/compat_655.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/l2.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ddrc16.h
* Purpose: PHY info for ddrc16
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ddrc16.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaPortPriEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaPortPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_koi_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  APIs for Serdes IPs ported over from DV                    *
*  Revision      :  $Id: merlin_koi_dv_functions.c 1103 2015-08-14 16:57:21Z kirand $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*     Broadcom Corporation                                                     *
*     5300 California Avenue                                                   *
*     Irvine, CA  92617                                                        *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp16BitRewrite.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIp16BitRewrite.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_system_red.c,v 1.2 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_system_red.c
* Purpose: Example System RED Validation
* Reference: BCM88650 TM Device Driver (System )
*
* Environment:
*
* The following application example assumes the following system configuration:
*
* IMPORTANT: this cint configure only the System RED, it does not configure the system application (port, voq,
scheduling...)
*
*   gp:0x24000080   cos:8            Unicast Queue Group    mod: 0   port:12 voq: 128)
*   gp:0x24000088   cos:8            Unicast Queue Group    mod: 0   port:13 voq: 136)
*   gp:0x24000090   cos:8            Unicast Queue Group    mod: 0   port:14 voq: 144)
*
*                           in-ports: 12, 13
*                           out-ports: 14
*                                --------
*                           -------|      |
*                       in_ports     |      | out_port
*                           -------|      |--------------
*                                |      |
*                                --------
*
*
*  Application description:
*    1. PP application, including 2 fap_ports, connected to Traffic Generator.
*    2. UC traffic configuration: 2 streams on each port, each stream has a different DP.
*        Port_1: X% green and (1-X)% yellow.
*        Port_2: (1-X)% green and X% yellow.
*    3. System RED configuration is set to prefer  green packets, over yellow.
*    4. Qs: Each port is destined to a different Q, both Qs goes to the same destination Port.
*    5. EGQ/SCH: are configured to set RR between the Qs (no strict priority).
*    6. Set high rate class drop thresholds (make sure only system red mechanism  is dropping).
*
*
* Test Run:
*    1. Configure system according to instruction  above
*    2. Run config_system_red_param().
*    3. inject packets according to the instruction  above
*    2. Expected Output:
*        a. Validate that only low p. packets are dropped, according to S_RED thresholds.
*        b. On port_1 the traffic bandwidth  should be X%     (only green pass)
*        c. On port_2 the traffic bandwidth  should be (1-X)% (only green pass)
*
```

```
* Output example A:
*    1. 10Gb port
*    2. X = 90%
*    3. for out_port, tc_1: EGQ_PQP_UNICAST_BYTES_COUNTER = 9.000387 Gbps
*    4. for out_port, tc_2: EGQ_PQP_UNICAST_BYTES_COUNTER = 1.027330 Gbps
*
* Output example B:
*    1. 10Gb port
*    2. X = 70%
*    3. for out_port, tc_1: EGQ_PQP_UNICAST_BYTES_COUNTER = 6.975541 Gbps
*    4. for out_port, tc_2: EGQ_PQP_UNICAST_BYTES_COUNTER = 2.985351 Gbps
*
*
* All the configuration example is in config_system_red_param():
* Relevant soc properties configuration:
*   system_red_enable=1
*
* Cint running:
 cd ../../../../src/examples/dpp
 cint cint_system_red.c
 cint
 int out_port_voq = 144;
 config_system_red_param_app(unit, out_port_voq);
*
*
* System RED API using example:
*   1. Setting Dbuff, BDB thresholds:
*        Usage example:
         system_red_buff_thrs_example(unit, 144);
*
* Remarks:
*   1. Due to Arad-A0 Bug aging is supported only from Arad-B0.
*   2. config_system_red_param() thresholds  adjusted to 10Gbps port.
*   3. Dbuff, BDB thresholds are global, there for API does not use gport or cosq (need to insert valid values).
*   4. In bcm_cosq_gport_threshold_set(), number of values (thresholds) is 4, and number of dps id 3 (4 bit Source-
Q-size)
*   5. formula for system RED drop probability:
*     a. via bcm_cosq_gport_discard_set(), gport_size.size_max we are configuring DrpProb.
*     b. drop probability = 1 - DrpProb / (64K - 1))
*     c. DrpProb = 1 ==> drop-probability is not 0 but almost always drop.
*     d. DrpProb = 64K - 1 ==> drop-probability = 1 (100%).
*   6. Not validated for PB.
*
*
* Relevant Registers/Tables:
  g IPS_IPS_GENERAL_CONFIGURATIONS
  g IPS_SYSTEM_RED_AGING_CONFIGURATION
  g SCH_SYSTEM_RED_CONFIGURATION
```

```
 d IQM_SRCQRNG

 g IQM_FREE_UNICAST_DBUFF_RANGE_VALUES
 g IQM_FREE_UNICAST_DBUFF_THRESHOLD_0
 g IQM_FREE_UNICAST_DBUFF_THRESHOLD_1
 g IQM_FREE_UNICAST_DBUFF_THRESHOLD_2
 g IQM_FREE_FULL_MULTICAST_DBUFF_RANGE_VALUES
 g IQM_FREE_FULL_MULTICAST_DBUFF_THRESHOLD_0
 g IQM_FREE_FULL_MULTICAST_DBUFF_THRESHOLD_1
 g IQM_FREE_FULL_MULTICAST_DBUFF_THRESHOLD_2
 g IQM_FREE_BDB_RANGE_VALUES
 g IQM_FREE_BDB_THRESHOLD_0
 g IQM_FREE_BDB_THRESHOLD_1
 g IQM_FREE_BDB_THRESHOLD_2

 d IQM_SPRDPRM
 d IQM_SRDPRB

 d IPS_MAXQSZ

 PB:

 g FREEUNICASTDBUFFRANGEVALUES
 g FREEUNICASTDBUFFTHRESHOLD0
 g FREEUNICASTDBUFFTHRESHOLD1
 g FREEUNICASTDBUFFTHRESHOLD2
 g FREEFULLMULTICASTDBUFFRANGEVALUES
 g FREEFULLMULTICASTDBUFFTHRESHOLD0
 g FREEFULLMULTICASTDBUFFTHRESHOLD1
 g FREEFULLMULTICASTDBUFFTHRESHOLD2
 g FREEBDBRANGEVALUES
 g FREEBDBTHRESHOLD0
 g FREEBDBTHRESHOLD1
 g FREEBDBTHRESHOLD2

 d SPRDPRM


 d SRCQRNG
 d SRDPRB
 d IPS_MAXQSZ

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_system_red.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_frwrd_ipv4.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ipv4.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_fem_tag.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_pmf_low_level_fem_tag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_egr_prge_interface.c,v 1.142.2.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_egr_prge_interface.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_f.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_f.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_cnm.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_cnm.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_cnm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Auth definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/auth.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-16x1g+8x10g.bcm,v 1.1.2.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 8x10G+16x1G setup
#
```

```
ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=24
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3
ucode_port.port5.0=clport0.xe.2.0:clport1.hg126.0.4
ucode_port.port6.0=clport0.xe.2.1:clport1.hg126.0.5
ucode_port.port7.0=clport0.xe.2.2:clport1.hg126.0.6
ucode_port.port8.0=clport0.xe.2.3:clport1.hg126.0.7
ucode_port.port9.0=xtport0.ge.0.4:clport1.hg126.0.8
ucode_port.port10.0=xtport0.ge.0.5:clport1.hg126.0.9
ucode_port.port11.0=xtport0.ge.0.6:clport1.hg126.0.10
ucode_port.port12.0=xtport0.ge.0.7:clport1.hg126.0.11
ucode_port.port13.0=xtport0.ge.0.8:clport1.hg126.0.12
ucode_port.port14.0=xtport0.ge.0.9:clport1.hg126.0.13
ucode_port.port15.0=xtport0.ge.0.10:clport1.hg126.0.14
ucode_port.port16.0=xtport0.ge.0.11:clport1.hg126.0.15
ucode_port.port17.0=xtport1.ge.0.0:clport1.hg126.0.16
ucode_port.port18.0=xtport1.ge.0.1:clport1.hg126.0.17
ucode_port.port19.0=xtport1.ge.0.2:clport1.hg126.0.18
ucode_port.port20.0=xtport1.ge.0.3:clport1.hg126.0.19
ucode_port.port21.0=xtport1.ge.0.4:clport1.hg126.0.20
ucode_port.port22.0=xtport1.ge.0.5:clport1.hg126.0.21
ucode_port.port23.0=xtport1.ge.0.6:clport1.hg126.0.22
ucode_port.port24.0=xtport1.ge.0.7:clport1.hg126.0.23

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1230
xgxs_rx_lane_map_ge0=0x3210
xgxs_rx_lane_map_ge8=0x3210

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x1032
xgxs_tx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge8=0x1032
```

```
phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0000
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_ge=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0000
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001


phy_port_primary_and_offset_ge0=0x1000
phy_port_primary_and_offset_ge1=0x1001
phy_port_primary_and_offset_ge2=0x1002
phy_port_primary_and_offset_ge3=0x1003
phy_port_primary_and_offset_ge4=0x1004
phy_port_primary_and_offset_ge5=0x1005
phy_port_primary_and_offset_ge6=0x1006
phy_port_primary_and_offset_ge7=0x1007
phy_port_primary_and_offset_ge8=0x1800
phy_port_primary_and_offset_ge9=0x1801
phy_port_primary_and_offset_ge10=0x1802
phy_port_primary_and_offset_ge11=0x1803
phy_port_primary_and_offset_ge12=0x1804
phy_port_primary_and_offset_ge13=0x1805
phy_port_primary_and_offset_ge14=0x1806
phy_port_primary_and_offset_ge15=0x1807
phy_fiber_pref_ge=1
phy_automedium_ge=1


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
```

```
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-16x1g_8x10g-hg127.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: pca9505.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Phillips PCA9505 i2c switch
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pca9505.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmblkmemmgr.h,v 1.1.6.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmgenerictblmgr/nlmblkmemmgr.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: rx_los.c,v 1.16 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RX LOS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/rx_los/rx_los.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tsn.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tsn.h
* Purpose:     Definitions for TSN.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tsn.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_fec.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_fec.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains multicast definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/multicast.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_lsr.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_copy_pcp_to_dscp_for_ip_packets.c
* Purpose: PCP to DSCP mapping for IP packets example.
*
*
* Run Script:
  cint utility/cint_utils_global.c
  cint cint_multi_device_utils.c
  cint utility/cint_utils_l3.c
  cint cint_ip_route.c
  cint cint_qos_l3_rif_cos.c
  cint cint_field_copy_pcp_to_dscp_for_ip_packets.c
  cint
  // print ip_pcp_dscp(@unit, @port)
  print ip_pcp_dscp(unit, 13);

* 1. Configure InRIF, OutRIF and routing from InRIF to OutRIF
* using basic_example_single_unit from cint_ip_route.c (for more info
* see basic_example in cint_ip_route.c).
*
* 2. Configure InRIF to map PCP to DSCP for IP packets:
* [ARAD]
*   Configure PCP to DSCP mapping for all IPv4 packets (not
*   just for InRIF but for all IPv4 packets).
*   The configuration is made using the field processor.
* [ARAD+]
*   Create a QoS profile that maps PCP to DSCP,
*   and configure InRIF to use it.
*   The mapping is set only for InRIF.
*   In Arad+ the DSCP is taken from PCP-DEI (4 bits)
*   instead of PCP (in Arad).
*   To map the PCP without the DEI into the DSCP,
*   the DSCP remarking is set to map a PCP-DEI value
*   to half the value.
*
* REMARK
*   In both Arad and Arad+ the PCP to DSCP mapping works by
*   passing through the TC.
*   A TC to DSCP mapping is configured.
*   When Ethernet packets arrive, the PCP is mapped to TC
*   and that in turn is mapped to DSCP.
*
* TRAFFIC
```

```
* The expected traffic on @in_port are IP packets with the following
* header values:
* 1) ETH, VLAN=15
* 2) ETH, DA=00:0c:00:02:00:00
* 3) IP, DIP = 0x7fffff03 (127.255.255.03)
*
* The resulting traffic on @out_port is IP packets with the
* DSCP set to the value of the PCP in the sent Ethernet header.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_copy_pcp_to_dscp_for_ip_packets.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_prog_select.c,v 1.79 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_pmf_prog_select.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_sbx.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX Reference Boards
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/brd_sbx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_field.c,v 1.42 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag.c
* Purpose:    Device diagnostics commands.
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    extender.c
* Purpose: Implements bcm_extender_forward_* APIs for Trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/extender.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision      :  $Id: srds_api_enum.h 1245 2015-11-16 21:44:10Z jgaither $ *
*                                                                             *
*  Description   :  Enum types used by Serdes API functions                   *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfKaEpPortTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpPortTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: falcon_furia_dependencies.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                        *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g2p3_cint_data.c: Guadalupe2k V1.3 C-Interpreter functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/c1_g2p3_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/c2_g2p3_mplstp_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g2p3_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hpcm.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    hpcm.c
* Purpose: Caladan3 memory manager utility
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/hpcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: config.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System configuration command.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/config.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                            *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :   *
*                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without           *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                          *
*                                                                 *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                 *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/common/srds_api_err_code.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/srds_api_err_code_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/public/srds_api_err_code_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------
#* $Id: an_1g.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*-----------------------------------------------------------------
#* File       : an_1g.soc
#* Description: an_1g cl73
#*-----------------------------------------------------------------*/

link off
/* Disable the ports */
phy xe0 0x2c050 0x001c
phy xe1 0x2c050 0x001c

/* This basically is used to write the data ram with pcs_lane_config */
port xe0,xe1 adv=1000full an=t

/* Clear An enable  */
phy xe0 0x2c180 0x0000
```

```
phy xe1 0x2c180 0x0000

/* Set the adv. speed to 1G */
phy xe0 0x2c186 0x20
phy xe1 0x2c186 0x20

/* Set the Nonce match OVerride, so the nonce match is ignored */
phy xe0 0x2c185 0xa01
phy xe1 0x2c185 0xa01

/* cl73  link inhibit fail timer ncl72 */
phy xe 0x9258 0x1200


#phy xe0 0x802d080 0x8008
#phy xe1 0x802d080 0x8008

#phy xe0 0x9000 0x6600
#phy xe1 0x9000 0x6600

/* Trying on lane #2, so set the master portnum to 0x6208  */
phy xe0 0x9000 0x6208
phy xe1 0x9000 0x6208

phy xe0 0x2c180 0x0000
phy xe1 0x2c180 0x0000

/* Enable AN CL73 */
phy xe0 0x2c180 0x0100
phy xe1 0x2c180 0x0100

/* Debug state registers */
#phy xe0 0x2c054
#phy xe0 0x2c1ad
#phy xe1 0x2c054
#phy xe1 0x2c1ad
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/an_1g.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: multicast.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/multicast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/multicast.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_low_level.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_low_level.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_low_level.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linkctrl.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware Linkscan module
*
* For legacy devices (pre-Arad and pre-XGS5) Hardware linkscan is not recommended
*
* If hardware linkscan is used, each MII operation must temporarily
* disable it and wait for the current scan to complete, increasing the
* latency.  PHY status register 1 may contain clear-on-read bits that
* will be cleared by hardware linkscan and not seen later.  Special
* support is provided for the Serdes MAC.
*
* NOTE:
* Original file is src/soc/common/link.c, version 1.7.
* That file should eventually be removed, and XGS specific routines
* should be implemented and set for the 'driver' during module
* initialization in 'soc_linkctrl_init()'.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/linkctrl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  eagle_tsc_functions.h
```

```
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: eagle_tsc_functions.h 996 2015-03-30 22:39:03Z kirand $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: kcom.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  kcom.h
* Purpose:  User/Kernel message definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/kcom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ea.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     ea.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/ea/ea.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgs.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgs.h
* Purpose:     Public XGS board driver delarations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/xgs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: Oam.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     Oam.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/Oam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/cfp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_up_scheduler.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_up_scheduler.c
*
* Purpose: examples of TM scheduler BCM API.
*
* - Port Scheduler
*   - HR Scheduler (SP mode).
*     - CL Scheduler (SP mode), Hookup to HR Scheduler (SP1).
*       - FQ Schedulers
*         Instance 0,1,2,3 hookup to CL Scheduler (SP0, SP1, SP2,SP3).
*     - CL Scheduler (WRR mode), Hookup to HR Scheduler (SP1).
*       - FQ Schedulers
*         Instance 0,1,2,3 hookup to CL Scheduler (SP0:W1, SP0:W2, SP0:W3,SP0:W4).
*     - CL Scheduler (SP+WRR mode), Hookup to HR Scheduler (SP1).
*       - FQ Schedulers
*         Instance 0,1,2,3 hookup to CL Scheduler (SP0, SP1:W1, SP2:W2,SP3:W3).
*         - Unicast VOQ and VOQ connector.
*           VOQ and VOQ connector (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to FQ Scheduler 0,1,2,3
*
*  ~~~
```

```
* |            +----------+----------+----------+----------+               |
* |              |   |   |   |   |   |   |   |                |
* |            COS7|COS6| COS5|COS4| COS3|COS2| COS1|COS0|                  |
* |              |   |   |   |   |   |   |   |                |
* |             \/  \/   \/  \/   \/  \/   \/  \/               |
* |            +-----------------------------------------+              |
* |            |                            |             |
* |            |              V O Q              |             |
* |            |                            |             |
* |            +-----------------------------------------+              |
* |                                                      |
* |                                                      |
* |                                                      |
* |                  +~~~~~~~~~~~~~~~~~~~~~~+                      |
* |                  | SCHEDULER MODEL: SP |                        |
* ~~~~~~~~~~~~~~~~~~~
```

```
* |            |   |   |   |   |   |   |   |              |
* |            \/  \/   \/  \/   \/  \/   \/  \/             |
* |           +-------------------------------------------+            |
* |           |                          |            |
* |           |             V O Q              |             |
* |           |                          |            |
* |           +-------------------------------------------+            |
* |                                                 |
* |                                                 |
* |                                                 |
* |                 +~~~~~~~~~~~~~~~~~~~~~~~~~+                     |
* |                 | SCHEDULER MODEL: WRR |                      |
* ~~~~~~~~~~~~~~~~~~~
```

```
* |           |                        |            |
* |           |            V O Q            |            |
* |           |                        |            |
* |           +----------------------------------------+            |
* |                                                  |
* |                                                  |
* |                                                  |
* |                 +~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                    |
* |                 | SCHEDULER MODEL: SP+WRR |                    |
* ~~~~~~~~~~~~~~~~~~~
```

```
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on         Thu Feb 13 19:01:25 2014
*               MD5 Checksum         3ce209c9ee2a4cae2cd897291b668394
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  ams_com              1
*               ams_rx               1
*               ams_tx               1
*               ckrst_ctrl           1
*               cl72_ieee_rx         1
*               cl72_ieee_tx         1
*               cl72_user_rx         1
*               cl72_user_tx_pmd     1
*               dig_com_tsc          1
*               dsc_a                1
*               dsc_b                1
*               dsc_c                1
*               dsc_d                1
*               dsc_e                1
*               mdio_blk_addr        1
*               mdio_cl22_ieee_com   1
*               mdio_mmdsel_aer_com  1
*               micro_a              1
*               micro_b              1
*               patt_gen             1
*               pll_cal_com          1
*               sigdet               1
```

```
*            tlb_rx          1
*            tlb_tx          1
*            tx_fed_pmd        1
*            tx_pi           1
*            txcom_pmd         1
*
* RDB Files:  /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/eagle_top_tsc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/tx_pi.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dig_com_tsc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/tlb_tx.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/tlb_rx.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/patt_gen.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/cl72_user_rx_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/cl72_user_tx_regs_pmd.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/cl72_ieee_tx_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/cl72_ieee_rx_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/txcom_regs_pmd.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/ams_com.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/pll_cal_com.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/ams_tx.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/tx_fed_regs_pmd.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/ams_rx.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/sigdet.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dsc_a.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dsc_b.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dsc_c.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dsc_d.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/dsc_e.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/ckrst_ctrl.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/mdio_mmdsel_aer_com.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/mdio_blk_addr.rdb
*
/projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/mdio_cl22_ieee_com_html.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/micro_a_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/dv/common/temod16/Eagle_rdb/micro_b_regs.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/te16PMDRegEnums.h
No license file was found, but licenses were detected in source scan.

Id

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc
init mmu
# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1

echo "there are 635 more memories to test.";echo "tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 634 more memories to test.";echo "tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 633 more memories to test.";echo "tr 71 M=PORT_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 632 more memories to test.";echo "tr 71 M=COS_MAP_SEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 631 more memories to test.";echo "tr 71 M=CPU_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 630 more memories to test.";echo "tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 629 more memories to test.";echo "tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 628 more memories to test.";echo "tr 71 M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0";tr 71
M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 627 more memories to test.";echo "tr 71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0";tr
71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 626 more memories to test.";echo "tr 71 M=CPU_TS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_TS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 625 more memories to test.";echo "tr 71 M=CTR_DEQ_STATUS_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CTR_DEQ_STATUS_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 624 more memories to test.";echo "tr 71 M=CTR_FLEX_COUNT_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CTR_FLEX_COUNT_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 623 more memories to test.";echo "tr 71 M=CTR_FLEX_COUNT_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CTR_FLEX_COUNT_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 622 more memories to test.";echo "tr 71 M=CTR_FLEX_COUNT_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CTR_FLEX_COUNT_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 621 more memories to test.";echo "tr 71 M=CTR_FLEX_COUNT_3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CTR_FLEX_COUNT_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 620 more memories to test.";echo "tr 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 619 more memories to test.";echo "tr 71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 618 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 617 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 616 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 615 more memories to test.";echo "tr 71 M=EFP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 614 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 613 more memories to test.";echo "tr 71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 612 more memories to test.";echo "tr 71 M=EGR_1588_SA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_1588_SA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 611 more memories to test.";echo "tr 71 M=EGR_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 610 more memories to test.";echo "tr 71 M=EGR_CPU_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 609 more memories to test.";echo "tr 71 M=EGR_DNX_HEADER Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_DNX_HEADER Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 608 more memories to test.";echo "tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 607 more memories to test.";echo "tr 71 M=EGR_DSCP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 606 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 605 more memories to test.";echo "tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 604 more memories to test.";echo "tr 71 M=EGR_ENABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ENABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 603 more memories to test.";echo "tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 602 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 601 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 600 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 599 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 598 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 597 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 596 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 595 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 594 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 593 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 592 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 591 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 590 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 589 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 588 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 587 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 586 more memories to test.";echo "tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 585 more memories to test.";echo "tr 71 M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 584 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 583 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 582 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 581 more memories to test.";echo "tr 71 M=EGR_L3_INTF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_INTF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 580 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 579 more memories to test.";echo "tr 71 M=EGR_LM_COUNTER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_LM_COUNTER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 578 more memories to test.";echo "tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 577 more memories to test.";echo "tr 71 M=EGR_MAP_MH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAP_MH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 576 more memories to test.";echo "tr 71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 575 more memories to test.";echo "tr 71 M=EGR_MASK_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MASK_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 574 more memories to test.";echo "tr 71 M=EGR_MA_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MA_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 573 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 572 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 571 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 570 more memories to test.";echo "tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 569 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 568 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 567 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 566 more memories to test.";echo "tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 565 more memories to test.";echo "tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 564 more memories to test.";echo "tr 71 M=EGR_MP_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 563 more memories to test.";echo "tr 71 M=EGR_NETWORK_PRUNE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_NETWORK_PRUNE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 562 more memories to test.";echo "tr 71 M=EGR_OAM_DGLP_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OAM_DGLP_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 561 more memories to test.";echo "tr 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 560 more memories to test.";echo "tr 71 M=EGR_OAM_LM_COUNTERS_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OAM_LM_COUNTERS_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 559 more memories to test.";echo "tr 71 M=EGR_OAM_LM_COUNTERS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OAM_LM_COUNTERS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 558 more memories to test.";echo "tr 71 M=EGR_OAM_LM_COUNTERS_2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_OAM_LM_COUNTERS_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 557 more memories to test.";echo "tr 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 556 more memories to test.";echo "tr 71 M=EGR_OAM_OPCODE_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OAM_OPCODE_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 555 more memories to test.";echo "tr 71 M=EGR_OLP_CONFIG Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_OLP_CONFIG Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 554 more memories to test.";echo "tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 553 more memories to test.";echo "tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 552 more memories to test.";echo "tr 71 M=EGR_PCP_DE_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PCP_DE_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 551 more memories to test.";echo "tr 71 M=EGR_PHYSICAL_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PHYSICAL_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 550 more memories to test.";echo "tr 71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 549 more memories to test.";echo "tr 71 M=EGR_PORT_PKT_SOP_ENABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PORT_PKT_SOP_ENABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 548 more memories to test.";echo "tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 547 more memories to test.";echo "tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 546 more memories to test.";echo "tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 545 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 544 more memories to test.";echo "tr 71 M=EGR_QUEUE_TO_PP_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_QUEUE_TO_PP_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 543 more memories to test.";echo "tr 71 M=EGR_SAT_CONFIG_MAC_SA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SAT_CONFIG_MAC_SA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 542 more memories to test.";echo "tr 71 M=EGR_SAT_SAMP_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SAT_SAMP_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 541 more memories to test.";echo "tr 71 M=EGR_SAT_SAMP_DATA_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SAT_SAMP_DATA_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 540 more memories to test.";echo "tr 71 M=EGR_SAT_SAMP_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SAT_SAMP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 539 more memories to test.";echo "tr 71 M=EGR_SERVICE_PRI_MAP_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SERVICE_PRI_MAP_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 538 more memories to test.";echo "tr 71 M=EGR_SERVICE_PRI_MAP_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SERVICE_PRI_MAP_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 537 more memories to test.";echo "tr 71 M=EGR_SERVICE_PRI_MAP_2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_SERVICE_PRI_MAP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 536 more memories to test.";echo "tr 71 M=EGR_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 535 more memories to test.";echo "tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 534 more memories to test.";echo "tr 71 M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 533 more memories to test.";echo "tr 71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 532 more memories to test.";echo "tr 71 M=EGR_VLAN_STG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_STG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 531 more memories to test.";echo "tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 530 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 529 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_OVERFLOW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_OVERFLOW Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 528 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 527 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 526 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 525 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 524 more memories to test.";echo "tr 71 M=EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 523 more memories to test.";echo "tr 71 M=EPC_LINK_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EPC_LINK_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 522 more memories to test.";echo "tr 71 M=EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EP_REDIRECT_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 521 more memories to test.";echo "tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 520 more memories to test.";echo "tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 519 more memories to test.";echo "tr 71 M=FP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 518 more memories to test.";echo "tr 71 M=FP_FLEX_KEY_SELECTOR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_FLEX_KEY_SELECTOR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 517 more memories to test.";echo "tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 516 more memories to test.";echo "tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 515 more memories to test.";echo "tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 514 more memories to test.";echo "tr 71 M=FP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 513 more memories to test.";echo "tr 71 M=FP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 512 more memories to test.";echo "tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 511 more memories to test.";echo "tr 71 M=FP_PORT_METER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_METER_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 510 more memories to test.";echo "tr 71 M=FP_RANGE_CHECK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_RANGE_CHECK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 509 more memories to test.";echo "tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 508 more memories to test.";echo "tr 71 M=FP_SLICE_MAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=FP_SLICE_MAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 507 more memories to test.";echo "tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 506 more memories to test.";echo "tr 71 M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 505 more memories to test.";echo "tr 71 M=GTP_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=GTP_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 504 more memories to test.";echo "tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 503 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 502 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 501 more memories to test.";echo "tr 71 M=HG_TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 500 more memories to test.";echo "tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 499 more memories to test.";echo "tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 498 more memories to test.";echo "tr 71 M=IARB_ING_PHYSICAL_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_ING_PHYSICAL_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 497 more memories to test.";echo "tr 71 M=IARB_TDM_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_TDM_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 496 more memories to test.";echo "tr 71 M=IARB_TDM_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_TDM_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 495 more memories to test.";echo "tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 494 more memories to test.";echo "tr 71 M=IFP_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 493 more memories to test.";echo "tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 492 more memories to test.";echo "tr 71 M=IMIRROR_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 491 more memories to test.";echo "tr 71 M=IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 490 more memories to test.";echo "tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 489 more memories to test.";echo "tr 71 M=ING_DVP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 488 more memories to test.";echo "tr 71 M=ING_EGRMSKBMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_EGRMSKBMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 487 more memories to test.";echo "tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 486 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 485 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 484 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 483 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 482 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 481 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 480 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 479 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 478 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 477 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 476 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 475 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 474 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 473 more memories to test.";echo "tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 472 more memories to test.";echo "tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 471 more memories to test.";echo "tr 71 M=ING_LM_COUNTER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_LM_COUNTER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 470 more memories to test.";echo "tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 469 more memories to test.";echo "tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 468 more memories to test.";echo "tr 71 M=ING_NETWORK_PRUNE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_NETWORK_PRUNE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 467 more memories to test.";echo "tr 71 M=ING_OAM_LM_COUNTERS_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_OAM_LM_COUNTERS_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 466 more memories to test.";echo "tr 71 M=ING_OAM_LM_COUNTERS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_OAM_LM_COUNTERS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 465 more memories to test.";echo "tr 71 M=ING_OAM_LM_COUNTERS_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_OAM_LM_COUNTERS_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 464 more memories to test.";echo "tr 71 M=ING_PHYSICAL_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PHYSICAL_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 463 more memories to test.";echo "tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 462 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 461 more memories to test.";echo "tr 71 M=ING_QUEUE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_QUEUE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 460 more memories to test.";echo "tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 459 more memories to test.";echo "tr 71 M=ING_SAT_SAMP_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SAT_SAMP_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 458 more memories to test.";echo "tr 71 M=ING_SAT_SAMP_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SAT_SAMP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 457 more memories to test.";echo "tr 71 M=ING_SERVICE_PRI_MAP_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SERVICE_PRI_MAP_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 456 more memories to test.";echo "tr 71 M=ING_SERVICE_PRI_MAP_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SERVICE_PRI_MAP_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 455 more memories to test.";echo "tr 71 M=ING_SERVICE_PRI_MAP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SERVICE_PRI_MAP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 454 more memories to test.";echo "tr 71 M=ING_SER_FIFO Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 453 more memories to test.";echo "tr 71 M=ING_SVM_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 452 more memories to test.";echo "tr 71 M=ING_SVM_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 451 more memories to test.";echo "tr 71 M=ING_SVM_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 450 more memories to test.";echo "tr 71 M=ING_SVM_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 449 more memories to test.";echo "tr 71 M=ING_SVM_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SVM_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 448 more memories to test.";echo "tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 447 more memories to test.";echo "tr 71 M=ING_VLAN_RANGE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_RANGE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 446 more memories to test.";echo "tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 445 more memories to test.";echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 444 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 443 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 442 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 441 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 440 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE_1_DMA Start=0
Count=1 SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE_1_DMA Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 439 more memories to test.";echo "tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 438 more memories to test.";echo "tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 437 more memories to test.";echo "tr 71 M=L2MC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2MC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 436 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 435 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 434 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_VLANS_PORT_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_VLANS_PORT_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 433 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_VLANS_PORT_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_VLANS_PORT_B Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 432 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 431 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 430 more memories to test.";echo "tr 71 M=L2X Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 429 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 428 more memories to test.";echo "tr 71 M=L2_ENTRY_OVERFLOW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_OVERFLOW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 427 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 426 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 425 more memories to test.";echo "tr 71 M=L2_MOD_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_MOD_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 424 more memories to test.";echo "tr 71 M=L2_USER_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 423 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 422 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 421 more memories to test.";echo "tr 71 M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 420 more memories to test.";echo "tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 419 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 418 more memories to test.";echo "tr 71 M=L3_DEFIP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 417 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 416 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 415 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 414 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 413 more memories to test.";echo "tr 71 M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 412 more memories to test.";echo "tr 71 M=L3_ECMP_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 411 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 410 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 409 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 408 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 407 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 406 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 405 more memories to test.";echo "tr 71 M=L3_IIF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IIF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 404 more memories to test.";echo "tr 71 M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 403 more memories to test.";echo "tr 71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 402 more memories to test.";echo "tr 71 M=L3_IPMC_REMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IPMC_REMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 401 more memories to test.";echo "tr 71 M=L3_MTU_VALUES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_MTU_VALUES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 400 more memories to test.";echo "tr 71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 399 more memories to test.";echo "tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 398 more memories to test.";echo "tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 397 more memories to test.";echo "tr 71 M=LLS_L0_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 396 more memories to test.";echo "tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 395 more memories to test.";echo "tr 71 M=LLS_L0_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 394 more memories to test.";echo "tr 71 M=LLS_L0_EF_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_EF_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 393 more memories to test.";echo "tr 71 M=LLS_L0_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 392 more memories to test.";echo "tr 71 M=LLS_L0_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 391 more memories to test.";echo "tr 71 M=LLS_L0_MIN_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_MIN_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 390 more memories to test.";echo "tr 71 M=LLS_L0_MIN_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_MIN_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 389 more memories to test.";echo "tr 71 M=LLS_L0_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 388 more memories to test.";echo "tr 71 M=LLS_L0_PARENT Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=LLS_L0_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 387 more memories to test.";echo "tr 71 M=LLS_L0_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 386 more memories to test.";echo "tr 71 M=LLS_L0_SHAPER_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_SHAPER_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 385 more memories to test.";echo "tr 71 M=LLS_L0_SHAPER_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_SHAPER_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 384 more memories to test.";echo "tr 71 M=LLS_L0_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 383 more memories to test.";echo "tr 71 M=LLS_L0_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 382 more memories to test.";echo "tr 71 M=LLS_L0_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L0_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 381 more memories to test.";echo "tr 71 M=LLS_L1_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 380 more memories to test.";echo "tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 379 more memories to test.";echo "tr 71 M=LLS_L1_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 378 more memories to test.";echo "tr 71 M=LLS_L1_EF_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_EF_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 377 more memories to test.";echo "tr 71 M=LLS_L1_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 376 more memories to test.";echo "tr 71 M=LLS_L1_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 375 more memories to test.";echo "tr 71 M=LLS_L1_MIN_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_MIN_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 374 more memories to test.";echo "tr 71 M=LLS_L1_MIN_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_MIN_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 373 more memories to test.";echo "tr 71 M=LLS_L1_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 372 more memories to test.";echo "tr 71 M=LLS_L1_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 371 more memories to test.";echo "tr 71 M=LLS_L1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 370 more memories to test.";echo "tr 71 M=LLS_L1_SHAPER_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_SHAPER_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 369 more memories to test.";echo "tr 71 M=LLS_L1_SHAPER_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_SHAPER_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 368 more memories to test.";echo "tr 71 M=LLS_L1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 367 more memories to test.";echo "tr 71 M=LLS_L1_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 366 more memories to test.";echo "tr 71 M=LLS_L1_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L1_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 365 more memories to test.";echo "tr 71 M=LLS_L2_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 364 more memories to test.";echo "tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 363 more memories to test.";echo "tr 71 M=LLS_L2_EMPTY_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_EMPTY_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 362 more memories to test.";echo "tr 71 M=LLS_L2_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 361 more memories to test.";echo "tr 71 M=LLS_L2_MIN_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_MIN_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 360 more memories to test.";echo "tr 71 M=LLS_L2_MIN_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_MIN_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 359 more memories to test.";echo "tr 71 M=LLS_L2_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 358 more memories to test.";echo "tr 71 M=LLS_L2_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 357 more memories to test.";echo "tr 71 M=LLS_L2_SHAPER_BUCKET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_SHAPER_BUCKET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 356 more memories to test.";echo "tr 71 M=LLS_L2_SHAPER_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_SHAPER_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 355 more memories to test.";echo "tr 71 M=LLS_L2_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 354 more memories to test.";echo "tr 71 M=LLS_L2_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_L2_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 353 more memories to test.";echo "tr 71 M=LLS_PORT_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 352 more memories to test.";echo "tr 71 M=LLS_PORT_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 351 more memories to test.";echo "tr 71 M=LLS_PORT_HEADS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_HEADS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 350 more memories to test.";echo "tr 71 M=LLS_PORT_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 349 more memories to test.";echo "tr 71 M=LLS_PORT_SHAPER_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_SHAPER_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 348 more memories to test.";echo "tr 71 M=LLS_PORT_SHAPER_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_SHAPER_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 347 more memories to test.";echo "tr 71 M=LLS_PORT_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 346 more memories to test.";echo "tr 71 M=LLS_PORT_TDM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_TDM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 345 more memories to test.";echo "tr 71 M=LLS_PORT_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_PORT_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 344 more memories to test.";echo "tr 71 M=LLS_PORT_XOFF Start=0 Count=0
SlamLowToHigh=0";tr 71 M=LLS_PORT_XOFF Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 343 more memories to test.";echo "tr 71 M=LLS_S1_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 342 more memories to test.";echo "tr 71 M=LLS_S1_ERROR Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=LLS_S1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 341 more memories to test.";echo "tr 71 M=LLS_S1_HEADS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_HEADS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 340 more memories to test.";echo "tr 71 M=LLS_S1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_PARENT_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 339 more memories to test.";echo "tr 71 M=LLS_S1_SHAPER_BUCKET_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_SHAPER_BUCKET_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 338 more memories to test.";echo "tr 71 M=LLS_S1_SHAPER_CONFIG_C Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_SHAPER_CONFIG_C Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 337 more memories to test.";echo "tr 71 M=LLS_S1_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_TAILS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 336 more memories to test.";echo "tr 71 M=LLS_S1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LLS_S1_WERR_MAX_SC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 335 more memories to test.";echo "tr 71 M=LMEP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=LMEP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 334 more memories to test.";echo "tr 71 M=LMEP_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=LMEP_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 333 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 332 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 331 more memories to test.";echo "tr 71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 330 more memories to test.";echo "tr 71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 329 more memories to test.";echo "tr 71 M=MAID_REDUCTION Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MAID_REDUCTION Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 328 more memories to test.";echo "tr 71 M=MA_INDEX Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MA_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 327 more memories to test.";echo "tr 71 M=MA_STATE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MA_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 326 more memories to test.";echo "tr 71 M=MIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 325 more memories to test.";echo "tr 71 M=MMU_AGING_CTR_INT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_CTR_INT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 324 more memories to test.";echo "tr 71 M=MMU_AGING_EXP_INT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_EXP_INT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 323 more memories to test.";echo "tr 71 M=MMU_AGING_LMT_INT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_LMT_INT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 322 more memories to test.";echo "tr 71 M=MMU_CBPI_0 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 321 more memories to test.";echo "tr 71 M=MMU_CBPI_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 320 more memories to test.";echo "tr 71 M=MMU_CBPI_10 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPI_10 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 319 more memories to test.";echo "tr 71 M=MMU_CBPI_11 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPI_11 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 318 more memories to test.";echo "tr 71 M=MMU_CBPI_2 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 317 more memories to test.";echo "tr 71 M=MMU_CBPI_3 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 316 more memories to test.";echo "tr 71 M=MMU_CBPI_4 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 315 more memories to test.";echo "tr 71 M=MMU_CBPI_5 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 314 more memories to test.";echo "tr 71 M=MMU_CBPI_6 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 313 more memories to test.";echo "tr 71 M=MMU_CBPI_7 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 312 more memories to test.";echo "tr 71 M=MMU_CBPI_8 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_8 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 311 more memories to test.";echo "tr 71 M=MMU_CBPI_9 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_CBPI_9 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 310 more memories to test.";echo "tr 71 M=MMU_CCPI_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCPI_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 309 more memories to test.";echo "tr 71 M=MMU_CELLLINKI Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CELLLINKI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 308 more memories to test.";echo "tr 71 M=MMU_CFAPI_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 307 more memories to test.";echo "tr 71 M=MMU_CFAPI_STACK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAPI_STACK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 306 more memories to test.";echo "tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 305 more memories to test.";echo "tr 71
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 304 more memories to test.";echo "tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 303 more memories to test.";echo "tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 302 more memories to test.";echo "tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 301 more memories to test.";echo "tr 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 300 more memories to test.";echo "tr 71 M=MMU_ENQ_FAP_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQ_FAP_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 299 more memories to test.";echo "tr 71 M=MMU_ENQ_FAP_STACK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQ_FAP_STACK Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 298 more memories to test.";echo "tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 297 more memories to test.";echo "tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 296 more memories to test.";echo "tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 295 more memories to test.";echo "tr 71 M=MMU_ENQ_SRC_PORT_STATE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQ_SRC_PORT_STATE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 294 more memories to test.";echo "tr 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 293 more memories to test.";echo "tr 71 M=MMU_EXT_MC_GROUP_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EXT_MC_GROUP_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 292 more memories to test.";echo "tr 71 M=MMU_EXT_MC_QUEUE_LIST0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EXT_MC_QUEUE_LIST0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 291 more memories to test.";echo "tr 71 M=MMU_EXT_MC_QUEUE_LIST4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EXT_MC_QUEUE_LIST4 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 290 more memories to test.";echo "tr 71 M=MMU_INITIAL_NHOP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INITIAL_NHOP_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 289 more memories to test.";echo "tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 288 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_MAP_TBL0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_MAP_TBL0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 287 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_MAP_TBL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_MAP_TBL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 286 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_MAP_TBL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_MAP_TBL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 285 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 284 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 283 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 282 more memories to test.";echo "tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 281 more memories to test.";echo "tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 280 more memories to test.";echo "tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 279 more memories to test.";echo "tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 278 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 277 more memories to test.";echo "tr 71 M=MMU_IPCTR_CTXT_COUNTER_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_IPCTR_CTXT_COUNTER_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 276 more memories to test.";echo "tr 71 M=MMU_IPCTR_PG_COUNTER_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_IPCTR_PG_COUNTER_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 275 more memories to test.";echo "tr 71 M=MMU_IPCTR_PG_COUNTER_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_IPCTR_PG_COUNTER_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 274 more memories to test.";echo "tr 71 M=MMU_IPMC_GROUP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_IPMC_GROUP_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 273 more memories to test.";echo "tr 71 M=MMU_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 272 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 271 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 270 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 269 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 268 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 267 more memories to test.";echo "tr 71 M=MMU_QSTRUCT_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QSTRUCT_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 266 more memories to test.";echo "tr 71 M=MMU_RDE_ADM_DPC_STORE_MEM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_RDE_ADM_DPC_STORE_MEM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 265 more memories to test.";echo "tr 71 M=MMU_RDE_REAL_CELL_FIFO_MEM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_RDE_REAL_CELL_FIFO_MEM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 264 more memories to test.";echo "tr 71 M=MMU_RDE_TXQ_FLL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RDE_TXQ_FLL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 263 more memories to test.";echo "tr 71 M=MMU_RDE_TXQ_QLL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RDE_TXQ_QLL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 262 more memories to test.";echo "tr 71 M=MMU_RDE_TXQ_STATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RDE_TXQ_STATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 261 more memories to test.";echo "tr 71 M=MMU_REPL_GRP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_GRP_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 260 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 259 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 258 more memories to test.";echo "tr 71 M=MMU_REPL_MAP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_MAP_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 257 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 256 more memories to test.";echo "tr 71 M=MMU_RPFAP_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RPFAP_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 255 more memories to test.";echo "tr 71 M=MMU_RPFAP_STACK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RPFAP_STACK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 254 more memories to test.";echo "tr 71 M=MMU_RQE_QMGR_FLL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RQE_QMGR_FLL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 253 more memories to test.";echo "tr 71 M=MMU_RQE_QMGR_QLL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RQE_QMGR_QLL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 252 more memories to test.";echo "tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 251 more memories to test.";echo "tr 71 M=MMU_RQE_WORK_QUEUE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_RQE_WORK_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 250 more memories to test.";echo "tr 71 M=MMU_THDO_CTRO_UC_DTYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_CTRO_UC_DTYPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 249 more memories to test.";echo "tr 71 M=MMU_THDO_CTRO_UC_PKT_STORE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_CTRO_UC_PKT_STORE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 248 more memories to test.";echo "tr 71 M=MMU_THDO_OPNCONFIG_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNCONFIG_CELL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 247 more memories to test.";echo "tr 71 M=MMU_THDO_OPNCONFIG_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNCONFIG_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 246 more memories to test.";echo "tr 71 M=MMU_THDO_OPNCOUNT_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNCOUNT_CELL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 245 more memories to test.";echo "tr 71 M=THDO_OPNCOUNT_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDO_OPNCOUNT_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 244 more memories to test.";echo "tr 71 M=MMU_THDO_OPNOFFSET_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNOFFSET_CELL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 243 more memories to test.";echo "tr 71 M=MMU_THDO_OPNOFFSET_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNOFFSET_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 242 more memories to test.";echo "tr 71 M=MMU_THDO_OPNSTATUS_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNSTATUS_CELL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 241 more memories to test.";echo "tr 71 M=MMU_THDO_OPNSTATUS_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_OPNSTATUS_QENTRY Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 240 more memories to test.";echo "tr 71 M=MMU_THDO_QCONFIG_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QCONFIG_CELL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 239 more memories to test.";echo "tr 71 M=MMU_THDO_QCONFIG_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QCONFIG_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 238 more memories to test.";echo "tr 71 M=MMU_THDO_QCOUNT_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QCOUNT_CELL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 237 more memories to test.";echo "tr 71 M=THDO_QCOUNT_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDO_QCOUNT_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 236 more memories to test.";echo "tr 71 M=MMU_THDO_QOFFSET_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QOFFSET_CELL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 235 more memories to test.";echo "tr 71 M=MMU_THDO_QOFFSET_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QOFFSET_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 234 more memories to test.";echo "tr 71 M=MMU_THDO_QRESET_VALUE_CELL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_QRESET_VALUE_CELL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 233 more memories to test.";echo "tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 232 more memories to test.";echo "tr 71 M=MMU_THDO_QSTATUS_CELL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QSTATUS_CELL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 231 more memories to test.";echo "tr 71 M=MMU_THDO_QSTATUS_QENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDO_QSTATUS_QENTRY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 230 more memories to test.";echo "tr 71 M=MMU_TOQ_PORT_STATE_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TOQ_PORT_STATE_MEM Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 229 more memories to test.";echo "tr 71 M=MMU_TOQ_STATE_MEM0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TOQ_STATE_MEM0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 228 more memories to test.";echo "tr 71 M=MMU_TOQ_STATE_MEM1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TOQ_STATE_MEM1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 227 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 226 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 225 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 224 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 223 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 222 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 221 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 220 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 219 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 218 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 217 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 216 more memories to test.";echo "tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 215 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 214 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 213 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 212 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 211 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 210 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 209 more memories to test.";echo "tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 208 more memories to test.";echo "tr 71 M=MODPORT_MAP_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 207 more memories to test.";echo "tr 71 M=MODPORT_MAP_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 206 more memories to test.";echo "tr 71 M=MODPORT_MAP_M2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 205 more memories to test.";echo "tr 71 M=MODPORT_MAP_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 204 more memories to test.";echo "tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 203 more memories to test.";echo "tr 71 M=MODPORT_MAP_SW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 202 more memories to test.";echo "tr 71 M=MPLS_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 201 more memories to test.";echo "tr 71 M=MPLS_OAM_ACH_TYPE_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_OAM_ACH_TYPE_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 200 more memories to test.";echo "tr 71 M=MP_GROUP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 199 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 198 more memories to test.";echo "tr 71 M=MY_STATION_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 197 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 196 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 195 more memories to test.";echo "tr 71 M=NHI_GROUP_TC_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=NHI_GROUP_TC_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 194 more memories to test.";echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 193 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 192 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 191 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 190 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 189 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 188 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 187 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 186 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 185 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 184 more memories to test.";echo "tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 183 more memories to test.";echo "tr 71 M=OAMP_PE_0_PROG_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAMP_PE_0_PROG_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 182 more memories to test.";echo "tr 71 M=OAMP_PE_1_PROG_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAMP_PE_1_PROG_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 181 more memories to test.";echo "tr 71 M=OAMP_RX_OAM_ID_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAMP_RX_OAM_ID_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 180 more memories to test.";echo "tr 71 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 179 more memories to test.";echo "tr 71 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 178 more memories to test.";echo "tr 71 M=OAMP_SAT_TX_GEN_PARAMS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAMP_SAT_TX_GEN_PARAMS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 177 more memories to test.";echo "tr 71 M=OAM_DGLP_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAM_DGLP_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 176 more memories to test.";echo "tr 71 M=OAM_FLEXIBLE_DOMAIN_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAM_FLEXIBLE_DOMAIN_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 175 more memories to test.";echo "tr 71 M=OAM_OPCODE_CONTROL_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=OAM_OPCODE_CONTROL_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 174 more memories to test.";echo "tr 71 M=OAM_OPCODE_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=OAM_OPCODE_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 173 more memories to test.";echo "tr 71 M=PHB2_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PHB2_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 172 more memories to test.";echo "tr 71 M=PHYSICAL_PORT_BASE_QUEUE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PHYSICAL_PORT_BASE_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 171 more memories to test.";echo "tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 170 more memories to test.";echo "tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 169 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 168 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 167 more memories to test.";echo "tr 71 M=PORT_OR_TRUNK_MAC_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_OR_TRUNK_MAC_COUNT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 166 more memories to test.";echo "tr 71 M=PORT_OR_TRUNK_MAC_LIMIT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_OR_TRUNK_MAC_LIMIT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 165 more memories to test.";echo "tr 71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 164 more memories to test.";echo "tr 71 M=PP_PORT_GPP_TRANSLATION_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PP_PORT_GPP_TRANSLATION_1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 163 more memories to test.";echo "tr 71 M=PP_PORT_GPP_TRANSLATION_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PP_PORT_GPP_TRANSLATION_2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 162 more memories to test.";echo "tr 71 M=PP_PORT_GPP_TRANSLATION_3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PP_PORT_GPP_TRANSLATION_3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 161 more memories to test.";echo "tr 71 M=PP_PORT_GPP_TRANSLATION_4 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PP_PORT_GPP_TRANSLATION_4 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 160 more memories to test.";echo "tr 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 159 more memories to test.";echo "tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 158 more memories to test.";echo "tr 71 M=RMEP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=RMEP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 157 more memories to test.";echo "tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 156 more memories to test.";echo "tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 155 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 154 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 153 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER10 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER10 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 152 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER11 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER11 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 151 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 150 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 149 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 148 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER5 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 147 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 146 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER7 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 145 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER8 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER8 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 144 more memories to test.";echo "tr 71 M=RXLP_DEBUG_COUNTER9 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_DEBUG_COUNTER9 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 143 more memories to test.";echo "tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 142 more memories to test.";echo "tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 141 more memories to test.";echo "tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 140 more memories to test.";echo "tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 139 more memories to test.";echo "tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 138 more memories to test.";echo "tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 137 more memories to test.";echo "tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 136 more memories to test.";echo "tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 135 more memories to test.";echo "tr 71 M=RXLP_MAX_FRAME_SIZE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RXLP_MAX_FRAME_SIZE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 134 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 133 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 132 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE_1_DMA Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE_1_DMA Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 131 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE_DMA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE_DMA Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 130 more memories to test.";echo "tr 71 M=SERVICE_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 129 more memories to test.";echo "tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 128 more memories to test.";echo "tr 71 M=SER_MEMORY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_MEMORY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 127 more memories to test.";echo "tr 71 M=SER_RESULT_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 126 more memories to test.";echo "tr 71 M=SER_RESULT_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 125 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 124 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 123 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 122 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 121 more memories to test.";echo "tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 120 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 119 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 118 more memories to test.";echo "tr 71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 117 more memories to test.";echo "tr 71 M=SRC_MODID_EGRESS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_EGRESS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 116 more memories to test.";echo "tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 115 more memories to test.";echo "tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 114 more memories to test.";echo "tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 113 more memories to test.";echo "tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 112 more memories to test.";echo "tr 71 M=SVM_MACROFLOW_INDEX_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SVM_MACROFLOW_INDEX_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 111 more memories to test.";echo "tr 71 M=SVM_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 110 more memories to test.";echo "tr 71 M=SVM_OFFSET_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_OFFSET_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 109 more memories to test.";echo "tr 71 M=SVM_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SVM_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 108 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 107 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 106 more memories to test.";echo "tr 71 M=TCP_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TCP_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 105 more memories to test.";echo "tr 71 M=THDIQEN_THDI_PORT_PG_CNTRS Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDIQEN_THDI_PORT_PG_CNTRS Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 104 more memories to test.";echo "tr 71 M=THDIQEN_THDI_PORT_PG_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDIQEN_THDI_PORT_PG_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 103 more memories to test.";echo "tr 71 M=THDIQEN_THDI_PORT_SP_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDIQEN_THDI_PORT_SP_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 102 more memories to test.";echo "tr 71 M=THDIRQE_THDI_PORT_PG_CNTRS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDIRQE_THDI_PORT_PG_CNTRS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 101 more memories to test.";echo "tr 71 M=THDIRQE_THDI_PORT_PG_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDIRQE_THDI_PORT_PG_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 100 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 99 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 98 more memories to test.";echo "tr 71 M=TOS_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TOS_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 97 more memories to test.";echo "tr 71 M=TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 96 more memories to test.";echo "tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 95 more memories to test.";echo "tr 71 M=TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 94 more memories to test.";echo "tr 71 M=TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 93 more memories to test.";echo "tr 71 M=TTL_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TTL_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 92 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 91 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 90 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER10 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER10 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 89 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER11 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER11 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 88 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 87 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 86 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 85 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER5 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 84 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 83 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER7 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 82 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER8 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER8 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 81 more memories to test.";echo "tr 71 M=TXLP_DEBUG_COUNTER9 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_DEBUG_COUNTER9 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 80 more memories to test.";echo "tr 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 79 more memories to test.";echo "tr 71 M=TXLP_PORT_ADDR_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TXLP_PORT_ADDR_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 78 more memories to test.";echo "tr 71 M=TXLP_PORT_STREAM_BITMAP_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TXLP_PORT_STREAM_BITMAP_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 77 more memories to test.";echo "tr 71 M=TXLP_STREAM_ADDR_MAP_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TXLP_STREAM_ADDR_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 76 more memories to test.";echo "tr 71 M=INITIAL_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 75 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 74 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 73 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 72 more memories to test.";echo "tr 71 M=FP_UDF_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 71 more memories to test.";echo "tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 70 more memories to test.";echo "tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 69 more memories to test.";echo "tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 68 more memories to test.";echo "tr 71 M=VFI Start=0 Count=1 SlamLowToHigh=0";tr 71 M=VFI
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 67 more memories to test.";echo "tr 71 M=VFI_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFI_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 66 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 65 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 64 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 63 more memories to test.";echo "tr 71 M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 62 more memories to test.";echo "tr 71 M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 61 more memories to test.";echo "tr 71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 60 more memories to test.";echo "tr 71 M=VLAN_MAC_OVERFLOW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_MAC_OVERFLOW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 59 more memories to test.";echo "tr 71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 58 more memories to test.";echo "tr 71 M=VLAN_OR_VFI_MAC_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_OR_VFI_MAC_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 57 more memories to test.";echo "tr 71 M=VLAN_OR_VFI_MAC_LIMIT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_OR_VFI_MAC_LIMIT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 56 more memories to test.";echo "tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 55 more memories to test.";echo "tr 71 M=VLAN_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 54 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 53 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 52 more memories to test.";echo "tr 71 M=STG_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=STG_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 51 more memories to test.";echo "tr 71 M=VLAN_SUBNET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 50 more memories to test.";echo "tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 49 more memories to test.";echo "tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 48 more memories to test.";echo "tr 71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 47 more memories to test.";echo "tr 71 M=VLAN_XLATE_OVERFLOW Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_OVERFLOW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 46 more memories to test.";echo "tr 71 M=VRF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VRF Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 45 more memories to test.";echo "tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 44 more memories to test.';echo 'tr 71 M=EGRESS_PACKET_BUFFER0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGRESS_PACKET_BUFFER0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 71 M=EGRESS_PACKET_BUFFER1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGRESS_PACKET_BUFFER1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 71 M=EGRESS_PACKET_BUFFER2 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGRESS_PACKET_BUFFER2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 71 M=EGRESS_PACKET_BUFFER3 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGRESS_PACKET_BUFFER3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 71 M=EGR_PBE_DEBUG_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PBE_DEBUG_0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 39 more memories to test.';echo 'tr 71 M=EGR_PBE_DEBUG_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PBE_DEBUG_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 71 M=IARB_GIH_DEBUG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_GIH_DEBUG Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 71 M=IARB_IPAD_DEBUG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_IPAD_DEBUG Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_0_HI Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_0_HI Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_0_LO Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_0_LO Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 71 M=ING_PBI_DEBUG_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_PBI_DEBUG_1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER2 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 71 M=IPARS_PACKET_BUFFER3 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IPARS_PACKET_BUFFER3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0';tr
71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#---------------------------- READONLY  memories-------------------------------------------------------------
#echo 'there are 28  more memories to test.';echo 'tr 71 M=EGR_EDBIL_PKT_SOP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_EDBIL_PKT_SOP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 27  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 26  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 25  more memories to test.';echo 'tr 71 M=EGR_PORT_PKT_SOP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PORT_PKT_SOP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 24  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1
```

```
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 23  more memories to test.';echo 'tr 71 M=IARB_CELL_PKT_SOP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=IARB_CELL_PKT_SOP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 22  more memories to test.';echo 'tr 71 M=MMU_INTFI_DEBUG_MEM Start=0 Count=1
SlamLowToHigh=0';tr 71 M=MMU_INTFI_DEBUG_MEM Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 21  more memories to test.';echo 'tr 71 M=OAMP_PE_GEN_MEM Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_PE_GEN_MEM Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 20  more memories to test.';echo 'tr 71 M=OAMP_PE_PROGRAM Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_PE_PROGRAM Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 19  more memories to test.';echo 'tr 71 M=OAMP_SAT_RX_FLOW_ID Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_SAT_RX_FLOW_ID Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 18  more memories to test.';echo 'tr 71 M=OAMP_SAT_RX_FLOW_PARAMS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_SAT_RX_FLOW_PARAMS Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 17  more memories to test.';echo 'tr 71 M=OAMP_SAT_RX_FLOW_STATS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_SAT_RX_FLOW_STATS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 16  more memories to test.';echo 'tr 71 M=OAMP_SAT_TX Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAMP_SAT_TX Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 15  more memories to test.';echo 'tr 71 M=RXLP_CHANNEL_CONTROL_BUFFER Start=0
Count=1 SlamLowToHigh=0';tr 71 M=RXLP_CHANNEL_CONTROL_BUFFER Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 14  more memories to test.';echo 'tr 71 M=RXLP_ERROR_ACTION_MAP_DATA Start=0
Count=1 SlamLowToHigh=0';tr 71 M=RXLP_ERROR_ACTION_MAP_DATA Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 13  more memories to test.';echo 'tr 71 M=RXLP_ERROR_ACTION_MAP_TCAM Start=0
Count=1 SlamLowToHigh=0';tr 71 M=RXLP_ERROR_ACTION_MAP_TCAM Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 12  more memories to test.';echo 'tr 71 M=RXLP_INTR_DATA_MEM Start=0 Count=1
SlamLowToHigh=0';tr 71 M=RXLP_INTR_DATA_MEM Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 11  more memories to test.';echo 'tr 71 M=THDIQEN_THDI_PORT_SP_CNTRS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=THDIQEN_THDI_PORT_SP_CNTRS Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 10  more memories to test.';echo 'tr 71 M=THDIRQE_THDI_PORT_SP_CNTRS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=THDIRQE_THDI_PORT_SP_CNTRS Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 9  more memories to test.';echo 'tr 71 M=THDIRQE_THDI_PORT_SP_CONFIG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=THDIRQE_THDI_PORT_SP_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 8  more memories to test.';echo 'tr 71 M=THDI_PORT_SP_CNTRS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=THDI_PORT_SP_CNTRS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 7  more memories to test.';echo 'tr 71 M=THDI_PORT_SP_CONFIG Start=0 Count=1
SlamLowToHigh=0';tr 71 M=THDI_PORT_SP_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 6  more memories to test.';echo 'tr 71 M=TXLP_PORT_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_PORT_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 5  more memories to test.';echo 'tr 71 M=TXLP_PORT_PKT_SOP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_PORT_PKT_SOP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 4  more memories to test.';echo 'tr 71 M=TXLP_PORT_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_PORT_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
```

```
#echo 'there are 3  more memories to test.';echo 'tr 71 M=TXLP_PORT_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_PORT_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 2  more memories to test.';echo 'tr 71 M=TXLP_STREAM_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_STREAM_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 1  more memories to test.';echo 'tr 71 M=TXLP_STREAM_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=TXLP_STREAM_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#---------------------------- VENDOR  memories-----------------------------------------------------------------
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr71_bcm56270_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: axp.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* AXP management routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/axp.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_f.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_f.i
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: phymod.xml,v 1.1.2.5 Broadcom SDK $
```

*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/phy8806x_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tscf_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tscf16_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/furia_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/phy8806x.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/viper.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/furia_82212.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/dino_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tsce_dpll_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/merlin16.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/phymod_diagnostics_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/sesto.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce16.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_diagnostics_enums.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/furia_82212_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/huracan_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/qsgmiie_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/quadra28_diagnostics.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/madura_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tsce_dpll_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/madura.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf16.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle_dpll_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/falcon_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/dino_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qsgmiie.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/quadra28.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/dino_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia_82212/furia_82212_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/falcon_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/quadra28_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tsce16_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia_82212/furia_82212_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/furia.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/falcon16.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/sesto_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/eagle_dispatch.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/qsgmiie_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/eagle_dpll_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/eagle_dpll_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tsce_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/eagle_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/sesto_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/dino.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tscf16_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qsgmiie_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce_dpll_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle_dpll.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/huracan_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_enums.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tscf_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/huracan_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/falcon16_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/furia_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/falcon_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/falcon16_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/falcon16_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/phymod_cint_data.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/furia_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf16_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/qtce_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qtce_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/merlin16_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/madura_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/quadra28_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/qtce_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/viper_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/falcon.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/viper_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/viper_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce_dpll.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_dispatch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tsce_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_diagnostics_dispatch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/madura_diagnostics_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/huracan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/sesto_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qtce.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x_diagnostics_dispatch.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ipv4.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_ipv4.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_ipv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_oam.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_oam.c
* Purpose: This file implements techsupport utility for
*          oam.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/oam/techsupport_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

User Guide for Multiple instance
Broadcom Corp. June 18, 2015
Last Updated: Oct 14, 2015

---

(1) Background

The Broadcom SDK uses the Configuration Manager (CM) to provide hardware abstraction functions for register I/O, interrupts, DMA etc.

The Broadcom Device Enumerator (BDE) is provided as a sample implementation of the CM functions for multiple platforms (Linux, VxWorks, BCMSIM, etc.)

By default the BDE wil probe and enumerate all Broadcom switch devices, but in some cases it may be preferable to run separate switch applications on different switch devices on the same CPU system.

The information in this document outlines how the Linux User Mode BDE can be instantiated, such that each instance only controls a subset of the total number of switch devices present in the system.

(2) Objectives

An application crash for one BDE instance should not affect any other BDE instance.

Different BDE instances within the same system must be able to work with applications based on different SDK versions.

(3) Multiple BDE Instance Example

In the following we assume that the Linux Kernel BDE module has allocated 32 MB of DMA memory and probes two hardware devices.

Switch application A attaches to the first device and requests 16 MB of DMA memory.

Switch application B attaches to the second device and also requests 16 MB of DMA memory.

Both applications now manages a single device (seen as unit 0 in both applications.) independently of each other. The BDE instances and resources will look like this:

```
        +-------------------+      +-------------------+
        | User BDE inst A   |      | User BDE inst B   |
        |                   |      |                   |
        | dev_mask = 0x1    |      | dev_mask = 0x2    |
        | dma_size = 16M    |      | dma_size = 16M    |
        |                   |      |                   |
        | unit 0 -> hw_id 0 |      | unit 0 -> hw_id 1 |
User space  +-------------------+      +-------------------+
   ==================================================================
Kernel space          +-----------------------+
                      |   User BDE module     |
                      |                       |
                      |   dev_mask = 0x3      |
                      |   dma_size = 32M      |
                      +-----------------------+
                      +-----------------------+
                      |   Kernel BDE module   |
                      |                       |
                      |   Probed 2 devices    |
                      |   DMA pool size: 32M  |
                      +-----------------------+
```

We can try the same thing with the bcm.user sample application, which now accepts a new instance parameter to specify the BDE device mask and DMA size:

```
bcm.user -i <device_mask>[:dmasize in mb]
```

After loading the Linux BDE kernel modules, we can query the the device and DMA information through the proc file:

```
# cat /proc/linux-kernel-bde
Broadcom Device Enumerator (linux-kernel-bde)
DMA Memory (kernel): 33554432 bytes, 0 used, 33554432 free
Devices:
   0 (swi) : PCI device 0x14e4:0xb850:2:0x60100000:0x00000000:50
   1 (swi) : PCI device 0x14e4:0xb850:2:0x60200000:0x00000000:48
```

Next we load bcm.user for the first device (instance A):

```
# ./bcm.user -i 0x1:16
```

Then we load bcm.user for the second device (instance B):

```
# ./bcm.user -i 0x2:16
```

After both applications have been attached to the BDE, the resources

allocation can be inspected through the proc file:

```
# cat /proc/linux-user-bde
Broadcom Device Enumerator (linux-user-bde)
        0: Interrupt mode CMICm
        1: Interrupt mode CMICm
Instance resources
        Device mask 0x1: 16 MB DMA memory at offset 0 MB
        Device mask 0x2: 16 MB DMA memory at offset 16 MB
```

(4) New APIs

A new API has been created to attach to only a subset of available hardware devices:

```
int
linux_bde_instance_attach(unsigned int dev_mask,
                          unsigned int dma_size);
```

dev_mask is a bit mask of devices which should be controlled by this BDE instance, and dma_size specifies the size of the DMA memory pool allocated to this BDE instance.

The allocated resources will be freed only when the linux-user-bde kernel module is unloaded. In practical terms this means that if you pass the wrong parameters to bcm.user, then you will have to start over from scratch.

If the attached application terminates (or crashes), then it can still re-attach as long as the requested resources remain unchanged from the previous run.

For applications using KNET, a new function must be supplied to perform the translation between the BDE instance unit number and the BDE hardware device number:

```
typedef struct soc_knet_vectors_s {
    ....
    int (*hw_unit_get)(int unit, int inverse);
} soc_knet_vectors_t;
```

The user mode part of the Linux User BDE already contains a suitable function for this purpose (bde_hw_unit_get), so the aopplication simply has to include this function in the KNET configuration vectors:

```
static soc_knet_vectors_t knet_vect_bcm_knet = {
    {
```

```
        bcm_knet_kcom_open,
        bcm_knet_kcom_close,
        bcm_knet_kcom_msg_send,
        bcm_knet_kcom_msg_recv
    },
    bde_irq_mask_set,
    bde_hw_unit_get
};
```

For example code, please refer to the bcm.user source file
$SDK/systems/linux/user/common/socdiag.c.

(5) Compile option

Support for multiple instances is disabled by default, so the
following build option must be added to enable it:

CFGFLAGS += -DBCM_INSTANCE_SUPPORT

Refer the $SDK/make/Make.local.template for details.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/multi-instance.txt
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88660_a0.c
* Purpose:     bcm88660_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88660_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmsimplegp.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmsimplegp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: limits.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: limits.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/limits.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_line_gfa.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_line_gfa.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmEmt_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_1Entry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: phynull.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: null.c

```
* Purpose:    Defines NULL PHY driver routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phynull.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_riot.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_riot.c
* Purpose: Maintains all the debug information for riot
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/riot/trident2plus_riot.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdescombo.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdescombo.h
* Purpose:     BCM5621X (Raptor) Internal Combo Port PHY Driver
*              10/100/1000/2500
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ea_cint_data.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* ea_cint_data.c
*
* Hand-coded support for a few SAL core routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/ea_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane embedded ram core
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbsocram.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbsocram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vxbde.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/vxworks/vxbde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    BS_feature.h
*
* Holds SDK features version info, to be shared with BS FW
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/bcm_int/common/Bs_feature.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_jer2_jer2_tmc_pmf_pgm_mgmt.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/legacy/TMC/tmc_pmf_pgm_mgmt.h
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_lif_table.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_lif_table.c
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/PPC/ppc_api_lif_table.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_petra_gfa.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
```

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_petra_gfa.h
No license file was found, but licenses were detected in source scan.

```
# $Id: BCM88680_board.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Dram dq swaps for BCM88680

config add ext_ram_dq_swap_dram0_byte0_bit0.BCM88680=5
config add ext_ram_dq_swap_dram0_byte0_bit1.BCM88680=3
config add ext_ram_dq_swap_dram0_byte0_bit2.BCM88680=2
config add ext_ram_dq_swap_dram0_byte0_bit3.BCM88680=0
config add ext_ram_dq_swap_dram0_byte0_bit4.BCM88680=4
config add ext_ram_dq_swap_dram0_byte0_bit5.BCM88680=7
config add ext_ram_dq_swap_dram0_byte0_bit6.BCM88680=1
config add ext_ram_dq_swap_dram0_byte0_bit7.BCM88680=6
config add ext_ram_dq_swap_dram0_byte1_bit0.BCM88680=2
config add ext_ram_dq_swap_dram0_byte1_bit1.BCM88680=0
config add ext_ram_dq_swap_dram0_byte1_bit2.BCM88680=3
config add ext_ram_dq_swap_dram0_byte1_bit3.BCM88680=5
config add ext_ram_dq_swap_dram0_byte1_bit4.BCM88680=1
config add ext_ram_dq_swap_dram0_byte1_bit5.BCM88680=7
config add ext_ram_dq_swap_dram0_byte1_bit6.BCM88680=6
config add ext_ram_dq_swap_dram0_byte1_bit7.BCM88680=4
config add ext_ram_dq_swap_dram0_byte2_bit0.BCM88680=7
config add ext_ram_dq_swap_dram0_byte2_bit1.BCM88680=6
config add ext_ram_dq_swap_dram0_byte2_bit2.BCM88680=2
config add ext_ram_dq_swap_dram0_byte2_bit3.BCM88680=3
config add ext_ram_dq_swap_dram0_byte2_bit4.BCM88680=4
config add ext_ram_dq_swap_dram0_byte2_bit5.BCM88680=0
config add ext_ram_dq_swap_dram0_byte2_bit6.BCM88680=5
config add ext_ram_dq_swap_dram0_byte2_bit7.BCM88680=1
config add ext_ram_dq_swap_dram0_byte3_bit0.BCM88680=5
config add ext_ram_dq_swap_dram0_byte3_bit1.BCM88680=6
config add ext_ram_dq_swap_dram0_byte3_bit2.BCM88680=2
config add ext_ram_dq_swap_dram0_byte3_bit3.BCM88680=4
config add ext_ram_dq_swap_dram0_byte3_bit4.BCM88680=3
config add ext_ram_dq_swap_dram0_byte3_bit5.BCM88680=1
config add ext_ram_dq_swap_dram0_byte3_bit6.BCM88680=0
config add ext_ram_dq_swap_dram0_byte3_bit7.BCM88680=7
config add ext_ram_dq_swap_dram1_byte0_bit0.BCM88680=3
config add ext_ram_dq_swap_dram1_byte0_bit1.BCM88680=1
config add ext_ram_dq_swap_dram1_byte0_bit2.BCM88680=6
config add ext_ram_dq_swap_dram1_byte0_bit3.BCM88680=5
config add ext_ram_dq_swap_dram1_byte0_bit4.BCM88680=4
```

```
config add ext_ram_dq_swap_dram1_byte0_bit5.BCM88680=2
config add ext_ram_dq_swap_dram1_byte0_bit6.BCM88680=7
config add ext_ram_dq_swap_dram1_byte0_bit7.BCM88680=0
config add ext_ram_dq_swap_dram1_byte1_bit0.BCM88680=5
config add ext_ram_dq_swap_dram1_byte1_bit1.BCM88680=2
config add ext_ram_dq_swap_dram1_byte1_bit2.BCM88680=0
config add ext_ram_dq_swap_dram1_byte1_bit3.BCM88680=3
config add ext_ram_dq_swap_dram1_byte1_bit4.BCM88680=1
config add ext_ram_dq_swap_dram1_byte1_bit5.BCM88680=4
config add ext_ram_dq_swap_dram1_byte1_bit6.BCM88680=7
config add ext_ram_dq_swap_dram1_byte1_bit7.BCM88680=6
config add ext_ram_dq_swap_dram1_byte2_bit0.BCM88680=3
config add ext_ram_dq_swap_dram1_byte2_bit1.BCM88680=7
config add ext_ram_dq_swap_dram1_byte2_bit2.BCM88680=2
config add ext_ram_dq_swap_dram1_byte2_bit3.BCM88680=0
config add ext_ram_dq_swap_dram1_byte2_bit4.BCM88680=6
config add ext_ram_dq_swap_dram1_byte2_bit5.BCM88680=4
config add ext_ram_dq_swap_dram1_byte2_bit6.BCM88680=1
config add ext_ram_dq_swap_dram1_byte2_bit7.BCM88680=5
config add ext_ram_dq_swap_dram1_byte3_bit0.BCM88680=5
config add ext_ram_dq_swap_dram1_byte3_bit1.BCM88680=3
config add ext_ram_dq_swap_dram1_byte3_bit2.BCM88680=6
config add ext_ram_dq_swap_dram1_byte3_bit3.BCM88680=7
config add ext_ram_dq_swap_dram1_byte3_bit4.BCM88680=4
config add ext_ram_dq_swap_dram1_byte3_bit5.BCM88680=0
config add ext_ram_dq_swap_dram1_byte3_bit6.BCM88680=2
config add ext_ram_dq_swap_dram1_byte3_bit7.BCM88680=1
config add ext_ram_dq_swap_dram2_byte0_bit0.BCM88680=3
config add ext_ram_dq_swap_dram2_byte0_bit1.BCM88680=0
config add ext_ram_dq_swap_dram2_byte0_bit2.BCM88680=2
config add ext_ram_dq_swap_dram2_byte0_bit3.BCM88680=1
config add ext_ram_dq_swap_dram2_byte0_bit4.BCM88680=4
config add ext_ram_dq_swap_dram2_byte0_bit5.BCM88680=5
config add ext_ram_dq_swap_dram2_byte0_bit6.BCM88680=7
config add ext_ram_dq_swap_dram2_byte0_bit7.BCM88680=6
config add ext_ram_dq_swap_dram2_byte1_bit0.BCM88680=3
config add ext_ram_dq_swap_dram2_byte1_bit1.BCM88680=0
config add ext_ram_dq_swap_dram2_byte1_bit2.BCM88680=4
config add ext_ram_dq_swap_dram2_byte1_bit3.BCM88680=7
config add ext_ram_dq_swap_dram2_byte1_bit4.BCM88680=1
config add ext_ram_dq_swap_dram2_byte1_bit5.BCM88680=6
config add ext_ram_dq_swap_dram2_byte1_bit6.BCM88680=2
config add ext_ram_dq_swap_dram2_byte1_bit7.BCM88680=5
config add ext_ram_dq_swap_dram2_byte2_bit0.BCM88680=6
config add ext_ram_dq_swap_dram2_byte2_bit1.BCM88680=2
config add ext_ram_dq_swap_dram2_byte2_bit2.BCM88680=0
config add ext_ram_dq_swap_dram2_byte2_bit3.BCM88680=4
config add ext_ram_dq_swap_dram2_byte2_bit4.BCM88680=5
```

```
config add ext_ram_dq_swap_dram2_byte2_bit5.BCM88680=7
config add ext_ram_dq_swap_dram2_byte2_bit6.BCM88680=3
config add ext_ram_dq_swap_dram2_byte2_bit7.BCM88680=1
config add ext_ram_dq_swap_dram2_byte3_bit0.BCM88680=5
config add ext_ram_dq_swap_dram2_byte3_bit1.BCM88680=7
config add ext_ram_dq_swap_dram2_byte3_bit2.BCM88680=1
config add ext_ram_dq_swap_dram2_byte3_bit3.BCM88680=3
config add ext_ram_dq_swap_dram2_byte3_bit4.BCM88680=6
config add ext_ram_dq_swap_dram2_byte3_bit5.BCM88680=4
config add ext_ram_dq_swap_dram2_byte3_bit6.BCM88680=0
config add ext_ram_dq_swap_dram2_byte3_bit7.BCM88680=2
config add ext_ram_dq_swap_dram3_byte0_bit0.BCM88680=4
config add ext_ram_dq_swap_dram3_byte0_bit1.BCM88680=1
config add ext_ram_dq_swap_dram3_byte0_bit2.BCM88680=0
config add ext_ram_dq_swap_dram3_byte0_bit3.BCM88680=3
config add ext_ram_dq_swap_dram3_byte0_bit4.BCM88680=6
config add ext_ram_dq_swap_dram3_byte0_bit5.BCM88680=7
config add ext_ram_dq_swap_dram3_byte0_bit6.BCM88680=5
config add ext_ram_dq_swap_dram3_byte0_bit7.BCM88680=2
config add ext_ram_dq_swap_dram3_byte1_bit0.BCM88680=0
config add ext_ram_dq_swap_dram3_byte1_bit1.BCM88680=4
config add ext_ram_dq_swap_dram3_byte1_bit2.BCM88680=6
config add ext_ram_dq_swap_dram3_byte1_bit3.BCM88680=2
config add ext_ram_dq_swap_dram3_byte1_bit4.BCM88680=3
config add ext_ram_dq_swap_dram3_byte1_bit5.BCM88680=1
config add ext_ram_dq_swap_dram3_byte1_bit6.BCM88680=7
config add ext_ram_dq_swap_dram3_byte1_bit7.BCM88680=5
config add ext_ram_dq_swap_dram3_byte2_bit0.BCM88680=2
config add ext_ram_dq_swap_dram3_byte2_bit1.BCM88680=0
config add ext_ram_dq_swap_dram3_byte2_bit2.BCM88680=6
config add ext_ram_dq_swap_dram3_byte2_bit3.BCM88680=4
config add ext_ram_dq_swap_dram3_byte2_bit4.BCM88680=3
config add ext_ram_dq_swap_dram3_byte2_bit5.BCM88680=7
config add ext_ram_dq_swap_dram3_byte2_bit6.BCM88680=5
config add ext_ram_dq_swap_dram3_byte2_bit7.BCM88680=1
config add ext_ram_dq_swap_dram3_byte3_bit0.BCM88680=3
config add ext_ram_dq_swap_dram3_byte3_bit1.BCM88680=7
config add ext_ram_dq_swap_dram3_byte3_bit2.BCM88680=5
config add ext_ram_dq_swap_dram3_byte3_bit3.BCM88680=1
config add ext_ram_dq_swap_dram3_byte3_bit4.BCM88680=4
config add ext_ram_dq_swap_dram3_byte3_bit5.BCM88680=0
config add ext_ram_dq_swap_dram3_byte3_bit6.BCM88680=6
config add ext_ram_dq_swap_dram3_byte3_bit7.BCM88680=2
config add ext_ram_dq_swap_dram4_byte0_bit0.BCM88680=3
config add ext_ram_dq_swap_dram4_byte0_bit1.BCM88680=5
config add ext_ram_dq_swap_dram4_byte0_bit2.BCM88680=6
config add ext_ram_dq_swap_dram4_byte0_bit3.BCM88680=7
config add ext_ram_dq_swap_dram4_byte0_bit4.BCM88680=4
```

```
config add ext_ram_dq_swap_dram4_byte0_bit5.BCM88680=1
config add ext_ram_dq_swap_dram4_byte0_bit6.BCM88680=2
config add ext_ram_dq_swap_dram4_byte0_bit7.BCM88680=0
config add ext_ram_dq_swap_dram4_byte1_bit0.BCM88680=6
config add ext_ram_dq_swap_dram4_byte1_bit1.BCM88680=5
config add ext_ram_dq_swap_dram4_byte1_bit2.BCM88680=7
config add ext_ram_dq_swap_dram4_byte1_bit3.BCM88680=4
config add ext_ram_dq_swap_dram4_byte1_bit4.BCM88680=3
config add ext_ram_dq_swap_dram4_byte1_bit5.BCM88680=1
config add ext_ram_dq_swap_dram4_byte1_bit6.BCM88680=2
config add ext_ram_dq_swap_dram4_byte1_bit7.BCM88680=0
config add ext_ram_dq_swap_dram4_byte2_bit0.BCM88680=6
config add ext_ram_dq_swap_dram4_byte2_bit1.BCM88680=7
config add ext_ram_dq_swap_dram4_byte2_bit2.BCM88680=1
config add ext_ram_dq_swap_dram4_byte2_bit3.BCM88680=4
config add ext_ram_dq_swap_dram4_byte2_bit4.BCM88680=0
config add ext_ram_dq_swap_dram4_byte2_bit5.BCM88680=2
config add ext_ram_dq_swap_dram4_byte2_bit6.BCM88680=3
config add ext_ram_dq_swap_dram4_byte2_bit7.BCM88680=5
config add ext_ram_dq_swap_dram4_byte3_bit0.BCM88680=2
config add ext_ram_dq_swap_dram4_byte3_bit1.BCM88680=6
config add ext_ram_dq_swap_dram4_byte3_bit2.BCM88680=3
config add ext_ram_dq_swap_dram4_byte3_bit3.BCM88680=7
config add ext_ram_dq_swap_dram4_byte3_bit4.BCM88680=4
config add ext_ram_dq_swap_dram4_byte3_bit5.BCM88680=1
config add ext_ram_dq_swap_dram4_byte3_bit6.BCM88680=5
config add ext_ram_dq_swap_dram4_byte3_bit7.BCM88680=0
config add ext_ram_dq_swap_dram5_byte0_bit0.BCM88680=7
config add ext_ram_dq_swap_dram5_byte0_bit1.BCM88680=6
config add ext_ram_dq_swap_dram5_byte0_bit2.BCM88680=4
config add ext_ram_dq_swap_dram5_byte0_bit3.BCM88680=5
config add ext_ram_dq_swap_dram5_byte0_bit4.BCM88680=1
config add ext_ram_dq_swap_dram5_byte0_bit5.BCM88680=3
config add ext_ram_dq_swap_dram5_byte0_bit6.BCM88680=0
config add ext_ram_dq_swap_dram5_byte0_bit7.BCM88680=2
config add ext_ram_dq_swap_dram5_byte1_bit0.BCM88680=7
config add ext_ram_dq_swap_dram5_byte1_bit1.BCM88680=4
config add ext_ram_dq_swap_dram5_byte1_bit2.BCM88680=2
config add ext_ram_dq_swap_dram5_byte1_bit3.BCM88680=6
config add ext_ram_dq_swap_dram5_byte1_bit4.BCM88680=3
config add ext_ram_dq_swap_dram5_byte1_bit5.BCM88680=0
config add ext_ram_dq_swap_dram5_byte1_bit6.BCM88680=5
config add ext_ram_dq_swap_dram5_byte1_bit7.BCM88680=1
config add ext_ram_dq_swap_dram5_byte2_bit0.BCM88680=1
config add ext_ram_dq_swap_dram5_byte2_bit1.BCM88680=6
config add ext_ram_dq_swap_dram5_byte2_bit2.BCM88680=0
config add ext_ram_dq_swap_dram5_byte2_bit3.BCM88680=2
config add ext_ram_dq_swap_dram5_byte2_bit4.BCM88680=3
```

```
config add ext_ram_dq_swap_dram5_byte2_bit5.BCM88680=5
config add ext_ram_dq_swap_dram5_byte2_bit6.BCM88680=7
config add ext_ram_dq_swap_dram5_byte2_bit7.BCM88680=4
config add ext_ram_dq_swap_dram5_byte3_bit0.BCM88680=1
config add ext_ram_dq_swap_dram5_byte3_bit1.BCM88680=5
config add ext_ram_dq_swap_dram5_byte3_bit2.BCM88680=7
config add ext_ram_dq_swap_dram5_byte3_bit3.BCM88680=3
config add ext_ram_dq_swap_dram5_byte3_bit4.BCM88680=0
config add ext_ram_dq_swap_dram5_byte3_bit5.BCM88680=4
config add ext_ram_dq_swap_dram5_byte3_bit6.BCM88680=6
config add ext_ram_dq_swap_dram5_byte3_bit7.BCM88680=2
config add ext_ram_dq_swap_dram6_byte0_bit0.BCM88680=7
config add ext_ram_dq_swap_dram6_byte0_bit1.BCM88680=5
config add ext_ram_dq_swap_dram6_byte0_bit2.BCM88680=4
config add ext_ram_dq_swap_dram6_byte0_bit3.BCM88680=1
config add ext_ram_dq_swap_dram6_byte0_bit4.BCM88680=3
config add ext_ram_dq_swap_dram6_byte0_bit5.BCM88680=6
config add ext_ram_dq_swap_dram6_byte0_bit6.BCM88680=0
config add ext_ram_dq_swap_dram6_byte0_bit7.BCM88680=2
config add ext_ram_dq_swap_dram6_byte1_bit0.BCM88680=3
config add ext_ram_dq_swap_dram6_byte1_bit1.BCM88680=7
config add ext_ram_dq_swap_dram6_byte1_bit2.BCM88680=4
config add ext_ram_dq_swap_dram6_byte1_bit3.BCM88680=5
config add ext_ram_dq_swap_dram6_byte1_bit4.BCM88680=2
config add ext_ram_dq_swap_dram6_byte1_bit5.BCM88680=6
config add ext_ram_dq_swap_dram6_byte1_bit6.BCM88680=0
config add ext_ram_dq_swap_dram6_byte1_bit7.BCM88680=1
config add ext_ram_dq_swap_dram6_byte2_bit0.BCM88680=1
config add ext_ram_dq_swap_dram6_byte2_bit1.BCM88680=3
config add ext_ram_dq_swap_dram6_byte2_bit2.BCM88680=7
config add ext_ram_dq_swap_dram6_byte2_bit3.BCM88680=2
config add ext_ram_dq_swap_dram6_byte2_bit4.BCM88680=0
config add ext_ram_dq_swap_dram6_byte2_bit5.BCM88680=6
config add ext_ram_dq_swap_dram6_byte2_bit6.BCM88680=4
config add ext_ram_dq_swap_dram6_byte2_bit7.BCM88680=5
config add ext_ram_dq_swap_dram6_byte3_bit0.BCM88680=5
config add ext_ram_dq_swap_dram6_byte3_bit1.BCM88680=2
config add ext_ram_dq_swap_dram6_byte3_bit2.BCM88680=0
config add ext_ram_dq_swap_dram6_byte3_bit3.BCM88680=3
config add ext_ram_dq_swap_dram6_byte3_bit4.BCM88680=6
config add ext_ram_dq_swap_dram6_byte3_bit5.BCM88680=1
config add ext_ram_dq_swap_dram6_byte3_bit6.BCM88680=4
config add ext_ram_dq_swap_dram6_byte3_bit7.BCM88680=7
config add ext_ram_dq_swap_dram7_byte0_bit0.BCM88680=3
config add ext_ram_dq_swap_dram7_byte0_bit1.BCM88680=1
config add ext_ram_dq_swap_dram7_byte0_bit2.BCM88680=7
config add ext_ram_dq_swap_dram7_byte0_bit3.BCM88680=4
config add ext_ram_dq_swap_dram7_byte0_bit4.BCM88680=5
```

```
config add ext_ram_dq_swap_dram7_byte0_bit5.BCM88680=0
config add ext_ram_dq_swap_dram7_byte0_bit6.BCM88680=6
config add ext_ram_dq_swap_dram7_byte0_bit7.BCM88680=2
config add ext_ram_dq_swap_dram7_byte1_bit0.BCM88680=2
config add ext_ram_dq_swap_dram7_byte1_bit1.BCM88680=6
config add ext_ram_dq_swap_dram7_byte1_bit2.BCM88680=4
config add ext_ram_dq_swap_dram7_byte1_bit3.BCM88680=1
config add ext_ram_dq_swap_dram7_byte1_bit4.BCM88680=7
config add ext_ram_dq_swap_dram7_byte1_bit5.BCM88680=3
config add ext_ram_dq_swap_dram7_byte1_bit6.BCM88680=0
config add ext_ram_dq_swap_dram7_byte1_bit7.BCM88680=5
config add ext_ram_dq_swap_dram7_byte2_bit0.BCM88680=1
config add ext_ram_dq_swap_dram7_byte2_bit1.BCM88680=7
config add ext_ram_dq_swap_dram7_byte2_bit2.BCM88680=2
config add ext_ram_dq_swap_dram7_byte2_bit3.BCM88680=0
config add ext_ram_dq_swap_dram7_byte2_bit4.BCM88680=4
config add ext_ram_dq_swap_dram7_byte2_bit5.BCM88680=3
config add ext_ram_dq_swap_dram7_byte2_bit6.BCM88680=5
config add ext_ram_dq_swap_dram7_byte2_bit7.BCM88680=6
config add ext_ram_dq_swap_dram7_byte3_bit0.BCM88680=3
config add ext_ram_dq_swap_dram7_byte3_bit1.BCM88680=4
config add ext_ram_dq_swap_dram7_byte3_bit2.BCM88680=1
config add ext_ram_dq_swap_dram7_byte3_bit3.BCM88680=0
config add ext_ram_dq_swap_dram7_byte3_bit4.BCM88680=2
config add ext_ram_dq_swap_dram7_byte3_bit5.BCM88680=5
config add ext_ram_dq_swap_dram7_byte3_bit6.BCM88680=6
config add ext_ram_dq_swap_dram7_byte3_bit7.BCM88680=7

#Dram HW properties
config add ext_ram_present.BCM88680=2
config add dram_type_GDDR5_MICRON_EDW4032CABG_4GBIT=1
config add ext_ram_freq.BCM88680=2000
config add ext_ram_abi.BCM88680=1
config add ext_ram_write_dbi.BCM88680=1
config add ext_ram_read_dbi.BCM88680=1
config add ext_ram_write_crc.BCM88680=1
config add ext_ram_read_crc.BCM88680=1
config add ext_ram_cmd_par_latency.BCM88680=0
config add ext_ram_type.BCM88680=GDDR5
config add ext_ram_total_size.BCM88680=1000

#RX polarity
#BCM88680
config add phy_rx_polarity_flip.BCM88680=0
config add phy_rx_polarity_flip_phy1.BCM88680=1
config add phy_rx_polarity_flip_phy2.BCM88680=1
config add phy_rx_polarity_flip_phy3.BCM88680=1
config add phy_rx_polarity_flip_phy4.BCM88680=1
```

```
config add phy_rx_polarity_flip_phy5.BCM88680=1
config add phy_rx_polarity_flip_phy6.BCM88680=1
config add phy_rx_polarity_flip_phy7.BCM88680=1
config add phy_rx_polarity_flip_phy8.BCM88680=1
config add phy_rx_polarity_flip_phy9.BCM88680=1
config add phy_rx_polarity_flip_phy11.BCM88680=1
config add phy_rx_polarity_flip_phy12.BCM88680=1
config add phy_rx_polarity_flip_phy13.BCM88680=1
config add phy_rx_polarity_flip_phy14.BCM88680=1
config add phy_rx_polarity_flip_phy15.BCM88680=1
config add phy_rx_polarity_flip_phy16.BCM88680=1
config add phy_rx_polarity_flip_phy17.BCM88680=1
config add phy_rx_polarity_flip_phy18.BCM88680=1
config add phy_rx_polarity_flip_phy19.BCM88680=1
config add phy_rx_polarity_flip_phy20.BCM88680=1
config add phy_rx_polarity_flip_phy21.BCM88680=1
config add phy_rx_polarity_flip_phy22.BCM88680=1
config add phy_rx_polarity_flip_phy23.BCM88680=1
config add phy_rx_polarity_flip_phy33.BCM88680=1
config add phy_rx_polarity_flip_phy34.BCM88680=1
config add phy_rx_polarity_flip_phy35.BCM88680=1
config add phy_rx_polarity_flip_phy36.BCM88680=1
config add phy_rx_polarity_flip_phy37.BCM88680=1
config add phy_rx_polarity_flip_phy38.BCM88680=1
config add phy_rx_polarity_flip_phy39.BCM88680=1
config add phy_rx_polarity_flip_phy40.BCM88680=1
config add phy_rx_polarity_flip_phy42.BCM88680=1
config add phy_rx_polarity_flip_phy43.BCM88680=1
config add phy_rx_polarity_flip_phy47.BCM88680=1
config add phy_rx_polarity_flip_phy50.BCM88680=1
config add phy_rx_polarity_flip_phy53.BCM88680=1
config add phy_rx_polarity_flip_phy55.BCM88680=1
config add phy_rx_polarity_flip_phy56.BCM88680=1
config add phy_rx_polarity_flip_phy58.BCM88680=1
config add phy_rx_polarity_flip_phy59.BCM88680=1
config add phy_rx_polarity_flip_phy60.BCM88680=1
config add phy_rx_polarity_flip_phy61.BCM88680=1
config add phy_rx_polarity_flip_phy62.BCM88680=1
config add phy_rx_polarity_flip_phy63.BCM88680=1
config add phy_rx_polarity_flip_phy64.BCM88680=1
config add phy_rx_polarity_flip_phy65.BCM88680=1
config add phy_rx_polarity_flip_phy66.BCM88680=1
config add phy_rx_polarity_flip_phy67.BCM88680=1
config add phy_rx_polarity_flip_phy68.BCM88680=1
config add phy_rx_polarity_flip_phy69.BCM88680=1
config add phy_rx_polarity_flip_phy70.BCM88680=1
config add phy_rx_polarity_flip_phy71.BCM88680=1
config add phy_rx_polarity_flip_phy72.BCM88680=1
```

```
#TX polarity
#BCM88680
config add phy_tx_polarity_flip.BCM88680=0
config add phy_tx_polarity_flip_phy1.BCM88680=1
config add phy_tx_polarity_flip_phy2.BCM88680=1
config add phy_tx_polarity_flip_phy3.BCM88680=1
config add phy_tx_polarity_flip_phy4.BCM88680=1
config add phy_tx_polarity_flip_phy5.BCM88680=1
config add phy_tx_polarity_flip_phy6.BCM88680=1
config add phy_tx_polarity_flip_phy7.BCM88680=1
config add phy_tx_polarity_flip_phy8.BCM88680=1
config add phy_tx_polarity_flip_phy9.BCM88680=1
config add phy_tx_polarity_flip_phy10.BCM88680=1
config add phy_tx_polarity_flip_phy11.BCM88680=1
config add phy_tx_polarity_flip_phy13.BCM88680=1
config add phy_tx_polarity_flip_phy14.BCM88680=1
config add phy_tx_polarity_flip_phy17.BCM88680=1
config add phy_tx_polarity_flip_phy21.BCM88680=1
config add phy_tx_polarity_flip_phy24.BCM88680=1
config add phy_tx_polarity_flip_phy26.BCM88680=1
config add phy_tx_polarity_flip_phy29.BCM88680=1
config add phy_tx_polarity_flip_phy30.BCM88680=1
config add phy_tx_polarity_flip_phy33.BCM88680=1
config add phy_tx_polarity_flip_phy35.BCM88680=1
config add phy_tx_polarity_flip_phy36.BCM88680=1
config add phy_tx_polarity_flip_phy37.BCM88680=1
config add phy_tx_polarity_flip_phy39.BCM88680=1
config add phy_tx_polarity_flip_phy40.BCM88680=1
config add phy_tx_polarity_flip_phy42.BCM88680=1
config add phy_tx_polarity_flip_phy43.BCM88680=1
config add phy_tx_polarity_flip_phy51.BCM88680=1
config add phy_tx_polarity_flip_phy52.BCM88680=1
config add phy_tx_polarity_flip_phy54.BCM88680=1
config add phy_tx_polarity_flip_phy59.BCM88680=1
config add phy_tx_polarity_flip_phy60.BCM88680=1
config add phy_tx_polarity_flip_phy61.BCM88680=1
config add phy_tx_polarity_flip_phy62.BCM88680=1
config add phy_tx_polarity_flip_phy63.BCM88680=1
config add phy_tx_polarity_flip_phy64.BCM88680=1
config add phy_tx_polarity_flip_phy65.BCM88680=1
config add phy_tx_polarity_flip_phy66.BCM88680=1
config add phy_tx_polarity_flip_phy67.BCM88680=1
config add phy_tx_polarity_flip_phy68.BCM88680=1
config add phy_tx_polarity_flip_phy69.BCM88680=1
config add phy_tx_polarity_flip_phy70.BCM88680=1
config add phy_tx_polarity_flip_phy71.BCM88680=1
config add phy_tx_polarity_flip_phy72.BCM88680=1
```

```
#rx lane swap
#BCM88680
config add phy_rx_lane_map.BCM88680=0x3210
config add phy_rx_lane_map_quad6.BCM88680=0x0132
config add phy_rx_lane_map_quad9.BCM88680=0x3201
config add phy_rx_lane_map_quad14.BCM88680=0x3201

#tx lane swap
#BCM88680
config add phy_tx_lane_map.BCM88680=0x3210
config add phy_tx_lane_map_quad14.BCM88680=0x0132

#fabric interface polarity
config add phy_tx_polarity_flip_fabric46.BCM88680=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88680_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTciDmac.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTciDmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk.h,v 1.1.10.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	tomahawk.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tomahawk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bench.c,v 1.102 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Benchmark tests
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/bench.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_diag.c,v 1.2.12.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 DIAG C
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_diag.c
No license file was found, but licenses were detected in source scan.

/*
  Copyright 2001, Broadcom Corporation
  All Rights Reserved.

  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
  the contents of this file may not be disclosed to third parties, copied or
  duplicated in any form, in whole or in part, without the prior written
  permission of Broadcom Corporation.

*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: vxbsp.h,v 1.3 2007/10/08 22:31:11 iakramov Exp $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/vxbsp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: control.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Dispatch Control Operations (eg: attach, detach)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_appl_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JERP/jerp_intr_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for BCM88200 (SBX FE-2000 + Guadalupe-2000)
*     This is the outer module that covers G2kP2 and G2kP3.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredAvQlenTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredAvQlenTableEntryConsole.hx

No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_fec.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_fec.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIp16BitRewrite.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIp16BitRewrite.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: mirror.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: mirror.h
* Purpose: Mirror internal definitions to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/mirror.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbx_tests.c,v 1.58 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sbx_tests.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utilex_framework.c,v 1.9 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_framework.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_loadbalance.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_loadbalance.c
* Purpose: Maintains all the debug information for loadbalance
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/loadbalance/tomahawk_load_balance.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeRateEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeRateEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_0_1Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPre.h,v 1.4 2012/03/02 15:27:07 yaronm Exp $
* $Copyright: Copyright 2007, Broadcom Corporation All Rights Reserved.
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES
* OF ANY KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.$
* Description: This file configure the VxWorks kernel to includes
*           additional components necessary for SDK.
*           Includes this file before configAll.h
*           in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/configSdkPre.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_scan.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip data structure scanning functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_scan.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: OamUtils.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOamUtils.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/OamUtils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_defines.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM macro values for BCM56960
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk/tdm_th_defines.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

console off

# ----- Start of OVST Sequence -----

setreg TOP_UC_TAP_CONTROL 0x2e
setreg TOP_UC_TAP_CONTROL 0x2e
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_CONTROL
setreg TOP_UC_TAP_WRITE_DATA 0x1fffffc0
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 12 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 12 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 33 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 33 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 30 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 30 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 39 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 39 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
```

```
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 30 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
```

```
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 25 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 19 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 19 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 13 ' \
```

```
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 13 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
```

```
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 6 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 28 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
```

```
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 28 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 14 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f

## Providing cycles for MBIST to complete
#bcm shell "sleep quiet 1"
#
#
## Providing cycles for MBIST to complete
```

```
#bcm shell "sleep quiet 1"

setreg TOP_UC_TAP_WRITE_DATA 0x1dfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 8 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 8 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 8 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000200
setreg TOP_UC_TAP_CONTROL 0x2f

loop 8 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 29 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
loop 29 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 29 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 29 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
```

```
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 35 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 35 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 35 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40001000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 35 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 17 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
setreg TOP_UC_TAP_WRITE_DATA 0xbfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40080000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 17 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
```

```
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 26 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
```

```
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
```

```
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcde80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x17fc3e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x13fc7e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xffcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
loop 21 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 15 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 15 ' \
```

```
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 15 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1ffc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x44000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

loop 15 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1dfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 9 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 5 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 5 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 5 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x1bfcbe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x48000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 5 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 2 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
```

```
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc5e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000002
setreg TOP_UC_TAP_CONTROL 0x2f

loop 2 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 24 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
```

```
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xdfc1e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 24 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 24 ' \
```

```
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfcfe80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40200000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 24 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA
```

```
setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 10 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x41000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0xbfc9e80
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0xbffffbfe
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_WRITE_DATA 0x40000000
setreg TOP_UC_TAP_CONTROL 0x2f
getreg TOP_UC_TAP_READ_DATA

setreg TOP_UC_TAP_WRITE_DATA 0x40000008
setreg TOP_UC_TAP_CONTROL 0x2f

loop 10 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x43000000
setreg TOP_UC_TAP_CONTROL 0x2f

loop 3 ' \
    setreg TOP_UC_TAP_WRITE_DATA 0x40000000; \
    setreg TOP_UC_TAP_CONTROL 0x2f; '

setreg TOP_UC_TAP_WRITE_DATA 0x80000180
setreg TOP_UC_TAP_CONTROL 0x2f
setreg TOP_UC_TAP_CONTROL 0x2e
setreg TOP_UC_TAP_CONTROL 0x2c

# ----- End of OVST Sequence -----

console on
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/td2p_config.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_pkt.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo_pkt.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/topo_pkt.h
No license file was found, but licenses were detected in source scan.

library provided by the Free Software Foundation, but much smaller.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/editline/editline.3
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: example.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: example.c
* Purpose:     To provide an example on how to add customer-specific APIs
*              by placing addtional code in the files in src/customer
*              directory
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/customer/example.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_EAGLE_DPLL_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_eagle_dpll_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0BwpEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0BwpEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fifo_type.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FIFO TYPES H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/dnxf_fifo_type.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_stat_if.h
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_stat_if.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_ssr.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_ssr.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcssr
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ssr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_qdp.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_qdp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_field.h  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: FIELD APIs
*
* Purpose:
*     FIELD API for SBX devices
```

```
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_field.h
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_ma_auto.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ma_auto.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_fcf.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_fcf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bfd.h
No license file was found, but licenses were detected in source scan.

```
# $Id: ghsanity.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Greyhound (BCM53400) Sanity
```

```
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Greyhound, 53369
if $?BCM53400_A0 || \
  $?BCM53401_A0 || $?BCM53402_A0 || $?BCM53403_A0 || $?BCM53404_A0 || \
  $?BCM53405_A0 || $?BCM53406_A0 || $?BCM53408_A0 || $?BCM53369_A0 || \
  $?BCM53411_A0 || $?BCM53412_A0 || $?BCM53413_A0 || $?BCM53414_A0 || \
  $?BCM53415_A0 || $?BCM53416_A0 || $?BCM53418_A0 \
   'local BCM534XX_A0 1'

# Ranger2
if $?BCM56060_A0 || $?BCM56062_A0 || $?BCM56063_A0 || $?BCM56064_A0 || \
  $?BCM56065_A0 || $?BCM56066_A0 \
   'local BCM5606X_A0 1'

# Elkhound
if $?BCM53454_A0 || $?BCM53455_A0 || $?BCM53456_A0 || $?BCM53457_A0 \
   'local BCM5345X_A0 1'

# Bloodhound, 53365
if $?BCM53422_A0 || $?BCM53424_A0 || $?BCM53426_A0 || $?BCM53365_A0 \
   'local BCM5342X_A0 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
```

```
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."

#Need to init misc before testing for MMU_XQ0, 1 ~29
init soc; init misc;

echo " MMU_XQ0";
tr 50 M=MMU_XQ0;
```

```
tr 51 M=MMU_XQ0;
tr 52 M=MMU_XQ0;
tr 71 M=MMU_XQ0 TSE=F SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=F;
echo " MMU_XQ10";
tr 50 M=MMU_XQ10;
tr 51 M=MMU_XQ10;
tr 52 M=MMU_XQ10;
tr 71 M=MMU_XQ10 TSE=F SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=F;
echo " MMU_XQ11";
tr 50 M=MMU_XQ11;
tr 51 M=MMU_XQ11;
tr 52 M=MMU_XQ11;
tr 71 M=MMU_XQ11 TSE=F SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=F;
echo " MMU_XQ12";
tr 50 M=MMU_XQ12;
tr 51 M=MMU_XQ12;
tr 52 M=MMU_XQ12;
tr 71 M=MMU_XQ12 TSE=F SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=F;
echo " MMU_XQ13";
tr 50 M=MMU_XQ13;
tr 51 M=MMU_XQ13;
tr 52 M=MMU_XQ13;
tr 71 M=MMU_XQ13 TSE=F SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=F;
echo " MMU_XQ14";
tr 50 M=MMU_XQ14;
tr 51 M=MMU_XQ14;
tr 52 M=MMU_XQ14;
tr 71 M=MMU_XQ14 TSE=F SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=F;
echo " MMU_XQ15";
tr 50 M=MMU_XQ15;
tr 51 M=MMU_XQ15;
tr 52 M=MMU_XQ15;
tr 71 M=MMU_XQ15 TSE=F SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=F;
echo " MMU_XQ16";
```

```
tr 50 M=MMU_XQ16;
tr 51 M=MMU_XQ16;
tr 52 M=MMU_XQ16;
tr 71 M=MMU_XQ16 TSE=F SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=F;
echo " MMU_XQ17";
tr 50 M=MMU_XQ17;
tr 51 M=MMU_XQ17;
tr 52 M=MMU_XQ17;
tr 71 M=MMU_XQ17 TSE=F SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=F;
echo " MMU_XQ18";
tr 50 M=MMU_XQ18;
tr 51 M=MMU_XQ18;
tr 52 M=MMU_XQ18;
tr 71 M=MMU_XQ18 TSE=F SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=F;
echo " MMU_XQ19";
tr 50 M=MMU_XQ19;
tr 51 M=MMU_XQ19;
tr 52 M=MMU_XQ19;
tr 71 M=MMU_XQ19 TSE=F SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=F;
echo " MMU_XQ2";
tr 50 M=MMU_XQ2;
tr 51 M=MMU_XQ2;
tr 52 M=MMU_XQ2;
tr 71 M=MMU_XQ2 TSE=F SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=F;
echo " MMU_XQ20";
tr 50 M=MMU_XQ20;
tr 51 M=MMU_XQ20;
tr 52 M=MMU_XQ20;
tr 71 M=MMU_XQ20 TSE=F SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=F;
echo " MMU_XQ21";
tr 50 M=MMU_XQ21;
tr 51 M=MMU_XQ21;
tr 52 M=MMU_XQ21;
tr 71 M=MMU_XQ21 TSE=F SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=F;
```

```
echo " MMU_XQ22";
tr 50 M=MMU_XQ22;
tr 51 M=MMU_XQ22;
tr 52 M=MMU_XQ22;
tr 71 M=MMU_XQ22 TSE=F SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=F;
echo " MMU_XQ23";
tr 50 M=MMU_XQ23;
tr 51 M=MMU_XQ23;
tr 52 M=MMU_XQ23;
tr 71 M=MMU_XQ23 TSE=F SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=F;
echo " MMU_XQ24";
tr 50 M=MMU_XQ24;
tr 51 M=MMU_XQ24;
tr 52 M=MMU_XQ24;
tr 71 M=MMU_XQ24 TSE=F SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=F;
echo " MMU_XQ25";
tr 50 M=MMU_XQ25;
tr 51 M=MMU_XQ25;
tr 52 M=MMU_XQ25;
tr 71 M=MMU_XQ25 TSE=F SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=F;
echo " MMU_XQ26";
tr 50 M=MMU_XQ26;
tr 51 M=MMU_XQ26;
tr 52 M=MMU_XQ26;
tr 71 M=MMU_XQ26 TSE=F SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=F;
echo " MMU_XQ27";
tr 50 M=MMU_XQ27;
tr 51 M=MMU_XQ27;
tr 52 M=MMU_XQ27;
tr 71 M=MMU_XQ27 TSE=F SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=F;
echo " MMU_XQ28";
tr 50 M=MMU_XQ28;
tr 51 M=MMU_XQ28;
tr 52 M=MMU_XQ28;
tr 71 M=MMU_XQ28 TSE=F SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=T;
```

```
tr 71 M=MMU_XQ28 TSE=T SLTH=F;
echo " MMU_XQ29";
tr 50 M=MMU_XQ29;
tr 51 M=MMU_XQ29;
tr 52 M=MMU_XQ29;
tr 71 M=MMU_XQ29 TSE=F SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=F;
echo " MMU_XQ3";
tr 50 M=MMU_XQ3;
tr 51 M=MMU_XQ3;
tr 52 M=MMU_XQ3;
tr 71 M=MMU_XQ3 TSE=F SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=F;
echo " MMU_XQ4";
tr 50 M=MMU_XQ4;
tr 51 M=MMU_XQ4;
tr 52 M=MMU_XQ4;
tr 71 M=MMU_XQ4 TSE=F SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=F;
echo " MMU_XQ5";
tr 50 M=MMU_XQ5;
tr 51 M=MMU_XQ5;
tr 52 M=MMU_XQ5;
tr 71 M=MMU_XQ5 TSE=F SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=F;
echo " MMU_XQ6";
tr 50 M=MMU_XQ6;
tr 51 M=MMU_XQ6;
tr 52 M=MMU_XQ6;
tr 71 M=MMU_XQ6 TSE=F SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=F;
echo " MMU_XQ7";
tr 50 M=MMU_XQ7;
tr 51 M=MMU_XQ7;
tr 52 M=MMU_XQ7;
tr 71 M=MMU_XQ7 TSE=F SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=F;
echo " MMU_XQ8";
tr 50 M=MMU_XQ8;
tr 51 M=MMU_XQ8;
tr 52 M=MMU_XQ8;
tr 71 M=MMU_XQ8 TSE=F SLTH=T;
```

```
tr 71 M=MMU_XQ8 TSE=T SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=F;
echo " MMU_XQ9";
tr 50 M=MMU_XQ9;
tr 51 M=MMU_XQ9;
tr 52 M=MMU_XQ9;
tr 71 M=MMU_XQ9 TSE=F SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=F;

init soc; init mmu;

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
```

```
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
if  $?BCM5606X_A0 \
  'echo " EFP_COUNTER_TABLE"; \
  tr 50 M=EFP_COUNTER_TABLE; \
  tr 51 M=EFP_COUNTER_TABLE; \
  tr 52 M=EFP_COUNTER_TABLE; \
  tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F; \
  echo " EFP_METER_TABLE"; \
  tr 50 M=EFP_METER_TABLE; \
  tr 51 M=EFP_METER_TABLE; \
  tr 52 M=EFP_METER_TABLE; \
  tr 71 M=EFP_METER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=F; \
  echo " EFP_POLICY_TABLE"; \
  tr 50 M=EFP_POLICY_TABLE; \
  tr 51 M=EFP_POLICY_TABLE; \
  tr 52 M=EFP_POLICY_TABLE; \
  tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " EFP_TCAM"; \
  tr 50 M=EFP_TCAM; \
  tr 51 M=EFP_TCAM; \
  tr 52 M=EFP_TCAM; \
  tr 71 M=EFP_TCAM TSE=F SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=F; \
  echo " VFP_POLICY_TABLE"; \
  tr 50 M=VFP_POLICY_TABLE; \
  tr 51 M=VFP_POLICY_TABLE; \
  tr 52 M=VFP_POLICY_TABLE; \
  tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " VFP_TCAM"; \
  tr 50 M=VFP_TCAM; \
  tr 51 M=VFP_TCAM; \
  tr 52 M=VFP_TCAM; \
  tr 71 M=VFP_TCAM TSE=F SLTH=T; \
  tr 71 M=VFP_TCAM TSE=T SLTH=T; \
```

```
  tr 71 M=VFP_TCAM TSE=T SLTH=F; \
  echo " INITIAL_L3_ECMP"; \
  tr 50 M=INITIAL_L3_ECMP; \
  tr 51 M=INITIAL_L3_ECMP; \
  tr 52 M=INITIAL_L3_ECMP; \
  tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F; \
  echo " INITIAL_L3_ECMP_GROUP"; \
  tr 50 M=INITIAL_L3_ECMP_GROUP; \
  tr 51 M=INITIAL_L3_ECMP_GROUP; \
  tr 52 M=INITIAL_L3_ECMP_GROUP; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F; \
  echo " L3_ECMP"; \
  tr 50 M=L3_ECMP; \
  tr 51 M=L3_ECMP; \
  tr 52 M=L3_ECMP; \
  tr 71 M=L3_ECMP TSE=F SLTH=T; \
  tr 71 M=L3_ECMP TSE=T SLTH=T; \
  tr 71 M=L3_ECMP TSE=T SLTH=F;'
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
if  $?BCM5606X_A0 \
  'tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;' \
else
  for s=0,1920,128 \
    'echo " Start = $s Count = 64"; \
    tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
    tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
    tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;'
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
if  $?BCM5606X_A0 \
  'tr 71 M=FP_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=F;' \
else
  for s=0,1920,128 \
    'echo " Start = $s Count = 64"; \
    tr 71 Start=$s Count=64 M=FP_TCAM TSE=F SLTH=T; \
```

```
    tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=T; \
    tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=F;'
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EDB_XMIT_CTRL";
tr 50 M=EGR_EDB_XMIT_CTRL;
tr 51 M=EGR_EDB_XMIT_CTRL;
tr 52 M=EGR_EDB_XMIT_CTRL;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=F SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_CONTROL";
tr 50 M=EGR_MIRROR_ENCAP_CONTROL;
tr 51 M=EGR_MIRROR_ENCAP_CONTROL;
tr 52 M=EGR_MIRROR_ENCAP_CONTROL;
```

```
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
if !$?BCM5342X_A0 \
  'echo " EGR_L3_INTF"; \
  tr 50 M=EGR_L3_INTF; \
  tr 51 M=EGR_L3_INTF; \
  tr 52 M=EGR_L3_INTF; \
  tr 71 M=EGR_L3_INTF TSE=F SLTH=T; \
  tr 71 M=EGR_L3_INTF TSE=T SLTH=T; \
  tr 71 M=EGR_L3_INTF TSE=T SLTH=F; \
  echo " EGR_L3_NEXT_HOP"; \
  tr 50 M=EGR_L3_NEXT_HOP; \
  tr 51 M=EGR_L3_NEXT_HOP; \
  tr 52 M=EGR_L3_NEXT_HOP; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;'
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
```

```
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_OAM_MAC_ADDRESS";
tr 50 M=EGR_OAM_MAC_ADDRESS;
tr 51 M=EGR_OAM_MAC_ADDRESS;
tr 52 M=EGR_OAM_MAC_ADDRESS;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=F SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PORT_CREDIT_RESET";
tr 50 M=EGR_PORT_CREDIT_RESET;
tr 51 M=EGR_PORT_CREDIT_RESET;
tr 52 M=EGR_PORT_CREDIT_RESET;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=F SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_VLAN";
```

```
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
```

```
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
```

```
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
#echo " IFP_PORT_FIELD_SEL";
#HWALIAS to FP_PORT_FIELD_SEL -- NOTEST
#tr 50 M=IFP_PORT_FIELD_SEL;
#tr 51 M=IFP_PORT_FIELD_SEL;
#tr 52 M=IFP_PORT_FIELD_SEL;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=F SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_1588_INGRESS_CTRL";
tr 50 M=ING_1588_INGRESS_CTRL;
tr 51 M=ING_1588_INGRESS_CTRL;
tr 52 M=ING_1588_INGRESS_CTRL;
```

```
tr 71 M=ING_1588_INGRESS_CTRL TSE=F SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=F;
echo " ING_IPV6_MC_RESERVED_ADDRESS";
tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=F SLTH=T;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=T;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=F;
if !$?BCM5342X_A0 \
  'echo " ING_L3_NEXT_HOP"; \
  tr 50 M=ING_L3_NEXT_HOP; \
  tr 51 M=ING_L3_NEXT_HOP; \
  tr 52 M=ING_L3_NEXT_HOP; \
  tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;'
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE";
tr 50 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 51 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 52 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
```

```
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
if !$?BCM5342X_A0 \
  'echo " INITIAL_ING_L3_NEXT_HOP"; \
  tr 50 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 51 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 52 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;'
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE_TABLE";
tr 50 M=IPV6_PROXY_ENABLE_TABLE;
tr 51 M=IPV6_PROXY_ENABLE_TABLE;
tr 52 M=IPV6_PROXY_ENABLE_TABLE;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
```

```
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW;
#tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
```

```
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
if !$?BCM5342X_A0 \
  'echo " L3_DEFIP"; \
  tr 50 M=L3_DEFIP; \
  tr 51 M=L3_DEFIP; \
  tr 52 M=L3_DEFIP; \
  tr 71 M=L3_DEFIP TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP TSE=T SLTH=T; \
  tr 71 M=L3_DEFIP TSE=T SLTH=F; \
  echo " L3_DEFIP_DATA_ONLY"; \
  tr 50 M=L3_DEFIP_DATA_ONLY; \
  tr 51 M=L3_DEFIP_DATA_ONLY; \
  tr 52 M=L3_DEFIP_DATA_ONLY; \
  tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T; \
  tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F; \
  echo " L3_DEFIP_HIT_ONLY"; \
  tr 50 M=L3_DEFIP_HIT_ONLY; \
  tr 51 M=L3_DEFIP_HIT_ONLY; \
  tr 52 M=L3_DEFIP_HIT_ONLY; \
  tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T; \
  tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F; \
  echo " L3_DEFIP_ONLY"; \
  tr 50 M=L3_DEFIP_ONLY; \
  tr 51 M=L3_DEFIP_ONLY; \
  tr 52 M=L3_DEFIP_ONLY; \
  tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T; \
  tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F; \
  echo " L3_ENTRY_HIT_ONLY"; \
  tr 50 M=L3_ENTRY_HIT_ONLY; \
  tr 51 M=L3_ENTRY_HIT_ONLY; \
  tr 52 M=L3_ENTRY_HIT_ONLY; \
```

```
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F; \
echo " L3_ENTRY_IPV4_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV4_MULTICAST; \
tr 51 M=L3_ENTRY_IPV4_MULTICAST; \
tr 52 M=L3_ENTRY_IPV4_MULTICAST; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV4_UNICAST"; \
tr 50 M=L3_ENTRY_IPV4_UNICAST; \
tr 51 M=L3_ENTRY_IPV4_UNICAST; \
tr 52 M=L3_ENTRY_IPV4_UNICAST; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV6_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV6_MULTICAST; \
tr 51 M=L3_ENTRY_IPV6_MULTICAST; \
tr 52 M=L3_ENTRY_IPV6_MULTICAST; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV6_UNICAST"; \
tr 50 M=L3_ENTRY_IPV6_UNICAST; \
tr 51 M=L3_ENTRY_IPV6_UNICAST; \
tr 52 M=L3_ENTRY_IPV6_UNICAST; \
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F; \
echo " L3_ENTRY_ONLY"; \
tr 50 M=L3_ENTRY_ONLY; \
tr 51 M=L3_ENTRY_ONLY; \
tr 52 M=L3_ENTRY_ONLY; \
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F; \
echo " L3_ENTRY_VALID_ONLY"; \
tr 50 M=L3_ENTRY_VALID_ONLY; \
tr 51 M=L3_ENTRY_VALID_ONLY; \
tr 52 M=L3_ENTRY_VALID_ONLY; \
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F; \
echo " L3_IPMC"; \
tr 50 M=L3_IPMC; \
tr 51 M=L3_IPMC; \
```

```
  tr 52 M=L3_IPMC; \
  tr 71 M=L3_IPMC TSE=F SLTH=T; \
  tr 71 M=L3_IPMC TSE=T SLTH=T; \
  tr 71 M=L3_IPMC TSE=T SLTH=F; \
  echo " L3_MTU_VALUES"; \
  tr 50 M=L3_MTU_VALUES; \
  tr 51 M=L3_MTU_VALUES; \
  tr 52 M=L3_MTU_VALUES; \
  tr 71 M=L3_MTU_VALUES TSE=F SLTH=T; \
  tr 71 M=L3_MTU_VALUES TSE=T SLTH=T; \
  tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;'
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_DA";
tr 50 M=LMEP_DA;
tr 51 M=LMEP_DA;
tr 52 M=LMEP_DA;
tr 71 M=LMEP_DA TSE=F SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
```

```
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MMU_AGING_CTR";
tr 50 M=MMU_AGING_CTR;
tr 51 M=MMU_AGING_CTR;
tr 52 M=MMU_AGING_CTR;
tr 71 M=MMU_AGING_CTR TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=F;
echo " MMU_AGING_EXP";
tr 50 M=MMU_AGING_EXP;
tr 51 M=MMU_AGING_EXP;
tr 52 M=MMU_AGING_EXP;
tr 71 M=MMU_AGING_EXP TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=F;
echo " MMU_ARB_TDM_TABLE";
tr 50 M=MMU_ARB_TDM_TABLE;
tr 51 M=MMU_ARB_TDM_TABLE;
tr 52 M=MMU_ARB_TDM_TABLE;
tr 71 M=MMU_ARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=F;
echo " MMU_CBPCellHeader";
tr 50 M=MMU_CBPCellHeader;
tr 51 M=MMU_CBPCellHeader;
tr 52 M=MMU_CBPCellHeader;
tr 71 M=MMU_CBPCellHeader TSE=F SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=F;
echo " MMU_CBPData0";
tr 50 M=MMU_CBPData0;
tr 51 M=MMU_CBPData0;
tr 52 M=MMU_CBPData0;
tr 71 M=MMU_CBPData0 TSE=F SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=F;
echo " MMU_CBPData1";
```

```
tr 50 M=MMU_CBPData1;
tr 51 M=MMU_CBPData1;
tr 52 M=MMU_CBPData1;
tr 71 M=MMU_CBPData1 TSE=F SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=F;
echo " MMU_CBPData2";
tr 50 M=MMU_CBPData2;
tr 51 M=MMU_CBPData2;
tr 52 M=MMU_CBPData2;
tr 71 M=MMU_CBPData2 TSE=F SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=F;
echo " MMU_CBPData3";
tr 50 M=MMU_CBPData3;
tr 51 M=MMU_CBPData3;
tr 52 M=MMU_CBPData3;
tr 71 M=MMU_CBPData3 TSE=F SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=F;
echo " MMU_CBPData4";
tr 50 M=MMU_CBPData4;
tr 51 M=MMU_CBPData4;
tr 52 M=MMU_CBPData4;
tr 71 M=MMU_CBPData4 TSE=F SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=F;
echo " MMU_CBPData5";
tr 50 M=MMU_CBPData5;
tr 51 M=MMU_CBPData5;
tr 52 M=MMU_CBPData5;
tr 71 M=MMU_CBPData5 TSE=F SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=F;
echo " MMU_CBPData6";
tr 50 M=MMU_CBPData6;
tr 51 M=MMU_CBPData6;
tr 52 M=MMU_CBPData6;
tr 71 M=MMU_CBPData6 TSE=F SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=F;
echo " MMU_CBPData7";
tr 50 M=MMU_CBPData7;
tr 51 M=MMU_CBPData7;
tr 52 M=MMU_CBPData7;
tr 71 M=MMU_CBPData7 TSE=F SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=F;
```

```
echo " MMU_CBPPktHeader0";
tr 50 M=MMU_CBPPktHeader0;
tr 51 M=MMU_CBPPktHeader0;
tr 52 M=MMU_CBPPktHeader0;
tr 71 M=MMU_CBPPktHeader0 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=F;
echo " MMU_CBPPktHeader1";
tr 50 M=MMU_CBPPktHeader1;
tr 51 M=MMU_CBPPktHeader1;
tr 52 M=MMU_CBPPktHeader1;
tr 71 M=MMU_CBPPktHeader1 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=F;
echo " MMU_CBPPktHeader2";
tr 50 M=MMU_CBPPktHeader2;
tr 51 M=MMU_CBPPktHeader2;
tr 52 M=MMU_CBPPktHeader2;
tr 71 M=MMU_CBPPktHeader2 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=F;
echo " MMU_CBPPktHeader_EXT";
tr 50 M=MMU_CBPPktHeader_EXT;
tr 51 M=MMU_CBPPktHeader_EXT;
tr 52 M=MMU_CBPPktHeader_EXT;
tr 71 M=MMU_CBPPktHeader_EXT TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=F;
echo " MMU_CCP";
tr 50 M=MMU_CCP;
tr 51 M=MMU_CCP;
tr 52 M=MMU_CCP;
tr 71 M=MMU_CCP TSE=F SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=F;
echo " MMU_CFAP";
tr 50 M=MMU_CFAP;
tr 51 M=MMU_CFAP;
tr 52 M=MMU_CFAP;
tr 71 M=MMU_CFAP TSE=F SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL10";
tr 50 M=MMU_IPMC_GROUP_TBL10;
tr 51 M=MMU_IPMC_GROUP_TBL10;
tr 52 M=MMU_IPMC_GROUP_TBL10;
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=T SLTH=T;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL11";
tr 50 M=MMU_IPMC_GROUP_TBL11;
tr 51 M=MMU_IPMC_GROUP_TBL11;
tr 52 M=MMU_IPMC_GROUP_TBL11;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL12";
tr 50 M=MMU_IPMC_GROUP_TBL12;
tr 51 M=MMU_IPMC_GROUP_TBL12;
tr 52 M=MMU_IPMC_GROUP_TBL12;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL13";
tr 50 M=MMU_IPMC_GROUP_TBL13;
tr 51 M=MMU_IPMC_GROUP_TBL13;
tr 52 M=MMU_IPMC_GROUP_TBL13;
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL14";
tr 50 M=MMU_IPMC_GROUP_TBL14;
tr 51 M=MMU_IPMC_GROUP_TBL14;
tr 52 M=MMU_IPMC_GROUP_TBL14;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL15";
tr 50 M=MMU_IPMC_GROUP_TBL15;
tr 51 M=MMU_IPMC_GROUP_TBL15;
tr 52 M=MMU_IPMC_GROUP_TBL15;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL16";
tr 50 M=MMU_IPMC_GROUP_TBL16;
tr 51 M=MMU_IPMC_GROUP_TBL16;
tr 52 M=MMU_IPMC_GROUP_TBL16;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL17";
tr 50 M=MMU_IPMC_GROUP_TBL17;
tr 51 M=MMU_IPMC_GROUP_TBL17;
tr 52 M=MMU_IPMC_GROUP_TBL17;
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=F SLTH=T;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL18";
tr 50 M=MMU_IPMC_GROUP_TBL18;
tr 51 M=MMU_IPMC_GROUP_TBL18;
tr 52 M=MMU_IPMC_GROUP_TBL18;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL19";
tr 50 M=MMU_IPMC_GROUP_TBL19;
tr 51 M=MMU_IPMC_GROUP_TBL19;
tr 52 M=MMU_IPMC_GROUP_TBL19;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL20";
tr 50 M=MMU_IPMC_GROUP_TBL20;
tr 51 M=MMU_IPMC_GROUP_TBL20;
tr 52 M=MMU_IPMC_GROUP_TBL20;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL21";
tr 50 M=MMU_IPMC_GROUP_TBL21;
tr 51 M=MMU_IPMC_GROUP_TBL21;
tr 52 M=MMU_IPMC_GROUP_TBL21;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL22";
tr 50 M=MMU_IPMC_GROUP_TBL22;
tr 51 M=MMU_IPMC_GROUP_TBL22;
tr 52 M=MMU_IPMC_GROUP_TBL22;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL23";
tr 50 M=MMU_IPMC_GROUP_TBL23;
tr 51 M=MMU_IPMC_GROUP_TBL23;
tr 52 M=MMU_IPMC_GROUP_TBL23;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL24";
tr 50 M=MMU_IPMC_GROUP_TBL24;
tr 51 M=MMU_IPMC_GROUP_TBL24;
tr 52 M=MMU_IPMC_GROUP_TBL24;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL25";
tr 50 M=MMU_IPMC_GROUP_TBL25;
tr 51 M=MMU_IPMC_GROUP_TBL25;
tr 52 M=MMU_IPMC_GROUP_TBL25;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL26";
tr 50 M=MMU_IPMC_GROUP_TBL26;
tr 51 M=MMU_IPMC_GROUP_TBL26;
tr 52 M=MMU_IPMC_GROUP_TBL26;
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL27";
tr 50 M=MMU_IPMC_GROUP_TBL27;
tr 51 M=MMU_IPMC_GROUP_TBL27;
tr 52 M=MMU_IPMC_GROUP_TBL27;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL28";
tr 50 M=MMU_IPMC_GROUP_TBL28;
tr 51 M=MMU_IPMC_GROUP_TBL28;
tr 52 M=MMU_IPMC_GROUP_TBL28;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL29";
tr 50 M=MMU_IPMC_GROUP_TBL29;
tr 51 M=MMU_IPMC_GROUP_TBL29;
tr 52 M=MMU_IPMC_GROUP_TBL29;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
```

```
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL5";
tr 50 M=MMU_IPMC_GROUP_TBL5;
tr 51 M=MMU_IPMC_GROUP_TBL5;
tr 52 M=MMU_IPMC_GROUP_TBL5;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL6";
tr 50 M=MMU_IPMC_GROUP_TBL6;
tr 51 M=MMU_IPMC_GROUP_TBL6;
tr 52 M=MMU_IPMC_GROUP_TBL6;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL7";
tr 50 M=MMU_IPMC_GROUP_TBL7;
tr 51 M=MMU_IPMC_GROUP_TBL7;
tr 52 M=MMU_IPMC_GROUP_TBL7;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL8";
tr 50 M=MMU_IPMC_GROUP_TBL8;
tr 51 M=MMU_IPMC_GROUP_TBL8;
tr 52 M=MMU_IPMC_GROUP_TBL8;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL9";
tr 50 M=MMU_IPMC_GROUP_TBL9;
tr 51 M=MMU_IPMC_GROUP_TBL9;
tr 52 M=MMU_IPMC_GROUP_TBL9;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
```

```
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
tr 71 M=MODPORT_MAP_EM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
tr 71 M=MODPORT_MAP_IM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS";
tr 50 M=OAM_LM_COUNTERS;
tr 51 M=OAM_LM_COUNTERS;
tr 52 M=OAM_LM_COUNTERS;
tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
```

```
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SER_MEMORY";
tr 50 M=SER_MEMORY;
tr 51 M=SER_MEMORY;
tr 52 M=SER_MEMORY;
tr 71 M=SER_MEMORY TSE=F SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=F;
```

```
echo " SER_RESULT_0";
tr 50 M=SER_RESULT_0;
#tr 51 M=SER_RESULT_0;
#tr 52 M=SER_RESULT_0;
tr 71 M=SER_RESULT_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=F;
echo " SER_RESULT_1";
tr 50 M=SER_RESULT_1;
#tr 51 M=SER_RESULT_1;
#tr 52 M=SER_RESULT_1;
tr 71 M=SER_RESULT_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=F;
echo " SER_RESULT_DATA_0";
tr 50 M=SER_RESULT_DATA_0;
#tr 51 M=SER_RESULT_DATA_0;
#tr 52 M=SER_RESULT_DATA_0;
tr 71 M=SER_RESULT_DATA_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=F;
echo " SER_RESULT_DATA_1";
tr 50 M=SER_RESULT_DATA_1;
#tr 51 M=SER_RESULT_DATA_1;
#tr 52 M=SER_RESULT_DATA_1;
tr 71 M=SER_RESULT_DATA_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_0";
tr 50 M=SER_RESULT_EXPECTED_0;
#tr 51 M=SER_RESULT_EXPECTED_0;
#tr 52 M=SER_RESULT_EXPECTED_0;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_1";
tr 50 M=SER_RESULT_EXPECTED_1;
#tr 51 M=SER_RESULT_EXPECTED_1;
#tr 52 M=SER_RESULT_EXPECTED_1;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
```

```
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
tr 71 M=SRC_MODID_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
```

```
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_EGR_MASK";
tr 50 M=TRUNK_EGR_MASK;
tr 51 M=TRUNK_EGR_MASK;
tr 52 M=TRUNK_EGR_MASK;
tr 71 M=TRUNK_EGR_MASK TSE=F SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
```

```
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
```

```
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;

#New add memories test
echo " EGR_ETAG_PCP_MAPPING";
tr 50 M=EGR_ETAG_PCP_MAPPING;
tr 51 M=EGR_ETAG_PCP_MAPPING;
tr 52 M=EGR_ETAG_PCP_MAPPING;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=T SLTH=F;
echo " EGR_GPP_ATTRIBUTES";
tr 50 M=EGR_GPP_ATTRIBUTES;
tr 51 M=EGR_GPP_ATTRIBUTES;
tr 52 M=EGR_GPP_ATTRIBUTES;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=F SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=F;
echo " EGR_INT_CN_TO_IP_MAPPING";
tr 50 M=EGR_INT_CN_TO_IP_MAPPING;
tr 51 M=EGR_INT_CN_TO_IP_MAPPING;
tr 52 M=EGR_INT_CN_TO_IP_MAPPING;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=T SLTH=F;
echo " EGR_INT_CN_UPDATE";
tr 50 M=EGR_INT_CN_UPDATE;
tr 51 M=EGR_INT_CN_UPDATE;
tr 52 M=EGR_INT_CN_UPDATE;
tr 71 M=EGR_INT_CN_UPDATE TSE=F SLTH=T;
tr 71 M=EGR_INT_CN_UPDATE TSE=T SLTH=T;
tr 71 M=EGR_INT_CN_UPDATE TSE=T SLTH=F;
```

```
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_1";
tr 50 M=EGR_MIRROR_ENCAP_DATA_1;
tr 51 M=EGR_MIRROR_ENCAP_DATA_1;
tr 52 M=EGR_MIRROR_ENCAP_DATA_1;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_2";
tr 50 M=EGR_MIRROR_ENCAP_DATA_2;
tr 51 M=EGR_MIRROR_ENCAP_DATA_2;
tr 52 M=EGR_MIRROR_ENCAP_DATA_2;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=F;
echo " EGR_PER_Q_ECN_MARKED";
tr 50 M=EGR_PER_Q_ECN_MARKED;
tr 51 M=EGR_PER_Q_ECN_MARKED;
tr 52 M=EGR_PER_Q_ECN_MARKED;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=F SLTH=T;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=T SLTH=T;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=T SLTH=F;
echo " EGR_PFC_CONTROL";
tr 50 M=EGR_PFC_CONTROL;
tr 51 M=EGR_PFC_CONTROL;
tr 52 M=EGR_PFC_CONTROL;
tr 71 M=EGR_PFC_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_PFC_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_PFC_CONTROL TSE=T SLTH=F;
echo " ING_ETAG_PCP_MAPPING";
tr 50 M=ING_ETAG_PCP_MAPPING;
tr 51 M=ING_ETAG_PCP_MAPPING;
tr 52 M=ING_ETAG_PCP_MAPPING;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=T SLTH=F;
echo " INT_CN_TO_MMUIF_MAPPING";
tr 50 M=INT_CN_TO_MMUIF_MAPPING;
tr 51 M=INT_CN_TO_MMUIF_MAPPING;
tr 52 M=INT_CN_TO_MMUIF_MAPPING;
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=F SLTH=T;
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=T SLTH=T;
```

```
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=T SLTH=F;
echo " IP_TO_INT_CN_MAPPING";
tr 50 M=IP_TO_INT_CN_MAPPING;
tr 51 M=IP_TO_INT_CN_MAPPING;
tr 52 M=IP_TO_INT_CN_MAPPING;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=F SLTH=T;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=T SLTH=T;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
tr 71 M=CBPCELLHEADER TSE=F SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPPKTHEADER0";
tr 50 M=CBPPKTHEADER0;
tr 51 M=CBPPKTHEADER0;
tr 52 M=CBPPKTHEADER0;
tr 71 M=CBPPKTHEADER0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0 TSE=T SLTH=F;
echo " CBPPKTHEADER1";
tr 50 M=CBPPKTHEADER1;
tr 51 M=CBPPKTHEADER1;
tr 52 M=CBPPKTHEADER1;
tr 71 M=CBPPKTHEADER1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
```

```
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER_EXT";
tr 50 M=CBPPKTHEADER_EXT;
tr 51 M=CBPPKTHEADER_EXT;
tr 52 M=CBPPKTHEADER_EXT;
tr 71 M=CBPPKTHEADER_EXT TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER_EXT TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER_EXT TSE=T SLTH=F;
echo " MMU_WRED_UC_QUEUE_CONFIG";
tr 50 M=MMU_WRED_UC_QUEUE_CONFIG;
tr 51 M=MMU_WRED_UC_QUEUE_CONFIG;
tr 52 M=MMU_WRED_UC_QUEUE_CONFIG;
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=F SLTH=T;
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=T SLTH=T;
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_GREEN";
tr 50 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 51 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 52 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_RED";
tr 50 M=MMU_WRED_DROP_PROFILE_RED;
tr 51 M=MMU_WRED_DROP_PROFILE_RED;
tr 52 M=MMU_WRED_DROP_PROFILE_RED;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_YELLOW";
tr 50 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 51 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 52 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_GREEN";
tr 50 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 51 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 52 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_RED";
tr 50 M=MMU_WRED_MARK_PROFILE_RED;
tr 51 M=MMU_WRED_MARK_PROFILE_RED;
```

```
tr 52 M=MMU_WRED_MARK_PROFILE_RED;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_YELLOW";
tr 50 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 51 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 52 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=T SLTH=F;
echo " RESPONSIVE_PROTOCOL_MATCH";
tr 50 M=RESPONSIVE_PROTOCOL_MATCH;
tr 51 M=RESPONSIVE_PROTOCOL_MATCH;
tr 52 M=RESPONSIVE_PROTOCOL_MATCH;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=F SLTH=T;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=T SLTH=T;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=T SLTH=F;
echo " SER_ACC_TYPE_MAP";
tr 50 M=SER_ACC_TYPE_MAP;
tr 51 M=SER_ACC_TYPE_MAP;
tr 52 M=SER_ACC_TYPE_MAP;
tr 71 M=SER_ACC_TYPE_MAP TSE=F SLTH=T;
tr 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=T;
tr 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=F;

#The BUCKETf will be updated if MISCCONFIG.METERING_CLK_ENf=1
# The bit will be set after doing init misc
echo " MMU_MAX_BUCKET_PGRP0";
tr 50 M=MMU_MAX_BUCKET_PGRP0;
tr 51 M=MMU_MAX_BUCKET_PGRP0;
tr 52 M=MMU_MAX_BUCKET_PGRP0;
tr 71 M=MMU_MAX_BUCKET_PGRP0 TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_PGRP0 TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_PGRP0 TSE=T SLTH=F;
echo " MMU_MAX_BUCKET_PGRP1";
tr 50 M=MMU_MAX_BUCKET_PGRP1;
tr 51 M=MMU_MAX_BUCKET_PGRP1;
tr 52 M=MMU_MAX_BUCKET_PGRP1;
tr 71 M=MMU_MAX_BUCKET_PGRP1 TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_PGRP1 TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_PGRP1 TSE=T SLTH=F;
echo " MMU_MIN_BUCKET_PGRP0";
tr 50 M=MMU_MIN_BUCKET_PGRP0;
tr 51 M=MMU_MIN_BUCKET_PGRP0;
tr 52 M=MMU_MIN_BUCKET_PGRP0;
tr 71 M=MMU_MIN_BUCKET_PGRP0 TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_PGRP0 TSE=T SLTH=T;
```

```
tr 71 M=MMU_MIN_BUCKET_PGRP0 TSE=T SLTH=F;
echo " MMU_MIN_BUCKET_PGRP1";
tr 50 M=MMU_MIN_BUCKET_PGRP1;
tr 51 M=MMU_MIN_BUCKET_PGRP1;
tr 52 M=MMU_MIN_BUCKET_PGRP1;
tr 71 M=MMU_MIN_BUCKET_PGRP1 TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_PGRP1 TSE=T SLTH=T;
tr 71 M=MMU_MIN_BUCKET_PGRP1 TSE=T SLTH=F;

#It doesn't support read. Write also require other commends.
#echo " XLPORT_WC_UCMEM_DATA";
#tr 50 M=XLPORT_WC_UCMEM_DATA;
#tr 51 M=XLPORT_WC_UCMEM_DATA;
#tr 52 M=XLPORT_WC_UCMEM_DATA;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=F;

#Need to disable WRED_REFRESH_ENf before testing
#echo " MMU_WRED_UC_QUEUE_AVG_QSIZE";
#tr 50 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 51 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 52 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=F SLTH=T;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=T SLTH=T;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=T SLTH=F;
#echo " MMU_WRED_MARK_THD";
#tr 50 M=MMU_WRED_MARK_THD;
#tr 51 M=MMU_WRED_MARK_THD;
#tr 52 M=MMU_WRED_MARK_THD;
#tr 71 M=MMU_WRED_MARK_THD TSE=F SLTH=T;
#tr 71 M=MMU_WRED_MARK_THD TSE=T SLTH=T;
#tr 71 M=MMU_WRED_MARK_THD TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done
```

```
#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

if !$?BCM5342X_A0 \
  'echo "Running IPV4 overflow insert test ..."; \
  tr 87 IPMCEnable=False; \
  tr 87 IPMCEnable=True; \
  echo "Running IPV4 hash test ..."; \
  tr 88 IPMCEnable=False; \
  tr 88 IPMCEnable=True; \
  echo "Running IPV6 overflow insert test ..."; \
  tr 85 IPMCEnable=False; \
  tr 85 IPMCEnable=True; \
  echo "Running IPV6 hash test ..."; \
  tr 86 IPMCEnable=False; \
  tr 86 IPMCEnable=True;'

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done
```

```
echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done
#no mpls in greyhound
#echo "Running MPLS overflow insert test ..."
#tr 104
#$done

#echo "Running MPLS hash tests ..."
#tr 105 hash=0
#tr 105 hash=1
#tr 105 hash=2
#tr 105 hash=3
#tr 105 hash=4
#tr 105 hash=5
#$done

echo "Running Software Error Recovery ..."
tr 144 testType=spread
$done

# Disable the link thread while testing the tr 60
# Reload rc will restart the link thread, so set rct=false before testing
set rct=false
rcload rc.soc
linkscan off

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done
# Re-initialize to set rct=true after tr 60 testing
set rct=true

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
```

```
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two
$done

echo "Running MAC loopback TR 18 on all ports ..."
tr 18 pbm=ge speed=10
tr 18 pbm=ge speed=100
tr 18 pbm=ge speed=1000
if !$?BCM56062_A0 \
   'tr 18 pbm=xe speed=10G;'
tr 18 pbm=xe speed=MAX
if !$?BCM56062_A0 \
   'tr 18 pbm=hg speed=10G;'
tr 18 pbm=hg speed=MAX
$done

echo "Running PHY loopback TR 19 on all ports ..."
tr 19 pbm=ge speed=10
tr 19 pbm=ge speed=100
tr 19 pbm=ge speed=1000
if !$?BCM56062_A0 \
   'tr 19 pbm=xe speed=10G;'
tr 19 pbm=xe speed=MAX
if !$?BCM56062_A0 \
   'tr 19 pbm=hg speed=10G;'
tr 19 pbm=hg speed=MAX
```

```
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge
tr 72 RM=MAC PBM=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=ge
tr 72 RM=PHY PBM=xe
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73
$done

#Reload Test
echo "TX Reload Test"
tr 90

echo "RX Reload Test"
tr 91 TxPktCount=10

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ghsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh.h,v 1.4 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bhh.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_trill.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_trill.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.1419 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    Tracks and manages ports.
*             P-VLAN table is managed directly.
*             MAC/PHY interfaces are managed through respective drivers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_marking.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint cos marking example.
*
* Cross connect two ports (denoted @in_port and @out_port), and set @out_port to perform
* DSCP/EXP marking when the expected traffic (vlan 10) is received from in_port.
* Set @port to do DSCP marking for ip packets with Ethernet TPID (VLAN) = 10.
* The packets are expected to be received on in_port.
* The resulting packets will be sent from out_port.
*
* There are two types of calling sequences - basic and advanced.
```

```
* One of the parameters for determining the DSCP/EXP of the new packets
* is inlif profile.
* The inlif profile is a property of the lif.
* In basic mode, the inlif profile is avoided altogether by managing it internally.
* In basic mode the user sets the port for DSCP/EXP marking and does not
* need to do anything about the inlif profile.
* In advanced mode the user manages inlif profiles and sets the required inlif
* profile for each port.
* Therefore when setting the DSCP/EXP mapping the advanced user has more control
* since he/she can control the DSCP/EXP mapping by inlif profile as well as other
* parameters.
*
* Calling sequence:
*  1. Map drop precedence values to resolved drop precedence values.
*     The DSCP/EXP marking is done according to resolved drop precedence values which are 1 bit.
*     However the drop precedence of packets in the device is 2 bits.
*     This map is used to resolve which 1 bit resolved drop precedence should be
*     used for each 2 bit drop precedence value.
*  2. [Basic Mode]
*       Set the in port to do DSCP/EXP marking.
*     [Advanced Mode]
*       Set some in inlif profile to do DSCP/EXP marking and set the inlif profile of the
*       in port to it.
*  3. [Basic Mode]
*       Create a QoS profile and map (tc,resolved-dp,qos_profile) to the desired
*       EXP and DSCP.
*     [Advanced Mode]
*       Create a QoS profile and map (tc,resolved-dp,qos_profile,inlif_profile) to the desired
*       EXP and DSCP.
*  5. Set the QoS profile to the created QoS profile.
*
* Traffic:
*   Send IP packets with VLAN=10 and any MAC Destination Address in the Ethernet header.
*
* When the expected packets are sent on in_port, the DSCP/EXP value is changed according to the setup.
*
* Run script:
*
* For simple mode, the following SOC property should be set:
* bcm886xx_qos_l3_l2_marking=1
*
  cint cint_vswitch_cross_connect_p2p.c
  cint cint_qos_marking.c
  cint
  // print qos_map_dscp_marking(@unit,@in_port,@out_port);
  print qos_map_dscp_marking(unit,13,200);

*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_marking.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/multicast.c
* Purpose:     BCMX Multicast APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sram.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sram.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/sram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ci.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    ci.c
* Purpose: Caladan3 CI drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ci.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmdbllinklist.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmdbllinklist.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_ce.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_pmf_low_level.c
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_pmf_low_level_ce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200XbTstcntAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200XbTstcntAddr.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200XbTstcntAddr.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_scheduler.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_framework.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_framework.h
*
* MODULE PREFIX:  soc_ppd_framework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: instr.c,v 1.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Tomahawk Instrumentation API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/instrumentation.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/instrumentation.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_metro_p2p.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_metro_p2p.c
* Purpose: Example of Point-to-Point service.
*
* P2P VPN (VPWS): Where two logical interfaces are attached to the service and traffic
*                 is statically switched from one interface to another.
*
* This example creates a VSI and connects two logical ports to this VSI.
* Traffic inserted from one port will be forwarded to the second port with the required editing.
*
* Open P2P service and attach two logical ports:
*  o   For port 1, set outer TPID to 0x8100 and inner TPID to 0x9100 (using cint_port_tpid.c).
*      The association of the packet to logical port (MPLS/VLAN - port) is according to:
*      -    <port, outer-VID, inner-vlan> for double-tagged packets
*      -    <port, outer-VID > for single-tagged packets
*  o   Create P2P VPN using bcm_mpls_vpn_id_create()
*  o   Define and add VLAN ports to the created VPN:
*      -    bcm_vlan_port_create(unit, &vlan_port_1);
*           o   In-port: 1, outer-vlan: 100, inner-vlan: 101
*      -    bcm_vlan_port_create(unit, &vlan_port_2);
*           o   In-port: 1, outer-vlan: 800, inner-vlan: 801
*
* Traffic:
*   Injecting the following Ethernet packet from port 1:
*
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |                                                                              |
*   |                    tag1                tag2                                  |
*   | +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ |
*   | | DA | SA || TIPD1 | Prio | VID || TIPD2 | Prio | VID ||   Data   | |
*   | |    |    || 0x8100|      | 100 || 0x9100|      | 101 ||         | |
*   | +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ |
*   |                                                                              |
*   |              +~~~~~~~~~~~~~~~~~~~
```

```
*
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |                                                                            |
*   |                    tag1                tag2                                |
*   |  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+  |
*   |  | DA | SA || TIPD1 | Prio | VID || TIPD2 | Prio | VID ||   Data   | |
*   |  |    |    || 0x8100|      | 800 || 0x9100|      | 801 ||         | |
*   |  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+  |
*   |                                                                            |
*   |                +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                      |
*   |                |Figure 11: Port 1 Ethernet Header|                         |
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
*   Observe that there is no learning, as service is p2p.
*
* To Activate Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_vlan.c
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*     BCM> cint examples/dpp/cint_vswitch_metro_p2p.c
*     BCM> cint
*     cint> vswitch_p2p_init(unit, port, outer_valn1, inner_vlan1, outer_valn2, inner_vlan2);
*
* Note: This example is also available for a two-unit system.
*      More details can be found in cint_vswitch_metro_p2p_multi_device.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_metro_p2p.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_trap_mgmt.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_trap_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQ2EcEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQ2EcEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwBandwidthParameterEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_FAP10M.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_FAP10M.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pfc_deadlock.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PFC Deadlock Detection & Recovery
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/pfc_deadlock.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/pfc_deadlock.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_sorted_list.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_sorted_list.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_sorted_list.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision     :  $Id: eagle_merlin_api_uc_common.h 1138 2015-09-17 20:58:34Z kirand $ *
*                                                                                        *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs              *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_trap_mgmt.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_trap_mgmt.c
*
* MODULE PREFIX:  soc_ppc_trap
*
* FILE DESCRIPTION:
*
```

```
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_trap_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_serdes.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_serdes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    policer.c
* Purpose: Manages policer functions
*
* Note : Not for RoboSwitch currently.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/policer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpBfPriTableEntryConsole.hx

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_ecmp.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_ecmp.c
* Purpose: Example of two levels MPLS-ECMP configuration.
*
*   Incoming UDP Packet with dip 172.172.172.172 and random sip and source port
*     * * *
*   *      *                                Outer outgoing
*   *      *                     * * * * * * * * * *   MPLS label (0x1000)
*   *  |  *                   *                *
*     * | *                  *  0      * * *        *
*      |                    *  0      *  101  *        *
*      |                   *  0      *     ------------------------->
*      |                  *  1       /      *         *
*      |  +----+           *         /  * * *           *
*      |  |ECMP|            *  +----+   /         * * *     *
*      \-->| 1  |----------------->|ECMP|----------------     *   *       Inner outgoing
*          +----+            *  |1_2 |   \        *  102  *   *         MPLS label (0x101 / 0x102 / 0x103)
*            | Hashing        *  +----+   \       *    ----------------->
*            | configured     *          \ * *     * * *     *
*            | seperatly      *        * \   *          *
*            | per  ECMP       *       *     --------------------------->
*            | level           *      *  103  *         *
*            |                *       * * *         *
*            |                 *                *
*            |                  * * * * * * * * * *
*            |
*            |                    Outer outgoing
*            |         * * * * * * * * * *   MPLS label (0x2000)
*            |       *                *
*            |     *  0      * * *        *
*            |     *  0      *  201  *        *
*            |    *  0      *     ------------------------->
*            |   *  2       /      *         *
*            |  *         / * * *           *
*            |  *  +----+   /         * * *     *
*            \----->|ECMP|----------------     *   *       Inner outgoing
*              *  |2_2 |   \        *  202  *   *        MPLS label (0x201 / 0x202 / 0x203)
*              *  +----+   \       *    ----------------->
*              *          \ * *     * * *     *
*               *        * \   *          *
*                *       *     --------------------------->
*                 *      *  203  *         *
*                  *       * * *         *
```

```
*                   *                *
*                    * * * * * * * * * *
*
* Explanation:
*  Incoming MPLS over Ethernet packets coming from in_port, vlan 100 with a label of 0x5000
*  will be directed to ECMP 1 which will select next FEC by hash results.
*  next FEC will point to an MPLS tunnel and will forward to another ECMP which will select next FEC according
to hash result.
*  This FEC will point to another MPLS tunnel and will forward to physical out_port.
*
* Packets:
*  Incoming
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
++++++++++++
*  | Ethernet                                | MPLS                  | Payload            |
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
++++++++++++
*  | DA                | SA | TPID   | PCP | DEI | VID | Label  | TC | BOS | TTL | SIP    | .. | SPORT |
*  | 00:00:00:01:01:01 |    | 0x8100 |     |     | 100 | 0x5000 |    | 1   |     | random | .. | ramdom|
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
++++++++++++
*
*  Outgoing:
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
*  | Ethernet                                | MPLS                  | MPLS                  | MPLS                  | Payload |
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
*  | DA                | SA | TPID   | PCP | DEI | VID | Label  | TC | BOS | TTL | Label  | TC | BOS | TTL | Label  | TC |
BOS | TTL |        |
*  | 00:00:00:08:08:08 |    | 0x8100 |     |     | 200 | 0x1000 |    | 0   |     | 0x101  |    | 0   |     | 0x5000 |    | 1   |     |        |
*  |                   |    |        |     |     |     |        |    |     |     | 0x102  |    |     |     |        |    |     |     |        |
*  |                   |    |        |     |     |     |        |    |     |     | 0x103  |    |     |     |        |    |     |     |        |
*  |                   |    |        |     |     |     | 0x2000 |    |     |     | 0x201  |    |     |     |        |    |     |     |        |
*  |                   |    |        |     |     |     |        |    |     |     | 0x202  |    |     |     |        |    |     |     |        |
*  |                   |    |        |     |     |     |        |    |     |     | 0x203  |    |     |     |        |    |     |     |        |
*  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
*
* To Activate Above Settings Run:
* cd ../../../../src/examples/dpp/
* cint utility/cint_utils_global.c
* cint utility/cint_utils_vlan.c
* cint utility/cint_utils_l3.c
* cint cint_ip_route.c
* cint validate/cint_hw_access.c
* cint cint_mpls_ecmp.c
* cint cint_stateful_load_balancing.c
```

```
* cint
*      cint> mpls_dual_ecmp_main(0,200,201,1);
* print flexible_two_keys_sport_sip(0, BCM_HASH_CONFIG_CRC16_0x8423);
* exit;
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_ecmp.c
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbQe2000Elib.h elib public API
*
* <pre>
* ========================================
* ==  sbQe2000Elib.h - elib public API  ==
* ========================================
*
* WORKING REVISION: $Id: sbQe2000Elib.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000Elib.h
*
* ABSTRACT:
*
*     elib public API
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     David R. Pickett
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     20-August-2004
* </pre>
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000Elib.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_diag.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_diag.h
*
* MODULE PREFIX:  soc_ppd_diag
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_cint_data.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/diag_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_occupation_bitmap.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_occupation_bitmap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_occupation_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy82328.c,$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy82328.c
* Purpose:    Phys Driver support for Broadcom 82328 40G phy
* Note:
*
* Specifications:

* Repeater mode only, no retimer operation.

* Supports the following data speeds:
* 1.25 Gbps line rate (1 GbE data rate, 8x oversampled over 10 Gbps line rate)
* 10.3125 Gbps line rate (10 GbE data rate)
* 11.5 Gpbs line rate (for backplane application, proprietary data rate)
* 410.3125 Gbps line rate (40 GbE data rate)
*
* Supports the following line-side connections:
* 1 GbE and 10 GbE SFP+ SR and LR optical modules
* 40 GbE QSFP SR4 and LR4 optical modules
* 1 GbE and 10 GbE SFP+ CR (CX1) copper cable
* 40 GbE QSFP CR4 copper cable
* 10 GbE KR, 11.5 Gbps line rate and 40 GbE KR4 backplanes
*
* Operates with the following reference clocks:
* Single 156.25 MHz differential clock for 1.25 Gbps, 10.3125 Gpbs and 11.5 Gbps
* line rates
*
* Supports autonegotiation as follows:
* Clause 73 only for starting Clause 72 and requesting FEC
* No speed resolution performed
* No Clause 73 in 11.5 Gbps line rate, only Clause 72 supported
* Clause 72 may be enabled standalone for close systems
* Clause 37 is not supported
* No on-chip FEC encoding/decoding, but shall pass-through FEC-encoded data.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82328.c

No license file was found, but licenses were detected in source scan.

```
#
# $Id: arad_dram.soc,v 1.0 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

if $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_800 "\
 config add ext_ram_freq=800; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=21; \
 config add ext_ram_t_rrd=7500; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=8; \
 config add ext_ram_t_faw=40000; \
 config add ext_ram_c_cas_latency=11; \
 config add ddr3_mem_grade=0x111111"

if $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_933 "\
 config add ext_ram_freq=933; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=25; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=9; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=13; \
 config add ddr3_mem_grade=0x131313"

if $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066 "\
 config add ext_ram_freq=1066; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=29; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
```

```
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=10; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=14; \
 config add ddr3_mem_grade=0x141414"

if $?dram_type_DDR3_MICRON_MT41J256M16_4GBIT_1066 "\
 config add ext_ram_freq=1066; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=29; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46130; \
 config add ext_ram_t_rcd_rd=13090; \
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=260000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=10; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=14; \
 config add ddr3_mem_grade=0x141414"

if $?dram_type_DDR3_MICRON_MT42J64M16LA_15E_667 "\
 config add ext_ram_freq=667; \
 config add ext_ram_rows=8192; \
 config add ext_ram_jedec=21; \
 config add ext_ram_t_rrd=7500; \
 config add ext_ram_t_rc=49500; \
 config add ext_ram_t_rcd_rd=13500; \
 config add ext_ram_t_rcd_wr=13500; \
 config add ext_ram_t_rp=13500; \
 config add ext_ram_t_rfc=110000; \
 config add ext_ram_t_ras=36000; \
 config add ext_ram_c_wr_latency=7; \
 config add ext_ram_t_faw=45000; \
 config add ext_ram_c_cas_latency=9; \
 config add ddr3_mem_grade=0x090909"

if $?dram_type_DDR3_MICRON_MT41J128M16HA_125_800 "\
 config add ext_ram_freq=800; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=21; \
 config add ext_ram_t_rrd=7500; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
```

```
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=8; \
 config add ext_ram_t_faw=40000; \
 config add ext_ram_c_cas_latency=11; \
 config add ddr3_mem_grade=0x111111"

if $?dram_type_DDR3_MICRON_MT41J128M16HA_125_933 "\
 config add ext_ram_freq=933; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=25; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=9; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=13; \
 config add ddr3_mem_grade=0x131313"

if $?dram_type_DDR3_MICRON_MT41J128M16HA_125_1066 "\
 config add ext_ram_freq=1066; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=29; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=160000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=10; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=14; \
 config add ddr3_mem_grade=0x141414"

if $?dram_type_DDR3_SAMSUNG_K4B4G1646B_4GBIT_1066 "\
 config add ext_ram_freq=1066; \
 config add ext_ram_rows=16384; \
 config add ext_ram_jedec=29; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=46090; \
 config add ext_ram_t_rcd_rd=13090; \
```

```
 config add ext_ram_t_rcd_wr=13090; \
 config add ext_ram_t_rp=13090; \
 config add ext_ram_t_rfc=260000; \
 config add ext_ram_t_ras=33000; \
 config add ext_ram_c_wr_latency=10; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=14; \
 config add ddr3_mem_grade=0x141414"

if $?dram_type_DDR3_SAMSUNG_K4B1G1646G_800 "\
 config add ext_ram_freq=800; \
 config add ext_ram_rows=8192; \
 config add ext_ram_jedec=25; \
 config add ext_ram_t_rrd=7500; \
 config add ext_ram_t_rc=47910; \
 config add ext_ram_t_rcd_rd=13910; \
 config add ext_ram_t_rcd_wr=13910; \
 config add ext_ram_t_rp=13910; \
 config add ext_ram_t_rfc=110000; \
 config add ext_ram_t_ras=34000; \
 config add ext_ram_c_wr_latency=8; \
 config add ext_ram_t_faw=40000; \
 config add ext_ram_c_cas_latency=11; \
 config add ddr3_mem_grade=0x111111"

if $?dram_type_DDR3_SAMSUNG_K4B1G1646G_933 "\
 config add ext_ram_freq=933; \
 config add ext_ram_rows=8192; \
 config add ext_ram_jedec=25; \
 config add ext_ram_t_rrd=6000; \
 config add ext_ram_t_rc=47910; \
 config add ext_ram_t_rcd_rd=13910; \
 config add ext_ram_t_rcd_wr=13910; \
 config add ext_ram_t_rp=13910; \
 config add ext_ram_t_rfc=110000; \
 config add ext_ram_t_ras=34000; \
 config add ext_ram_c_wr_latency=9; \
 config add ext_ram_t_faw=35000; \
 config add ext_ram_c_cas_latency=13; \
 config add ddr3_mem_grade=0x131313"

if $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_800 || \
  $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_933 || \
  $?dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066 || \
  $?dram_type_DDR3_MICRON_MT41J256M16_4GBIT_1066 || \
  $?dram_type_DDR3_MICRON_MT41J128M16HA_125_800 || \
  $?dram_type_DDR3_MICRON_MT41J128M16HA_125_933 || \
  $?dram_type_DDR3_MICRON_MT41J128M16HA_125_1066 || \
```

```
  $?dram_type_DDR3_MICRON_MT42J64M16LA_15E_667 || \
  $?dram_type_DDR3_SAMSUNG_K4B4G1646B_4GBIT_1066 || \
  $?dram_type_DDR3_SAMSUNG_K4B1G1646G_933 || \
  $?dram_type_DDR3_SAMSUNG_K4B1G1646G_800 "\
 config add ext_ram_type=DDR3; \
 config add ext_ram_columns=1024; \
 config add ext_ram_banks=8; \
 config add ext_ram_ap_bit_pos=10; \
 config add ext_ram_burst_size=32; \
 config add ext_ram_t_ref=3900000; \
 config add ext_ram_t_wr=15000; \
 config add ext_ram_t_wtr=7500; \
 config add ext_ram_t_rtp=7500"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/arad_dram.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident.c,v 1.224 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_mpls_lsr_copy_exp_to_tc_dp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_mpls_lsr_copy_exp_to_tc_dp.c
* Purpose: Example for utilizing the field APIs to map the forwarding label EXP + RIF.CoS-Profile to TC and DP.
*
* This example illustrates how to map the CoS-Profile+Forwarding-Label.EXP to TC,DP in an MPLS LSR
application (pipe model),
* using Petra-B (not relevant to Arad, which has native support for this)
*
* CINT usage:
*  *   Create a RIF which will perform LSR, using lsr_tc_tp_create_rif_with_vrf_as_cos. The vrf parameter is the
RIF CoS-Profile.
*  *   Use lsr_tc_dp_map_setup to create a field group with appropriate qualifiers and actions (for more details on
the field APIs, see for example cint_fid_demo.c)
```

```
* *   Perform any frame testing desired.
* *   Invoke lsr_tc_dp_map_teardown(unit, group).
*
*  Modify lsr_tc_dp_map_setup to fit your needs, adding entries as you like.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mpls_lsr_copy_exp_to_tc_dp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flash29GL1GDrvLib.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flash29GL1GDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_dram.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_petra_api_dram.h
*
* MODULE PREFIX:  soc_tmcdram
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_dram.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
```

```
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: falcon2_madura_interface.h 1356 2016-02-12 23:27:16Z cvazquez $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon2_madura/SerDes%20Documents/PMD_Methodology/Serdes%20External
%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* falcon2_madura_interface.h - provides the primary functionality.
*
* falcon2_madura_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_interface.h
```

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_tdm.h, v1 18/11/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VLAN CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: uk-proxy-kcom.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  kcom.c
* Purpose:  Provides a kcom interface using User/Kernel proxy services
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/uk-proxy-kcom.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: m24lv128Eeprom.h,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
```

```
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
******************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/m24lv128Eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :    *
*                                                                             *
*  Description :  Interface functions targeted to IP user                     *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_pwr_mgt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_pwr_mgt.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  falcon16_tsc_field_access.c                                *
*  Created On    :  29/04/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  APIs to access Serdes IP Registers and Reg fields          *
*  Revision      :  *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
```

```
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2002, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmsrom.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_ipv4.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_ipv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56725_a0.c
* Purpose:     bcm56725_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56725_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etc_robo_spi.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/etc_robo_spi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_l3mc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_l3mc.c
* Purpose: Maintains all the debug information for l3mc(layer 3 multicast)
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3mc/trident2_l3mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_corr_act_func.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    interrupt_handler_corr_act_func.h
* Purpose:    Implement Corrective Action function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/interrupts/interrupt_handler_corr_act_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_reg.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_reg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_pe_api_uc_vars_rdwr_defns.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_pe_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flashDrvLib.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashDrvLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qos.h
* Purpose:    qos internally exported interface
*             specific to FE2000 BCM API implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/qos.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/qos.h
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane MIPS/ARM cores software interface.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndcpu.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndcpu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_init.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: INIT APIs
*
* Purpose:
*     INIT API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_time.c
* Purpose: bcm_time_capture_get BCM API use example
*
* Before using examples in this CINT, one need to:
* ------------------------------------------------:
* 1) Enable TS_PLL clock by enabling following soc property:
*     phy_1588_dpll_frequency_lock.BCM88650=1
*
* 2) Setup a broad sync (BS) system (requires dedication BS physical configuration).
*
* 3) Initialize ARM ukernel firmware:
*
*     BS master configuration :
*     ---------------------
*     mcsload 0 /firmware/BCM88650_A0_0.srec initmcs=1
*     mcsload 1 /firmware/BCM88650_A0_1bs.srec
*     bs config master bc=10000000 hb=4000
*     bs debug on;sleep 5;bs debug off
*     bs status
*
*     BS slave configuration :
*     ---------------------
*     mcsload 0 /firmware/BCM88650_A0_0.srec initmcs=1
*     mcsload 1 /firmware/BCM88650_A0_1bs.srec
*     bs config bc=10000000 hb=4000
*     bs debug on;sleep 5;bs debug off
*     bs status
*
*
* Provides the following functionalities:
* - get ARAD BS time of day
* - Time interface traverse/delete/heartbeat_enable_get.
*
*
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_time.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_dffs_cpu_mez.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_dffs_cpu_mez.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbusdma.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbusdma.h
* Purpose:    Maps out structures used for SBUSDMA operations and
*             exports routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbusdma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port modes.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/portmode.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_ident.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_ident.h
* Purpose:     CPUDB base board identifiers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cpudb/brd_ident.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       eyescan.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/eyescan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_api_ssr.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_api_ssr.h
*
* AUTHOR:         Dune (U.C.)
*
```

```
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_api_ssr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_chassis_ast.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_chassis_ast.c
* Purpose:     BCM956000 Chassis asymmetric trunk based load balancing
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_chassis_ast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaPmLastLineConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaPmLastLineConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for trunking (a.k.a. Port Aggregation)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/trunk.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:       bfd_sdk_pack.c
* Purpose:     BFD unpack routines for:
*             - BFD Control messages
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/bfd_sdk_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_drv.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/eth/eth_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cint_types.h,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_types.h
* Purpose:     CINT type system interface
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_types.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_general.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_general.c
No license file was found, but licenses were detected in source scan.

```
/*  Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.                */
/*  All Rights Reserved                                                          */
/*  company private proprietary, and trade secret.                               */
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_err_code.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_tsc_field_access.c                                          *
*  Created On    :  29/04/2013                                                         *
*  Created By    :  Kiran Divakar                                                      *
*  Description   :  APIs to access Serdes IP Registers and Reg fields                  *
*  Revision      :  $Id: falcon_tsc_field_access.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                      *
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                          *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                          *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_field_access_c.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: tefmod16_sc_lkup_table.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*  Description: define enumerators
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_sc_lkup_table.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_sc_lkup_table.c
No license file was found, but licenses were detected in source scan.

```
/* $Copyright: (c) 2016 Broadcom.
/* Broadcom Proprietary and Confidential. All rights reserved.$                 */
/*  All Rights Reserved                                                 */
/*  company private proprietary, and trade secret.                          */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/furia/tier1/furia_serdes_api_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: streaming.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Streaming test to check TDM table and programming. Each port loops traffic
* back to itself using port bridging and higig lookup for HG ports. Test also
* calculates expected rates based on port config and oversub ratio, measures
* actual rate over a period of time and conducts rate checks. Finally all
* packets in each swill will be redirected to the CPU and checked for integrity.
*
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*          ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swill. Setting this to 0 will let the
*           test calculate the number of packets that can be sent to achieve
*           a lossless swirl at full rate. Set to 0 by default.
* RateCalcInt: Interval in seconds over which rate is to be calculated
* TolLr: Rate tolerance percentage for linerate ports (1% by default).
* TolOv: Rate tolerance percentage for oversubscribed ports (3% by default).
* ChkPktInteg: Set to 0 to disable packet integrity checks, 1 to enable (default).
* MaxNumCells: Max number of cells for random packet sizes. Default = 4. Set
*              to 0 for random.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: tmu_cint.stg,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from $SDK/caladan_ucode/t3p1/src/t3p1_tmu_cfg.lrp
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/t3p1_tmu_cint_data.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_utils_eeprom.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DCMN eeprom utils
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_utils_eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_o.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_o.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_cmu_sim.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cmu_sim.h: Guadalupe2k V1.3 CMU counter access
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_cmu_sim.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision     :  $Id: srds_api_uc_common_public.h 1272 2015-11-24 17:00:22Z jgaither $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_iarb.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM Trident2+ IARB scheduler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_iarb.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/ARAD/arad_egr_prge_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_low_level.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_indirect_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_egr_prge_interface.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_indirect_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_egr_prog_editor.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_fp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_compensation_setting.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbutils.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbutils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_extender_mapping.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_customer_protection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       field.h
* Purpose:     Common Internal Field Processor data structure definitions for the
*              BCM library.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/field.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_low.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_low.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flex_ctr.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flex_ctr.c
* Purpose:     Manage flex counter group creation and deletion
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flexctr/flex_ctr.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: combo28_dram.soc,v 1.0 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#################### General Notes ########################
# Our controller support both DDR4 and GDDR5, we need to "modify" ext_ram_columns in the following way:
#   For DDR4, need to use column number as in DRAM Data Sheet, meaning 1024 in drams supported.
#   For GDDR5, need to multiply number in Data Sheet by 8 (representing the 3 address bits, which are constant 000 in DDR4.), meaning 512 in drams supported.
```

```
if $?dram_type_DDR4_SAMSUNG_K4A4G165WD_4GBIT "\
 config add ext_ram_type=DDR4; \
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=45320;\
 config add ext_ram_t_rcd_wr=13320;\
 config add ext_ram_t_rcd_rd=13320;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=7c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=13320;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=10c;\
 config add ext_ram_t_rtp_l=10c;\
 config add ext_ram_t_wtr_s=4c;\\
 config add ext_ram_t_wtr_l=10c;\\
 config add ext_ram_t_ccd_l=6c;\\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=12c;\
 config add ext_ram_c_cas_latency=17c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024; \
 config add ext_ram_rows=32768; \
 config add ext_ram_banks=8;"

if $?dram_type_DDR4_MICRON_EDY4016AABG_DRFR_4GBIT "\
 config add ext_ram_type=DDR4; \
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=45320;\
 config add ext_ram_t_rcd_wr=13320;\
 config add ext_ram_t_rcd_rd=13320;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=7c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=13320;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=10c;\
 config add ext_ram_t_rtp_l=10c;\
 config add ext_ram_t_wtr_s=4c;\\
 config add ext_ram_t_wtr_l=10c;\\
 config add ext_ram_t_ccd_l=6c;\\
 config add ext_ram_t_ccd_s=4c;\
```

```
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=12c;\
 config add ext_ram_c_cas_latency=16c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024; \
 config add ext_ram_rows=32768; \
 config add ext_ram_banks=8;"

##########################################################################
# Note: Not for new design not recommended to be used and not supported
##########################################################################
if $?dram_type_DDR4_MICRON_MT40A256M16HA_083EA_4GBIT "\
 config add ext_ram_type=DDR4; \
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=47000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=15000;\
 config add ext_ram_t_rrd_l=11c;\
 config add ext_ram_t_rrd_s=9c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=15000;\
 config add ext_ram_t_wr=14900;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=12c;\
 config add ext_ram_t_rtp_l=12c;\
 config add ext_ram_t_wtr_s=4c;\\
 config add ext_ram_t_wtr_l=12c;\\
 config add ext_ram_t_ccd_l=8c;\\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=170c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=18c;\
 config add ext_ram_c_cas_latency=24c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024; \
 config add ext_ram_rows=32768; \
 config add ext_ram_banks=8;"

##########################################################################
# Note: Not for new design not recommended to be used and not supported
##########################################################################
if $?dram_type_DDR4_MICRON_MT40A512M16_8GBIT "\
   config add ext_ram_type=DDR4; \
```

```
  config add ext_ram_t_rfc=350000;\
  config add ext_ram_t_rc=45320;\
  config add ext_ram_t_rcd_wr=13320;\
  config add ext_ram_t_rcd_rd=13320;\
  config add ext_ram_t_rrd_l=8c;\
  config add ext_ram_t_rrd_s=7c;\
  config add ext_ram_t_ras=32000;\
  config add ext_ram_t_wr=15000;\
  config add ext_ram_t_faw=30000;\
  config add ext_ram_t_rtp_s=10c;\
  config add ext_ram_t_rtp_l=10c;\
  config add ext_ram_t_wtr_s=4c;\\
  config add ext_ram_t_wtr_l=10c;\
  config add ext_ram_t_ccd_l=8c;\
  config add ext_ram_t_ccd_s=4c;\
  config add ext_ram_t_zqcs=128c;\
  config add ext_ram_t_crc_alert=13000;\
  config add ext_ram_t_rst=500000000;\
  config add ext_ram_t_ref=3900000;\
  config add ext_ram_c_wr_latency=12c;\
  config add ext_ram_c_cas_latency=16c;\
  config add ext_ram_t_al=0;\
  config add ext_ram_columns=1024; \
  config add ext_ram_rows=65536; \
  config add ext_ram_t_rp=13320;\
  config add ext_ram_banks=8;"

if $?dram_type_DDR4_HYNIX_H5AN4G6NMFR_VJC_4GBIT "\
 config add ext_ram_type=DDR4; \
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=45320;\
 config add ext_ram_t_rcd_wr=13320;\
 config add ext_ram_t_rcd_rd=13320;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=4c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=13320;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=7500;\
 config add ext_ram_t_rtp_l=7500;\
 config add ext_ram_t_wtr_s=2500;\
 config add ext_ram_t_wtr_l=7500;\
 config add ext_ram_t_ccd_l=8c;\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_crc_wr_latency=12c;\
```

```
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=16c;\
 config add ext_ram_c_cas_latency=20c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024; \
 config add ext_ram_rows=32768; \
 config add ext_ram_banks=8;"

if $?dram_type_DDR4_MICRON_Y4016AABG_JD_F_4GBIT "\
 config add ext_ram_type=DDR4; \
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=47000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=15000;\
 config add ext_ram_t_rrd_l=11c;\
 config add ext_ram_t_rrd_s=9c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=15000;\
 config add ext_ram_t_wr=14900;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=12c;\
 config add ext_ram_t_rtp_l=12c;\
 config add ext_ram_t_wtr_s=4c;\\
 config add ext_ram_t_wtr_l=12c;\\
 config add ext_ram_t_ccd_l=8c;\\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=170c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=16c;\
 config add ext_ram_c_cas_latency=24c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024; \
 config add ext_ram_rows=32768; \
 config add ext_ram_banks=8;"

if $?dram_type_GDDR5_SAMSUNG_K4G20325FD_2GBIT "\
 config add ext_ram_type=GDDR5; \
 config add ext_ram_t_rfc=78000;\
 config add ext_ram_t_rc=48000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=16000;\
 config add ext_ram_t_rrd_l=6000;\
 config add ext_ram_t_rrd_s=6000;\
 config add ext_ram_t_ras=34000;\
 config add ext_ram_t_rp=14000;\
```

```
 config add ext_ram_t_wr=16000;\
 config add ext_ram_t_faw=24000;\
 config add ext_ram_t_32aw=192000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=4c;\
 config add ext_ram_t_wtr_s=8c;\
 config add ext_ram_t_wtr_l=10c;\
 config add ext_ram_t_ccd_l=3c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=3c;\
 config add ext_ram_c_cas_latency=20c;\
 config add ext_ram_t_crc_rd_latency=3c;\
 config add ext_ram_t_crc_wr_latency=14c;\
 config add ext_ram_t_rst=200000000;\
 config add ext_ram_t_al=1c;\
 config add ext_ram_columns=512; \
 config add ext_ram_rows=8192; \
 config add ext_ram_banks=16;"

##########################################################################
# Note: Not for new design not recommended to be used and not supported
##########################################################################
if $?dram_type_GDDR5_SAMSUNG_K4G41325FC_4GBIT "\
 config add ext_ram_type=GDDR5; \
 config add ext_ram_t_rfc=110000;\
 config add ext_ram_t_rc=48000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=16000;\
 config add ext_ram_t_rrd_l=6000;\
 config add ext_ram_t_rrd_s=6000;\
 config add ext_ram_t_ras=34000;\
 config add ext_ram_t_rp=14000;\
 config add ext_ram_t_wr=16000;\
 config add ext_ram_t_faw=24000;\
 config add ext_ram_t_32aw=192000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=4c;\
 config add ext_ram_t_wtr_s=8c;\
 config add ext_ram_t_wtr_l=10c;\
 config add ext_ram_t_ccd_l=3c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=3c;\
 config add ext_ram_c_cas_latency=20c;\
 config add ext_ram_t_crc_rd_latency=3c;\
 config add ext_ram_t_crc_wr_latency=14c;\
 config add ext_ram_t_rst=200000000;\
```

```
 config add ext_ram_t_al=1c;\
 config add ext_ram_columns=512; \
 config add ext_ram_rows=16384; \
 config add ext_ram_banks=16;"

#if $?dram_type_GDDR5_HYNIX_H5GQ2H24AFR_R0C_2GBIT "\
#  config add ext_ram_type=GDDR5; \
#  config add ext_ram_t_rfc=120000;\
#  config add ext_ram_t_rc=48000;\
#  config add ext_ram_t_rcd_wr=14000;\
#  config add ext_ram_t_rcd_rd=18000;\
#  config add ext_ram_t_rrd_l=9c;\
#  config add ext_ram_t_rrd_s=9c;\
#  config add ext_ram_t_ras=32000;\
#  config add ext_ram_t_rp=16000;\
#  config add ext_ram_t_wr=16000;\
#  config add ext_ram_t_faw=30000;\
#  config add ext_ram_t_32aw=245000;\
#  config add ext_ram_t_rtp_s=2c;\
#  config add ext_ram_t_rtp_l=2c;\
#  config add ext_ram_t_wtr_s=8c;\
#  config add ext_ram_t_wtr_l=8c;\
#  config add ext_ram_t_ccd_l=3c;\
#  config add ext_ram_t_ccd_s=2c;\
#  config add ext_ram_t_ref=3900000;\
#  config add ext_ram_c_wr_latency=3c;\
#  config add ext_ram_c_cas_latency=16c;\
#  config add ext_ram_t_crc_rd_latency=2c;\
#  config add ext_ram_t_crc_wr_latency=11c;\
#  config add ext_ram_t_rst=200000000;\
#  config add ext_ram_t_al=1c;\
#  config add ext_ram_columns=512; \
#  config add ext_ram_rows=8192; \
#  config add ext_ram_banks=16;"
#

#####################################################
#     ELPIDA GDDR5
#####################################################
if $?dram_type_GDDR5_MICRON_EDW4032CABG_4GBIT "\
 config add ext_ram_type=GDDR5; \
 config add ext_ram_t_rfc=90000;\
 config add ext_ram_t_rc=44000;\
 config add ext_ram_t_rcd_wr=13000;\
 config add ext_ram_t_rcd_rd=17000;\
 config add ext_ram_t_rrd_l=5000;\
 config add ext_ram_t_rrd_s=5000;\
 config add ext_ram_t_ras=27000;\
```

```
 config add ext_ram_t_rp=17000;\
 config add ext_ram_t_wr=18000;\
 config add ext_ram_t_faw=20000;\
 config add ext_ram_t_32aw=160000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=2c;\
 config add ext_ram_t_wtr_s=7c;\
 config add ext_ram_t_wtr_l=7c;\
 config add ext_ram_t_ccd_l=3c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=4c;\
 config add ext_ram_c_cas_latency=18c;\
 config add ext_ram_t_crc_rd_latency=3c;\
 config add ext_ram_t_crc_wr_latency=11c;\
 config add ext_ram_t_rst=200000000;\
 config add ext_ram_t_al=2c;\
 config add ext_ram_columns=512; \
 config add ext_ram_rows=16384; \
 config add ext_ram_banks=16;"

if $?dram_type_GDDR5_HYNIX_H5GC4H24MFR_T2C_4GBIT "\
 config add ext_ram_type=GDDR5; \
 config add ext_ram_t_rfc=120000;\
 config add ext_ram_t_rc=48000;\
 config add ext_ram_t_rcd_wr=14000;\
 config add ext_ram_t_rcd_rd=18000;\
 config add ext_ram_t_rrd_l=9c;\
 config add ext_ram_t_rrd_s=9c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=16000;\
 config add ext_ram_t_wr=16000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_32aw=245000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=2c;\
 config add ext_ram_t_wtr_s=8c;\
 config add ext_ram_t_wtr_l=8c;\
 config add ext_ram_t_ccd_l=3c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=4c;\
 config add ext_ram_c_cas_latency=18c;\
 config add ext_ram_t_crc_rd_latency=2c;\
 config add ext_ram_t_crc_wr_latency=13c;\
 config add ext_ram_t_rst=200000000;\
 config add ext_ram_t_al=1c;\
 config add ext_ram_columns=512; \
```

```
 config add ext_ram_rows=16384; \
 config add ext_ram_banks=16;"

##################################################################################################
##
# Note: For extended devices for example Micron dram_type_DDR4_MICRON_MT40A256M16HA_083E
#       please use none extended parameters for example dram_type_DDR4_MICRON_MT40A256M16HA_083
##################################################################################################
##
if $?dram_type_DDR4_MICRON_MT40A256M16HA_083_4GBIT "\
 config add ext_ram_type=DDR4;\
 config add ext_ram_freq=1200;\
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=46160;\
 config add ext_ram_t_rcd_wr=14160;\
 config add ext_ram_t_rcd_rd=14160;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=7c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=14160;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=10c;\
 config add ext_ram_t_rtp_l=10c;\
 config add ext_ram_t_wtr_s=4c;\
 config add ext_ram_t_wtr_l=10c;\
 config add ext_ram_t_ccd_l=6c;\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=12c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024;\
 config add ext_ram_rows=32768;\
 config add ext_ram_banks=8;\
 config delete ext_ram_cmd_par_latency*;\
 config add ext_ram_cmd_par_latency=5;\
 config add ext_ram_c_cas_latency=17c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_DDR4_MICRON_MT40A256M16HA_083_4GBIT "\
 config add ext_ram_c_cas_latency=20c;"

if $?dram_type_DDR4_MICRON_MT40A512M16HA_083_8GBIT "\
 config add ext_ram_type=DDR4;\
 config add ext_ram_freq=1200;\
 config add ext_ram_t_rfc=350000;\
```

```
 config add ext_ram_t_rc=46160;\
 config add ext_ram_t_rcd_wr=14160;\
 config add ext_ram_t_rcd_rd=14160;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=7c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=14160;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=10c;\
 config add ext_ram_t_rtp_l=10c;\
 config add ext_ram_t_wtr_s=4c;\
 config add ext_ram_t_wtr_l=10c;\
 config add ext_ram_t_ccd_l=6c;\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=12c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024;\
 config add ext_ram_rows=65536;\
 config add ext_ram_banks=8;\
 config delete ext_ram_cmd_par_latency*;\
 config add ext_ram_cmd_par_latency=5;\
 config add ext_ram_c_cas_latency=17c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_DDR4_MICRON_MT40A512M16HA_083_8GBIT "\
 config add ext_ram_c_cas_latency=20c;"

if $?dram_type_DDR4_MICRON_MT40A256M16GE_062_4GBIT "\
 config add ext_ram_type=DDR4;\
 config add ext_ram_freq=1600;\
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=47000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=15000;\
 config add ext_ram_t_rrd_l=11c;\
 config add ext_ram_t_rrd_s=9c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=15000;\
 config add ext_ram_t_wr=14900;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=12c;\
 config add ext_ram_t_rtp_l=12c;\
 config add ext_ram_t_wtr_s=4c;\
 config add ext_ram_t_wtr_l=12c;\
```

```
 config add ext_ram_t_ccd_l=8c;\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=170c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=16c;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024;\
 config add ext_ram_rows=32768;\
 config add ext_ram_banks=8;\
 config delete ext_ram_cmd_par_latency*;\
 config add ext_ram_cmd_par_latency=8;\
 config add ext_ram_c_cas_latency=24c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_DDR4_MICRON_MT40A256M16GE_062_4GBIT "\
 config add ext_ram_c_cas_latency=28c;"

if $?dram_type_DDR4_SAMSUNG_K4A4G165WE_4GBIT "\
 config add ext_ram_type=DDR4;\
 config add ext_ram_freq=1200;\
 config add ext_ram_t_rfc=260000;\
 config add ext_ram_t_rc=46160;\
 config add ext_ram_t_rcd_wr=14160;\
 config add ext_ram_t_rcd_rd=14160;\
 config add ext_ram_t_rrd_l=8c;\
 config add ext_ram_t_rrd_s=7c;\
 config add ext_ram_t_ras=32000;\
 config add ext_ram_t_rp=14160;\
 config add ext_ram_t_wr=15000;\
 config add ext_ram_t_faw=30000;\
 config add ext_ram_t_rtp_s=10c;\
 config add ext_ram_t_rtp_l=10c;\
 config add ext_ram_t_wtr_s=4c;\
 config add ext_ram_t_wtr_l=10c;\
 config add ext_ram_t_ccd_l=6c;\
 config add ext_ram_t_ccd_s=4c;\
 config add ext_ram_t_zqcs=128c;\
 config add ext_ram_t_crc_alert=13000;\
 config add ext_ram_t_rst=500000000;\
 config add ext_ram_t_ref=3900000;\
 config add ext_ram_c_wr_latency=12c ;\
 config add ext_ram_t_al=0;\
 config add ext_ram_columns=1024;\
 config add ext_ram_rows=32768;\
 config add ext_ram_banks=8;\
 config delete ext_ram_cmd_par_latency*;\
 config add ext_ram_cmd_par_latency=5;\
```

```
 config add ext_ram_c_cas_latency=17c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_DDR4_SAMSUNG_K4A4G165WE_4GBIT "\
 config add ext_ram_c_cas_latency=20c;"

if $?dram_type_GDDR5_MICRON_MT51K256M32HF_50_8GBIT "\
 config add ext_ram_type=GDDR5;\
 config add ext_ram_t_rfc=110000;\
 config add ext_ram_t_rc=44000;\
 config add ext_ram_t_rcd_wr=12000;\
 config add ext_ram_t_rcd_rd=17000;\
 config add ext_ram_t_rrd_l=5000;\
 config add ext_ram_t_rrd_s=5000;\
 config add ext_ram_t_ras=27000;\
 config add ext_ram_t_rp=17000;\
 config add ext_ram_t_wr=18000;\
 config add ext_ram_t_faw=20000;\
 config add ext_ram_t_32aw=160000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=2c;\
 config add ext_ram_t_wtr_s=6c;\
 config add ext_ram_t_wtr_l=6c;\
 config add ext_ram_t_ccd_l=2c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=4c;\
 config add ext_ram_t_crc_rd_latency=3c;\
 config add ext_ram_t_crc_wr_latency=11c;\
 config add ext_ram_t_rst=200000000;\
 config add ext_ram_t_al=2c;\
 config add ext_ram_columns=1024;\
 config add ext_ram_rows=16384;\
 config add ext_ram_banks=16;\
 config add ext_ram_c_cas_latency=16c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_GDDR5_MICRON_MT51K256M32HF_50_8GBIT "\
 config add ext_ram_c_cas_latency=16c;"

if $?dram_type_GDDR5_SAMSUNG_K4G41325FE_HC28_4GBIT "\
 config add ext_ram_type=GDDR5;\
 config add ext_ram_t_rfc=110000;\
 config add ext_ram_t_rc=48000;\
 config add ext_ram_t_rcd_wr=15000;\
 config add ext_ram_t_rcd_rd=16000;\
 config add ext_ram_t_rrd_l=6000;\
 config add ext_ram_t_rrd_s=6000;\
 config add ext_ram_t_ras=34000;\
 config add ext_ram_t_rp=14000;\
```

```
 config add ext_ram_t_wr=16000;\
 config add ext_ram_t_faw=24000;\
 config add ext_ram_t_32aw=192000;\
 config add ext_ram_t_rtp_s=2c;\
 config add ext_ram_t_rtp_l=4c;\
 config add ext_ram_t_wtr_s=3c;\
 config add ext_ram_t_wtr_l=8c;\
 config add ext_ram_t_ccd_l=3c;\
 config add ext_ram_t_ccd_s=2c;\
 config add ext_ram_t_ref=1900000;\
 config add ext_ram_c_wr_latency=3c;\
 config add ext_ram_t_crc_rd_latency=3c;\
 config add ext_ram_t_crc_wr_latency=14c;\
 config add ext_ram_t_rst=200000000;\
 config add ext_ram_t_al=1c;\
 config add ext_ram_columns=512;\
 config add ext_ram_rows=16384;\
 config add ext_ram_banks=16;\
 config add ext_ram_c_cas_latency=18c;"
expr $ext_ram_write_dbi+0 == 1
if $? && $?dram_type_GDDR5_SAMSUNG_K4G41325FE_HC28_4GBIT "\
 config add ext_ram_c_cas_latency=19c;"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/combo28_dram.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmdiag_refapp.c,v 1.1.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_refapp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xbar.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/xbar.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif_ing_vlan_edit.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_lif_ing_vlan_edit.h
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_lif_ing_vlan_edit.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ofp_rates.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ofp_rates.c
*
* MODULE PREFIX:  soc_tmcofp_rates
*
* FILE DESCRIPTION:
*   Rates and burst configuration of the Outgoing FAP Ports.
*   The configuration envolves End-to-end scheduler and Egress processor.
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmRandomNumGenEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmRandomNumGenEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250IntLib.c,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
**************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250IntLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: boot.h,v 1.18.152.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  boot.h
* Purpose:  Boot definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/boot.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag memory commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: physfp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    physfp.c
* Purpose: Provide PHY driver support for the PHY device embedded in the
*          copper SFP module. It is assumed that PHY device's register
*          implementation conforms to IEEE 802.3 MII register specification.
*          Device features implemented in the vendor specific registers generally
*          will not be supported.
*          This driver has tested with Broadcom 54810S copper SFP and
*          Finisars 1000BASE-T SFP (FCxx-8520/1-3).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/physfp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ports.h,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_ports.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_learn_extension.c,v 1.0 2015/12/14 skoparan Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Main functions:
* --------------
```

```
* run_main (int unit)
*     Main function to create field group for adding Learn Extension to PPH
* run_verify (int unit)
*     Main function to verify action was hit
*
* Cleanup function:
* ----------------
* run_cleanup (int unit)
*    destroys the created group and its entries
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_learn_extension.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: snmp.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SNMP Statistics Retrieval test.
*
* For every port, and every speed possible on that port, can
* we retrieve SNMP statistics without an error? This test will
* confirm that this is the case.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/snmp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mac_adr.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/mac_adr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/mac_adr.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_fabric.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_fabric.c
*
* MODULE PREFIX:  soc_jer2_tmcfabric
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Tomahawk L3 function implementations
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/alpm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tlv_msg.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tlv_msg.h
* Purpose:     TLV Message Utility
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/tlv_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.102 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 Port API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: igmp.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IGMP Snooping
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/igmp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: m24lv128Eeprom.c,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*********************************************************************
*
```

```
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
**********************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/m24lv128Eeprom.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****
*****************************************************************************************
*****
*                                                                                       *
*  Revision      :  $Id: eagle_merlin_api_uc_vars_rdwr_defns.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables      *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/eagle_merlin_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/eagle_merlin_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_yy.h,v 1.5 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_yy.h
* Purpose:     CINT parser interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_yy.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_flow_control.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_flow_control.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_hashtable.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* NAME:
*     soc_sand_hash_table_tests
* TYPE:
*   PROC
* DATE:
*   Mar  6 2008
* FUNCTION:
*     Tests the hash table module
*
*INPUT:
*  SOC_SAND_IN  int     unit -
*    Identifier of the device to access.
*  SOC_SAND_DIRECT:
*    SOC_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  SOC_SAND_INDIRECT:
*    None.
```

```
*OUTPUT:
*  SOC_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  SOC_SAND_INDIRECT:
*    NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_hashtable.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipfix.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Diag CLI IPFIX command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/ipfix.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_vlan_edit.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_vlan_edit.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
```

* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_vlan_edit.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaHi4Selected_0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: cint_ipv4_dc.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipv4_dc.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: program.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: program.c
* Purpose: board stack programming
*
*
*
* Methodology:
*
* Create a connection list formed by the merger of the board's
* internal connections and external topology connections from the
* CPUDB. Create a tree driver from this connection list and the
* stack vertex and edge programming functions, and use
* board_tree_connect to program all the devices.

```
*
*   The edge programmer programs any trunks found on local units, and
*   adds the edge port to the "allowable" stack ports (by default,
*   all stack ports are disallowed).
*
*   The vertex programmer programs the modport map, modid enable, and
*   topology map for every local unit.
*
*   Note that the unit numbers for remote units are synthesized, and
*   must not correspond to any local unit number. bcm_unit_local()
*   must return FALSE for any such remote unit, and the unit number
*   used must be usable by BCM_GPORT_DEVPORT. These remote units
*   numbers are not used as a unit argument except to bcm_unit_local,
*   and are are relatively small, as they are used as an index into
*   board_stk_pgm_t.stk_unit. This requirement is driven by the use
*   of a connection list to drive the tree programming.
*
*   The topology map used for bcm_topo_port_get() is a two
*   dimensional array constructed at stack programming time, and so
*   is common for all systems.
*
*   The methodology used here is a significant departure from that
*   used by stktask, and is more data driven, rather than using hand
*   coded interfaces for each board.
*
*   Note that this subsystem, unlike stktask board programming,
*   expects that internal stack connections between local devices
*   have already been registered with BCM stack during local board
*   initialization, so stack programming only has to deal with modid
*   mapping on internal ports.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/stack/program.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_niv.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_niv.c
* Purpose: This file implements techsupport utility for
*          niv.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/niv/techsupport_niv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_diagnostics.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_diagnostics.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_null.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_null.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_links.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC LINKS H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_links.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ism_hash_cfg.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ISM-HASH configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ism_hash_cfg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassSourceIdEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassSourceIdEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
# $Id: lsanity.soc,v 1.11 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

# Use expected COS configuration for tests
config add bcm_num_cos=4
```

```
init
init misc

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# Tests Start Here

echo Running CPU benchmarks ...
tr 21
$done

echo Running PCI tests ...
tr 2
$done

echo Running register tests ...
tr 3
$done

echo Running S-Channel message buffer test ...
tr 4
$done

echo Running Switching Memory tests
# Note: Switching memory tests automatically put MMU in debug mode

echo "   DEF_IP";  tr 50 m=DEF_IP; tr 51 m=DEF_IP
echo "   DEF_IP_HIT";  tr 50 m=DEF_IP_HIT; tr 51 m=DEF_IP_HIT
echo "   IP_REP_HI";  tr 50 m=IP_REP_HI; tr 51 m=IP_REP_HI
echo "   IP_REP_LO";  tr 50 m=IP_REP_LO; tr 51 m=IP_REP_LO
echo "   EGRESS_MASK";  tr 50 m=EGRESS_MASK; tr 51 m=EGRESS_MASK
echo "   XFFPCOUNTERS 0-1"; tr 50 m=XFFPCOUNTERST0; tr 51 m=XFFPCOUNTERST0
   tr 50 m=XFFPCOUNTERST1; tr 51 m=XFFPCOUNTERST1
echo "   XFFPIPPACKETCOUNTERS 0-1"
        tr 50 m=XFFPIPPACKETCOUNTERST0
   tr 51 m=XFFPIPPACKETCOUNTERST0
   tr 50 m=XFFPIPPACKETCOUNTERST1
   tr 51 m=XFFPIPPACKETCOUNTERST1
```

```
echo "   XFFPOPPACKETCOUNTERS 0-1"
   tr 50 m=XFFPOPPACKETCOUNTERST0
   tr 51 m=XFFPOPPACKETCOUNTERST0
   tr 50 m=XFFPOPPACKETCOUNTERST1
   tr 51 m=XFFPOPPACKETCOUNTERST1
echo "   XFFPIPBYTECOUNTERS 0-1"
   tr 50 m=XFFPIPBYTECOUNTERST0
   tr 51 m=XFFPIPBYTECOUNTERST0
   tr 50 m=XFFPIPBYTECOUNTERST1
   tr 51 m=XFFPIPBYTECOUNTERST1
echo "   XFFPOPBYTECOUNTERS 0-1"
   tr 50 m=XFFPOPBYTECOUNTERST0
   tr 51 m=XFFPOPBYTECOUNTERST0
   tr 50 m=XFFPOPBYTECOUNTERST1
   tr 51 m=XFFPOPBYTECOUNTERST1
echo "   GIMASK";  tr 50 m=GIMASK; tr 51 m=GIMASK
echo "   GIRULE 0-3";  tr 50 m=GIRULET0; tr 51 m=GIRULET0
   tr 50 m=GIRULET1; tr 51 m=GIRULET1
   tr 50 m=GIRULET2; tr 51 m=GIRULET2
   tr 50 m=GIRULET3; tr 51 m=GIRULET3
echo "   XMETERING 0-3"; tr 50 m=XMETERINGT0; tr 51 m=XMETERINGT0
   tr 50 m=XMETERINGT1; tr 51 m=XMETERINGT1
   tr 50 m=XMETERINGT2; tr 51 m=XMETERINGT2
   tr 50 m=XMETERINGT3; tr 51 m=XMETERINGT3
echo "   L2_TABLE";  tr 50 m=L2_TABLE; tr 51 m=L2_TABLE
echo "   L2_HIT_BITS";  tr 50 m=L2_HIT_BITS; tr 51 m=L2_HIT_BITS
echo "   L2MC_TABLE";  tr 50 m=L2MC_TABLE; tr 51 m=L2MC_TABLE
echo "   L2_STATIC_BITS"; tr 50 m=L2_STATIC_BITS; tr 51 m=L2_STATIC_BITS
echo "   L2_VALID_BITS"; tr 50 m=L2_VALID_BITS; tr 51 m=L2_VALID_BITS
echo "   L3_TABLE";  tr 50 m=L3_TABLE; tr 51 m=L3_TABLE
echo "   L3_HIT_BITS";  tr 50 m=L3_HIT_BITS; tr 51 m=L3_HIT_BITS
echo "   L3_VALID_BITS"; tr 50 m=L3_VALID_BITS; tr 51 m=L3_VALID_BITS
echo "   L3INTF";  tr 50 m=L3INTF; tr 51 m=L3INTF
echo "   L3_IPMC";  tr 50 m=L3_IPMC; tr 51 m=L3_IPMC
echo "   PORT_MAC_BLOCK"; tr 50 m=PORT_MAC_BLOCK; tr 51 m=PORT_MAC_BLOCK
echo "   PORT";   tr 50 m=PORT
echo "   PRTABLE";  tr 50 m=PRTABLE; tr 51 m=PRTABLE
echo "   VLAN_STG";  tr 50 m=VLAN_STG; tr 51 m=VLAN_STG
echo "   DMUXTRUNKDIST"; tr 50 m=DMUXTRUNKDIST; tr 51 m=DMUXTRUNKDIST
echo "   TRUNK_BITMAP";  tr 50 m=TRUNK_BITMAP; tr 51 m=TRUNK_BITMAP
echo "   PORT_TRUNK_EGRESS"; tr 50 m=PORT_TRUNK_EGRESS
   tr 51 m=PORT_TRUNK_EGRESS
echo "   TRUNK_GROUP";  tr 50 m=TRUNK_GROUP; tr 51 m=TRUNK_GROUP
echo "   VLAN";   tr 50 m=VLAN; tr 51 m=VLAN
echo "   CBPDATA 0-3";  tr 50 m=CBPDATA0; tr 51 m=CBPDATA0
   tr 50 m=CBPDATA1; tr 51 m=CBPDATA1
   tr 50 m=CBPDATA2; tr 51 m=CBPDATA2
   tr 50 m=CBPDATA3; tr 51 m=CBPDATA3
```

```
echo "   CBPHEADER";  tr 50 m=CBPHEADER; tr 51 m=CBPHEADER
echo "   CCP";   tr 50 m=CCP; tr 51 m=CCP
echo "   CFAP";   tr 50 m=CFAP; tr 51 m=CFAP
echo "   XQ 0-2"
for xq=0,2 'tr 50 m=XQ$xq; tr 51 m=XQ$xq'
$done

echo Running Table DMA Tests
# Specify a zero count for each test to indicate entire memory.
# Otherwise the count from the previous invocation is used.
echo "   DEF_IP";  tr 71 m=DEF_IP c=0
echo "   DEF_IP_HIT";  tr 71 m=DEF_IP_HIT c=0
echo "   IP_REP_HI";  tr 71 m=IP_REP_HI c=0
echo "   IP_REP_LO";  tr 71 m=IP_REP_LO c=0
echo "   EGRESS_MASK";  tr 71 m=EGRESS_MASK c=0
echo "   XFFPCOUNTERS";  tr 71 m=XFFPCOUNTERS c=0
echo "   XFFPIPPACKETCOUNTERS"; tr 71 m=XFFPOPPACKETCOUNTERS c=0
echo "   XFFPIPPACKETCOUNTERS"; tr 71 m=XFFPOPPACKETCOUNTERS c=0
echo "   XFFPIPBYTECOUNTERS"; tr 71 m=XFFPOPBYTECOUNTERS c=0
echo "   XFFPIPBYTECOUNTERS"; tr 71 m=XFFPOPBYTECOUNTERS c=0
echo "   XMETERING";  tr 71 m=XMETERINGT0 c=0
   tr 71 m=XMETERINGT1 c=0
   tr 71 m=XMETERINGT2 c=0
   tr 71 m=XMETERINGT3 c=0
echo "   L2_TABLE";  tr 71 m=L2_TABLE c=0
echo "   L2_HIT_BITS";  tr 71 m=L2_HIT_BITS c=0
echo "   L2MC_TABLE";  tr 71 m=L2MC_TABLE c=0
echo "   L2_STATIC_BITS"; tr 71 m=L2_STATIC_BITS c=0
echo "   L2_VALID_BITS"; tr 71 m=L2_VALID_BITS c=0
echo "   L3_TABLE";  tr 71 m=L3_TABLE c=0
echo "   L3_HIT_BITS";  tr 71 m=L3_HIT_BITS c=0
echo "   L3_VALID_BITS"; tr 71 m=L3_VALID_BITS c=0
echo "   L3INTF";  tr 71 m=L3INTF c=0
echo "   L3_IPMC";  tr 71 m=L3_IPMC c=0
echo "   PORT_MAC_BLOCK"; tr 71 m=PORT_MAC_BLOCK c=0
echo "   PORT";   tr 71 m=PORT c=0
echo "   PRTABLE";  tr 71 m=PRTABLE c=0
echo "   VLAN_STG";  tr 71 m=VLAN_STG c=0
echo "   DMUXTRUNKDIST"; tr 71 m=DMUXTRUNKDIST c=0
echo "   TRUNK_BITMAP";  tr 71 m=TRUNK_BITMAP c=0
echo "   PORT_TRUNK_EGRESS"; tr 71 m=PORT_TRUNK_EGRESS c=0
echo "   TRUNK_GROUP";  tr 71 m=TRUNK_GROUP c=0
echo "   VLAN";   tr 71 m=VLAN c=0
$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off
```

```
echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
$done

echo Running L2 insert/delete/lookup test ...
tr 32
$done

echo Running L2 overflow insert test ...
tr 33
$done

echo Running L2 hash test ...
tr 34
$done

echo Running L2 delete by port test ...
tr 35
$done

echo Running L2 delete by vlan test ...
tr 36
$done

echo Running L3 overflow insert test ...
tr 37
$done

echo Running L3 hash test ...
tr 38
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

echo Testing CPU DMA loopback ...
tr 17 c=5
$done

echo Testing CPU DMA, Scatter/Gather Reload ...
tr 22
$done
```

```
echo Testing CPU DMA, Scatter/Gather Simple ...
tr 23
$done

echo Testing CPU DMA, Scatter/Gather Random ...
tr 24
$done

#--------- MAC Loopback ---------

echo Testing MAC Loopback - 10000 Mb/s all XE/HG ports
tr 18 pbm=xe,hg speed=10G

$done

#--------- PHY Loopback ---------

echo Testing PHY Loopback - 10000 MB/s all XE/HG ports
tr 19 pbm=xe,hg speed=10G
$done

#--------- INT snake Loopback ---------

echo "Running internal snake on all ports, MAC loopback ..."
tr 39 pbm=xe,hg loopbackmode=mac snakepath=two c=4

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 pbm=xe,hg loopbackmode=phy snakepath=two c=4

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

echo "Testing Filters"
rcload rc.soc
tr 70

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload rc.soc
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
```

echo "testsuite: finished: sanity: $returnCode"

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lsanity.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: error.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Error translation
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/error.h
No license file was found, but licenses were detected in source scan.

/*
* Misc useful routines to access NIC local SROM/OTP .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmsrom.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: spl.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: spl.c
* Purpose: Interrupt Blocking
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/spl.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_scheduler.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_egr_queuing.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_egr_queuing.c
*
* MODULE PREFIX:  soc_jer2_tmcegr
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_egr_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       bsp_cards_consts.c
*
* SYSTEM:         Dune Semiconductors LTD Proprietary information
```

```
*
* CREATION DATE:  15-Feb-06
*
* LAST CHANGED:   15-Feb-06
*
* REVISION:       $Revision: 1.2 $
*
* FILE DESCRIPTION:
*
* REMARKS:
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/negev/mpc860/vxworks-5.5/bsp_cards_consts.c
No license file was found, but licenses were detected in source scan.

```
/*
* MIPS 74k definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: mips74k_core.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/mips74k_core.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif_cos.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_lif_cos.h
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
```

```
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_lif_cos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_int.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo_int.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/topo_int.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod_main.h#2 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  $Copyright: (c) 2012 Broadcom Corp.
*  All Rights Reserved.$
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------
*  Description: Main header file for TEMod.
*-----------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_main.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_koi_field_access.c                                  *
*  Created On    :  29/04/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
```

```
*  Description   :  APIs to access Serdes IP Registers and Reg fields              *
*  Revision      :  $Id: merlin_koi_field_access.c 1062 2015-06-02 22:12:41Z kirand $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1AEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1AEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_fec.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_fec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndRecord.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpVlanIndRecord.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_chip_consts.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_chip_consts.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_chip_consts.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_queue_tests.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_queue_tests.c
* Purpose: Examples of queue tests
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_queue_tests.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/l2.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_gsa_api.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_gsa_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ramon_fe1600_mbcm.c
* Purpose:     Init the bcm multiplexing function table for RAMON_FE1600
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    vlan.c
* Purpose: Manages VLAN virtual port creation and deletion.
*          Also manages addition and removal of virtual
*          ports from VLAN. The types of virtual ports that
*          can be added to or remove from VLAN can be VLAN
*          VPs or NIV VPs.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/vlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dpp_multicast_ingress.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_multicast_ingress.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_multicast_linked_list.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_w.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_w.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port_ability.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port modes.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/port_ability.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_qax_sram.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_sram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE2000 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/failover.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_header_parsing_utils.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_header_parsing_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cm.c,v 1.300 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cm.c
* Purpose:     Configuration Manager
*
* This module provides an OS-independent abstraction for the low-level
* manipulation of StrataSwitch devices and other system resources
* needed by the driver.
*
* See <soc/cmtypes.h> for a description and requirements of the vectors.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_pmf_low_level_db.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
```

```
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_pmf_low_level.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_pmf_low_level_db.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-1x100g-ilkn100.bcm,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100g ILKN to 100g ILKN setup
#

line_pr_buffer_profile=2
caladan3_etu_enable=0
load_firmware=1
lrp_bypass=0
bcm88030_ucode.0=g3p1
ucode_port.port1.0=clport0.ce.0.0:il1.il100.0.0
ucode_num_ports.0=1

xgxs_rx_lane_map_core0_ce0=0x1230
xgxs_rx_lane_map_core1_ce0=0x1032
xgxs_rx_lane_map_core2_ce0=0x1230

xgxs_tx_lane_map_core0_ce0=0x1032
xgxs_tx_lane_map_core1_ce0=0x3210
xgxs_tx_lane_map_core2_ce0=0x1032

phy_xaui_rx_polarity_flip_ce0=0x0bf9

phy_xaui_tx_polarity_flip_ce0=0x0cf3
```

```
#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

#CXP to WC lane map
mld_lane_swap_lane23_ce0=5
mld_lane_swap_lane22_ce0=4
mld_lane_swap_lane21_ce0=3
mld_lane_swap_lane20_ce0=2
mld_lane_swap_lane19_ce0=1
mld_lane_swap_lane18_ce0=0
mld_lane_swap_lane17_ce0=23
mld_lane_swap_lane16_ce0=22
mld_lane_swap_lane15_ce0=13
mld_lane_swap_lane14_ce0=12
mld_lane_swap_lane13_ce0=11
mld_lane_swap_lane12_ce0=10
mld_lane_swap_lane11_ce0=9
mld_lane_swap_lane10_ce0=8
mld_lane_swap_lane9_ce0=7
mld_lane_swap_lane8_ce0=6
mld_lane_swap_lane7_ce0=21
mld_lane_swap_lane6_ce0=20
mld_lane_swap_lane5_ce0=19
mld_lane_swap_lane4_ce0=18
mld_lane_swap_lane3_ce0=17
mld_lane_swap_lane2_ce0=16
mld_lane_swap_lane1_ce0=15
mld_lane_swap_lane0_ce0=14

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1


c3_ucode_path=/tftpboot/caladan3/sv/c3hppc/ucode
```

ddr3_tune_addrc_ci14=0x000000b0
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci14=0x96969696,0x96969696,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x0000079e
ddr3_tune_rd_dqs_ci14=0x99999494,0x99999b9b
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00979897,0x009d9e9c
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b2
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x000007df
ddr3_tune_rd_dqs_ci12=0x93939494,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl1_rp_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_en_ci12=0x009d9c9e,0x00999a99
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000b3
ddr3_tune_wr_dq_wl1_ci10=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci10=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x0000079e
ddr3_tune_rd_dqs_ci10=0x97979999,0x99999494
ddr3_tune_rd_dq_wl1_rn_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_en_ci10=0x00a5a4a6,0x00a1a3a0
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci8=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000075d
ddr3_tune_rd_dqs_ci8=0x99999a9a,0x9a9a9a9a
ddr3_tune_rd_dq_wl1_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci8=0x00999a99,0x009c9d9b

```
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b4
ddr3_tune_wr_dq_wl1_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci6=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x000007df
ddr3_tune_rd_dqs_ci6=0x9a9a9595,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci6=0x009b9c9b,0x00999a98
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b3
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x000007df
ddr3_tune_rd_dqs_ci4=0x97979898,0x99999898
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci4=0x009d9d9e,0x009a9b99
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x0000079e
ddr3_tune_rd_dqs_ci2=0x9a9a9595,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009fa09f,0x00a3a5a2
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x97979b9b,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rn_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rp_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0=0x00a3a3a3,0x009fa09e
```

ddr3_tune_rd_data_dly_ci0=0x00000404
ddr3_auto_tune=0

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1x100g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: show.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/show.c
No license file was found, but licenses were detected in source scan.

/*
 ****
 Copyright 2014-2017 Broadcom Corporation

 This program is the proprietary software of Broadcom Corporation and/or its licensors,
 and may only be used, duplicated, modified or distributed pursuant to the terms and
 conditions of a separate, written license agreement executed between you and
 Broadcom (an "Authorized License").Except as set forth in an Authorized License,
 Broadcom grants no license (express or implied),right to use, or waiver of any kind
 with respect to the Software, and Broadcom expressly reserves all rights in and to
 the Software and all intellectual property rights therein.
 IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
 WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

 Except as expressly set forth in the Authorized License,

 1. This program, including its structure, sequence and organization, constitutes the
    valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
    protect the confidentiality thereof,and to use this information only in connection
    with your use of Broadcom integrated circuit products.

 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
    ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
    EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM

SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/dma.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: decode.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This header file defines the interface to the packet decode routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/decode.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon16_pll_config.c                                  *
*  Created On    :  23/12/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Falcon16 PLL Configuration API                         *
*  Revision      :   *
*                                                                          *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                  *
*     Broadcom Corporation                                      *
*     5300 California Avenue                                    *
*     Irvine, CA  92617                                        *
*                                                   *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                   *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250.h,v 1.3 2011/07/21 16:14:48 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etu.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    etu.c
* Purpose: Caladan3 External TCAM driver
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/etu.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vxbde.c,v 1.156 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VxWorks BDE
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/vxworks/vxbde.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm53400_a0.c
* Purpose:     bcm53400_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm53400_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ARAD/include/arad_tcam.h
*
* MODULE PREFIX:  arad_tcam
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
```

```
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tcam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_fap_config5.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_e2e_composite_connectors.c
* Purpose: Example of Composite Connector Validation
*
* Environment
*    - Default Egress queue mapping in play.
*    - Default Egress Port Scheduler hierarchy in play.
*    - Default Ingress Scheduling Discipline (delay tolerance), queues sizes
*    - Packet Size 1500 -  size should be aligned with credit source settings
*
* - Port Scheduler
*   - CL Scheduler (SP mode)
*     - 4 FQ Schedulers
*       - 1 Queue Group / Connector Group (4 elements in bundle) - Composite
*         1st Connector element (1st flow, CIR) connected to FQ-0
*         1st Connector element (2nd flow, EIR) connected to FQ-2
*         2nd Connector element (1st flow, CIR) connected to FQ-1
*         2nd Connector element (2nd flow, EIR) connected to FQ-3
*
* - test run 1
*   - Input
*     - Queue - Cos 0
*       Input 500 Mbps
*     - Queue - Cos 1
*       Input 500 Mbps
*
*   - Expected Output
*     - Queue - Cos 0
*       Expected Output 300 Mbps (CIR connector)
*       Observed =>
*     - Queue - Cos 1
*       Expected Output 200 Mbps (CIR connector)
*       Observed =>
```

```
*
* - test run 2
*   - Input
*     - Queue - Cos 0
*       Input 500 Mbps
*     - Queue - Cos 1
*       Input 100 Mbps
*
*   - Expected Output
*     - Queue - Cos 0
*       Expected Output 300 Mbps (CIR connector)
*       Observed =>
*       Expected Output 100 Mbps (PIR connector)
*       Observed =>
*     - Queue - Cos 1
*       Expected Output 100 Mbps (CIR connector)
*       Observed =>
*
*  ~~~
```

```
* |           +----------+----------+----------+----------+              |
* |               \       /       \         /              |
* |               \      /         \        /               |
* |               SPR    SPR         SPR    SPR                |
* |            (300 Mbps)(200 Mbps)   (300 Mbps)(200 Mbps)                |
* |                \  /            \  /                  |
* |                \/\/            \/\/                  |
* |               |   |           |   |                 |
* |               |   |           |   |                 |
* |               |   |           |   |                 |
* |               |   |           |   |                 |
* |               |   |           |   |                 |
* |                +-----+            +-----+     +----------------+ |
* |               Input:500 Mbps       Input:100 Mbps  |     KEY      | |
* |                                       +----------------+ |
* |                                       |SPR- Rate Shaper| |
* |                                       |            | |
* |                                       +----------------+ |
* |           +~~~
```

```
/*
* $Id: progress.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Progress Report module: diag/progress.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/progress.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_l3.c,v 1.10 2013/02/03 10:59:10    Mark Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file provides L3 basic functionality and defines L3 global variables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_l3.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: srds_api_uc_common.h 1272 2015-11-24 17:00:22Z jgaither $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_common_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sysconf.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/sysconf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmarena.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmarena.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_ac.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_ac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPre.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*          additional components necessary for SDK.
*          Includes this file before configAll.h
*          in your BSP config.h
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/configSdkPre.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/configSdkPre.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/configSdkPre.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbhnddma.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic Broadcom Home Networking Division (HND) DMA engine HW interface
* This supports the following chips: BCM42xx, 44xx, 47xx .
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbhnddma.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lem_access.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lem_access.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: m85xxTimer.c,v 1.2 2011/07/21 16:14:13 yshtil Exp $
*****************************************************************************
  This source and object code has been made available to you by IBM on an
  AS-IS basis.

  IT IS PROVIDED WITHOUT WARRANTY OF ANY KIND, INCLUDING THE WARRANTIES OF
  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR OF NONINFRINGEMENT
  OF THIRD PARTY RIGHTS.  IN NO EVENT SHALL IBM OR ITS LICENSORS BE LIABLE
  FOR INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES.  IBMS OR ITS LICENSORS
  DAMAGES FOR ANY CAUSE OF ACTION, WHETHER IN CONTRACT OR IN TORT, AT LAW OR
  AT EQUITY, SHALL BE LIMITED TO A MAXIMUM OF $1,000 PER LICENSE.  No license
  under IBM patents or patent applications is to be implied by the copyright
  license.

  Any user of this software should understand that neither IBM nor its
```

licensors will be responsible for any consequences resulting from the use
of this software.

Any person who transfers this source code or any derivative work must
include the IBM copyright notice, this paragraph, and the preceding two
paragraphs in the transferred software.

Any person who transfers this object code or any derivative work must
include the IBM copyright notice in the transferred software.

COPYRIGHT I B M CORPORATION 2000
LICENSED MATERIAL - PROGRAM PROPERTY OF I B M"

****
\NOMANUAL
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/m85xxTimer.c
No license file was found, but licenses were detected in source scan.

/* $Id: utils_error_defs.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_error_defs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bcmi2c.c,v 1.5.270.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmi2c.c
* Purpose: BCM I2C API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/bcmi2c.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!

```
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       memacc.h
* Purpose:    Memory accessor declarations
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
*             bcm56685_a0
*             bcm56685_b0
*             bcm56334_a0
*             bcm56334_b0
*             bcm88230_a0
*             bcm88230_b0
*             bcm88230_c0
*             bcm56840_a0
*             bcm56840_b0
*             bcm88650_a0
*             bcm88650_b0
*             bcm88660_a0
*             bcm2801pm_a0
*             bcm88202_a0
*             bcm88675_a0
*             bcm83207_a0
*             bcm83208_a0
*             bcm88732_a0
*             bcm56440_a0
*             bcm56440_b0
```

```
*          bcm88030_a0
*          bcm88030_a1
*          bcm88030_b0
*          bcm56640_a0
*          bcm88750_a0
*          bcm88750_b0
*          bcm88754_a0
*          bcm88950_a0
*          bcm88790_a0
*          bcm56850_a0
*          bcm56450_a0
*          bcm56450_b0
*          bcm56450_b1
*          bcm56340_a0
*          bcm56150_a0
*          bcm53400_a0
*          bcm56960_a0
*          bcm56860_a0
*          bcm56560_a0
*          bcm56560_b0
*          bcm56260_a0
*          bcm56260_b0
*          bcm88375_a0
*          bcm88470_a0
*          bcm88470_b0
*          bcm88270_a0
*          bcm8206_a0
*          bcm88675_b0
*          bcm88375_b0
*          bcm88680_a0
*          bcm88690_a0
*          bcm56160_a0
*          bcm56270_a0
*          bcm56965_a0
*          bcm56970_a0
*          bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/memacc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_chip_regs.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_chip_regs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gen_pkt.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Extern declarations for test functions in gen_pkt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/gen_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* bcmallocache.h
* Header file for a working-set malloc cache
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmallocache.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmallocache.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch port control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_tdm_packet_mode_example.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File: cint_tdm_packet_mode_example.c
* Purpose: Example shows setup configuration of TDM packet mode example.
*
* These modes are for devices that are dedicated to support both Data packets and OTN/TDM traffic only.
* Packet mode is often used when expected TDM traffic consist of packet sizes that are higher than 256 (in ARAD) /
128 (in Petra-B)
*
* For each port to be supported as TDM packet mode, following soc properties should be set:
* config add tm_port_header_type_<port_id> = TDM_RAW
*
* On Standard application of TDM, each stream traffic is like a "pipe" where there is a static connection
* between source-port and destination-port. Both Source and destination ports should be of TDM type.
* In case header_type is set to TDM_RAW , packet is treated as without header i.e. user should set a static
forwarding from
* source port to destination port.
*
* Application Sequence:
*  1.  Set static forwarding on TDM ports
*  2.  For each VOQ (UCAST or MCAST) that TDM traffic is going through it, user should set the following
settings
*      o    Set Queue type to be PUSH_QUEUE
*      o    In ARAD (only), set Queue signature to be of TDM priority (3).
*
* The CINT gives the ability to set port static forwarding and VOQ settings.
*  o   Unicast settings:
*      o   Set static forwarding configuration
*      o   Set matching VOQ configuration
*
*  o   Multicast settings:
*      o   Set static forwarding configuration
*      o   Set matching FMQ configuration
*   o   Set multicast configuration
*
*  cint utility/cint_utils_multicast.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tdm_packet_mode_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_wrappers.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_wrappers.h
* Purpose:     CINT wrapper interfaces
```

*
* DO NOT EDIT THIS FILE!
* This file is auto-generated by wrappergen.pl.
* Edits to this file will be lost when it is regenerated.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_wrappers.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_rx_cos.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_cos.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: qe2000_counter.h,v
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qe2000_counter.h
* Purpose: SBX Software Counter Collection module definitions for QE2000.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_counter.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_field_range_multi_demo.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_range_multi_demo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.h
* Purpose:     Internal Field Processor data structure definitions for the
*              BCM library.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_tcb.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_tcb.c
* Purpose: This file implements techsupport utility for
*          tcb.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/tcb/techsupport_tcb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_fabric_mesh.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fabric_mesh.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28_init.h,v 1.1.2.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* This file contains DPP DRC Init structure and routine declarations for the Dram operation using PHY Combo28.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/DRC/drc_combo28_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: w229b.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Cypress W229B/W311 Clock generator (PLL) chip.
* The W229b is a highly integrated frequency timing generator,
* supplying a variety of common clock sources.
*
* The W311 is a more robust version of the W229b which allows for
* read capability and arbitrary SMB byte, word, or block operations.
*
* This driver supports both the W229b (for downward compatibility
* with older 5605 baseboards) as well as the W311 chip. In order to
* determine if we are running in W311 mode, we attempt to read the
* W311 device and vendor Id from register offset 8; if this succeeds,
* then we assume that we are communicating with a W311.
*
* The W229b clock frequency configuration is table driven, the W311
* uses M and N values to set the clock frequency. In addition, the
* W311 allows setting of the clock frequency and then later reading
* it back.
*
* On Broadcom BCM95605 baseboards, the W229b clock chip is used to
* supply the 5605/5606 baseboard with a core clock. On new Broadcom
* BCM5605 baseboards and 48port (p48) boards, the W311 chip is used
* instead.
*
* In W229b data sheet, the CPU clock is the switch core clock in
* Table 4. The same holds true for the W311.
*
* For W229b, in the ioctl interface to this driver, if the clock
* value supplied is in between the higher and lower value, we pick
* the lower value.
*
* See the Cypress W229B/W311 Clock chip data sheet(s) for more details.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/w229b.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_pe_fields.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_pe_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 WARM BOOT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_warm_boot.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ofp_rates.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ofp_rates.c
*
* MODULE PREFIX:  soc_jer2_tmcofp_rates
*
* FILE DESCRIPTION:
*   Rates and burst configuration of the Outgoing FAP Ports.
*   The configuration envolves End-to-end scheduler and Egress processor.
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
```

```
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :     *
*                                                                             *
*  Description :  Config functions targeted to IP user                        *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_config.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_config.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_egq.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_egq.c
* Purpose:     Egq diagnostics display.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_egq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmPortsetLinkEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmPortsetLinkEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Driver utility routines for ROBO
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/util.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file present an example of replacing the registers\memories access functions.
* It assumes using the portmod register DB bcm2801pb_a0
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/portmod/portmod_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
```

```
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_h.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_h.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: merlin_dino_dependencies.h 1139 2015-09-17 23:39:05Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_link.c,v 1.7.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx_link.c
* Purpose:    Hardware Linkscan module
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_slb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_slb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_api_slb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_api_slb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_slb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_slb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_slb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_pp_em_ser.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_slb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_em_ser.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_pp_em_ser.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyxehg.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyxehg.h
* Purpose:     Defines common PHY driver routines for Broadcom 10G PHY.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyxehg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_2xXAUI_1xhg127.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_2xXAUI_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54880.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54880.h
*
* This driver applies to both BCM54880 and BCM54880S.
* Both parts support driving Copper or SERDES interfaces.
*
* The BCM54880S also has a SERDES pass-through mode, making it possible
* to auto-select copper or fiber based on signal detects.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54880.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:dfe_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dfe/fe3200/fe3200_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_config_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_eg_qos.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: armcore.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* tr145 - ARM core test
* Test the ARM core(s) embedded in CMICM and IPROC switches
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/armcore.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_counter.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       caladan3_counter.c
* Purpose:     Software Counter Collection module for CALADAN (QE4K).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3_counter.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_info_access.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bsp_info_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0BEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0BEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/** \file template_mngr_sw_state.h
*
* Internal DNX template manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/template_mngr/template_mngr_sw_state.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lls.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Diag CLI Buffer command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/lls.c

No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Ranger Memory Sanity
#
# Note:
# Since this is a subset of the Ranger sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

local xtport0 1;
local xlport0 1;
local xwport0 1; local xwport1 1; local xwport2 1;

echo "Ranger Memory sanity testsuite: started"
ibodsync off
init soc
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';
```

```
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $xwport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'

local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'FT_AGE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EOP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'FT_L4PORT'; $name; $tr50; $tr51; $tr52;
local mem 'FT_POLICY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
```

```
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
#local mem 'LMEP'; $name; $tr50; $tr51; $tr52;
#local mem 'LMEP_DA'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
#local mem 'MAID_REDUCTION'; $name; $tr50; $tr51; $tr52;
local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'MA_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'RMEP'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_OFFSET_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
# Hx4 has no holes in FP/EFP/VFP TCAM. so these are tested.
#local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
```

```
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr50; $tr51; $tr52; - RO memory
local mem 'SER_MEMORY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xwport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
```

```
      $tr71_1 c=16; $tr71_2 c=16; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xwport1 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xwport2 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xlport0 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
      $tr71_1 c=16; $tr71_2 c=16;'

# Reverse SLAM problems: Place-holder
# Run the script on the memories and remove $tr71_3 for which ever memories
# have the Reverse SLAM issues

# Also, following is the complete list of memories in HX4 (copied from above.
# If a specific memory does not support SLAM DMA, then

local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_AGE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EOP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_L4PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_POLICY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

# IBOD_xxx memories are not supported in TDMA. Explicit check prevents it.
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L2_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
local mem 'L2_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L3_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
local mem 'L3_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'LLS_L0_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'LLS_L1_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_EMPTY_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_HEADS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;

#local mem 'LMEP'; $name; $tr71_1; $tr71_2; $tr71_3; <- pr=19665 - hw issue
#local mem 'LMEP_DA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MAID_REDUCTION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MA_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'AGING_CTR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AGING_EXP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA7'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'CBPDATA8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA48'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA51'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MMU_CFAP_BANK0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_COLOR_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_MC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_UC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'BASE_INDEX_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MERGE_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OFFSET_MAP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PFC_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ST_TRANS_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_RVD_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TBID_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TOV_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO10'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO52'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO56'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO58'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO59'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO60'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO61'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO52_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTHDR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PQE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CPQST_QLEN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CPQST_TSSLS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_QFBTB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_SITB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_CFIFO_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'RDE_CFIFO_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_DESCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_FREELIST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PRCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_HEAD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IPMC_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UCQ_WP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMULINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_QGROUP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_OFFSET_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr71_1; $tr71_2; $tr71_3; - RO memory
local mem 'SER_MEMORY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
# Since this is a subset of the ranger sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ranger_mem.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_fp.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_fp.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53125_a0.c
* Purpose: bcm53125_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53125_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_general.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_general.h
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc

echo "there are 3623 more memories to test.";echo "tr 51 M=AGM_MONITOR_TABLE IS=min IE=max ITERations=1";tr 51 M=AGM_MONITOR_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3622 more memories to test.";echo "tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1";tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3621 more memories to test.";echo "tr 51 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1";tr 51 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
#echo "there are 3620 more memories to test.";echo "tr 51 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max ITERations=1";tr 51 M=CENTRAL_CTR_EVICTION_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 3619 more memories to test.";echo "tr 51 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1";tr 51 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 3618 more memories to test.";echo "tr 51 M=PORT_COS_MAP IS=min IE=max ITERations=1";tr 51 M=PORT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3617 more memories to test.";echo "tr 51 M=COS_MAP_SEL IS=min IE=max ITERations=1";tr 51 M=COS_MAP_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 3616 more memories to test.";echo "tr 51 M=CPU_COS_MAP IS=min IE=max ITERations=1";tr 51 M=CPU_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3615 more memories to test.";echo "tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ITERations=1";tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3614 more memories to test.";echo "tr 51 M=CPU_COS_MAP_ONLY IS=min IE=max ITERations=1";tr 51 M=CPU_COS_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 3613 more memories to test.";echo "tr 51 M=CPU_PBM IS=min IE=max ITERations=1";tr 51 M=CPU_PBM IS=min IE=max ITERations=1;echo "done";
#echo "there are 3612 more memories to test.";echo "tr 51 M=CPU_PBM_2 IS=min IE=max ITERations=1";tr 51
```

```
M=CPU_PBM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3611 more memories to test.";echo "tr 51 M=CPU_TS_MAP IS=min IE=max ITERations=1";tr 51
M=CPU_TS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3610 more memories to test.";echo "tr 51 M=DEST_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 51 M=DEST_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3609 more memories to test.";echo "tr 51 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min
IE=max ITERations=1";tr 51 M=DEVICE_LOOPBACK_PORTS_BITMAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3608 more memories to test.";echo "tr 51 M=DLB_ECMP_EEM_CONFIGURATION IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_EEM_CONFIGURATION IS=min IE=max ITERations=1;echo
"done";
echo "there are 3607 more memories to test.";echo "tr 51 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 3606 more memories to test.";echo "tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3605 more memories to test.";echo "tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3604 more memories to test.";echo "tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3603 more memories to test.";echo "tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3602 more memories to test.";echo "tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3601 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=DLB_ECMP_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 3600 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max
ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3599 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3598 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3597 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3596 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 3595 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3594 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3593 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3592 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3591 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE IS=min IE=max ITERations=1;echo "done";
echo "there are 3590 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3589 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3588 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3587 more memories to test.";echo "tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3586 more memories to test.";echo "tr 51 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD IS=min IE=max ITERations=1;echo "done";
echo "there are 3585 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3584 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 3583 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_PORT_TO_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3582 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_STATS IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 3581 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_STATS_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3580 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_STATS_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3579 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_STATS_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3578 more memories to test.";echo "tr 51 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_GROUP_STATS_PIPE3 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 3577 more memories to test.";echo "tr 51 M=DLB_ECMP_LINK_CONTROL IS=min IE=max
ITERations=1";tr 51 M=DLB_ECMP_LINK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3576 more memories to test.";echo "tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3575 more memories to test.";echo "tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3574 more memories to test.";echo "tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3573 more memories to test.";echo "tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3572 more memories to test.";echo "tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3571 more memories to test.";echo "tr 51 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3570 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3569 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3568 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3567 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3566 more memories to test.";echo "tr 51 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE
IS=min IE=max ITERations=1";tr 51 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3565 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3564 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3563 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3562 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3561 more memories to test.";echo "tr 51 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_PORT_QUALITY_MAPPING IS=min IE=max ITERations=1;echo
"done";
echo "there are 3560 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3559 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max ITERations=1";tr
51 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3558 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max ITERations=1";tr
51 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3557 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max ITERations=1";tr
51 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3556 more memories to test.";echo "tr 51
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max ITERations=1";tr
51 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3555 more memories to test.";echo "tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3554 more memories to test.";echo "tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3553 more memories to test.";echo "tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3552 more memories to test.";echo "tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3551 more memories to test.";echo "tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3550 more memories to test.";echo "tr 51 M=DLB_ECMP_QUANTIZE_CONTROL IS=min
IE=max ITERations=1";tr 51 M=DLB_ECMP_QUANTIZE_CONTROL IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3549 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_EEM_CONFIGURATION IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3548 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3547 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3546 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3545 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3544 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3543 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3542 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 3541 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3540 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3539 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3538 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3537 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3536 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3535 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3534 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3533 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3532 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD
```

```
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD IS=min IE=max
ITERations=1;echo "done";
echo "there are 3531 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_CONTROL IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3530 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo
"done";
echo "there are 3529 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 3528 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3527 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3526 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3525 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3524 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_LINK_CONTROL IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_LINK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3523 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3522 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3521 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3520 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3519 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3518 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3517 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3516 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3515 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3514 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3513 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3512 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3511 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3510 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3509 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3508 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING IS=min IE=max
ITERations=1;echo "done";
echo "there are 3507 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3506 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 IS=min
IE=max ITERations=1;echo "done";
echo "there are 3505 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 IS=min
IE=max ITERations=1;echo "done";
echo "there are 3504 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 IS=min
IE=max ITERations=1;echo "done";
echo "there are 3503 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 IS=min
IE=max ITERations=1;echo "done";
echo "there are 3502 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE IS=min IE=max ITERations=1;echo "done";
echo "there are 3501 more memories to test.";echo "tr 51
```

```
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3500 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3499 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3498 more memories to test.";echo "tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3497 more memories to test.";echo "tr 51 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_LAG_QUANTIZE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 3496 more memories to test.";echo "tr 51 M=DSCP_TABLE IS=min IE=max ITERations=1";tr 51
M=DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3495 more memories to test.";echo "tr 51 M=DST_COMPRESSION IS=min IE=max
ITERations=1";tr 51 M=DST_COMPRESSION IS=min IE=max ITERations=1;echo "done";
echo "there are 3494 more memories to test.";echo "tr 51 M=DST_COMPRESSION_DATA_ONLY IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 3493 more memories to test.";echo "tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3492 more memories to test.";echo "tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3491 more memories to test.";echo "tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3490 more memories to test.";echo "tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3489 more memories to test.";echo "tr 51 M=DST_COMPRESSION_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=DST_COMPRESSION_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3488 more memories to test.";echo "tr 51 M=DST_COMPRESSION_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=DST_COMPRESSION_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3487 more memories to test.";echo "tr 51 M=DST_COMPRESSION_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=DST_COMPRESSION_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3486 more memories to test.";echo "tr 51 M=DST_COMPRESSION_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=DST_COMPRESSION_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3485 more memories to test.";echo "tr 51 M=DST_COMPRESSION_TCAM_ONLY IS=min
IE=max ITERations=1";tr 51 M=DST_COMPRESSION_TCAM_ONLY IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3484 more memories to test.";echo "tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE0
IS=min IE=max ITERations=1";tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3483 more memories to test.";echo "tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE1
IS=min IE=max ITERations=1";tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3482 more memories to test.";echo "tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE2
IS=min IE=max ITERations=1";tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3481 more memories to test.";echo "tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE3
IS=min IE=max ITERations=1";tr 51 M=DST_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3480 more memories to test.";echo "tr 51 M=ECMP_DLB_CONTROL IS=min IE=max
ITERations=1";tr 51 M=ECMP_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3479 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3478 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3477 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3476 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3475 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3474 more memories to test.";echo "tr 51 M=EFP_METER_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3473 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3472 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3471 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3470 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3469 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3468 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3467 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3466 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3465 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3464 more memories to test.";echo "tr 51 M=EFP_TCAM IS=min IE=max ITERations=1";tr 51
M=EFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 3463 more memories to test.";echo "tr 51 M=EFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
51 M=EFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3462 more memories to test.";echo "tr 51 M=EFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
51 M=EFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3461 more memories to test.";echo "tr 51 M=EFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
51 M=EFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3460 more memories to test.";echo "tr 51 M=EFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
51 M=EFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3459 more memories to test.";echo "tr 51 M=EGR_1588_SA IS=min IE=max ITERations=1";tr 51
M=EGR_1588_SA IS=min IE=max ITERations=1;echo "done";
echo "there are 3458 more memories to test.";echo "tr 51 M=EGR_DSCP_TABLE IS=min IE=max
ITERations=1";tr 51 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3457 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=max
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 3456 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3455 more memories to test.";echo "tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 3454 more memories to test.";echo "tr 51 M=EGR_ENABLE IS=min IE=max ITERations=1";tr 51
M=EGR_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3453 more memories to test.";echo "tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3452 more memories to test.";echo "tr 51 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 51 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3451 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COS_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3450 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3449 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3448 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3447 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3446 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3445 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3444 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3443 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max
```

ITERations=1;echo "done";
echo "there are 3442 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3441 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3440 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3439 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3438 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3437 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3436 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3435 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3434 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3433 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3432 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3431 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3430 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3429 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3428 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3427 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo

"done";
echo "there are 3426 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3425 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3424 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3423 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3422 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3421 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3420 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min IE=max ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3419 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min IE=max ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3418 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min IE=max ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3417 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min IE=max ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3416 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=max ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=max ITERations=1;echo "done";
echo "there are 3415 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 3414 more memories to test.";echo "tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max ITERations=1";tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 3413 more memories to test.";echo "tr 51 M=EGR_ING_PORT IS=min IE=max ITERations=1";tr 51 M=EGR_ING_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 3412 more memories to test.";echo "tr 51 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min IE=max ITERations=1";tr 51 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3411 more memories to test.";echo "tr 51 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max ITERations=1";tr 51 M=EGR_INT_CN_TO_IP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3410 more memories to test.";echo "tr 51 M=EGR_INT_CN_UPDATE IS=min IE=max ITERations=1";tr 51 M=EGR_INT_CN_UPDATE IS=min IE=max ITERations=1;echo "done";
echo "there are 3409 more memories to test.";echo "tr 51 M=EGR_IPMC IS=min IE=max ITERations=1";tr 51 M=EGR_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 3408 more memories to test.";echo "tr 51 M=EGR_IP_CUT_THRU_CLASS IS=min IE=max ITERations=1";tr 51 M=EGR_IP_CUT_THRU_CLASS IS=min IE=max ITERations=1;echo "done";
echo "there are 3407 more memories to test.";echo "tr 51 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min IE=max ITERations=1";tr 51 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE IS=min IE=max ITERations=1;echo "done";

```
echo "there are 3406 more memories to test.";echo "tr 51 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_IP_TO_INT_CN_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3405 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1";tr
51 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 3404 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max
ITERations=1";tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ITERations=1;echo "done";
echo "there are 3403 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=max
ITERations=1";tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 3402 more memories to test.";echo "tr 51 M=EGR_L3_INTF IS=min IE=max ITERations=1";tr 51
M=EGR_L3_INTF IS=min IE=max ITERations=1;echo "done";
echo "there are 3401 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 3400 more memories to test.";echo "tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3399 more memories to test.";echo "tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3398 more memories to test.";echo "tr 51 M=EGR_MAP_MH IS=min IE=max ITERations=1";tr 51
M=EGR_MAP_MH IS=min IE=max ITERations=1;echo "done";
echo "there are 3397 more memories to test.";echo "tr 51 M=EGR_MASK IS=min IE=max ITERations=1";tr 51
M=EGR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 3396 more memories to test.";echo "tr 51 M=EGR_MASK_MODBASE IS=min IE=max
ITERations=1";tr 51 M=EGR_MASK_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 3395 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3394 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3393 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3392 more memories to test.";echo "tr 51 M=EGR_MMU_CELL_CREDIT IS=min IE=max
ITERations=1";tr 51 M=EGR_MMU_CELL_CREDIT IS=min IE=max ITERations=1;echo "done";
echo "there are 3391 more memories to test.";echo "tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3390 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3389 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3388 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3387 more memories to test.";echo "tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 3386 more memories to test.";echo "tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ITERations=1";tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3385 more memories to test.";echo "tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
ITERations=1";tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max ITERations=1;echo "done";
echo "there are 3384 more memories to test.";echo "tr 51 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS
IS=min IE=max ITERations=1";tr 51 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 3383 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max
ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 3382 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3381 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3380 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3379 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3378 more memories to test.";echo "tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ITERations=1";tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max ITERations=1;echo
"done";
echo "there are 3377 more memories to test.";echo "tr 51 M=EGR_PORT IS=min IE=max ITERations=1";tr 51
M=EGR_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 3376 more memories to test.";echo "tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=max
ITERations=1";tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=max ITERations=1;echo "done";
echo "there are 3375 more memories to test.";echo "tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3374 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 3373 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3372 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3371 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3370 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3369 more memories to test.";echo "tr 51 M=EGR_SER_FIFO IS=min IE=max ITERations=1";tr
51 M=EGR_SER_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 3368 more memories to test.";echo "tr 51 M=EGR_SER_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EGR_SER_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3367 more memories to test.";echo "tr 51 M=EGR_SER_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EGR_SER_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3366 more memories to test.";echo "tr 51 M=EGR_SER_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EGR_SER_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3365 more memories to test.";echo "tr 51 M=EGR_SER_FIFO_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EGR_SER_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3364 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 3363 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min
IE=max ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3362 more memories to test.";echo "tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
```

```
IE=max ITERations=1";tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max ITERations=1;echo
"done";
echo "there are 3361 more memories to test.";echo "tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3360 more memories to test.";echo "tr 51 M=EGR_TS_ING_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_TS_ING_PORT_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3359 more memories to test.";echo "tr 51 M=EGR_TS_UTC_CONVERSION IS=min IE=max
ITERations=1";tr 51 M=EGR_TS_UTC_CONVERSION IS=min IE=max ITERations=1;echo "done";
echo "there are 3358 more memories to test.";echo "tr 51 M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max
ITERations=1";tr 51 M=EGR_TUNNEL_ECN_ENCAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3357 more memories to test.";echo "tr 51 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_TUNNEL_ECN_ENCAP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3356 more memories to test.";echo "tr 51 M=EGR_VFI IS=min IE=max ITERations=1";tr 51
M=EGR_VFI IS=min IE=max ITERations=1;echo "done";
echo "there are 3355 more memories to test.";echo "tr 51 M=EGR_VLAN IS=min IE=max ITERations=1";tr 51
M=EGR_VLAN IS=min IE=max ITERations=1;echo "done";
echo "there are 3354 more memories to test.";echo "tr 51 M=EGR_VLAN_STG IS=min IE=max ITERations=1";tr
51 M=EGR_VLAN_STG IS=min IE=max ITERations=1;echo "done";
echo "there are 3353 more memories to test.";echo "tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3352 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 3351 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 3350 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 3349 more memories to test.";echo "tr 51 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_VNTAG_ETAG_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3348 more memories to test.";echo "tr 51 M=EGR_VPLAG_GROUP IS=min IE=max
ITERations=1";tr 51 M=EGR_VPLAG_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 3347 more memories to test.";echo "tr 51 M=EGR_VPLAG_MEMBER IS=min IE=max
ITERations=1";tr 51 M=EGR_VPLAG_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3346 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 3345 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max ITERations=1;echo
"done";
echo "there are 3344 more memories to test.";echo "tr 51 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max
ITERations=1";tr 51 M=EGR_VXLT_ACTION_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 3343 more memories to test.";echo "tr 51 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max
ITERations=1";tr 51 M=EGR_VXLT_ACTION_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 3342 more memories to test.";echo "tr 51 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max
ITERations=1";tr 51 M=EGR_VXLT_REMAP_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 3341 more memories to test.";echo "tr 51 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max
ITERations=1";tr 51 M=EGR_VXLT_REMAP_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 3340 more memories to test.";echo "tr 51 M=EGR_XMIT_START_COUNT IS=min IE=max
ITERations=1";tr 51 M=EGR_XMIT_START_COUNT IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3339 more memories to test.";echo "tr 51 M=EGR_XMIT_START_COUNT_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=EGR_XMIT_START_COUNT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3338 more memories to test.";echo "tr 51 M=EGR_XMIT_START_COUNT_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=EGR_XMIT_START_COUNT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3337 more memories to test.";echo "tr 51 M=EGR_XMIT_START_COUNT_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=EGR_XMIT_START_COUNT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3336 more memories to test.";echo "tr 51 M=EGR_XMIT_START_COUNT_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=EGR_XMIT_START_COUNT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3335 more memories to test.";echo "tr 51 M=EH_MASK_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EH_MASK_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3334 more memories to test.";echo "tr 51 M=EH_MASK_PROFILE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=EH_MASK_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3333 more memories to test.";echo "tr 51 M=EH_MASK_PROFILE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=EH_MASK_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3332 more memories to test.";echo "tr 51 M=EH_MASK_PROFILE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=EH_MASK_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3331 more memories to test.";echo "tr 51 M=EH_MASK_PROFILE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=EH_MASK_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3330 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3329 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL1 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3328 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL2 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3327 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL3 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3326 more memories to test.";echo "tr 51 M=EM_MTP_INDEX IS=min IE=max ITERations=1";tr
51 M=EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
#echo "there are 3325 more memories to test.";echo "tr 51 M=EPC_LINK_BMAP IS=min IE=max
ITERations=1";tr 51 M=EPC_LINK_BMAP IS=min IE=max ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3324 more memories to test.";echo "tr 51 M=EXACT_MATCH_2 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3323 more memories to test.";echo "tr 51
M=EXACT_MATCH_2_ENTRY_ONLY IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_2_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3322 more memories to test.";echo "tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3321 more memories to test.";echo "tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3320 more memories to test.";echo "tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";'
```

```
if $?fpem_mem_entries 'echo "there are 3319 more memories to test.";echo "tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3318 more memories to test.";echo "tr 51 M=EXACT_MATCH_2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_2_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3317 more memories to test.";echo "tr 51 M=EXACT_MATCH_2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_2_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3316 more memories to test.";echo "tr 51 M=EXACT_MATCH_2_PIPE2
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_2_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3315 more memories to test.";echo "tr 51 M=EXACT_MATCH_2_PIPE3
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_2_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3314 more memories to test.";echo "tr 51 M=EXACT_MATCH_4 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_4 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3313 more memories to test.";echo "tr 51
M=EXACT_MATCH_4_ENTRY_ONLY IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_4_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3312 more memories to test.";echo "tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3311 more memories to test.";echo "tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3310 more memories to test.";echo "tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3309 more memories to test.";echo "tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3308 more memories to test.";echo "tr 51 M=EXACT_MATCH_4_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_4_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3307 more memories to test.";echo "tr 51 M=EXACT_MATCH_4_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_4_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3306 more memories to test.";echo "tr 51 M=EXACT_MATCH_4_PIPE2
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_4_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3305 more memories to test.";echo "tr 51 M=EXACT_MATCH_4_PIPE3
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_4_PIPE3 IS=min IE=max ITERations=1;echo "done";'
echo "there are 3304 more memories to test.";echo "tr 51 M=EXACT_MATCH_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 3303 more memories to test.";echo "tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3302 more memories to test.";echo "tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3301 more memories to test.";echo "tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE2
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 3300 more memories to test.";echo "tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE3
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_ACTION_PROFILE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3299 more memories to test.";echo "tr 51 M=EXACT_MATCH_DEFAULT_POLICY IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_DEFAULT_POLICY IS=min IE=max ITERations=1;echo
"done";
echo "there are 3298 more memories to test.";echo "tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3297 more memories to test.";echo "tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3296 more memories to test.";echo "tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3295 more memories to test.";echo "tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3294 more memories to test.";echo "tr 51
M=EXACT_MATCH_HIT_ONLY IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_HIT_ONLY
IS=min IE=max ITERations=1;echo "done";'
echo "there are 3293 more memories to test.";echo "tr 51 M=EXACT_MATCH_KEY_GEN_MASK IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_KEY_GEN_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 3292 more memories to test.";echo "tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3291 more memories to test.";echo "tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3290 more memories to test.";echo "tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3289 more memories to test.";echo "tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 3288 more memories to test.";echo "tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 3287 more memories to test.";echo "tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3286 more memories to test.";echo "tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3285 more memories to test.";echo "tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 3284 more memories to test.";echo "tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3283 more memories to test.";echo "tr 51 M=EXACT_MATCH_LOGICAL_TABLE_SELECT
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_LOGICAL_TABLE_SELECT IS=min IE=max
ITERations=1;echo "done";
echo "there are 3282 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3281 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3280 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3279 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3278 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3277 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3276 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3275 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3274 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3273 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 3272 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3271 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3270 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3269 more memories to test.";echo "tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3268 more memories to test.";echo "tr 51 M=EXACT_MATCH_QOS_ACTIONS_PROFILE
IS=min IE=max ITERations=1";tr 51 M=EXACT_MATCH_QOS_ACTIONS_PROFILE IS=min IE=max
ITERations=1;echo "done";
echo "there are 3267 more memories to test.";echo "tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3266 more memories to test.";echo "tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3265 more memories to test.";echo "tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3264 more memories to test.";echo "tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max ITERations=1";tr 51
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3263 more memories to test.";echo "tr 51 M=FAST_TRUNK_GROUP IS=min IE=max
ITERations=1";tr 51 M=FAST_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
if $?fpem_mem_entries 'echo "there are 3262 more memories to test.";echo "tr 51 M=FPEM_ECC IS=min IE=max
ITERations=1";tr 51 M=FPEM_ECC IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3261 more memories to test.";echo "tr 51 M=FPEM_ECC_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=FPEM_ECC_PIPE0 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3260 more memories to test.";echo "tr 51 M=FPEM_ECC_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=FPEM_ECC_PIPE1 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3259 more memories to test.";echo "tr 51 M=FPEM_ECC_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=FPEM_ECC_PIPE2 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3258 more memories to test.";echo "tr 51 M=FPEM_ECC_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=FPEM_ECC_PIPE3 IS=min IE=max ITERations=1;echo "done";'
if $?fpem_mem_entries 'echo "there are 3257 more memories to test.";echo "tr 51 M=FPEM_LP IS=min IE=max
ITERations=1";tr 51 M=FPEM_LP IS=min IE=max ITERations=1;echo "done";'
echo "there are 3256 more memories to test.";echo "tr 51 M=GTP_PORT_TABLE IS=min IE=max
ITERations=1";tr 51 M=GTP_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3255 more memories to test.";echo "tr 51 M=HGT_DLB_CONTROL IS=min IE=max
ITERations=1";tr 51 M=HGT_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3254 more memories to test.";echo "tr 51 M=HG_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 3253 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min
IE=max ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 3252 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 3251 more memories to test.";echo "tr 51 M=HG_TRUNK_GROUP IS=min IE=max
```

```
ITERations=1";tr 51 M=HG_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 3250 more memories to test.";echo "tr 51 M=HG_TRUNK_RR_CNT IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_RR_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 3249 more memories to test.";echo "tr 51 M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_RR_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3248 more memories to test.";echo "tr 51 M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_RR_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3247 more memories to test.";echo "tr 51 M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_RR_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3246 more memories to test.";echo "tr 51 M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_RR_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3245 more memories to test.";echo "tr 51 M=HG_TRUNK_MEMBER IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 3244 more memories to test.";echo "tr 51 M=HG_TRUNK_MODE IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_MODE IS=min IE=max ITERations=1;echo "done";
#echo "there are 3243 more memories to test.";echo "tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=max
ITERations=1";tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 3242 more memories to test.";echo "tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=max
ITERations=1";tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 3241 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3240 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3239 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3238 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3237 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3236 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3235 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3234 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3233 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3232 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3231 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3230 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3229 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3228 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3227 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3226 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3225 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3224 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3223 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3222 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3221 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3220 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3219 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3218 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3217 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3216 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3215 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3214 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 3213 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3212 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3211 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3210 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3209 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3208 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3207 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3206 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3205 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3204 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3203 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3202 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3201 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3200 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3199 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3198 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3197 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 3196 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3195 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3194 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3193 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3192 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3191 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3190 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3189 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3188 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3187 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3186 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3185 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3184 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3183 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3182 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3181 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3180 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3179 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3178 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3177 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3176 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3175 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3174 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3173 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3172 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3171 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3170 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3169 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3168 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3167 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3166 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3165 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3164 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3163 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3162 more memories to test.";echo "tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3161 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3160 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3159 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3158 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3157 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3156 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3155 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3154 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3153 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3152 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3151 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3150 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3149 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3148 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3147 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3146 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3145 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3144 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3143 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3142 more memories to test.";echo "tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3141 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3140 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3139 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3138 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3137 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3136 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3135 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3134 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3133 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3132 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3131 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3130 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3129 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3128 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min

```
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3127 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3126 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3125 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3124 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3123 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3122 more memories to test.";echo "tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3121 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3120 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3119 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3118 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3117 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3116 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3115 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3114 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3113 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3112 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3111 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3110 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3109 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3108 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3107 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3106 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3105 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3104 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3103 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3102 more memories to test.";echo "tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3101 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3100 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3099 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3098 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3097 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3096 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3095 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3094 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

"done";
#echo "there are 3093 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3092 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3091 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3090 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3089 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3088 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3087 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3086 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3085 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3084 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3083 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3082 more memories to test.";echo "tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3081 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3080 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3079 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3078 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3077 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 3076 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3075 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3074 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3073 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3072 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3071 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3070 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3069 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3068 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3067 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3066 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3065 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3064 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3063 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3062 more memories to test.";echo "tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3061 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3060 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3059 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3058 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3057 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3056 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 3055 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3054 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3053 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3052 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3051 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 3050 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3049 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3048 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3047 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3046 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 3045 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3044 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3043 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 3042 more memories to test.";echo "tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3041 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3040 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3039 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3038 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3037 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3036 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3035 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3034 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3033 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3032 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3031 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3030 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3029 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3028 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3027 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3026 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3025 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3024 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3023 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3022 more memories to test.";echo "tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3021 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3020 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3019 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3018 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3017 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3016 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3015 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3014 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3013 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3012 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3011 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3010 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3009 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3008 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min

```
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3007 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3006 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 3005 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3004 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3003 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 3002 more memories to test.";echo "tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 3001 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 3000 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2999 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2998 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2997 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2996 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2995 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2994 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2993 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2992 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2991 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2990 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2989 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2988 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2987 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2986 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2985 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2984 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2983 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2982 more memories to test.";echo "tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2981 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2980 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2979 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2978 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2977 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2976 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2975 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2974 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

"done";
#echo "there are 2973 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2972 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2971 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2970 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2969 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2968 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2967 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2966 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2965 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2964 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2963 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2962 more memories to test.";echo "tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2961 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2960 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2959 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2958 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2957 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 2956 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2955 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2954 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2953 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2952 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2951 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2950 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2949 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2948 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2947 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2946 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2945 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2944 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2943 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2942 more memories to test.";echo "tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2941 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2940 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2939 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2938 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2937 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2936 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2935 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2934 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2933 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2932 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2931 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2930 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2929 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2928 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2927 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2926 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2925 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2924 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2923 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2922 more memories to test.";echo "tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2921 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2920 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2919 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2918 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2917 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2916 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2915 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2914 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2913 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2912 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2911 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2910 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2909 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2908 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2907 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2906 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2905 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2904 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2903 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2902 more memories to test.";echo "tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2901 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2900 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2899 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2898 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2897 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2896 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2895 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2894 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2893 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2892 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2891 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2890 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2889 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2888 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min

```
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2887 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2886 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2885 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2884 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2883 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2882 more memories to test.";echo "tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2881 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2880 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2879 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2878 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2877 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2876 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2875 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2874 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2873 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2872 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2871 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2870 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2869 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2868 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2867 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2866 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2865 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2864 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2863 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2862 more memories to test.";echo "tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2861 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2860 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2859 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2858 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2857 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2856 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2855 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2854 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 2853 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2852 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2851 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2850 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2849 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2848 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2847 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2846 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2845 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2844 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2843 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2842 more memories to test.";echo "tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2841 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2840 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2839 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2838 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2837 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 2836 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2835 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2834 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2833 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2832 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2831 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2830 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2829 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2828 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2827 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2826 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2825 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2824 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2823 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2822 more memories to test.";echo "tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2821 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2820 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2819 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2818 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2817 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2816 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2815 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2814 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2813 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2812 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2811 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2810 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2809 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2808 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2807 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2806 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2805 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2804 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2803 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2802 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2801 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2800 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2799 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2798 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2797 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2796 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2795 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2794 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2793 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2792 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2791 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2790 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2789 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2788 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2787 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2786 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2785 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2784 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2783 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2782 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2781 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2780 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2779 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2778 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2777 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2776 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2775 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2774 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2773 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2772 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2771 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2770 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2769 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2768 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min

```
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2767 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2766 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2765 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2764 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2763 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2762 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2761 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2760 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2759 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2758 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2757 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2756 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2755 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2754 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2753 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2752 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2751 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2750 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2749 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2748 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2747 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2746 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2745 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2744 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2743 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2742 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2741 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2740 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2739 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2738 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2737 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2736 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2735 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2734 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

"done";
#echo "there are 2733 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2732 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2731 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2730 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2729 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2728 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2727 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2726 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2725 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2724 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2723 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2722 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2721 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2720 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2719 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2718 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2717 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 2716 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2715 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2714 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2713 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2712 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2711 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2710 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2709 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2708 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2707 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2706 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2705 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2704 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2703 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2702 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2701 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2700 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2699 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2698 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2697 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2696 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2695 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2694 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2693 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2692 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2691 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2690 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2689 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2688 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2687 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2686 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2685 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2684 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2683 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2682 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2681 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2680 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2679 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2678 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2677 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2676 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2675 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2674 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2673 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2672 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2671 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2670 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2669 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2668 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2667 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2666 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2665 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min
```

```
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2664 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2663 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2662 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2661 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2660 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2659 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2658 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2657 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2656 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2655 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2654 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2653 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2652 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2651 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2650 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2649 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2648 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2647 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2646 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2645 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2644 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2643 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2642 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2641 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2640 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2639 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2638 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2637 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2636 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2635 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2634 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2633 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2632 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2631 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max

```
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2630 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2629 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2628 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2627 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2626 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2625 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2624 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2623 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2622 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2621 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2620 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2619 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2618 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2617 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2616 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2615 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2614 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

"done";
#echo "there are 2613 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2612 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2611 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2610 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2609 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2608 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2607 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2606 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2605 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2604 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2603 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2602 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2601 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2600 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2599 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2598 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2597 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo

"done";
#echo "there are 2596 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2595 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2594 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2593 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2592 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2591 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2590 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2589 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2588 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2587 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2586 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2585 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2584 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2583 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2582 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2581 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2580 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";

```
echo "there are 2579 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2578 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2577 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2576 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2575 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2574 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2573 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2572 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2571 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2570 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2569 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2568 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2567 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2566 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2565 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2564 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2563 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2562 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2561 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2560 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2559 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2558 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2557 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2556 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2555 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2554 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2553 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2552 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2551 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2550 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2549 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2548 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2547 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2546 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2545 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2544 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2543 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2542 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2541 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2540 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2539 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2538 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2537 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2536 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2535 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2534 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2533 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2532 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2531 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2530 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2529 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2528 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min

```
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2527 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2526 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2525 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2524 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2523 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2522 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2521 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2520 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2519 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2518 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2517 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2516 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2515 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2514 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2513 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2512 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2511 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2510 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2509 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2508 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2507 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2506 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2505 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2504 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2503 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2502 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2501 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2500 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2499 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2498 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2497 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2496 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2495 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2494 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

"done";
#echo "there are 2493 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2492 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2491 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2490 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2489 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2488 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2487 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2486 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2485 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2484 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2483 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2482 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2481 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2480 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2479 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2478 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2477 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo

```
"done";
#echo "there are 2476 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2475 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2474 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2473 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2472 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2471 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2470 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2469 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2468 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2467 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2466 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2465 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2464 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2463 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2462 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2461 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2460 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2459 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2458 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2457 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2456 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2455 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2454 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2453 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2452 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2451 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2450 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2449 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2448 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2447 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2446 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2445 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2444 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2443 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2442 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2441 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2440 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2439 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2438 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2437 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2436 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2435 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2434 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2433 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2432 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2431 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2430 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2429 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2428 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2427 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2426 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2425 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min
```

IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2424 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2423 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2422 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2421 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2420 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2419 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2418 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2417 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2416 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2415 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2414 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2413 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2412 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2411 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2410 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2409 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2408 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min

IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2407 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2406 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2405 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2404 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2403 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2402 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2401 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2400 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2399 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2398 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2397 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2396 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2395 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2394 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2393 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2392 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2391 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max

```
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2390 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2389 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2388 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2387 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2386 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2385 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2384 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2383 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2382 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2381 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2380 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2379 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2378 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2377 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2376 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2375 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2374 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 2373 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2372 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2371 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2370 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2369 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2368 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2367 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2366 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2365 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2364 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2363 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2362 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2361 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2360 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2359 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2358 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2357 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
```

```
"done";
#echo "there are 2356 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2355 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2354 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2353 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2352 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2351 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2350 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2349 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2348 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2347 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2346 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2345 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2344 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2343 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2342 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2341 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2340 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2339 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2338 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2337 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2336 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2335 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2334 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2333 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2332 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2331 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2330 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2329 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2328 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2327 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2326 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2325 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2324 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2323 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2322 more memories to test.";echo "tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2321 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2320 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2319 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2318 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2317 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2316 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2315 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2314 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2313 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2312 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2311 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2310 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2309 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2308 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2307 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2306 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2305 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min
```

```
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2304 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2303 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2302 more memories to test.";echo "tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2301 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2300 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2299 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2298 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2297 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2296 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2295 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2294 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2293 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2292 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2291 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2290 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2289 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2288 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min
```

```
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2287 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2286 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2285 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2284 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2283 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 2282 more memories to test.";echo "tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2281 more memories to test.";echo "tr 51 M=IFP_COS_MAP IS=min IE=max ITERations=1";tr 51
M=IFP_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2280 more memories to test.";echo "tr 51 M=IFP_HG_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 51 M=IFP_HG_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2279 more memories to test.";echo "tr 51 M=IFP_I2E_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 51 M=IFP_I2E_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2278 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min
IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2277 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min
IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2276 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2275 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2274 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2273 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2272 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2271 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 2270 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2269 more memories to test.";echo "tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3
IS=min IE=max ITERations=1";tr 51 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2268 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY
IS=min IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2267 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2266 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2265 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2264 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2263 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max
ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 2262 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY
IS=min IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 2261 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2260 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2259 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2258 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2257 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2256 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2255 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2254 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2253 more memories to test.";echo "tr 51 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY
IS=min IE=max ITERations=1";tr 51 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 2252 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2251 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2250 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2249 more memories to test.";echo "tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1";tr 51
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2248 more memories to test.";echo "tr 51 M=IFP_METER_TABLE IS=min IE=max
ITERations=1";tr 51 M=IFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2247 more memories to test.";echo "tr 51 M=IFP_METER_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IFP_METER_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2246 more memories to test.";echo "tr 51 M=IFP_METER_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IFP_METER_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2245 more memories to test.";echo "tr 51 M=IFP_METER_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IFP_METER_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2244 more memories to test.";echo "tr 51 M=IFP_METER_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IFP_METER_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2243 more memories to test.";echo "tr 51 M=IFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=IFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2242 more memories to test.";echo "tr 51 M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2241 more memories to test.";echo "tr 51 M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2240 more memories to test.";echo "tr 51 M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2239 more memories to test.";echo "tr 51 M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2238 more memories to test.";echo "tr 51 M=IFP_PORT_METER_MAP IS=min IE=max
ITERations=1";tr 51 M=IFP_PORT_METER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2237 more memories to test.";echo "tr 51 M=IFP_RANGE_CHECK IS=min IE=max
ITERations=1";tr 51 M=IFP_RANGE_CHECK IS=min IE=max ITERations=1;echo "done";
echo "there are 2236 more memories to test.";echo "tr 51 M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IFP_RANGE_CHECK_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2235 more memories to test.";echo "tr 51 M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IFP_RANGE_CHECK_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2234 more memories to test.";echo "tr 51 M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IFP_RANGE_CHECK_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 2233 more memories to test.";echo "tr 51 M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IFP_RANGE_CHECK_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2232 more memories to test.";echo "tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=max
ITERations=1";tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2231 more memories to test.";echo "tr 51 M=IFP_STORM_CONTROL_METERS IS=min IE=max
ITERations=1";tr 51 M=IFP_STORM_CONTROL_METERS IS=min IE=max ITERations=1;echo "done";
echo "there are 2230 more memories to test.";echo "tr 51 M=IFP_TCAM IS=min IE=max ITERations=1";tr 51
M=IFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 2229 more memories to test.";echo "tr 51 M=IFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
51 M=IFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2228 more memories to test.";echo "tr 51 M=IFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
51 M=IFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2227 more memories to test.";echo "tr 51 M=IFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
51 M=IFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2226 more memories to test.";echo "tr 51 M=IFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
51 M=IFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2225 more memories to test.";echo "tr 51 M=IFP_TCAM_WIDE IS=min IE=max ITERations=1";tr
51 M=IFP_TCAM_WIDE IS=min IE=max ITERations=1;echo "done";
echo "there are 2224 more memories to test.";echo "tr 51 M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IFP_TCAM_WIDE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2223 more memories to test.";echo "tr 51 M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IFP_TCAM_WIDE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2222 more memories to test.";echo "tr 51 M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IFP_TCAM_WIDE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2221 more memories to test.";echo "tr 51 M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IFP_TCAM_WIDE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2220 more memories to test.";echo "tr 51 M=IMIRROR_BITMAP IS=min IE=max
ITERations=1";tr 51 M=IMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2219 more memories to test.";echo "tr 51 M=IM_MTP_INDEX IS=min IE=max ITERations=1";tr
51 M=IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 2218 more memories to test.";echo "tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=max
ITERations=1";tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 2217 more memories to test.";echo "tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max
ITERations=1";tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
#echo "there are 2216 more memories to test.";echo "tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=max
ITERations=1";tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2215 more memories to test.";echo "tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max
ITERations=1";tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 2214 more memories to test.";echo "tr 51 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max
ITERations=1";tr 51 M=ING_DNAT_ADDRESS_TYPE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 2213 more memories to test.";echo "tr 51 M=ING_DVP_2_TABLE IS=min IE=max
ITERations=1";tr 51 M=ING_DVP_2_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2212 more memories to test.";echo "tr 51 M=ING_DVP_TABLE IS=min IE=max ITERations=1";tr
51 M=ING_DVP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2211 more memories to test.";echo "tr 51 M=ING_EGRMSKBMAP IS=min IE=max
ITERations=1";tr 51 M=ING_EGRMSKBMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 2210 more memories to test.";echo "tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=max
ITERations=1";tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 2209 more memories to test.";echo "tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2208 more memories to test.";echo "tr 51 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_EXP_TO_IP_ECN_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2207 more memories to test.";echo "tr 51 M=ING_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 51 M=ING_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 2206 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2205 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2204 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2203 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2202 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2201 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2200 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2199 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2198 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2197 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2196 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2195 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2194 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2193 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2192 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2191 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2190 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2189 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2188 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2187 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2186 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2185 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2184 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2183 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2182 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2181 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2180 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2179 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2178 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2177 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2176 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2175 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2174 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2173 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2172 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2171 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2170 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2169 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2168 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2167 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2166 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2165 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2164 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2163 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2162 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2161 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2160 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2159 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2158 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2157 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2156 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2155 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2154 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2153 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2152 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2151 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2150 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2149 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2148 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2147 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2146 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2145 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2144 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2143 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2142 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2141 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2140 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2139 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2138 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2137 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2136 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2135 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2134 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2133 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2132 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2131 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2130 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2129 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2128 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2127 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2126 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2125 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2124 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2123 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2122 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2121 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2120 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2119 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2118 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2117 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2116 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2115 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2114 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2113 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 2112 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2111 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2110 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2109 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2108 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2107 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3
IS=min IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 2106 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2105 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2104 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_10 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2103 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_11 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2102 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_12 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2101 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_13 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2100 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_14 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2099 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_15 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2098 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_16 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2097 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_17 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 2096 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_18 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2095 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_19 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2094 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2093 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2092 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2091 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2090 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2089 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2088 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_8 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2087 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_9 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2086 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2085 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2084 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2083 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2082 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2081 more memories to test.";echo "tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE
IS=min IE=max ITERations=1";tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max
ITERations=1;echo "done";
#echo "there are 2080 more memories to test.";echo "tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=max ITERations=1";tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=max ITERations=1;echo
"done";
echo "there are 2079 more memories to test.";echo "tr 51 M=ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 2078 more memories to test.";echo "tr 51 M=ING_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=ING_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2077 more memories to test.";echo "tr 51 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min
IE=max ITERations=1";tr 51 M=ING_MPLS_ENTRY_ACTION_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 2076 more memories to test.";echo "tr 51 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min
IE=max ITERations=1";tr 51 M=ING_MPLS_ENTRY_ACTION_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 2075 more memories to test.";echo "tr 51 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min
IE=max ITERations=1";tr 51 M=ING_MPLS_ENTRY_REMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 2074 more memories to test.";echo "tr 51 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min
IE=max ITERations=1";tr 51 M=ING_MPLS_ENTRY_REMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 2073 more memories to test.";echo "tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2072 more memories to test.";echo "tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2071 more memories to test.";echo "tr 51 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_PHY_TO_IDB_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2070 more memories to test.";echo "tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2069 more memories to test.";echo "tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2068 more memories to test.";echo "tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2067 more memories to test.";echo "tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 2066 more memories to test.";echo "tr 51 M=ING_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2065 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 2064 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2063 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2062 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2061 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2060 more memories to test.";echo "tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 2059 more memories to test.";echo "tr 51 M=ING_SER_FIFO IS=min IE=max ITERations=1";tr
```

```
51 M=ING_SER_FIFO IS=min IE=max ITERations=1;echo "done";
#echo "there are 2058 more memories to test.";echo "tr 51 M=ING_SER_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=ING_SER_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2057 more memories to test.";echo "tr 51 M=ING_SER_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=ING_SER_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2056 more memories to test.";echo "tr 51 M=ING_SER_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=ING_SER_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2055 more memories to test.";echo "tr 51 M=ING_SER_FIFO_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=ING_SER_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2054 more memories to test.";echo "tr 51 M=ING_SNAT IS=min IE=max ITERations=1";tr 51
M=ING_SNAT IS=min IE=max ITERations=1;echo "done";
echo "there are 2053 more memories to test.";echo "tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2052 more memories to test.";echo "tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2051 more memories to test.";echo "tr 51 M=ING_SNAT_ONLY IS=min IE=max ITERations=1";tr
51 M=ING_SNAT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2050 more memories to test.";echo "tr 51 M=ING_TRILL_ADJACENCY IS=min IE=max
ITERations=1";tr 51 M=ING_TRILL_ADJACENCY IS=min IE=max ITERations=1;echo "done";
#echo "there are 2049 more memories to test.";echo "tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=max
ITERations=1";tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 2048 more memories to test.";echo "tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=max ITERations=1";tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=max
ITERations=1;echo "done";
echo "there are 2047 more memories to test.";echo "tr 51 M=ING_TUNNEL_ECN_DECAP IS=min IE=max
ITERations=1";tr 51 M=ING_TUNNEL_ECN_DECAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2046 more memories to test.";echo "tr 51 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max
ITERations=1";tr 51 M=ING_TUNNEL_ECN_DECAP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2045 more memories to test.";echo "tr 51 M=ING_UNTAGGED_PHB IS=min IE=max
ITERations=1";tr 51 M=ING_UNTAGGED_PHB IS=min IE=max ITERations=1;echo "done";
echo "there are 2044 more memories to test.";echo "tr 51 M=ING_VLAN_RANGE IS=min IE=max
ITERations=1";tr 51 M=ING_VLAN_RANGE IS=min IE=max ITERations=1;echo "done";
echo "there are 2043 more memories to test.";echo "tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2042 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 2041 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min
IE=max ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_ECC IS=min IE=max ITERations=1;echo
"done";
echo "there are 2040 more memories to test.";echo "tr 51 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max
ITERations=1";tr 51 M=ING_VXLT_ACTION_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 2039 more memories to test.";echo "tr 51 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max
ITERations=1";tr 51 M=ING_VXLT_ACTION_TABLE_B IS=min IE=max ITERations=1;echo "done";
echo "there are 2038 more memories to test.";echo "tr 51 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max
ITERations=1";tr 51 M=ING_VXLT_REMAP_TABLE_A IS=min IE=max ITERations=1;echo "done";
echo "there are 2037 more memories to test.";echo "tr 51 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max
ITERations=1";tr 51 M=ING_VXLT_REMAP_TABLE_B IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 2036 more memories to test.";echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 2035 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP IS=min IE=max
ITERations=1";tr 51 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 2034 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=max
ITERations=1";tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 2033 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=max
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 2032 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2031 more memories to test.";echo "tr 51 M=INSTRUMENTATION_TRIGGERS_ENABLE
IS=min IE=max ITERations=1";tr 51 M=INSTRUMENTATION_TRIGGERS_ENABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 2030 more memories to test.";echo "tr 51 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max
ITERations=1";tr 51 M=INT_CN_TO_MMUIF_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 2029 more memories to test.";echo "tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ITERations=1";tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2028 more memories to test.";echo "tr 51 M=IP_MULTICAST_TCAM IS=min IE=max
ITERations=1";tr 51 M=IP_MULTICAST_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 2027 more memories to test.";echo "tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 2026 more memories to test.";echo "tr 51 M=IP_PROTO_MAP IS=min IE=max ITERations=1";tr
51 M=IP_PROTO_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 2025 more memories to test.";echo "tr 51 M=IP_PROTO_MAP_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IP_PROTO_MAP_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 2024 more memories to test.";echo "tr 51 M=IP_PROTO_MAP_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IP_PROTO_MAP_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 2023 more memories to test.";echo "tr 51 M=IP_PROTO_MAP_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IP_PROTO_MAP_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 2022 more memories to test.";echo "tr 51 M=IP_PROTO_MAP_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IP_PROTO_MAP_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2021 more memories to test.";echo "tr 51 M=IP_TO_INT_CN_MAPPING IS=min IE=max
ITERations=1";tr 51 M=IP_TO_INT_CN_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 2020 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR0 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2019 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2018 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2017 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2016 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2015 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR1 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2014 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max
```

```
ITERations=1";tr 51 M=IS_TDM_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2013 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2012 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 2011 more memories to test.";echo "tr 51 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=IS_TDM_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 2010 more memories to test.";echo "tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 2009 more memories to test.";echo "tr 51 M=L2MC IS=min IE=max ITERations=1";tr 51 M=L2MC
IS=min IE=max ITERations=1;echo "done";
echo "there are 2008 more memories to test.";echo "tr 51 M=L2_BULK IS=min IE=max ITERations=1";tr 51
M=L2_BULK IS=min IE=max ITERations=1;echo "done";
echo "there are 2007 more memories to test.";echo "tr 51 M=L2X IS=min IE=max ITERations=1";tr 51 M=L2X
IS=min IE=max ITERations=1;echo "done";
#echo "there are 2006 more memories to test.";echo "tr 51 M=L2_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 51 M=L2_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 2005 more memories to test.";echo "tr 51 M=L2_ENTRY_LP IS=min IE=max ITERations=1";tr 51
M=L2_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 2004 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 2003 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY_TILE IS=min IE=max
ITERations=1";tr 51 M=L2_ENTRY_ONLY_TILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2002 more memories to test.";echo "tr 51 M=L2_ENTRY_TILE IS=min IE=max ITERations=1";tr
51 M=L2_ENTRY_TILE IS=min IE=max ITERations=1;echo "done";
echo "there are 2001 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY IS=min IE=max ITERations=1";tr
51 M=L2_HITDA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 2000 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY IS=min IE=max ITERations=1";tr
51 M=L2_HITSA_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 1999 more memories to test.";echo "tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=max
ITERations=1";tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1998 more memories to test.";echo "tr 51 M=L2_MGMT_SER_FIFO IS=min IE=max
ITERations=1";tr 51 M=L2_MGMT_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1997 more memories to test.";echo "tr 51 M=L2_MOD_FIFO IS=min IE=max ITERations=1";tr 51
M=L2_MOD_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1996 more memories to test.";echo "tr 51 M=L2_USER_ENTRY IS=min IE=max ITERations=1";tr
51 M=L2_USER_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 1995 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1994 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max
ITERations=1";tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1993 more memories to test.";echo "tr 51 M=L3_DEFIP IS=min IE=max ITERations=1";tr 51
M=L3_DEFIP IS=min IE=max ITERations=1;echo "done";
if $?l3_alpm_enable 'echo "there are 1992 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_ECC IS=min
IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_ECC IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1991 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_HIT_ONLY
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max ITERations=1;echo
"done";'
```

```
if $?l3_alpm_enable 'echo "there are 1990 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min
IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1989 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4_1
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1988 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_128
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max ITERations=1;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1987 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1986 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64_1
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max ITERations=1;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1985 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_RAW
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_ALPM_RAW IS=min IE=max ITERations=1;echo "done";'
echo "there are 1984 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1983 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=max ITERations=1;echo "done";
echo "there are 1982 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 1981 more memories to test.";echo "tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1980 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1979 more memories to test.";echo "tr 51 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1";tr
51 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1;echo "done";
if $?l3_alpm_enable 'echo "there are 1978 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128 IS=min
IE=max ITERations=1";tr 51 M=L3_DEFIP_PAIR_128 IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1977 more memories to test.";echo "tr 51
M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1";tr 51
M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1976 more memories to test.";echo "tr 51
M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1";tr 51
M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1;echo "done";'
if $?l3_alpm_enable 'echo "there are 1975 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_ONLY
IS=min IE=max ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max ITERations=1;echo
"done";'
echo "there are 1974 more memories to test.";echo "tr 51 M=L3_ECMP IS=min IE=max ITERations=1";tr 51
M=L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 1973 more memories to test.";echo "tr 51 M=L3_ECMP_COUNT IS=min IE=max ITERations=1";tr
51 M=L3_ECMP_COUNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1972 more memories to test.";echo "tr 51 M=L3_ECMP_RRLB_CNT IS=min IE=max
ITERations=1";tr 51 M=L3_ECMP_RRLB_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1971 more memories to test.";echo "tr 51 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=L3_ECMP_RRLB_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1970 more memories to test.";echo "tr 51 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=L3_ECMP_RRLB_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1969 more memories to test.";echo "tr 51 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=L3_ECMP_RRLB_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1968 more memories to test.";echo "tr 51 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=L3_ECMP_RRLB_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1967 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1966 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1965 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1964 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 1963 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITERations=1;echo "done";
#echo "there are 1962 more memories to test.";echo "tr 51 M=L3_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 1961 more memories to test.";echo "tr 51 M=L3_ENTRY_LP IS=min IE=max ITERations=1";tr 51
M=L3_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 1960 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1";tr
51 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1959 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 1958 more memories to test.";echo "tr 51 M=L3_IIF IS=min IE=max ITERations=1";tr 51
M=L3_IIF IS=min IE=max ITERations=1;echo "done";
echo "there are 1957 more memories to test.";echo "tr 51 M=L3_IIF_PROFILE IS=min IE=max ITERations=1";tr
51 M=L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 1956 more memories to test.";echo "tr 51 M=L3_IPMC IS=min IE=max ITERations=1";tr 51
M=L3_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 1955 more memories to test.";echo "tr 51 M=L3_IPMC_REMAP IS=min IE=max ITERations=1";tr
51 M=L3_IPMC_REMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 1954 more memories to test.";echo "tr 51 M=L3_MTU_VALUES IS=min IE=max ITERations=1";tr
51 M=L3_MTU_VALUES IS=min IE=max ITERations=1;echo "done";
echo "there are 1953 more memories to test.";echo "tr 51 M=L3_TUNNEL IS=min IE=max ITERations=1";tr 51
M=L3_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 1952 more memories to test.";echo "tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1951 more memories to test.";echo "tr 51 M=L3_TUNNEL_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_TUNNEL_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 1950 more memories to test.";echo "tr 51 M=LAG_DLB_CONTROL IS=min IE=max
ITERations=1";tr 51 M=LAG_DLB_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 1949 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max ITERations=1;echo
"done";
echo "there are 1948 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max
ITERations=1;echo "done";
echo "there are 1947 more memories to test.";echo "tr 51 M=LPORT_TAB IS=min IE=max ITERations=1";tr 51
M=LPORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 1946 more memories to test.";echo "tr 51 M=MAC_BLOCK IS=min IE=max ITERations=1";tr 51
```

```
M=MAC_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 1945 more memories to test.";echo "tr 51 M=MIRROR_CONTROL IS=min IE=max
ITERations=1";tr 51 M=MIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 1944 more memories to test.";echo "tr 51 M=MMU_CBPData0 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1943 more memories to test.";echo "tr 51 M=MMU_CBPData0_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1942 more memories to test.";echo "tr 51 M=MMU_CBPData0_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1941 more memories to test.";echo "tr 51 M=MMU_CBPData0_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1940 more memories to test.";echo "tr 51 M=MMU_CBPData0_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1939 more memories to test.";echo "tr 51 M=MMU_CBPData1 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1938 more memories to test.";echo "tr 51 M=MMU_CBPData10 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData10 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1937 more memories to test.";echo "tr 51 M=MMU_CBPData100 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData100 IS=min IE=max ITERations=1;echo "done";
echo "there are 1936 more memories to test.";echo "tr 51 M=MMU_CBPData100_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData100_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1935 more memories to test.";echo "tr 51 M=MMU_CBPData100_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData100_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1934 more memories to test.";echo "tr 51 M=MMU_CBPData100_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData100_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1933 more memories to test.";echo "tr 51 M=MMU_CBPData100_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData100_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1932 more memories to test.";echo "tr 51 M=MMU_CBPData101 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData101 IS=min IE=max ITERations=1;echo "done";
echo "there are 1931 more memories to test.";echo "tr 51 M=MMU_CBPData101_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData101_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1930 more memories to test.";echo "tr 51 M=MMU_CBPData101_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData101_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1929 more memories to test.";echo "tr 51 M=MMU_CBPData101_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData101_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1928 more memories to test.";echo "tr 51 M=MMU_CBPData101_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData101_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1927 more memories to test.";echo "tr 51 M=MMU_CBPData102 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData102 IS=min IE=max ITERations=1;echo "done";
echo "there are 1926 more memories to test.";echo "tr 51 M=MMU_CBPData102_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData102_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1925 more memories to test.";echo "tr 51 M=MMU_CBPData102_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData102_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1924 more memories to test.";echo "tr 51 M=MMU_CBPData102_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData102_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1923 more memories to test.";echo "tr 51 M=MMU_CBPData102_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData102_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1922 more memories to test.";echo "tr 51 M=MMU_CBPData103 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData103 IS=min IE=max ITERations=1;echo "done";
echo "there are 1921 more memories to test.";echo "tr 51 M=MMU_CBPData103_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData103_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1920 more memories to test.";echo "tr 51 M=MMU_CBPData103_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData103_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1919 more memories to test.";echo "tr 51 M=MMU_CBPData103_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData103_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1918 more memories to test.";echo "tr 51 M=MMU_CBPData103_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData103_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1917 more memories to test.";echo "tr 51 M=MMU_CBPData104 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData104 IS=min IE=max ITERations=1;echo "done";
echo "there are 1916 more memories to test.";echo "tr 51 M=MMU_CBPData104_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData104_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1915 more memories to test.";echo "tr 51 M=MMU_CBPData104_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData104_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1914 more memories to test.";echo "tr 51 M=MMU_CBPData104_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData104_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1913 more memories to test.";echo "tr 51 M=MMU_CBPData104_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData104_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1912 more memories to test.";echo "tr 51 M=MMU_CBPData105 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData105 IS=min IE=max ITERations=1;echo "done";
echo "there are 1911 more memories to test.";echo "tr 51 M=MMU_CBPData105_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData105_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1910 more memories to test.";echo "tr 51 M=MMU_CBPData105_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData105_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1909 more memories to test.";echo "tr 51 M=MMU_CBPData105_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData105_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1908 more memories to test.";echo "tr 51 M=MMU_CBPData105_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData105_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1907 more memories to test.";echo "tr 51 M=MMU_CBPData106 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData106 IS=min IE=max ITERations=1;echo "done";
echo "there are 1906 more memories to test.";echo "tr 51 M=MMU_CBPData106_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData106_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1905 more memories to test.";echo "tr 51 M=MMU_CBPData106_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData106_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1904 more memories to test.";echo "tr 51 M=MMU_CBPData106_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData106_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1903 more memories to test.";echo "tr 51 M=MMU_CBPData106_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData106_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1902 more memories to test.";echo "tr 51 M=MMU_CBPData107 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData107 IS=min IE=max ITERations=1;echo "done";
echo "there are 1901 more memories to test.";echo "tr 51 M=MMU_CBPData107_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData107_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1900 more memories to test.";echo "tr 51 M=MMU_CBPData107_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData107_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1899 more memories to test.";echo "tr 51 M=MMU_CBPData107_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData107_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1898 more memories to test.";echo "tr 51 M=MMU_CBPData107_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData107_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1897 more memories to test.";echo "tr 51 M=MMU_CBPData108 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData108 IS=min IE=max ITERations=1;echo "done";
echo "there are 1896 more memories to test.";echo "tr 51 M=MMU_CBPData108_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData108_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1895 more memories to test.";echo "tr 51 M=MMU_CBPData108_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData108_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1894 more memories to test.";echo "tr 51 M=MMU_CBPData108_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData108_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1893 more memories to test.";echo "tr 51 M=MMU_CBPData108_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData108_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1892 more memories to test.";echo "tr 51 M=MMU_CBPData109 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData109 IS=min IE=max ITERations=1;echo "done";
echo "there are 1891 more memories to test.";echo "tr 51 M=MMU_CBPData109_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData109_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1890 more memories to test.";echo "tr 51 M=MMU_CBPData109_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData109_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1889 more memories to test.";echo "tr 51 M=MMU_CBPData109_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData109_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1888 more memories to test.";echo "tr 51 M=MMU_CBPData109_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData109_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1887 more memories to test.";echo "tr 51 M=MMU_CBPData10_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData10_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1886 more memories to test.";echo "tr 51 M=MMU_CBPData10_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData10_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1885 more memories to test.";echo "tr 51 M=MMU_CBPData10_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData10_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1884 more memories to test.";echo "tr 51 M=MMU_CBPData10_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData10_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1883 more memories to test.";echo "tr 51 M=MMU_CBPData11 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData11 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1882 more memories to test.";echo "tr 51 M=MMU_CBPData110 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData110 IS=min IE=max ITERations=1;echo "done";
echo "there are 1881 more memories to test.";echo "tr 51 M=MMU_CBPData110_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData110_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1880 more memories to test.";echo "tr 51 M=MMU_CBPData110_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData110_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1879 more memories to test.";echo "tr 51 M=MMU_CBPData110_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData110_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1878 more memories to test.";echo "tr 51 M=MMU_CBPData110_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData110_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1877 more memories to test.";echo "tr 51 M=MMU_CBPData111 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData111 IS=min IE=max ITERations=1;echo "done";
echo "there are 1876 more memories to test.";echo "tr 51 M=MMU_CBPData111_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData111_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1875 more memories to test.";echo "tr 51 M=MMU_CBPData111_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData111_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1874 more memories to test.";echo "tr 51 M=MMU_CBPData111_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData111_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1873 more memories to test.";echo "tr 51 M=MMU_CBPData111_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData111_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1872 more memories to test.";echo "tr 51 M=MMU_CBPData11_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData11_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1871 more memories to test.";echo "tr 51 M=MMU_CBPData11_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData11_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1870 more memories to test.";echo "tr 51 M=MMU_CBPData11_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData11_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1869 more memories to test.";echo "tr 51 M=MMU_CBPData11_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData11_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1868 more memories to test.";echo "tr 51 M=MMU_CBPData12 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData12 IS=min IE=max ITERations=1;echo "done";
echo "there are 1867 more memories to test.";echo "tr 51 M=MMU_CBPData12_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData12_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1866 more memories to test.";echo "tr 51 M=MMU_CBPData12_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData12_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1865 more memories to test.";echo "tr 51 M=MMU_CBPData12_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData12_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1864 more memories to test.";echo "tr 51 M=MMU_CBPData12_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData12_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1863 more memories to test.";echo "tr 51 M=MMU_CBPData13 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData13 IS=min IE=max ITERations=1;echo "done";
echo "there are 1862 more memories to test.";echo "tr 51 M=MMU_CBPData13_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData13_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1861 more memories to test.";echo "tr 51 M=MMU_CBPData13_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData13_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1860 more memories to test.";echo "tr 51 M=MMU_CBPData13_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData13_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1859 more memories to test.";echo "tr 51 M=MMU_CBPData13_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData13_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1858 more memories to test.";echo "tr 51 M=MMU_CBPData14 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData14 IS=min IE=max ITERations=1;echo "done";
echo "there are 1857 more memories to test.";echo "tr 51 M=MMU_CBPData14_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData14_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1856 more memories to test.";echo "tr 51 M=MMU_CBPData14_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData14_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1855 more memories to test.";echo "tr 51 M=MMU_CBPData14_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData14_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1854 more memories to test.";echo "tr 51 M=MMU_CBPData14_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData14_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1853 more memories to test.";echo "tr 51 M=MMU_CBPData15 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData15 IS=min IE=max ITERations=1;echo "done";
echo "there are 1852 more memories to test.";echo "tr 51 M=MMU_CBPData15_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData15_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1851 more memories to test.";echo "tr 51 M=MMU_CBPData15_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData15_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1850 more memories to test.";echo "tr 51 M=MMU_CBPData15_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData15_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1849 more memories to test.";echo "tr 51 M=MMU_CBPData15_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData15_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1848 more memories to test.";echo "tr 51 M=MMU_CBPData16 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData16 IS=min IE=max ITERations=1;echo "done";
echo "there are 1847 more memories to test.";echo "tr 51 M=MMU_CBPData16_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData16_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1846 more memories to test.";echo "tr 51 M=MMU_CBPData16_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData16_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1845 more memories to test.";echo "tr 51 M=MMU_CBPData16_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData16_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1844 more memories to test.";echo "tr 51 M=MMU_CBPData16_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData16_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1843 more memories to test.";echo "tr 51 M=MMU_CBPData17 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData17 IS=min IE=max ITERations=1;echo "done";
echo "there are 1842 more memories to test.";echo "tr 51 M=MMU_CBPData17_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData17_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1841 more memories to test.";echo "tr 51 M=MMU_CBPData17_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData17_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1840 more memories to test.";echo "tr 51 M=MMU_CBPData17_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData17_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1839 more memories to test.";echo "tr 51 M=MMU_CBPData17_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData17_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1838 more memories to test.";echo "tr 51 M=MMU_CBPData18 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData18 IS=min IE=max ITERations=1;echo "done";
echo "there are 1837 more memories to test.";echo "tr 51 M=MMU_CBPData18_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData18_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1836 more memories to test.";echo "tr 51 M=MMU_CBPData18_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData18_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1835 more memories to test.";echo "tr 51 M=MMU_CBPData18_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData18_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1834 more memories to test.";echo "tr 51 M=MMU_CBPData18_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData18_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1833 more memories to test.";echo "tr 51 M=MMU_CBPData19 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData19 IS=min IE=max ITERations=1;echo "done";
echo "there are 1832 more memories to test.";echo "tr 51 M=MMU_CBPData19_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData19_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1831 more memories to test.";echo "tr 51 M=MMU_CBPData19_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData19_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1830 more memories to test.";echo "tr 51 M=MMU_CBPData19_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData19_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1829 more memories to test.";echo "tr 51 M=MMU_CBPData19_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData19_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1828 more memories to test.";echo "tr 51 M=MMU_CBPData1_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1827 more memories to test.";echo "tr 51 M=MMU_CBPData1_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1826 more memories to test.";echo "tr 51 M=MMU_CBPData1_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1825 more memories to test.";echo "tr 51 M=MMU_CBPData1_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData1_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1824 more memories to test.";echo "tr 51 M=MMU_CBPData2 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1823 more memories to test.";echo "tr 51 M=MMU_CBPData20 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData20 IS=min IE=max ITERations=1;echo "done";
echo "there are 1822 more memories to test.";echo "tr 51 M=MMU_CBPData20_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData20_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1821 more memories to test.";echo "tr 51 M=MMU_CBPData20_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData20_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1820 more memories to test.";echo "tr 51 M=MMU_CBPData20_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData20_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1819 more memories to test.";echo "tr 51 M=MMU_CBPData20_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData20_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1818 more memories to test.";echo "tr 51 M=MMU_CBPData21 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData21 IS=min IE=max ITERations=1;echo "done";
echo "there are 1817 more memories to test.";echo "tr 51 M=MMU_CBPData21_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData21_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1816 more memories to test.";echo "tr 51 M=MMU_CBPData21_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData21_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1815 more memories to test.";echo "tr 51 M=MMU_CBPData21_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData21_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1814 more memories to test.";echo "tr 51 M=MMU_CBPData21_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData21_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1813 more memories to test.";echo "tr 51 M=MMU_CBPData22 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData22 IS=min IE=max ITERations=1;echo "done";
echo "there are 1812 more memories to test.";echo "tr 51 M=MMU_CBPData22_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData22_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1811 more memories to test.";echo "tr 51 M=MMU_CBPData22_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData22_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1810 more memories to test.";echo "tr 51 M=MMU_CBPData22_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData22_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1809 more memories to test.";echo "tr 51 M=MMU_CBPData22_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData22_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1808 more memories to test.";echo "tr 51 M=MMU_CBPData23 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData23 IS=min IE=max ITERations=1;echo "done";
echo "there are 1807 more memories to test.";echo "tr 51 M=MMU_CBPData23_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData23_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1806 more memories to test.";echo "tr 51 M=MMU_CBPData23_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData23_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1805 more memories to test.";echo "tr 51 M=MMU_CBPData23_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData23_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1804 more memories to test.";echo "tr 51 M=MMU_CBPData23_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData23_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1803 more memories to test.";echo "tr 51 M=MMU_CBPData24 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData24 IS=min IE=max ITERations=1;echo "done";
echo "there are 1802 more memories to test.";echo "tr 51 M=MMU_CBPData24_XPE0 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData24_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1801 more memories to test.";echo "tr 51 M=MMU_CBPData24_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData24_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1800 more memories to test.";echo "tr 51 M=MMU_CBPData24_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData24_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1799 more memories to test.";echo "tr 51 M=MMU_CBPData24_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData24_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1798 more memories to test.";echo "tr 51 M=MMU_CBPData25 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData25 IS=min IE=max ITERations=1;echo "done";
echo "there are 1797 more memories to test.";echo "tr 51 M=MMU_CBPData25_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData25_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1796 more memories to test.";echo "tr 51 M=MMU_CBPData25_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData25_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1795 more memories to test.";echo "tr 51 M=MMU_CBPData25_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData25_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1794 more memories to test.";echo "tr 51 M=MMU_CBPData25_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData25_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1793 more memories to test.";echo "tr 51 M=MMU_CBPData26 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData26 IS=min IE=max ITERations=1;echo "done";
echo "there are 1792 more memories to test.";echo "tr 51 M=MMU_CBPData26_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData26_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1791 more memories to test.";echo "tr 51 M=MMU_CBPData26_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData26_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1790 more memories to test.";echo "tr 51 M=MMU_CBPData26_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData26_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1789 more memories to test.";echo "tr 51 M=MMU_CBPData26_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData26_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1788 more memories to test.";echo "tr 51 M=MMU_CBPData27 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData27 IS=min IE=max ITERations=1;echo "done";
echo "there are 1787 more memories to test.";echo "tr 51 M=MMU_CBPData27_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData27_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1786 more memories to test.";echo "tr 51 M=MMU_CBPData27_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData27_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1785 more memories to test.";echo "tr 51 M=MMU_CBPData27_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData27_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1784 more memories to test.";echo "tr 51 M=MMU_CBPData27_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData27_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1783 more memories to test.";echo "tr 51 M=MMU_CBPData28 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData28 IS=min IE=max ITERations=1;echo "done";
echo "there are 1782 more memories to test.";echo "tr 51 M=MMU_CBPData28_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData28_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1781 more memories to test.";echo "tr 51 M=MMU_CBPData28_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData28_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1780 more memories to test.";echo "tr 51 M=MMU_CBPData28_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData28_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1779 more memories to test.";echo "tr 51 M=MMU_CBPData28_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData28_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1778 more memories to test.";echo "tr 51 M=MMU_CBPData29 IS=min IE=max ITERations=1";tr
```

```
51 M=MMU_CBPData29 IS=min IE=max ITERations=1;echo "done";
echo "there are 1777 more memories to test.";echo "tr 51 M=MMU_CBPData29_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData29_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1776 more memories to test.";echo "tr 51 M=MMU_CBPData29_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData29_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1775 more memories to test.";echo "tr 51 M=MMU_CBPData29_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData29_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1774 more memories to test.";echo "tr 51 M=MMU_CBPData29_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData29_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1773 more memories to test.";echo "tr 51 M=MMU_CBPData2_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData2_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1772 more memories to test.";echo "tr 51 M=MMU_CBPData2_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData2_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1771 more memories to test.";echo "tr 51 M=MMU_CBPData2_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData2_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1770 more memories to test.";echo "tr 51 M=MMU_CBPData2_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData2_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1769 more memories to test.";echo "tr 51 M=MMU_CBPData3 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1768 more memories to test.";echo "tr 51 M=MMU_CBPData30 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData30 IS=min IE=max ITERations=1;echo "done";
echo "there are 1767 more memories to test.";echo "tr 51 M=MMU_CBPData30_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData30_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1766 more memories to test.";echo "tr 51 M=MMU_CBPData30_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData30_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1765 more memories to test.";echo "tr 51 M=MMU_CBPData30_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData30_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1764 more memories to test.";echo "tr 51 M=MMU_CBPData30_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData30_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1763 more memories to test.";echo "tr 51 M=MMU_CBPData31 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData31 IS=min IE=max ITERations=1;echo "done";
echo "there are 1762 more memories to test.";echo "tr 51 M=MMU_CBPData31_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData31_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1761 more memories to test.";echo "tr 51 M=MMU_CBPData31_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData31_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1760 more memories to test.";echo "tr 51 M=MMU_CBPData31_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData31_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1759 more memories to test.";echo "tr 51 M=MMU_CBPData31_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData31_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1758 more memories to test.";echo "tr 51 M=MMU_CBPData32 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData32 IS=min IE=max ITERations=1;echo "done";
echo "there are 1757 more memories to test.";echo "tr 51 M=MMU_CBPData32_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData32_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1756 more memories to test.";echo "tr 51 M=MMU_CBPData32_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData32_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1755 more memories to test.";echo "tr 51 M=MMU_CBPData32_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData32_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1754 more memories to test.";echo "tr 51 M=MMU_CBPData32_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData32_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1753 more memories to test.";echo "tr 51 M=MMU_CBPData33 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData33 IS=min IE=max ITERations=1;echo "done";
echo "there are 1752 more memories to test.";echo "tr 51 M=MMU_CBPData33_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData33_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1751 more memories to test.";echo "tr 51 M=MMU_CBPData33_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData33_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1750 more memories to test.";echo "tr 51 M=MMU_CBPData33_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData33_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1749 more memories to test.";echo "tr 51 M=MMU_CBPData33_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData33_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1748 more memories to test.";echo "tr 51 M=MMU_CBPData34 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData34 IS=min IE=max ITERations=1;echo "done";
echo "there are 1747 more memories to test.";echo "tr 51 M=MMU_CBPData34_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData34_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1746 more memories to test.";echo "tr 51 M=MMU_CBPData34_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData34_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1745 more memories to test.";echo "tr 51 M=MMU_CBPData34_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData34_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1744 more memories to test.";echo "tr 51 M=MMU_CBPData34_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData34_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1743 more memories to test.";echo "tr 51 M=MMU_CBPData35 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData35 IS=min IE=max ITERations=1;echo "done";
echo "there are 1742 more memories to test.";echo "tr 51 M=MMU_CBPData35_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData35_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1741 more memories to test.";echo "tr 51 M=MMU_CBPData35_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData35_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1740 more memories to test.";echo "tr 51 M=MMU_CBPData35_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData35_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1739 more memories to test.";echo "tr 51 M=MMU_CBPData35_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData35_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1738 more memories to test.";echo "tr 51 M=MMU_CBPData36 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData36 IS=min IE=max ITERations=1;echo "done";
echo "there are 1737 more memories to test.";echo "tr 51 M=MMU_CBPData36_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData36_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1736 more memories to test.";echo "tr 51 M=MMU_CBPData36_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData36_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1735 more memories to test.";echo "tr 51 M=MMU_CBPData36_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData36_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1734 more memories to test.";echo "tr 51 M=MMU_CBPData36_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData36_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1733 more memories to test.";echo "tr 51 M=MMU_CBPData37 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData37 IS=min IE=max ITERations=1;echo "done";
echo "there are 1732 more memories to test.";echo "tr 51 M=MMU_CBPData37_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData37_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1731 more memories to test.";echo "tr 51 M=MMU_CBPData37_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData37_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1730 more memories to test.";echo "tr 51 M=MMU_CBPData37_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData37_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1729 more memories to test.";echo "tr 51 M=MMU_CBPData37_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData37_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1728 more memories to test.";echo "tr 51 M=MMU_CBPData38 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData38 IS=min IE=max ITERations=1;echo "done";
echo "there are 1727 more memories to test.";echo "tr 51 M=MMU_CBPData38_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData38_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1726 more memories to test.";echo "tr 51 M=MMU_CBPData38_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData38_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1725 more memories to test.";echo "tr 51 M=MMU_CBPData38_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData38_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1724 more memories to test.";echo "tr 51 M=MMU_CBPData38_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData38_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1723 more memories to test.";echo "tr 51 M=MMU_CBPData39 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData39 IS=min IE=max ITERations=1;echo "done";
echo "there are 1722 more memories to test.";echo "tr 51 M=MMU_CBPData39_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData39_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1721 more memories to test.";echo "tr 51 M=MMU_CBPData39_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData39_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1720 more memories to test.";echo "tr 51 M=MMU_CBPData39_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData39_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1719 more memories to test.";echo "tr 51 M=MMU_CBPData39_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData39_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1718 more memories to test.";echo "tr 51 M=MMU_CBPData3_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData3_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1717 more memories to test.";echo "tr 51 M=MMU_CBPData3_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData3_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1716 more memories to test.";echo "tr 51 M=MMU_CBPData3_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData3_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1715 more memories to test.";echo "tr 51 M=MMU_CBPData3_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData3_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1714 more memories to test.";echo "tr 51 M=MMU_CBPData4 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData4 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1713 more memories to test.";echo "tr 51 M=MMU_CBPData40 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData40 IS=min IE=max ITERations=1;echo "done";
echo "there are 1712 more memories to test.";echo "tr 51 M=MMU_CBPData40_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData40_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1711 more memories to test.";echo "tr 51 M=MMU_CBPData40_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData40_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1710 more memories to test.";echo "tr 51 M=MMU_CBPData40_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData40_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1709 more memories to test.";echo "tr 51 M=MMU_CBPData40_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData40_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1708 more memories to test.";echo "tr 51 M=MMU_CBPData41 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData41 IS=min IE=max ITERations=1;echo "done";
echo "there are 1707 more memories to test.";echo "tr 51 M=MMU_CBPData41_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData41_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1706 more memories to test.";echo "tr 51 M=MMU_CBPData41_XPE1 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData41_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1705 more memories to test.";echo "tr 51 M=MMU_CBPData41_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData41_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1704 more memories to test.";echo "tr 51 M=MMU_CBPData41_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData41_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1703 more memories to test.";echo "tr 51 M=MMU_CBPData42 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData42 IS=min IE=max ITERations=1;echo "done";
echo "there are 1702 more memories to test.";echo "tr 51 M=MMU_CBPData42_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData42_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1701 more memories to test.";echo "tr 51 M=MMU_CBPData42_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData42_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1700 more memories to test.";echo "tr 51 M=MMU_CBPData42_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData42_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1699 more memories to test.";echo "tr 51 M=MMU_CBPData42_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData42_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1698 more memories to test.";echo "tr 51 M=MMU_CBPData43 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData43 IS=min IE=max ITERations=1;echo "done";
echo "there are 1697 more memories to test.";echo "tr 51 M=MMU_CBPData43_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData43_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1696 more memories to test.";echo "tr 51 M=MMU_CBPData43_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData43_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1695 more memories to test.";echo "tr 51 M=MMU_CBPData43_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData43_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1694 more memories to test.";echo "tr 51 M=MMU_CBPData43_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData43_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1693 more memories to test.";echo "tr 51 M=MMU_CBPData44 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData44 IS=min IE=max ITERations=1;echo "done";
echo "there are 1692 more memories to test.";echo "tr 51 M=MMU_CBPData44_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData44_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1691 more memories to test.";echo "tr 51 M=MMU_CBPData44_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData44_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1690 more memories to test.";echo "tr 51 M=MMU_CBPData44_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData44_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1689 more memories to test.";echo "tr 51 M=MMU_CBPData44_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData44_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1688 more memories to test.";echo "tr 51 M=MMU_CBPData45 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData45 IS=min IE=max ITERations=1;echo "done";
echo "there are 1687 more memories to test.";echo "tr 51 M=MMU_CBPData45_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData45_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1686 more memories to test.";echo "tr 51 M=MMU_CBPData45_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData45_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1685 more memories to test.";echo "tr 51 M=MMU_CBPData45_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData45_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1684 more memories to test.";echo "tr 51 M=MMU_CBPData45_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData45_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1683 more memories to test.";echo "tr 51 M=MMU_CBPData46 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData46 IS=min IE=max ITERations=1;echo "done";
echo "there are 1682 more memories to test.";echo "tr 51 M=MMU_CBPData46_XPE0 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData46_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1681 more memories to test.";echo "tr 51 M=MMU_CBPData46_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData46_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1680 more memories to test.";echo "tr 51 M=MMU_CBPData46_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData46_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1679 more memories to test.";echo "tr 51 M=MMU_CBPData46_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData46_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1678 more memories to test.";echo "tr 51 M=MMU_CBPData47 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData47 IS=min IE=max ITERations=1;echo "done";
echo "there are 1677 more memories to test.";echo "tr 51 M=MMU_CBPData47_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData47_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1676 more memories to test.";echo "tr 51 M=MMU_CBPData47_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData47_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1675 more memories to test.";echo "tr 51 M=MMU_CBPData47_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData47_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1674 more memories to test.";echo "tr 51 M=MMU_CBPData47_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData47_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1673 more memories to test.";echo "tr 51 M=MMU_CBPData48 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData48 IS=min IE=max ITERations=1;echo "done";
echo "there are 1672 more memories to test.";echo "tr 51 M=MMU_CBPData48_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData48_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1671 more memories to test.";echo "tr 51 M=MMU_CBPData48_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData48_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1670 more memories to test.";echo "tr 51 M=MMU_CBPData48_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData48_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1669 more memories to test.";echo "tr 51 M=MMU_CBPData48_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData48_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1668 more memories to test.";echo "tr 51 M=MMU_CBPData49 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData49 IS=min IE=max ITERations=1;echo "done";
echo "there are 1667 more memories to test.";echo "tr 51 M=MMU_CBPData49_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData49_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1666 more memories to test.";echo "tr 51 M=MMU_CBPData49_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData49_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1665 more memories to test.";echo "tr 51 M=MMU_CBPData49_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData49_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1664 more memories to test.";echo "tr 51 M=MMU_CBPData49_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData49_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1663 more memories to test.";echo "tr 51 M=MMU_CBPData4_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData4_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1662 more memories to test.";echo "tr 51 M=MMU_CBPData4_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData4_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1661 more memories to test.";echo "tr 51 M=MMU_CBPData4_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData4_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1660 more memories to test.";echo "tr 51 M=MMU_CBPData4_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData4_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1659 more memories to test.";echo "tr 51 M=MMU_CBPData5 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData5 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1658 more memories to test.";echo "tr 51 M=MMU_CBPData50 IS=min IE=max ITERations=1";tr
```

```
51 M=MMU_CBPData50 IS=min IE=max ITERations=1;echo "done";
echo "there are 1657 more memories to test.";echo "tr 51 M=MMU_CBPData50_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData50_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1656 more memories to test.";echo "tr 51 M=MMU_CBPData50_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData50_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1655 more memories to test.";echo "tr 51 M=MMU_CBPData50_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData50_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1654 more memories to test.";echo "tr 51 M=MMU_CBPData50_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData50_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1653 more memories to test.";echo "tr 51 M=MMU_CBPData51 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData51 IS=min IE=max ITERations=1;echo "done";
echo "there are 1652 more memories to test.";echo "tr 51 M=MMU_CBPData51_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData51_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1651 more memories to test.";echo "tr 51 M=MMU_CBPData51_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData51_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1650 more memories to test.";echo "tr 51 M=MMU_CBPData51_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData51_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1649 more memories to test.";echo "tr 51 M=MMU_CBPData51_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData51_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1648 more memories to test.";echo "tr 51 M=MMU_CBPData52 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData52 IS=min IE=max ITERations=1;echo "done";
echo "there are 1647 more memories to test.";echo "tr 51 M=MMU_CBPData52_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData52_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1646 more memories to test.";echo "tr 51 M=MMU_CBPData52_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData52_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1645 more memories to test.";echo "tr 51 M=MMU_CBPData52_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData52_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1644 more memories to test.";echo "tr 51 M=MMU_CBPData52_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData52_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1643 more memories to test.";echo "tr 51 M=MMU_CBPData53 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData53 IS=min IE=max ITERations=1;echo "done";
echo "there are 1642 more memories to test.";echo "tr 51 M=MMU_CBPData53_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData53_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1641 more memories to test.";echo "tr 51 M=MMU_CBPData53_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData53_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1640 more memories to test.";echo "tr 51 M=MMU_CBPData53_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData53_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1639 more memories to test.";echo "tr 51 M=MMU_CBPData53_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData53_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1638 more memories to test.";echo "tr 51 M=MMU_CBPData54 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData54 IS=min IE=max ITERations=1;echo "done";
echo "there are 1637 more memories to test.";echo "tr 51 M=MMU_CBPData54_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData54_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1636 more memories to test.";echo "tr 51 M=MMU_CBPData54_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData54_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1635 more memories to test.";echo "tr 51 M=MMU_CBPData54_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData54_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1634 more memories to test.";echo "tr 51 M=MMU_CBPData54_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData54_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1633 more memories to test.";echo "tr 51 M=MMU_CBPData55 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData55 IS=min IE=max ITERations=1;echo "done";
echo "there are 1632 more memories to test.";echo "tr 51 M=MMU_CBPData55_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData55_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1631 more memories to test.";echo "tr 51 M=MMU_CBPData55_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData55_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1630 more memories to test.";echo "tr 51 M=MMU_CBPData55_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData55_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1629 more memories to test.";echo "tr 51 M=MMU_CBPData55_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData55_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1628 more memories to test.";echo "tr 51 M=MMU_CBPData56 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData56 IS=min IE=max ITERations=1;echo "done";
echo "there are 1627 more memories to test.";echo "tr 51 M=MMU_CBPData56_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData56_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1626 more memories to test.";echo "tr 51 M=MMU_CBPData56_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData56_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1625 more memories to test.";echo "tr 51 M=MMU_CBPData56_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData56_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1624 more memories to test.";echo "tr 51 M=MMU_CBPData56_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData56_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1623 more memories to test.";echo "tr 51 M=MMU_CBPData57 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData57 IS=min IE=max ITERations=1;echo "done";
echo "there are 1622 more memories to test.";echo "tr 51 M=MMU_CBPData57_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData57_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1621 more memories to test.";echo "tr 51 M=MMU_CBPData57_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData57_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1620 more memories to test.";echo "tr 51 M=MMU_CBPData57_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData57_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1619 more memories to test.";echo "tr 51 M=MMU_CBPData57_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData57_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1618 more memories to test.";echo "tr 51 M=MMU_CBPData58 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData58 IS=min IE=max ITERations=1;echo "done";
echo "there are 1617 more memories to test.";echo "tr 51 M=MMU_CBPData58_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData58_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1616 more memories to test.";echo "tr 51 M=MMU_CBPData58_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData58_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1615 more memories to test.";echo "tr 51 M=MMU_CBPData58_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData58_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1614 more memories to test.";echo "tr 51 M=MMU_CBPData58_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData58_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1613 more memories to test.";echo "tr 51 M=MMU_CBPData59 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData59 IS=min IE=max ITERations=1;echo "done";
echo "there are 1612 more memories to test.";echo "tr 51 M=MMU_CBPData59_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData59_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1611 more memories to test.";echo "tr 51 M=MMU_CBPData59_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData59_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1610 more memories to test.";echo "tr 51 M=MMU_CBPData59_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData59_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1609 more memories to test.";echo "tr 51 M=MMU_CBPData59_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData59_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1608 more memories to test.";echo "tr 51 M=MMU_CBPData5_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData5_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1607 more memories to test.";echo "tr 51 M=MMU_CBPData5_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData5_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1606 more memories to test.";echo "tr 51 M=MMU_CBPData5_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData5_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1605 more memories to test.";echo "tr 51 M=MMU_CBPData5_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData5_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1604 more memories to test.";echo "tr 51 M=MMU_CBPData6 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData6 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1603 more memories to test.";echo "tr 51 M=MMU_CBPData60 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData60 IS=min IE=max ITERations=1;echo "done";
echo "there are 1602 more memories to test.";echo "tr 51 M=MMU_CBPData60_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData60_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1601 more memories to test.";echo "tr 51 M=MMU_CBPData60_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData60_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1600 more memories to test.";echo "tr 51 M=MMU_CBPData60_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData60_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1599 more memories to test.";echo "tr 51 M=MMU_CBPData60_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData60_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1598 more memories to test.";echo "tr 51 M=MMU_CBPData61 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData61 IS=min IE=max ITERations=1;echo "done";
echo "there are 1597 more memories to test.";echo "tr 51 M=MMU_CBPData61_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData61_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1596 more memories to test.";echo "tr 51 M=MMU_CBPData61_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData61_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1595 more memories to test.";echo "tr 51 M=MMU_CBPData61_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData61_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1594 more memories to test.";echo "tr 51 M=MMU_CBPData61_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData61_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1593 more memories to test.";echo "tr 51 M=MMU_CBPData62 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData62 IS=min IE=max ITERations=1;echo "done";
echo "there are 1592 more memories to test.";echo "tr 51 M=MMU_CBPData62_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData62_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1591 more memories to test.";echo "tr 51 M=MMU_CBPData62_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData62_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1590 more memories to test.";echo "tr 51 M=MMU_CBPData62_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData62_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1589 more memories to test.";echo "tr 51 M=MMU_CBPData62_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData62_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1588 more memories to test.";echo "tr 51 M=MMU_CBPData63 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData63 IS=min IE=max ITERations=1;echo "done";
echo "there are 1587 more memories to test.";echo "tr 51 M=MMU_CBPData63_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData63_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1586 more memories to test.";echo "tr 51 M=MMU_CBPData63_XPE1 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData63_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1585 more memories to test.";echo "tr 51 M=MMU_CBPData63_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData63_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1584 more memories to test.";echo "tr 51 M=MMU_CBPData63_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData63_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1583 more memories to test.";echo "tr 51 M=MMU_CBPData64 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData64 IS=min IE=max ITERations=1;echo "done";
echo "there are 1582 more memories to test.";echo "tr 51 M=MMU_CBPData64_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData64_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1581 more memories to test.";echo "tr 51 M=MMU_CBPData64_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData64_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1580 more memories to test.";echo "tr 51 M=MMU_CBPData64_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData64_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1579 more memories to test.";echo "tr 51 M=MMU_CBPData64_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData64_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1578 more memories to test.";echo "tr 51 M=MMU_CBPData65 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData65 IS=min IE=max ITERations=1;echo "done";
echo "there are 1577 more memories to test.";echo "tr 51 M=MMU_CBPData65_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData65_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1576 more memories to test.";echo "tr 51 M=MMU_CBPData65_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData65_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1575 more memories to test.";echo "tr 51 M=MMU_CBPData65_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData65_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1574 more memories to test.";echo "tr 51 M=MMU_CBPData65_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData65_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1573 more memories to test.";echo "tr 51 M=MMU_CBPData66 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData66 IS=min IE=max ITERations=1;echo "done";
echo "there are 1572 more memories to test.";echo "tr 51 M=MMU_CBPData66_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData66_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1571 more memories to test.";echo "tr 51 M=MMU_CBPData66_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData66_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1570 more memories to test.";echo "tr 51 M=MMU_CBPData66_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData66_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1569 more memories to test.";echo "tr 51 M=MMU_CBPData66_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData66_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1568 more memories to test.";echo "tr 51 M=MMU_CBPData67 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData67 IS=min IE=max ITERations=1;echo "done";
echo "there are 1567 more memories to test.";echo "tr 51 M=MMU_CBPData67_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData67_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1566 more memories to test.";echo "tr 51 M=MMU_CBPData67_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData67_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1565 more memories to test.";echo "tr 51 M=MMU_CBPData67_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData67_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1564 more memories to test.";echo "tr 51 M=MMU_CBPData67_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData67_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1563 more memories to test.";echo "tr 51 M=MMU_CBPData68 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData68 IS=min IE=max ITERations=1;echo "done";
echo "there are 1562 more memories to test.";echo "tr 51 M=MMU_CBPData68_XPE0 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData68_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1561 more memories to test.";echo "tr 51 M=MMU_CBPData68_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData68_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1560 more memories to test.";echo "tr 51 M=MMU_CBPData68_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData68_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1559 more memories to test.";echo "tr 51 M=MMU_CBPData68_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData68_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1558 more memories to test.";echo "tr 51 M=MMU_CBPData69 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData69 IS=min IE=max ITERations=1;echo "done";
echo "there are 1557 more memories to test.";echo "tr 51 M=MMU_CBPData69_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData69_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1556 more memories to test.";echo "tr 51 M=MMU_CBPData69_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData69_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1555 more memories to test.";echo "tr 51 M=MMU_CBPData69_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData69_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1554 more memories to test.";echo "tr 51 M=MMU_CBPData69_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData69_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1553 more memories to test.";echo "tr 51 M=MMU_CBPData6_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData6_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1552 more memories to test.";echo "tr 51 M=MMU_CBPData6_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData6_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1551 more memories to test.";echo "tr 51 M=MMU_CBPData6_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData6_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1550 more memories to test.";echo "tr 51 M=MMU_CBPData6_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData6_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1549 more memories to test.";echo "tr 51 M=MMU_CBPData7 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData7 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1548 more memories to test.";echo "tr 51 M=MMU_CBPData70 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData70 IS=min IE=max ITERations=1;echo "done";
echo "there are 1547 more memories to test.";echo "tr 51 M=MMU_CBPData70_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData70_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1546 more memories to test.";echo "tr 51 M=MMU_CBPData70_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData70_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1545 more memories to test.";echo "tr 51 M=MMU_CBPData70_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData70_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1544 more memories to test.";echo "tr 51 M=MMU_CBPData70_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData70_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1543 more memories to test.";echo "tr 51 M=MMU_CBPData71 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData71 IS=min IE=max ITERations=1;echo "done";
echo "there are 1542 more memories to test.";echo "tr 51 M=MMU_CBPData71_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData71_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1541 more memories to test.";echo "tr 51 M=MMU_CBPData71_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData71_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1540 more memories to test.";echo "tr 51 M=MMU_CBPData71_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData71_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1539 more memories to test.";echo "tr 51 M=MMU_CBPData71_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData71_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1538 more memories to test.";echo "tr 51 M=MMU_CBPData72 IS=min IE=max ITERations=1";tr
```

```
51 M=MMU_CBPData72 IS=min IE=max ITERations=1;echo "done";
echo "there are 1537 more memories to test.";echo "tr 51 M=MMU_CBPData72_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData72_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1536 more memories to test.";echo "tr 51 M=MMU_CBPData72_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData72_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1535 more memories to test.";echo "tr 51 M=MMU_CBPData72_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData72_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1534 more memories to test.";echo "tr 51 M=MMU_CBPData72_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData72_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1533 more memories to test.";echo "tr 51 M=MMU_CBPData73 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData73 IS=min IE=max ITERations=1;echo "done";
echo "there are 1532 more memories to test.";echo "tr 51 M=MMU_CBPData73_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData73_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1531 more memories to test.";echo "tr 51 M=MMU_CBPData73_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData73_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1530 more memories to test.";echo "tr 51 M=MMU_CBPData73_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData73_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1529 more memories to test.";echo "tr 51 M=MMU_CBPData73_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData73_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1528 more memories to test.";echo "tr 51 M=MMU_CBPData74 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData74 IS=min IE=max ITERations=1;echo "done";
echo "there are 1527 more memories to test.";echo "tr 51 M=MMU_CBPData74_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData74_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1526 more memories to test.";echo "tr 51 M=MMU_CBPData74_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData74_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1525 more memories to test.";echo "tr 51 M=MMU_CBPData74_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData74_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1524 more memories to test.";echo "tr 51 M=MMU_CBPData74_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData74_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1523 more memories to test.";echo "tr 51 M=MMU_CBPData75 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData75 IS=min IE=max ITERations=1;echo "done";
echo "there are 1522 more memories to test.";echo "tr 51 M=MMU_CBPData75_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData75_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1521 more memories to test.";echo "tr 51 M=MMU_CBPData75_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData75_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1520 more memories to test.";echo "tr 51 M=MMU_CBPData75_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData75_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1519 more memories to test.";echo "tr 51 M=MMU_CBPData75_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData75_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1518 more memories to test.";echo "tr 51 M=MMU_CBPData76 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData76 IS=min IE=max ITERations=1;echo "done";
echo "there are 1517 more memories to test.";echo "tr 51 M=MMU_CBPData76_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData76_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1516 more memories to test.";echo "tr 51 M=MMU_CBPData76_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData76_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1515 more memories to test.";echo "tr 51 M=MMU_CBPData76_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData76_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1514 more memories to test.";echo "tr 51 M=MMU_CBPData76_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData76_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1513 more memories to test.";echo "tr 51 M=MMU_CBPData77 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData77 IS=min IE=max ITERations=1;echo "done";
echo "there are 1512 more memories to test.";echo "tr 51 M=MMU_CBPData77_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData77_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1511 more memories to test.";echo "tr 51 M=MMU_CBPData77_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData77_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1510 more memories to test.";echo "tr 51 M=MMU_CBPData77_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData77_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1509 more memories to test.";echo "tr 51 M=MMU_CBPData77_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData77_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1508 more memories to test.";echo "tr 51 M=MMU_CBPData78 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData78 IS=min IE=max ITERations=1;echo "done";
echo "there are 1507 more memories to test.";echo "tr 51 M=MMU_CBPData78_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData78_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1506 more memories to test.";echo "tr 51 M=MMU_CBPData78_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData78_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1505 more memories to test.";echo "tr 51 M=MMU_CBPData78_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData78_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1504 more memories to test.";echo "tr 51 M=MMU_CBPData78_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData78_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1503 more memories to test.";echo "tr 51 M=MMU_CBPData79 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData79 IS=min IE=max ITERations=1;echo "done";
echo "there are 1502 more memories to test.";echo "tr 51 M=MMU_CBPData79_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData79_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1501 more memories to test.";echo "tr 51 M=MMU_CBPData79_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData79_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1500 more memories to test.";echo "tr 51 M=MMU_CBPData79_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData79_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1499 more memories to test.";echo "tr 51 M=MMU_CBPData79_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData79_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1498 more memories to test.";echo "tr 51 M=MMU_CBPData7_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData7_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1497 more memories to test.";echo "tr 51 M=MMU_CBPData7_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData7_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1496 more memories to test.";echo "tr 51 M=MMU_CBPData7_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData7_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1495 more memories to test.";echo "tr 51 M=MMU_CBPData7_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData7_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1494 more memories to test.";echo "tr 51 M=MMU_CBPData8 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData8 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1493 more memories to test.";echo "tr 51 M=MMU_CBPData80 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData80 IS=min IE=max ITERations=1;echo "done";
echo "there are 1492 more memories to test.";echo "tr 51 M=MMU_CBPData80_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData80_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1491 more memories to test.";echo "tr 51 M=MMU_CBPData80_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData80_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1490 more memories to test.";echo "tr 51 M=MMU_CBPData80_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData80_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1489 more memories to test.";echo "tr 51 M=MMU_CBPData80_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData80_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1488 more memories to test.";echo "tr 51 M=MMU_CBPData81 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData81 IS=min IE=max ITERations=1;echo "done";
echo "there are 1487 more memories to test.";echo "tr 51 M=MMU_CBPData81_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData81_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1486 more memories to test.";echo "tr 51 M=MMU_CBPData81_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData81_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1485 more memories to test.";echo "tr 51 M=MMU_CBPData81_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData81_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1484 more memories to test.";echo "tr 51 M=MMU_CBPData81_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData81_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1483 more memories to test.";echo "tr 51 M=MMU_CBPData82 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData82 IS=min IE=max ITERations=1;echo "done";
echo "there are 1482 more memories to test.";echo "tr 51 M=MMU_CBPData82_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData82_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1481 more memories to test.";echo "tr 51 M=MMU_CBPData82_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData82_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1480 more memories to test.";echo "tr 51 M=MMU_CBPData82_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData82_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1479 more memories to test.";echo "tr 51 M=MMU_CBPData82_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData82_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1478 more memories to test.";echo "tr 51 M=MMU_CBPData83 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData83 IS=min IE=max ITERations=1;echo "done";
echo "there are 1477 more memories to test.";echo "tr 51 M=MMU_CBPData83_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData83_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1476 more memories to test.";echo "tr 51 M=MMU_CBPData83_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData83_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1475 more memories to test.";echo "tr 51 M=MMU_CBPData83_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData83_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1474 more memories to test.";echo "tr 51 M=MMU_CBPData83_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData83_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1473 more memories to test.";echo "tr 51 M=MMU_CBPData84 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData84 IS=min IE=max ITERations=1;echo "done";
echo "there are 1472 more memories to test.";echo "tr 51 M=MMU_CBPData84_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData84_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1471 more memories to test.";echo "tr 51 M=MMU_CBPData84_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData84_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1470 more memories to test.";echo "tr 51 M=MMU_CBPData84_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData84_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1469 more memories to test.";echo "tr 51 M=MMU_CBPData84_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData84_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1468 more memories to test.";echo "tr 51 M=MMU_CBPData85 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData85 IS=min IE=max ITERations=1;echo "done";
echo "there are 1467 more memories to test.";echo "tr 51 M=MMU_CBPData85_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData85_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1466 more memories to test.";echo "tr 51 M=MMU_CBPData85_XPE1 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData85_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1465 more memories to test.";echo "tr 51 M=MMU_CBPData85_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData85_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1464 more memories to test.";echo "tr 51 M=MMU_CBPData85_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData85_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1463 more memories to test.";echo "tr 51 M=MMU_CBPData86 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData86 IS=min IE=max ITERations=1;echo "done";
echo "there are 1462 more memories to test.";echo "tr 51 M=MMU_CBPData86_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData86_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1461 more memories to test.";echo "tr 51 M=MMU_CBPData86_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData86_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1460 more memories to test.";echo "tr 51 M=MMU_CBPData86_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData86_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1459 more memories to test.";echo "tr 51 M=MMU_CBPData86_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData86_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1458 more memories to test.";echo "tr 51 M=MMU_CBPData87 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData87 IS=min IE=max ITERations=1;echo "done";
echo "there are 1457 more memories to test.";echo "tr 51 M=MMU_CBPData87_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData87_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1456 more memories to test.";echo "tr 51 M=MMU_CBPData87_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData87_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1455 more memories to test.";echo "tr 51 M=MMU_CBPData87_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData87_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1454 more memories to test.";echo "tr 51 M=MMU_CBPData87_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData87_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1453 more memories to test.";echo "tr 51 M=MMU_CBPData88 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData88 IS=min IE=max ITERations=1;echo "done";
echo "there are 1452 more memories to test.";echo "tr 51 M=MMU_CBPData88_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData88_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1451 more memories to test.";echo "tr 51 M=MMU_CBPData88_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData88_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1450 more memories to test.";echo "tr 51 M=MMU_CBPData88_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData88_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1449 more memories to test.";echo "tr 51 M=MMU_CBPData88_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData88_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1448 more memories to test.";echo "tr 51 M=MMU_CBPData89 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData89 IS=min IE=max ITERations=1;echo "done";
echo "there are 1447 more memories to test.";echo "tr 51 M=MMU_CBPData89_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData89_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1446 more memories to test.";echo "tr 51 M=MMU_CBPData89_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData89_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1445 more memories to test.";echo "tr 51 M=MMU_CBPData89_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData89_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1444 more memories to test.";echo "tr 51 M=MMU_CBPData89_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData89_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1443 more memories to test.";echo "tr 51 M=MMU_CBPData8_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData8_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1442 more memories to test.";echo "tr 51 M=MMU_CBPData8_XPE1 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData8_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1441 more memories to test.";echo "tr 51 M=MMU_CBPData8_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData8_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1440 more memories to test.";echo "tr 51 M=MMU_CBPData8_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData8_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1439 more memories to test.";echo "tr 51 M=MMU_CBPData9 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData9 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1438 more memories to test.";echo "tr 51 M=MMU_CBPData90 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData90 IS=min IE=max ITERations=1;echo "done";
echo "there are 1437 more memories to test.";echo "tr 51 M=MMU_CBPData90_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData90_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1436 more memories to test.";echo "tr 51 M=MMU_CBPData90_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData90_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1435 more memories to test.";echo "tr 51 M=MMU_CBPData90_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData90_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1434 more memories to test.";echo "tr 51 M=MMU_CBPData90_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData90_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1433 more memories to test.";echo "tr 51 M=MMU_CBPData91 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData91 IS=min IE=max ITERations=1;echo "done";
echo "there are 1432 more memories to test.";echo "tr 51 M=MMU_CBPData91_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData91_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1431 more memories to test.";echo "tr 51 M=MMU_CBPData91_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData91_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1430 more memories to test.";echo "tr 51 M=MMU_CBPData91_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData91_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1429 more memories to test.";echo "tr 51 M=MMU_CBPData91_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData91_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1428 more memories to test.";echo "tr 51 M=MMU_CBPData92 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData92 IS=min IE=max ITERations=1;echo "done";
echo "there are 1427 more memories to test.";echo "tr 51 M=MMU_CBPData92_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData92_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1426 more memories to test.";echo "tr 51 M=MMU_CBPData92_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData92_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1425 more memories to test.";echo "tr 51 M=MMU_CBPData92_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData92_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1424 more memories to test.";echo "tr 51 M=MMU_CBPData92_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData92_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1423 more memories to test.";echo "tr 51 M=MMU_CBPData93 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData93 IS=min IE=max ITERations=1;echo "done";
echo "there are 1422 more memories to test.";echo "tr 51 M=MMU_CBPData93_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData93_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1421 more memories to test.";echo "tr 51 M=MMU_CBPData93_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData93_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1420 more memories to test.";echo "tr 51 M=MMU_CBPData93_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData93_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1419 more memories to test.";echo "tr 51 M=MMU_CBPData93_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData93_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1418 more memories to test.";echo "tr 51 M=MMU_CBPData94 IS=min IE=max ITERations=1";tr
```

```
51 M=MMU_CBPData94 IS=min IE=max ITERations=1;echo "done";
echo "there are 1417 more memories to test.";echo "tr 51 M=MMU_CBPData94_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData94_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1416 more memories to test.";echo "tr 51 M=MMU_CBPData94_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData94_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1415 more memories to test.";echo "tr 51 M=MMU_CBPData94_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData94_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1414 more memories to test.";echo "tr 51 M=MMU_CBPData94_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData94_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1413 more memories to test.";echo "tr 51 M=MMU_CBPData95 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData95 IS=min IE=max ITERations=1;echo "done";
echo "there are 1412 more memories to test.";echo "tr 51 M=MMU_CBPData95_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData95_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1411 more memories to test.";echo "tr 51 M=MMU_CBPData95_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData95_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1410 more memories to test.";echo "tr 51 M=MMU_CBPData95_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData95_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1409 more memories to test.";echo "tr 51 M=MMU_CBPData95_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData95_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1408 more memories to test.";echo "tr 51 M=MMU_CBPData96 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData96 IS=min IE=max ITERations=1;echo "done";
echo "there are 1407 more memories to test.";echo "tr 51 M=MMU_CBPData96_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData96_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1406 more memories to test.";echo "tr 51 M=MMU_CBPData96_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData96_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1405 more memories to test.";echo "tr 51 M=MMU_CBPData96_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData96_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1404 more memories to test.";echo "tr 51 M=MMU_CBPData96_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData96_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1403 more memories to test.";echo "tr 51 M=MMU_CBPData97 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData97 IS=min IE=max ITERations=1;echo "done";
echo "there are 1402 more memories to test.";echo "tr 51 M=MMU_CBPData97_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData97_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1401 more memories to test.";echo "tr 51 M=MMU_CBPData97_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData97_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1400 more memories to test.";echo "tr 51 M=MMU_CBPData97_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData97_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1399 more memories to test.";echo "tr 51 M=MMU_CBPData97_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData97_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1398 more memories to test.";echo "tr 51 M=MMU_CBPData98 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData98 IS=min IE=max ITERations=1;echo "done";
echo "there are 1397 more memories to test.";echo "tr 51 M=MMU_CBPData98_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData98_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1396 more memories to test.";echo "tr 51 M=MMU_CBPData98_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData98_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1395 more memories to test.";echo "tr 51 M=MMU_CBPData98_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData98_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1394 more memories to test.";echo "tr 51 M=MMU_CBPData98_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CBPData98_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1393 more memories to test.";echo "tr 51 M=MMU_CBPData99 IS=min IE=max ITERations=1";tr
51 M=MMU_CBPData99 IS=min IE=max ITERations=1;echo "done";
echo "there are 1392 more memories to test.";echo "tr 51 M=MMU_CBPData99_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData99_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1391 more memories to test.";echo "tr 51 M=MMU_CBPData99_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData99_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1390 more memories to test.";echo "tr 51 M=MMU_CBPData99_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData99_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1389 more memories to test.";echo "tr 51 M=MMU_CBPData99_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData99_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1388 more memories to test.";echo "tr 51 M=MMU_CBPData9_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData9_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1387 more memories to test.";echo "tr 51 M=MMU_CBPData9_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData9_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1386 more memories to test.";echo "tr 51 M=MMU_CBPData9_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData9_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1385 more memories to test.";echo "tr 51 M=MMU_CBPData9_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CBPData9_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1384 more memories to test.";echo "tr 51 M=MMU_CCP_MEM IS=min IE=max ITERations=1";tr
51 M=MMU_CCP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1383 more memories to test.";echo "tr 51 M=MMU_CCP_MEM_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1382 more memories to test.";echo "tr 51 M=MMU_CCP_MEM_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1381 more memories to test.";echo "tr 51 M=MMU_CCP_MEM_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1380 more memories to test.";echo "tr 51 M=MMU_CCP_MEM_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1379 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1378 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1377 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1376 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1375 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1374 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1373 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 1372 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1371 more memories to test.";echo "tr 51 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1370 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1369 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1368 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1367 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1366 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1365 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1364 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK10 IS=min IE=max ITERations=1;echo "done";
echo "there are 1363 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK10_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1362 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK10_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1361 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK10_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1360 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK10_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1359 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK11 IS=min IE=max ITERations=1;echo "done";
echo "there are 1358 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK11_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1357 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK11_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1356 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK11_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1355 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK11_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1354 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK12 IS=min IE=max ITERations=1;echo "done";
echo "there are 1353 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK12_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1352 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK12_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1351 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK12_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1350 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CFAP_BANK12_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1349 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK13 IS=min IE=max ITERations=1;echo "done";
echo "there are 1348 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK13_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1347 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK13_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1346 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK13_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1345 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK13_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1344 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1343 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1342 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1341 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK1_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1340 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1339 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK2_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1338 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK2_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1337 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK2_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1336 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK2_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1335 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1334 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK3_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1333 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK3_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1332 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK3_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1331 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK3_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1330 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK4 IS=min IE=max ITERations=1;echo "done";
echo "there are 1329 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK4_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1328 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK4_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1327 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK4_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1326 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CFAP_BANK4_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1325 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK5 IS=min IE=max ITERations=1;echo "done";
echo "there are 1324 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK5_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1323 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK5_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1322 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK5_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1321 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK5_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1320 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK6 IS=min IE=max ITERations=1;echo "done";
echo "there are 1319 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK6_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1318 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK6_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1317 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK6_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1316 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK6_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1315 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK7 IS=min IE=max ITERations=1;echo "done";
echo "there are 1314 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK7_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1313 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK7_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1312 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK7_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1311 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK7_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1310 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK8 IS=min IE=max ITERations=1;echo "done";
echo "there are 1309 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK8_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1308 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK8_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1307 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK8_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1306 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK8_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1305 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK9 IS=min IE=max ITERations=1;echo "done";
echo "there are 1304 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK9_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1303 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK9_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1302 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_CFAP_BANK9_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1301 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAP_BANK9_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1300 more memories to test.";echo "tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
ITERations=1";tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 1299 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1298 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1297 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1296 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1295 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1294 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1293 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1292 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1291 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1290 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1289 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1288 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1287 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1286 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1285 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 1284 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1283 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1282 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1281 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1280 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1279 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1278 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1277 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1276 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1275 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1274 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1273 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1272 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1271 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1270 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1269 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1268 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 1267 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1266 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1265 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1264 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1263 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1262 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1261 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1260 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1259 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1258 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1257 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1256 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1255 more memories to test.";echo "tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1254 more memories to test.";echo "tr 51 M=MMU_ENQS_CT_FIFO IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_CT_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 1253 more memories to test.";echo "tr 51 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_CT_FIFO_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1252 more memories to test.";echo "tr 51 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_CT_FIFO_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1251 more memories to test.";echo "tr 51 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_CT_FIFO_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1250 more memories to test.";echo "tr 51 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_ENQS_CT_FIFO_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1249 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB IS=min IE=max ITERations=1;echo "done";
echo "there are 1248 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1247 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1246 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1245 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1244 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1243 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1242 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1241 more memories to test.";echo "tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQS_PBI_DB_SED1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1240 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI IS=min IE=max ITERations=1;echo
"done";
echo "there are 1239 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1238 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1237 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1236 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1235 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1234 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1233 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1232 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1231 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 1230 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1229 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1228 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1227 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1226 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1225 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1224 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1223 more memories to test.";echo "tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1222 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI IS=min IE=max ITERations=1;echo "done";
echo "there are 1221 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1220 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1219 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1218 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1217 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1216 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1215 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";

```
echo "there are 1214 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1213 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO IS=min IE=max ITERations=1;echo "done";
echo "there are 1212 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1211 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1210 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1209 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1208 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1207 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1206 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1205 more memories to test.";echo "tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1204 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_EPRG_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1203 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_EPRG_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1202 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_EPRG_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1201 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_EPRG_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1200 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_EPRG_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1199 more memories to test.";echo "tr 51 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 51 M=MMU_GCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1198 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 1197 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1196 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1195 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1194 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1193 more memories to test.";echo "tr 51 M=MMU_INTFO_TIMESTAMP IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1192 more memories to test.";echo "tr 51 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TOD_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1191 more memories to test.";echo "tr 51 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_UTC_TIMESTAMP IS=min IE=max ITERations=1;echo "done";
#echo "there are 1190 more memories to test.";echo "tr 51 M=MMU_LINK_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_LINK_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1189 more memories to test.";echo "tr 51 M=MMU_LINK_MEM_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_LINK_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1188 more memories to test.";echo "tr 51 M=MMU_LINK_MEM_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_LINK_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1187 more memories to test.";echo "tr 51 M=MMU_LINK_MEM_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_LINK_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1186 more memories to test.";echo "tr 51 M=MMU_LINK_MEM_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_LINK_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1185 more memories to test.";echo "tr 51 M=MMU_MCFP IS=min IE=max ITERations=1";tr 51
M=MMU_MCFP IS=min IE=max ITERations=1;echo "done";
echo "there are 1184 more memories to test.";echo "tr 51 M=MMU_MCFP_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCFP_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1183 more memories to test.";echo "tr 51 M=MMU_MCFP_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCFP_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1182 more memories to test.";echo "tr 51 M=MMU_MCFP_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCFP_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1181 more memories to test.";echo "tr 51 M=MMU_MCFP_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCFP_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1180 more memories to test.";echo "tr 51 M=MMU_MCQDB_X IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1179 more memories to test.";echo "tr 51 M=MMU_MCQDB_X_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1178 more memories to test.";echo "tr 51 M=MMU_MCQDB_X_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1177 more memories to test.";echo "tr 51 M=MMU_MCQDB_X_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1176 more memories to test.";echo "tr 51 M=MMU_MCQDB_X_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1175 more memories to test.";echo "tr 51 M=MMU_MCQDB_Y IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1174 more memories to test.";echo "tr 51 M=MMU_MCQDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1173 more memories to test.";echo "tr 51 M=MMU_MCQDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1172 more memories to test.";echo "tr 51 M=MMU_MCQDB_Y_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1171 more memories to test.";echo "tr 51 M=MMU_MCQDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1170 more memories to test.";echo "tr 51 M=MMU_MCQE IS=min IE=max ITERations=1";tr 51
M=MMU_MCQE IS=min IE=max ITERations=1;echo "done";
#echo "there are 1169 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_X IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1168 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1167 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1166 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1165 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1164 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_Y IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1163 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1162 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1161 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1160 more memories to test.";echo "tr 51 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_PREFETCH_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1159 more memories to test.";echo "tr 51 M=MMU_MCQE_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1158 more memories to test.";echo "tr 51 M=MMU_MCQE_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1157 more memories to test.";echo "tr 51 M=MMU_MCQE_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1156 more memories to test.";echo "tr 51 M=MMU_MCQE_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQE_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1155 more memories to test.";echo "tr 51 M=MMU_MCQN IS=min IE=max ITERations=1";tr 51
M=MMU_MCQN IS=min IE=max ITERations=1;echo "done";
echo "there are 1154 more memories to test.";echo "tr 51 M=MMU_MCQN_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQN_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1153 more memories to test.";echo "tr 51 M=MMU_MCQN_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQN_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1152 more memories to test.";echo "tr 51 M=MMU_MCQN_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQN_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1151 more memories to test.";echo "tr 51 M=MMU_MCQN_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MCQN_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1150 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1149 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1148 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1147 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1146 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1145 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1144 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1143 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1142 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1141 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1140 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1139 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 1138 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1137 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1136 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1135 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1134 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 1133 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1132 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max ITERations=1";tr 51
```

```
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1131 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1130 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1129 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1128 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1127 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1126 more memories to test.";echo "tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1125 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM IS=min IE=max ITERations=1;echo "done";
#echo "there are 1124 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_A IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_A IS=min IE=max ITERations=1;echo "done";
echo "there are 1123 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1122 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1121 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1120 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1119 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_B IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_B IS=min IE=max ITERations=1;echo "done";
echo "there are 1118 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1117 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1116 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1115 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1114 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1113 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1112 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1111 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1110 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM IS=min IE=max ITERations=1;echo "done";
#echo "there are 1109 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_A IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_A IS=min IE=max ITERations=1;echo "done";
echo "there are 1108 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_A_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1107 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_A_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1106 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_A_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1105 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_A_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1104 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_B IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_B IS=min IE=max ITERations=1;echo "done";
echo "there are 1103 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_B_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1102 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_B_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1101 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_B_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1100 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_B_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 1099 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1098 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1097 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1096 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1095 more memories to test.";echo "tr 51 M=MMU_PDB_X IS=min IE=max ITERations=1";tr 51
M=MMU_PDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 1094 more memories to test.";echo "tr 51 M=MMU_PDB_X_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1093 more memories to test.";echo "tr 51 M=MMU_PDB_X_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1092 more memories to test.";echo "tr 51 M=MMU_PDB_X_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1091 more memories to test.";echo "tr 51 M=MMU_PDB_X_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1090 more memories to test.";echo "tr 51 M=MMU_PDB_Y IS=min IE=max ITERations=1";tr 51
M=MMU_PDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 1089 more memories to test.";echo "tr 51 M=MMU_PDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1088 more memories to test.";echo "tr 51 M=MMU_PDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1087 more memories to test.";echo "tr 51 M=MMU_PDB_Y_XPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_PDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1086 more memories to test.";echo "tr 51 M=MMU_PDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1085 more memories to test.";echo "tr 51 M=MMU_PKTHDR IS=min IE=max ITERations=1";tr
51 M=MMU_PKTHDR IS=min IE=max ITERations=1;echo "done";
echo "there are 1084 more memories to test.";echo "tr 51 M=MMU_PKTHDR_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PKTHDR_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1083 more memories to test.";echo "tr 51 M=MMU_PKTHDR_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PKTHDR_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1082 more memories to test.";echo "tr 51 M=MMU_PKTHDR_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_PKTHDR_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1081 more memories to test.";echo "tr 51 M=MMU_PKTHDR_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PKTHDR_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1080 more memories to test.";echo "tr 51 M=MMU_PORTCNT IS=min IE=max ITERations=1";tr
51 M=MMU_PORTCNT IS=min IE=max ITERations=1;echo "done";
echo "there are 1079 more memories to test.";echo "tr 51 M=MMU_PORTCNT_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PORTCNT_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1078 more memories to test.";echo "tr 51 M=MMU_PORTCNT_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PORTCNT_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1077 more memories to test.";echo "tr 51 M=MMU_PORTCNT_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_PORTCNT_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1076 more memories to test.";echo "tr 51 M=MMU_PORTCNT_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PORTCNT_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1075 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1074 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE0_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1073 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE0_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1072 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE0_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1071 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE0_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1070 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE1_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 1069 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE1_MEM_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1068 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE1_MEM_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1067 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE1_MEM_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1066 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_PQE1_MEM_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1065 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1064 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 1063 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1062 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 1061 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1060 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1059 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0
IS=min IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1058 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1057 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1056 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1
IS=min IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1055 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1054 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1053 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1052 more memories to test.";echo "tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max ITERations=1";tr 51
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1051 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1050 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1049 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1048 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1047 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1046 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1045 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1044 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1043 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1042 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1041 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 1040 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1039 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1038 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 1037 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1036 more memories to test.";echo "tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1035 more memories to test.";echo "tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min
IE=max ITERations=1";tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1034 more memories to test.";echo "tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min
IE=max ITERations=1";tr 51 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1033 more memories to test.";echo "tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 1032 more memories to test.";echo "tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0
IS=min IE=max ITERations=1";tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1031 more memories to test.";echo "tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1
IS=min IE=max ITERations=1";tr 51 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1030 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_LOWER
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_LOWER IS=min IE=max
ITERations=1;echo "done";
echo "there are 1029 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 1028 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 1027 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 1026 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 1025 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER IS=min IE=max ITERations=1;echo "done";
echo "there are 1024 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1023 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1022 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1021 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1020 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1019 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1018 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1017 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1016 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max ITERations=1";tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER IS=min IE=max ITERations=1;echo "done";
echo "there are 1015 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1014 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 1013 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1012 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1011 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1010 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1009 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1008 more memories to test.";echo "tr 51
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max ITERations=1";tr
51 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1007 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER IS=min IE=max
ITERations=1;echo "done";
echo "there are 1006 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1005 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1004 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 1003 more memories to test.";echo "tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1002 more memories to test.";echo "tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1001 more memories to test.";echo "tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 1000 more memories to test.";echo "tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
#echo "there are 999 more memories to test.";echo "tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 998 more memories to test.";echo "tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 997 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 996 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 995 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 994 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 993 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 992 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 991 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 990 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 989 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 988 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 987 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 986 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 985 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 984 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 983 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 982 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 981 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 980 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 979 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 978 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 977 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 976 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 975 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 974 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 973 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 972 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 971 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 970 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 969 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 968 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 967 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0
```

```
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 966 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 965 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 964 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 963 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 962 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 961 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 960 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 959 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 958 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 957 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 956 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 955 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 954 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 953 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 952 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 951 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1
```

```
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 950 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 949 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 948 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 947 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 946 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 945 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 944 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 943 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 942 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 941 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 940 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 939 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 938 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 937 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 936 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 935 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3
```

```
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 934 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 933 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 932 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 931 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 930 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET IS=min IE=max ITERations=1;echo
"done";
#echo "there are 929 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 928 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 927 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 926 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 925 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 924 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 923 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 922 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 921 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 920 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 919 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C IS=min IE=max ITERations=1;echo
"done";
echo "there are 918 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 917 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 915 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 914 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 911 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 910 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME IS=min IE=max ITERations=1;echo
"done";
echo "there are 909 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 908 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 907 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 906 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 905 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 904 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 903 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2
```

```
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 901 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST IS=min IE=max ITERations=1;echo
"done";
echo "there are 900 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 898 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 897 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 893 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 892 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 891 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 888 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3
```

```
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 886 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 883 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 882 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 881 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C IS=min IE=max
ITERations=1;echo "done";
echo "there are 880 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 879 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 878 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 877 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 876 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 875 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 874 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 873 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 872 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max
ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 871 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 870 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 869 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 868 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 867 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 866 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 865 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 864 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG IS=min IE=max ITERations=1;echo
"done";
#echo "there are 862 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 861 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 860 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 859 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 858 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 857 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 856 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 855 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 854 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 853 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 852 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C IS=min IE=max
ITERations=1;echo "done";
echo "there are 851 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 850 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 849 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 848 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 847 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 846 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 845 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 844 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 843 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 842 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 841 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 840 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 839 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
```

```
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 838 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 837 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 836 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 835 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 834 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET IS=min IE=max ITERations=1;echo
"done";
#echo "there are 833 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 832 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 828 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 827 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 823 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 822 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 814 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME IS=min IE=max ITERations=1;echo
"done";
echo "there are 813 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 811 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 810 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 809 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 808 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 807 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
```

```
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 806 more memories to test.";echo "tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 805 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_BST_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 804 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 803 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 802 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 801 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 800 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 799 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 798 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 797 more memories to test.";echo "tr 51 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_PORT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 796 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 790 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 787 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 785 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 784 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 783 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 782 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 781 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 780 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 779 more memories to test.";echo "tr 51 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 778 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT IS=min IE=max ITERations=1;echo "done";
#echo "there are 777 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 775 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 774 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 773 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 772 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 771 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 770 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 769 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 768 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 767 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 766 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 765 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 764 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_PORT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 763 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP IS=min IE=max ITERations=1;echo "done";
#echo "there are 762 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 761 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 760 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 759 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 758 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 757 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 755 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 754 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 753 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 752 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 751 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 750 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 749 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QGROUP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 748 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE IS=min IE=max ITERations=1;echo "done";
#echo "there are 747 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 745 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 744 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 743 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 742 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 740 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 739 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 738 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 737 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 736 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 735 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 734 more memories to test.";echo "tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_CONFIG_QUEUE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 733 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 729 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 726 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 724 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 723 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 722 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 716 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 715 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 712 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 711 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 707 more memories to test.";echo "tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 706 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP IS=min IE=max ITERations=1;echo "done";
#echo "there are 705 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 703 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 702 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 701 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 700 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 699 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 698 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 697 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 696 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 695 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 694 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 693 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 692 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QGROUP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 691 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE IS=min IE=max ITERations=1;echo "done";
#echo "there are 690 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 688 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 687 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 686 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 685 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 683 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 682 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 681 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 680 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 679 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 678 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 677 more memories to test.";echo "tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_OFFSET_QUEUE_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 676 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 675 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0 IS=min IE=max ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 673 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 672 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 671 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 670 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1 IS=min IE=max ITERations=1;echo "done";
echo "there are 669 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 668 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 667 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 666 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 665 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2 IS=min IE=max ITERations=1;echo "done";
echo "there are 664 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 663 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 662 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 661 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 660 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 659 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 658 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 657 more memories to test.";echo "tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 656 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT IS=min IE=max ITERations=1;echo "done";
#echo "there are 655 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 654 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 653 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 652 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT0_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 651 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 650 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT1 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 649 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 648 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 647 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 646 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 645 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT2 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 644 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 643 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 642 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 641 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 640 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 639 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 638 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT_PIPE2 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 637 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_PORT_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 636 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 631 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 629 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 628 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 627 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 624 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 623 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 51 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS IS=min IE=max ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE IS=min IE=max ITERations=1;echo
"done";
#echo "there are 616 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 615 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 614 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 613 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 612 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 611 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 610 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 607 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 606 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 605 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 604 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 603 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 602 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 601 more memories to test.";echo "tr 51 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 600 more memories to test.";echo "tr 51 M=MMU_UCQDB_X IS=min IE=max ITERations=1";tr
51 M=MMU_UCQDB_X IS=min IE=max ITERations=1;echo "done";
echo "there are 599 more memories to test.";echo "tr 51 M=MMU_UCQDB_X_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_X_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 598 more memories to test.";echo "tr 51 M=MMU_UCQDB_X_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_X_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 597 more memories to test.";echo "tr 51 M=MMU_UCQDB_X_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_X_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 51 M=MMU_UCQDB_X_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_X_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 595 more memories to test.";echo "tr 51 M=MMU_UCQDB_Y IS=min IE=max ITERations=1";tr
51 M=MMU_UCQDB_Y IS=min IE=max ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 51 M=MMU_UCQDB_Y_XPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_Y_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 51 M=MMU_UCQDB_Y_XPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_Y_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 51 M=MMU_UCQDB_Y_XPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_Y_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 51 M=MMU_UCQDB_Y_XPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_UCQDB_Y_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 590 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE IS=min IE=max ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 588 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 587 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 586 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 585 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 584 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 583 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 582 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 581 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 579 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE0_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 578 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 577 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 576 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 575 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 574 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 573 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_CONFIG_XPE3_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 572 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 571 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 568 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 565 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 563 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 562 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 561 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 560 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 559 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 558 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 557 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 556 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 555 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6 IS=min IE=max ITERations=1;echo
"done";
echo "there are 553 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6_A IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 552 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_6_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 550 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_7_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8 IS=min IE=max ITERations=1;echo
"done";
echo "there are 547 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8_A
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8_B
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_8_B IS=min IE=max
ITERations=1;echo "done";
#echo "there are 545 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD IS=min IE=max ITERations=1;echo
"done";
#echo "there are 544 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_MARK
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_MARK IS=min IE=max
ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 540 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 537 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 536 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 527 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_SHARED_COUNT IS=min IE=max
ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 520 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 518 more memories to test.";echo "tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 517 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 515 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 514 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 509 more memories to test.";echo "tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min
IE=max ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 508 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 504 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 500 more memories to test.";echo "tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK IS=min IE=max
ITERations=1;echo "done";
echo "there are 499 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 491 more memories to test.";echo "tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT IS=min IE=max
ITERations=1;echo "done";
#echo "there are 490 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE IS=min IE=max ITERations=1;echo
"done";
echo "there are 489 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min IE=max
```

```
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 IS=min
IE=max ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 IS=min
IE=max ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 IS=min
IE=max ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 IS=min
IE=max ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 IS=min
IE=max ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 IS=min
IE=max ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 IS=min
IE=max ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 IS=min
IE=max ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 475 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 473 more memories to test.";echo "tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min
IE=max ITERations=1";tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 472 more memories to test.";echo "tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min
IE=max ITERations=1";tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 471 more memories to test.";echo "tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min
IE=max ITERations=1";tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 470 more memories to test.";echo "tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min
IE=max ITERations=1";tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 469 more memories to test.";echo "tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min
IE=max ITERations=1";tr 51 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 51 M=MODPORT_MAP_M0 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 51 M=MODPORT_MAP_M1 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M1 IS=min IE=max ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 51 M=MODPORT_MAP_M2 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 51 M=MODPORT_MAP_M3 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M3 IS=min IE=max ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 51 M=MODPORT_MAP_MIRROR IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_MIRROR IS=min IE=max ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 51 M=MODPORT_MAP_SW IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SW IS=min IE=max ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 51 M=MPLS_ENTRY IS=min IE=max ITERations=1";tr 51
M=MPLS_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 51 M=MPLS_ENTRY_ECC IS=min IE=max
ITERations=1";tr 51 M=MPLS_ENTRY_ECC IS=min IE=max ITERations=1;echo "done";
#echo "there are 460 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min
IE=max ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 459 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 458 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 457 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 IS=min IE=max
```

```
ITERations=1;echo "done";
#echo "there are 456 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 51 M=MY_STATION_TCAM IS=min IE=max
ITERations=1";tr 51 M=MY_STATION_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 454 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 453 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 452 more memories to test.";echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ITERations=1";tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 451 more memories to test.";echo "tr 51 M=PHB2_COS_MAP IS=min IE=max ITERations=1";tr 51
M=PHB2_COS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 450 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR0 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 449 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 448 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 447 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 446 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 445 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR1 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 444 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 443 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 442 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 441 more memories to test.";echo "tr 51 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=PKT_SCH_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 440 more memories to test.";echo "tr 51 M=PORT_BRIDGE_BMAP IS=min IE=max
ITERations=1";tr 51 M=PORT_BRIDGE_BMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 439 more memories to test.";echo "tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max
ITERations=1";tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE IS=min IE=max ITERations=1";tr
51 M=PORT_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=max
ITERations=1";tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=max
ITERations=1";tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 51 M=PORT_TAB IS=min IE=max ITERations=1";tr 51
```

```
M=PORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max
ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW1 IS=min IE=max ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 432 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 431 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 430 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 429 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max
ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW2 IS=min IE=max ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 427 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 426 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 425 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 424 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_IVP IS=min IE=max
ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_IVP IS=min IE=max ITERations=1;echo "done";
#echo "there are 423 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE0 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 422 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE1 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 421 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 420 more memories to test.";echo "tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=PTR_RESULTS_BUFFER_IVP_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 419 more memories to test.";echo "tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 418 more memories to test.";echo "tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
```

```
ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 414 more memories to test.";echo "tr 51 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max
ITERations=1";tr 51 M=Q_SCHED_L0_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 412 more memories to test.";echo "tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 411 more memories to test.";echo "tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 410 more memories to test.";echo "tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 409 more memories to test.";echo "tr 51 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max
ITERations=1";tr 51 M=Q_SCHED_L0_WEIGHT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 407 more memories to test.";echo "tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 406 more memories to test.";echo "tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 405 more memories to test.";echo "tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 404 more memories to test.";echo "tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 403 more memories to test.";echo "tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min
```

```
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 399 more memories to test.";echo "tr 51 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max
ITERations=1";tr 51 M=Q_SCHED_L1_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 397 more memories to test.";echo "tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 396 more memories to test.";echo "tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 395 more memories to test.";echo "tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 394 more memories to test.";echo "tr 51 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max
ITERations=1";tr 51 M=Q_SCHED_L1_WEIGHT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 392 more memories to test.";echo "tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 391 more memories to test.";echo "tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 390 more memories to test.";echo "tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 389 more memories to test.";echo "tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM IS=min IE=max ITERations=1;echo
"done";
echo "there are 388 more memories to test.";echo "tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 IS=min IE=max
ITERations=1;echo "done";
```

```
#echo "there are 384 more memories to test.";echo "tr 51 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max
ITERations=1";tr 51 M=Q_SCHED_L2_CREDIT_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 382 more memories to test.";echo "tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 381 more memories to test.";echo "tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 380 more memories to test.";echo "tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 379 more memories to test.";echo "tr 51 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min
IE=max ITERations=1";tr 51 M=RANDOM_RRLB_HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo
"done";
#echo "there are 378 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 373 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=max ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 370 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 51 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max
ITERations=1";tr 51 M=RESPONSIVE_PROTOCOL_MATCH IS=min IE=max ITERations=1;echo "done";
#echo "there are 367 more memories to test.";echo "tr 51 M=RQE_FREE_LIST IS=min IE=max ITERations=1";tr
51 M=RQE_FREE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 51 M=RQE_FREE_LIST_XPE0 IS=min IE=max
ITERations=1";tr 51 M=RQE_FREE_LIST_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 51 M=RQE_FREE_LIST_XPE1 IS=min IE=max
ITERations=1";tr 51 M=RQE_FREE_LIST_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 51 M=RQE_FREE_LIST_XPE2 IS=min IE=max
ITERations=1";tr 51 M=RQE_FREE_LIST_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 51 M=RQE_FREE_LIST_XPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=RQE_FREE_LIST_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 362 more memories to test.";echo "tr 51 M=RQE_LINK_LIST IS=min IE=max ITERations=1";tr
51 M=RQE_LINK_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 361 more memories to test.";echo "tr 51 M=RQE_LINK_LIST_XPE0 IS=min IE=max
ITERations=1";tr 51 M=RQE_LINK_LIST_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 51 M=RQE_LINK_LIST_XPE1 IS=min IE=max
ITERations=1";tr 51 M=RQE_LINK_LIST_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 51 M=RQE_LINK_LIST_XPE2 IS=min IE=max
ITERations=1";tr 51 M=RQE_LINK_LIST_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 51 M=RQE_LINK_LIST_XPE3 IS=min IE=max
ITERations=1";tr 51 M=RQE_LINK_LIST_XPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 357 more memories to test.";echo "tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=max
ITERations=1";tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=max
ITERations=1";tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 51 M=SER_ACC_TYPE_MAP IS=min IE=max
ITERations=1";tr 51 M=SER_ACC_TYPE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 51 M=SER_MEMORY IS=min IE=max ITERations=1";tr 51
M=SER_MEMORY IS=min IE=max ITERations=1;echo "done";
#echo "there are 351 more memories to test.";echo "tr 51 M=SER_RESULT_0 IS=min IE=max ITERations=1";tr
51 M=SER_RESULT_0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 350 more memories to test.";echo "tr 51 M=SER_RESULT_1 IS=min IE=max ITERations=1";tr
51 M=SER_RESULT_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 349 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_0 IS=min IE=max
ITERations=1";tr 51 M=SER_RESULT_DATA_0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 348 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_1 IS=min IE=max
ITERations=1";tr 51 M=SER_RESULT_DATA_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 347 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=max
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 346 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=max
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 51 M=SFLOW_ING_DATA_SOURCE IS=min IE=max
ITERations=1";tr 51 M=SFLOW_ING_DATA_SOURCE IS=min IE=max ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 51 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min
IE=max ITERations=1";tr 51 M=SFLOW_ING_FLEX_DATA_SOURCE IS=min IE=max ITERations=1;echo
"done";
echo "there are 343 more memories to test.";echo "tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 51 M=SOURCE_VP IS=min IE=max ITERations=1";tr 51
M=SOURCE_VP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 339 more memories to test.";echo "tr 51 M=SOURCE_VP_2 IS=min IE=max ITERations=1";tr 51
M=SOURCE_VP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 51 M=SRC_COMPRESSION IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION IS=min IE=max ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max
ITERations=1";tr 51 M=SRC_COMPRESSION_TCAM_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 51 M=SRC_MODID_EGRESS IS=min IE=max
ITERations=1";tr 51 M=SRC_MODID_EGRESS IS=min IE=max ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max
ITERations=1";tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 51 M=STATS_INTF_QUEUE_LIST IS=min IE=max
ITERations=1";tr 51 M=STATS_INTF_QUEUE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 51 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max
ITERations=1";tr 51 M=STATS_INTF_SERVPOOL_LIST IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 319 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=max
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 318 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 317 more memories to test.";echo "tr 51 M=SYS_PORTMAP IS=min IE=max ITERations=1";tr 51
M=SYS_PORTMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 316 more memories to test.";echo "tr 51 M=TCB_BUFFER_METADATA IS=min IE=max
ITERations=1";tr 51 M=TCB_BUFFER_METADATA IS=min IE=max ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 51 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max
ITERations=1";tr 51 M=TCB_BUFFER_METADATA_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 51 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max
ITERations=1";tr 51 M=TCB_BUFFER_METADATA_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 51 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max
ITERations=1";tr 51 M=TCB_BUFFER_METADATA_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 51 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max
ITERations=1";tr 51 M=TCB_BUFFER_METADATA_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 311 more memories to test.";echo "tr 51 M=TCB_EVENT_BUFFER IS=min IE=max
ITERations=1";tr 51 M=TCB_EVENT_BUFFER IS=min IE=max ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 51 M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max
ITERations=1";tr 51 M=TCB_EVENT_BUFFER_XPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 51 M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max
ITERations=1";tr 51 M=TCB_EVENT_BUFFER_XPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 51 M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max
ITERations=1";tr 51 M=TCB_EVENT_BUFFER_XPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 51 M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max
ITERations=1";tr 51 M=TCB_EVENT_BUFFER_XPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 306 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER IS=min IE=max
ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER IS=min IE=max ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 304 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 303 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 302 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 301 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 300 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 299 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min
```

```
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 298 more memories to test.";echo "tr 51 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 297 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP IS=min IE=max ITERations=1;echo
"done";
#echo "there are 296 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 295 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 291 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 290 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3
IS=min IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 285 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 284 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 283 more memories to test.";echo "tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min
```

```
IE=max ITERations=1";tr 51 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 282 more memories to test.";echo "tr 51 M=TCP_FN IS=min IE=max ITERations=1";tr 51
M=TCP_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 281 more memories to test.";echo "tr 51 M=TCP_FN_PIPE0 IS=min IE=max ITERations=1";tr 51
M=TCP_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 280 more memories to test.";echo "tr 51 M=TCP_FN_PIPE1 IS=min IE=max ITERations=1";tr 51
M=TCP_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 51 M=TCP_FN_PIPE2 IS=min IE=max ITERations=1";tr 51
M=TCP_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 278 more memories to test.";echo "tr 51 M=TCP_FN_PIPE3 IS=min IE=max ITERations=1";tr 51
M=TCP_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 277 more memories to test.";echo "tr 51 M=TDM_CALENDAR0 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR0 IS=min IE=max ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 51 M=TDM_CALENDAR0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 275 more memories to test.";echo "tr 51 M=TDM_CALENDAR0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 51 M=TDM_CALENDAR0_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 51 M=TDM_CALENDAR0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 272 more memories to test.";echo "tr 51 M=TDM_CALENDAR1 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR1 IS=min IE=max ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 51 M=TDM_CALENDAR1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 51 M=TDM_CALENDAR1_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 269 more memories to test.";echo "tr 51 M=TDM_CALENDAR1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 268 more memories to test.";echo "tr 51 M=TDM_CALENDAR1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=TDM_CALENDAR1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 267 more memories to test.";echo "tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min
IE=max ITERations=1";tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT IS=min IE=max ITERations=1;echo
"done";
#echo "there are 266 more memories to test.";echo "tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0
IS=min IE=max ITERations=1";tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 265 more memories to test.";echo "tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1
IS=min IE=max ITERations=1";tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 264 more memories to test.";echo "tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2
IS=min IE=max ITERations=1";tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 263 more memories to test.";echo "tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3
IS=min IE=max ITERations=1";tr 51 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 262 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST IS=min IE=max
```

```
ITERations=1";tr 51 M=THDI_PORT_PG_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 259 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 258 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 257 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 256 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 253 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 251 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 248 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 247 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 246 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 244 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 242 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 235 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1 IS=min IE=max ITERations=1;echo "done";
echo "there are 234 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 232 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 226 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max
```

```
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2 IS=min IE=max ITERations=1;echo "done";
echo "there are 225 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 224 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 223 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 IS=min IE=max
ITERations=1;echo "done";
echo "there are 221 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 220 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 219 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 IS=min IE=max
ITERations=1;echo "done";
#echo "there are 217 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 216 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 215 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 214 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 212 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST IS=min IE=max ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE0_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE1_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max
```

```
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE3_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_XPE3_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 203 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT IS=min IE=max ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 201 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 200 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 199 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 198 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 197 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 196 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 195 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 194 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH IS=min IE=max ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 192 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 191 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 190 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 189 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 188 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 187 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 186 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min
IE=max ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 185 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG IS=min IE=max ITERations=1;echo "done";
#echo "there are 184 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0 IS=min IE=max ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 179 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1 IS=min IE=max ITERations=1;echo "done";
echo "there are 178 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 175 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 174 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2 IS=min IE=max ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 171 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max
```

```
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 51 M=TOS_FN IS=min IE=max ITERations=1";tr 51
M=TOS_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 164 more memories to test.";echo "tr 51 M=TOS_FN_PIPE0 IS=min IE=max ITERations=1";tr 51
M=TOS_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 51 M=TOS_FN_PIPE1 IS=min IE=max ITERations=1";tr 51
M=TOS_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 51 M=TOS_FN_PIPE2 IS=min IE=max ITERations=1";tr 51
M=TOS_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 51 M=TOS_FN_PIPE3 IS=min IE=max ITERations=1";tr 51
M=TOS_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 160 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS IS=min IE=max
ITERations=1";tr 51 M=TRILL_DROP_STATS IS=min IE=max ITERations=1;echo "done";
#echo "there are 159 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=TRILL_DROP_STATS_PIPE0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=TRILL_DROP_STATS_PIPE1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 157 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=TRILL_DROP_STATS_PIPE2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 156 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=TRILL_DROP_STATS_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 51 M=TRUNK_BITMAP IS=min IE=max ITERations=1";tr
51 M=TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 51 M=TRUNK_CBL_TABLE IS=min IE=max
ITERations=1";tr 51 M=TRUNK_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 51 M=TRUNK_GROUP IS=min IE=max ITERations=1";tr 51
M=TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 51 M=TRUNK_RR_CNT IS=min IE=max ITERations=1";tr
51 M=TRUNK_RR_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 151 more memories to test.";echo "tr 51 M=TRUNK_RR_CNT_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=TRUNK_RR_CNT_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 150 more memories to test.";echo "tr 51 M=TRUNK_RR_CNT_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=TRUNK_RR_CNT_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 51 M=TRUNK_RR_CNT_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=TRUNK_RR_CNT_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 51 M=TRUNK_RR_CNT_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=TRUNK_RR_CNT_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 51 M=TRUNK_MEMBER IS=min IE=max ITERations=1";tr
51 M=TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 51 M=TTL_FN IS=min IE=max ITERations=1";tr 51
M=TTL_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 51 M=TTL_FN_PIPE0 IS=min IE=max ITERations=1";tr 51
M=TTL_FN_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 51 M=TTL_FN_PIPE1 IS=min IE=max ITERations=1";tr 51
M=TTL_FN_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 51 M=TTL_FN_PIPE2 IS=min IE=max ITERations=1";tr 51
M=TTL_FN_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 51 M=TTL_FN_PIPE3 IS=min IE=max ITERations=1";tr 51
```

```
M=TTL_FN_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 141 more memories to test.";echo "tr 51 M=TX_INITIAL_PROT_GROUP_TABLE IS=min
IE=max ITERations=1";tr 51 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 140 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM
IS=min IE=max ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 139 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM
IS=min IE=max ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 138 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1
IS=min IE=max ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1 IS=min IE=max
ITERations=1;echo "done";
echo "there are 137 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET IS=min IE=max ITERations=1";tr
51 M=FP_UDF_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 136 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_OFFSET_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 135 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_OFFSET_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_OFFSET_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_OFFSET_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 51 M=FP_UDF_TCAM IS=min IE=max ITERations=1";tr 51
M=FP_UDF_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 51 M=FP_UDF_TCAM_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 51 M=FP_UDF_TCAM_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 51 M=FP_UDF_TCAM_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 51 M=FP_UDF_TCAM_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=FP_UDF_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=max
ITERations=1";tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min
IE=max ITERations=1";tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 125 more memories to test.";echo "tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min
IE=max ITERations=1";tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 124 more memories to test.";echo "tr 51 M=VFI IS=min IE=max ITERations=1";tr 51 M=VFI
IS=min IE=max ITERations=1;echo "done";
echo "there are 123 more memories to test.";echo "tr 51 M=VFI_1 IS=min IE=max ITERations=1";tr 51 M=VFI_1
IS=min IE=max ITERations=1;echo "done";
echo "there are 122 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 121 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 120 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 118 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 51 M=VFP_TCAM IS=min IE=max ITERations=1";tr 51
M=VFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 51 M=VFP_TCAM_PIPE0 IS=min IE=max ITERations=1";tr
51 M=VFP_TCAM_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 51 M=VFP_TCAM_PIPE1 IS=min IE=max ITERations=1";tr
51 M=VFP_TCAM_PIPE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 112 more memories to test.";echo "tr 51 M=VFP_TCAM_PIPE2 IS=min IE=max ITERations=1";tr
51 M=VFP_TCAM_PIPE2 IS=min IE=max ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 51 M=VFP_TCAM_PIPE3 IS=min IE=max ITERations=1";tr
51 M=VFP_TCAM_PIPE3 IS=min IE=max ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 51 M=VLAN_TAB IS=min IE=max ITERations=1";tr 51
M=VLAN_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 51 M=VLAN_2_TAB IS=min IE=max ITERations=1";tr 51
M=VLAN_2_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 51 M=VLAN_MAC IS=min IE=max ITERations=1";tr 51
M=VLAN_MAC IS=min IE=max ITERations=1;echo "done";
echo "there are 107 more memories to test.";echo "tr 51 M=VLAN_MPLS IS=min IE=max ITERations=1";tr 51
M=VLAN_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 51 M=VLAN_PROFILE_TAB IS=min IE=max
ITERations=1";tr 51 M=VLAN_PROFILE_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 51 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1";tr
51 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL IS=min IE=max ITERations=1";tr
51 M=VLAN_PROTOCOL IS=min IE=max ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max
ITERations=1";tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 51 M=STG_TAB IS=min IE=max ITERations=1";tr 51
M=STG_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 51 M=VLAN_SUBNET IS=min IE=max ITERations=1";tr 51
M=VLAN_SUBNET IS=min IE=max ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max
ITERations=1";tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 51 M=VLAN_XLATE IS=min IE=max ITERations=1";tr 51
```

```
M=VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 51 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1";tr
51 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 51 M=VLAN_XLATE_LP IS=min IE=max ITERations=1";tr
51 M=VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 51 M=VRF IS=min IE=max ITERations=1";tr 51 M=VRF
IS=min IE=max ITERations=1;echo "done";
#echo "there are 94 more memories to test.";echo "tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 93  more memories to test.';echo 'tr 51 M=EDB_1DBG_B IS=min IE=max ITERations=1';tr 51
M=EDB_1DBG_B IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 92  more memories to test.';echo 'tr 51 M=LINK_STATUS IS=min IE=max ITERations=1';tr 51
M=LINK_STATUS IS=min IE=max ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 91 more memories to test.';echo 'tr 51 M=DLB_ECMP_PORT_STATE IS=min IE=max
ITERations=1';tr 51 M=DLB_ECMP_PORT_STATE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 90 more memories to test.';echo 'tr 51 M=DLB_HGT_LAG_PORT_STATE IS=min IE=max
ITERations=1';tr 51 M=DLB_HGT_LAG_PORT_STATE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 89 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=max
ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 88 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS IS=min IE=max
ITERations=1';tr 51 M=EGR_MMU_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 87 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS IS=min IE=max
ITERations=1';tr 51 M=EGR_PORT_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 86 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 85 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0 IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 84 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1 IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 83 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2 IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 82 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3 IS=min IE=max
ITERations=1;echo 'done';
#---------------------------- VENDOR memories-----------------------------------------------------------------
#echo 'there are 81 more memories to test.';echo 'tr 51 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 80 more memories to test.';echo 'tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 79 more memories to test.';echo 'tr 51
```

M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 78 more memories to test.';echo 'tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 77 more memories to test.';echo 'tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 76 more memories to test.';echo 'tr 51 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1';tr 51 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 75 more memories to test.';echo 'tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 74 more memories to test.';echo 'tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 73 more memories to test.';echo 'tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 72 more memories to test.';echo 'tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 71 more memories to test.';echo 'tr 51 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1';tr 51 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 70 more memories to test.';echo 'tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 69 more memories to test.';echo 'tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 68 more memories to test.';echo 'tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 67 more memories to test.';echo 'tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 66 more memories to test.';echo 'tr 51 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1';tr 51 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 65 more memories to test.';echo 'tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 64 more memories to test.';echo 'tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 63 more memories to test.';echo 'tr 51

M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 62 more memories to test.';echo 'tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 61 more memories to test.';echo 'tr 51 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 60 more memories to test.';echo 'tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 59 more memories to test.';echo 'tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 58 more memories to test.';echo 'tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 57 more memories to test.';echo 'tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 56 more memories to test.';echo 'tr 51 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 55 more memories to test.';echo 'tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 54 more memories to test.';echo 'tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 53 more memories to test.';echo 'tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 52 more memories to test.';echo 'tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 51 more memories to test.';echo 'tr 51 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 50 more memories to test.';echo 'tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 49 more memories to test.';echo 'tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 48 more memories to test.';echo 'tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 47 more memories to test.';echo 'tr 51

M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 46 more memories to test.';echo 'tr 51 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 45 more memories to test.';echo 'tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 44 more memories to test.';echo 'tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 51 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 39 more memories to test.';echo 'tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 51 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 51 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS

```
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 28 more memories to test.';echo 'tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 51 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 51 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 51 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 51
```

M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 51
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1';tr 51
M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min
IE=max ITERations=1';tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2 IS=min
IE=max ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3
IS=min IE=max ITERations=1';tr 51 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3 IS=min
IE=max ITERations=1;echo 'done';

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/rc/tr51_bcm56970_a0.soc
No license file was found, but licenses were detected in source scan.

/*

* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
****
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;

OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmrangemgr_refapp3.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp3/nlmrangemgr_refapp3.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_learn_data_rebuild.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_learn_data_rebuild.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_polaris_setup.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Configuration examples for:
*
* 2xScorpion+4xSirius+2xPolaris
* 1xScorpion+2xSirius+1xPolaris
*
* The script includes Polaris configuration only.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/cint_polaris_setup.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: tomahawk_efp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_efp.c
* Purpose: Maintains all the debug information for efp
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/tomahawk_efp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ofp_rates.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    access_pack.c
* Purpose: Miscellaneous routine for device db access
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/access_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: IeeeAlarmProcess.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     IeeeAlarmProcess.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/IeeeAlarmProcess.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk.c,v 1.1.10.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: traffic.c,v 1.116 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS/StrataSwitch Traffic Generator aka. "Traffic, Traf-Test, Snake, etc."
*
* Switching API Stress Test using A/B Ethernet port pairs as
* load generators. Different from Snake test in that packet flow
* is between a source and sink port pair (A/B).
*
* When stress-testing XGS/StrataSwitch devices, usually, one will require
* a SmartBits (TM) or IXIA (TM) network testing device to spray
* frames to all of the ports and make them switch at line rate.
*
* The purpose of this test is to configure a pair of ports as
* transmitters and receivers while the switch ASIC is configured to only
* forward a frame between these two port pairs.
*
* The CPU then injects a frame into the port pairs going one
* direction or the other (or bidirectional), and the packet loops
* forever between the port pairs until the H/W fails, or the user
* stops the test. Typically, this happens at layer 2, using unicast,
* broadcast, multicast, or VLAN traffic, however extensions for layer3
* and higher (via the FFP) are possible.
*
* When testing, a "golden" switch (one known to be free of H/W bugs)
* is stress tested and the result is that the port-pairs should
* forward the frame forever. Failure for the ASIC to do so indicates
* faulty hardware and the problem should be investigated and
* debugged.  An interesting feature of the XGS/StrataSwitch family of
```

```
* devices is that they should forward traffic at line rate for all
* layers of the test (e.g. MAC, PHY, Wire at 10Mbps, 100Mbps, 1Gbps, etc).
*
* In addition, this test allows the switch hardware to be used to
* test itself, without the cost of a SmartBits or IXIA testing device
* per switch; moreover, this speeds up testing as any switch which
* passes this traffic test is known to pass a forwarding test between
* two theoretical hosts.
*
*
* MAC/PHY (Broadcast Test)
*
*     In the MAC or PHY tests, a VLAN is created with each port pair
*     (A/B) as a member. The PVLAN table reflects the same VLAN ID
*     and an untagged packet is sent out the port (with the ports in
*     loopback) with the matching VLAN. As the packet ingresses into
*     the switch, a DLF occurs, and the resulting unknown unicast or
*     broadcast frame floods the VLAN, and packets swirl between
*     ports A/B at line rate.
*
*     For example, assuming two ports A(ge0), and B (ge1):
*
*     vlan create 10 PBM=portA,portB UBM=portA,portB
*     pvlan set portA VIDA
*     pvlan set portB VIDA
*
*     tx 1 PBM=portA UBM=portA L=68 VL=10 P=0x12345678 PI=1 \
*     SM=00:00:00:00:00:02 SMI=0 DM=ff:ff:ff:ff:ff:ff DMI=0 \
*     COS=0 CRC=Recompute
*
*     tx 1 PBM=portB UBM=portB L=68 VL=10 P=0x12345678 PI=1 \
*     SM=00:00:00:00:00:02 SMI=0 DM=ff:ff:ff:ff:ff:ff DMI=0 \
*     COS=0 CRC=Recompute
*
*
* External (Unicast Test)
*
*     In external test mode, a VLAN is created for each port (A/B)
*     and both ports are in the tagged and untagged bitmaps. Next,
*     the PVLAN table is setup with a unique vlan for both A and B.
*     Finally, an L2 address is setup for each port in the ARL with a
*     MAC address (of the port), however, the VLAN entry points to
*     the opposite port, so that when a packet comes back in the link
*     partner's port, it gets retagged with a VLAN which will flood
*     it to the originator.
*
*     For example, assuming two ports A(ge0), and B (ge1):
*
```

```
*     vlan create A PBM=portA,portB UBM=portA,portB
*     vlan create B PBM=portA,portB UBM=portA,portB
*     pvlan set portA A
*     pvlan set portB B
*
*     l2 add PBM=portA MAC=00:00:00:00:00:portA V=B ST=T
*     l2 add PBM=portB MAC=00:00:00:00:00:portB V=A ST=T
*
*     tx 1 PBM=portB UBM=portB L=68 VL=A P=0x12345678 PI=1 \
*     SM=00:00:00:00:00:portA SMI=0 DM=00:00:00:00:00:portB \
*     DMI=0 COS=0 CRC=Recompute
*
*     tx 1 PBM=portA UBM=portA L=68 VL=B P=0x12345678 PI=1 \
*     SM=00:00:00:00:00:portB SMI=0 DM=00:00:00:00:00:portA \
*     DMI=0 COS=0 CRC=Recompute
*
*  General
*
*    Both ports are setup to transmit and receive a packet (full-duplex)
*    by default.
*
*    The test runs forever, looping and reporting statistics until it
*    detects that a packet is lost, at which point an error is
*    reported and relevant statistics from the MAC or PHY are reported.
*
*    In general, when bringing up new switch hardware, one should start by
*    testing at the MAC layer, then moving to the PHY layer, and
*    finally, externally, by connected each port pair to it's
*    neighbor (1-2, 3-4, etc).
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/traffic.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dnx_sand_exact_match_hash.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_exact_match_hash.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfFabBm9600NmPortsetLinkEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmPortsetLinkEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_desc.i
* Purpose:     Register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_desc.i
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_DINO.
* This file provides all basic definitions required to program the BCMI_DINO.
*
* This file is autogenerated. Please do not edit.
*
*******************************************************************************/
/*******************************************************************************
* CHIP:  BCMI_DINO
* REGISTER:  CL73_BAMCTL1
* BLOCKS:   CL73_USER_BLK0
```

```
* REGADDR:  0xc372
* DEVAD:    7
* DESC:     Clause 73 BAM control 1
* RESETVAL: 0x6000 (24576)
* ACCESS:   R/W
* FIELDS:
*     UD_CODE_FIELD_41_32 BAM73's User-defined  Code Field bits [41:32], I.e. UD_code_field[41:32]
*     CL73_HPEN        Enables third party proprietary mode
*     CL73_BAM_TEST_MP5_HALT_STEP CL73_bam_test_MP5_halt_step
*     CL73_BAM_TEST_MP5_HALT_EN CL73_bam_test_MP5_halt_en
*     CL73_BAMNP_AFTER_BP_EN Enables STA to send BAM73 NPs immediately after BP; otherwise send
BAM73 NPs following software NPs
*     CL73_BAM_STATION_MNGR_EN BAM73 Station Manager enable
*     CL73_BAMEN       Clause73 BAM73 AN enable
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/bcmi_dino_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_sla.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_sla.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaRandomNumGenEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaRandomNumGenEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM43XX PCIE core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* $Id: pcie_core.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/pcie_core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bbase_types.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bbase_types.h
No license file was found, but licenses were detected in source scan.

```
/*
* VxWorks 5.x END OS Layer
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: vx_osl.c,v 1.5 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/vx_osl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpCounterConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpCounterConsole.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
```

```
#
# Script to get the standardized and critical information about the chip

local done 'echo "   Done"'

#Show the current list of attached devices
echo "List of attached devices"
a
$done

#Show current firmware version and build status
echo "Current firmware version and build status"
version
$done

#Show the current config variables
echo "Current config variables"
config show
$done

#Display the counter values
echo "Counter values"
show counters
$done

#Displays the linkscan status for all ports.
echo "Linkscan status"
linkscan
$done

#Display  about info about port status
echo "Port status info"
ps
$done

#Show the tree for the LLS port
echo "LLS tree info"
lls
$done

#Show the tree for the HSP port
echo "HSP tree info"
hsp
$done

#Print internal SOC driver control information
echo "SOC driver information"
soc
```

```
$done

#Display the Field Processor information
echo "FP information"
fp show
$done

#Show the port mapping information
echo "Port map information"
show pmap
$done

#Show the PHY information of the ports
echo "PHY information"
phy info
$done

#Show the Chip parameters
echo "Chip parameters"
show params
$done

#Show enabled features for the unit
echo "Features enabled on the unit"
show features
$done

#Dump the PCI Config space
echo "Dumping the  PCI config to the file"
dump file=pcic.dump pcic
$done

#Dump the CMIC PCI registers
#echo "Dumping the CMIC PCI registers to the file"
#dump file=pcim.dump pcim
#$done
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm_diag_info.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    subport.c
```

```
* Purpose: Katana2 SUBPORT functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.186 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
* Purpose:    Provide low-level access to Triumph VLAN resources
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchSumEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchSumEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fe3200_mbcm.c
* Purpose:    Init the bcm multiplexing function table for FE3200
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_koi_internal.c                                   *
*  Created On    :  13/02/2014                                              *
*  Created By    :  Justin Gaither                                          *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: merlin_koi_internal.c 1062 2015-06-02 22:12:41Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbconfig.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom SiliconBackplane hardware register definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbconfig.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_egr_queuing.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_egr_queuing.c

No license file was found, but licenses were detected in source scan.

/* $Id: arad_api_fabric.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_fabric.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trill.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Trill
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/trill.h
No license file was found, but licenses were detected in source scan.

/*

* $Id: fabric.c,v 1.96 Broadcom SDK $

*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_dnx-B COSQ
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/fabric.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_sweept20_api.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/dpp/UserInterface/ui_rom_defi_sweept20_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ssr.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ssr.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ssr.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_acl.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_acl.h
*
* MODULE PREFIX:  soc_ppd_api_acl
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_acl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius.h,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SIRIUS (BCM83200) SOC Initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sirius.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_flexible_hashing.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_flexible_hashing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaSysportMapEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaSysportMapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom Gigabit Ethernet MAC (Unimac) core.
*
* This file implements the chip-specific routines for the GMAC core.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etcgmac.c,v 1.17 Broadcom SDK $
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etcgmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000Pm.h,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000Pm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STG definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/stg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_chip_defines.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_chip_defines.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: switch.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Broadcom QE2000 Switch API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/switch.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_TSCE16_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tsce16_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF INTERRUPT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_interrupt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tk3715.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/tk3715.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.17 2014/05/11 15:07:11 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lm63.c v1 2015/07/28 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Texas Instruments LM63
* The LM63 is a Remote Diode Digital Temperature Sensor with Integrated Fan
* Control temperature sensor with an I2C bus interface. The host can query
* the LM63 at any time to read the temperature. For more information,
* see the Texas Instruments LM63 Datasheet.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/lm63.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_l2_fast_flush.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_fast_flush.c
* Purpose: Example for using L2 Ring protection Fast Flush APIs with an
*          optional ERP configuration.
*
* Usage:
* cint examples/dpp/utility/cint_utils_vlan.c;
* cint examples/dpp/cint_port_tpid.c;
* cint examples/dpp/cint_l2_mact.c;
* cint examples/dpp/cint_multi_device_utils.c
```

```
* cint examples/dpp/cint_advanced_vlan_translation_mode.c
* cint examples/dpp/cint_vswitch_metro_mp.c;
* cint examples/dpp/cint_l2_fast_flush.c;
* cint examples/dpp/cint_advanced_vlan_translation_mode.c
* cint;
* int rv;
* rv = create_ring_protection_groups(<unit>, <port>, <erp_mode>);
*
* This cint uses cint_vswitch_metro_mp.c to build the following vswitch
* with all three ports are configured on the same port - <port>.
* The functions support an ERP mode in which relevant ERP configurations
* and ERP Blocking/Unblocking operations. The ERP mode is set when the erp_mode parameter should be
* erp_mode parameter is set to '1'.
*
*  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
* |                                                |
* |              o  \                    o                |
* |               \  \<4,8>        <10,20>/  /                  |
* |              /\ \  \   -----------    /  /                  |
* |               \  \ \/ /  \   /\   \  /  / /\                |
* |           <40,80>\  \  |    \  /     |\/ /  /                  |
* |                \  \ |     \/      |  /  /<30,60>              |
* |                  p3\|     /\      | /  /                  |
* |                    |    /  \     |/p1                    |
* |                   /|   \/   \    |                       |
* |                  /  \  VSwitch  /                        |
* |               /\  /p2  -----------                        |
* |            <5,2>/  /  /                                   |
* |               /  /  /<3,6>                                |
* |              /  /  /                                      |
* |               /  \/                                       |
* |               o                                           |
* |                                                           |
*  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
*  Step 1:
*     Create Ring Protection groups - create_ring_protection_groups()
*     The default setting will be create the following two
*     Ring Protection groups:
*         1. ring_group_1 - Includes p1 & p2.
*         2. ring_group_2 - Includes p3 only.
*     Example:
*         create_ring_protection_groups(<unit number>, <local port number>, <erp_mode>);
*
*     Calling sequence:
*         1. Create vswitch with vlan-ports as described in cint_vswitch_metro_mp.c.
*         2. Call bcm_failover_create() in order to create each Ring Protection group.
*         3. Call bcm_port_class_set() to associate a vlan-port to a Ring group.
```

```
*        4. In ERP mode: Create an ERP group - erp_group_create (bcm_failover_create)
*        5. In ERP mode: Associate the vlan-ports to the ERP groups (bcm_vlan_port_create update).
*
*     Result: After the Ring groups are configured a user can send packets
*             through the relevant ports (with different SAs):
*             1. P1 - OuterVlan = 10 (TPID - 0x8100); InnerVlan = 20 (TPID - 0x9100);
*             2. P2 - OuterVlan = 5; InnerVlan = 2;
*             3. P3 - OuterVlan = 4; InnerVlan = 8;
*
*             Then, the MAC table can be watched by applying "l2 show" or counted with "L2EntryCountGet"
*        Example:
*             L2EntryCountGet <unit number>
*
*             from the BCM shell. The forwarding will show:
*             1. P1 & P2 entries - GPORT (FEC) with the same MSBs as ring_group_1
*             2. P3 entries - GPORT (FEC) with the same MSBs as ring_group_2
*
*     Note: A user may configure any of the configured ports to any ring group
*           using the function set_port_to_ring(unit);
*
*
*  Step 2:
*     Move a port for from one group to another - set_port_to_ring();
*     The default setting will be to move p2 from ring_group_1 to ring_group_2:
*        set_port_to_ring(unit, g_gport[1], g_failover_id[1], erp_mode);
*     The example function could be used:
*        set_port_to_ring_example_1(<unit number erp_mode>);
*
*     Calling sequence:
*        1. Call bcm_port_class_set() to associate a vlan-port to a Ring group.
*        2. In ERP mode: Associate the vlan-ports to an ERP group (bcm_vlan_port_create).
*
*     Result: Moving a port from one group will effect the MAC table if we
*             resend the packet for the moved gport - g_gport[1] in the
*             default case. When applying "l2 show", the forwarding will show:
*             1. P1 entries - GPORT (FEC) with the same MSBs as ring_group_1
*             2. P2 & P3 entries - GPORT (FEC) with the same MSBs as ring_group_2
*
*
*  Step 3:
*     Perform Fast Flush for a Ring group - perform_fast_flush();
*     The default setting will be to perform the Fast Flush on Ring group
*     ring_group_2 by supplying a gport that is associated with the group:
*        perform_fast_flush(unit, g_gport[2]);
*     Calling sequence:
*        1. In ERP mode: Block the LIFs using erp_block
*           (bcm_failover_set & bcm_port_discard_set).
*        2. Call bcm_l2_replace() with the selected gport as a parameter
```

```
*         3. In ERP mode: Unblock the LIFs using erp_block
*
*     Result: The Fast Flush should remove the the entries from all the
*             gports that are associated with failover group that the
*             supplied gport belongs to.
*             In the default sequence, when applying "l2 show", the
*             forwarding will show:
*             1. Only P1 entries - GPORT (FEC) with the same MSBs as ring_group_1
*
*
*  Step 4:
*     Remove all ports from the Ring groups and removing the Ring groups -
*         remove_rings();
*     The default setting will be to remove p1 from ring_group_1 and
*     remove p2 & p3 from ring_group_2, before removing both Ring groups.
*
*     Calling sequence:
*         1. Call bcm_port_class_set() with the class id 0xFFFFFFFF in order
*            to de associate a gport from his failover group.
*         2. Call bcm_failover_destroy() to destroy a failover group.
*         3. In ERP mode: bcm_failover_destroy to destroy the ERP group
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_fast_flush.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.h,v 1.71 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.h
* Purpose:     L3 and MPLS internal definitions
*             specific to FE2000 BCM API implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/l3.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_twamp.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_twamp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_fcf.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_fcf.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_fcf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF STACK H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_stack.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_ocm_load_test1.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_ocm_load_test1.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_dino_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs for Serdes IPs ported over from DV                     *
*  Revision      :  $Id: merlin_dino_dv_functions.c 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_efp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_efp.c
* Purpose: Maintains all the debug information for efp
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/trident2_efp.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: sw_db.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/sw_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane MIPS core software interface.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndmips.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndmips.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: furia_ram_regs.h 451 2014-04-17 09:32:21Z binliu $
*
*  Broadcom Confidential/Proprietary.
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_ram_regs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_topology.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC TOPOLOGY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_topology.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: client_dispatch.h
* Purpose: client driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/client_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_h.i
* Purpose:    Independent memory descriptions.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_h.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy522x.c,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy522x.c
* Purpose:    Broadcom 522x phy driver
*       Supports 5218, 5220/5221, 5226, 5228, 5238, 5248
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy522x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/hal.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm2801pm_a0.c
* Purpose:     bcm2801pm_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm2801pm_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_general.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.h,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/vlan.h
No license file was found, but licenses were detected in source scan.

```
/* Copyright 1997,1998,1999 Motorola, Inc. All Rights Reserved */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/pciAutoConfigLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/pciAutoConfigLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/pciAutoConfigLib.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/pciAutoConfigLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/pciAutoConfigLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/pciAutoConfigLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: event.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     events.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/event.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod_cfg_seq.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/tePCSRegEnums.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56440_b0.c
* Purpose:     bcm56440_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56440_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_rif.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_rif.h
*
* MODULE PREFIX:  soc_ppc_rif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_rif.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
```

```
* $Id: tefmod_sc_defines.h, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_sc_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy53xxx.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy53xxx.h
* Purpose:    Fiber driver for 53xxx using internal QuadSerdes PHY.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy53xxx.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56334_a0.c
* Purpose:     bcm56334_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56334_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_z.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_z.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: stat.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom QE2000 Statistics API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.88.18.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       reg.c
* Purpose:    SBX commands for register access
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/reg.c

No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: oam.c,v 1.140 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_acceleration_advanced_features.c
* Purpose: Example of using OAM APIs specific for arad +
*
* Usage:
*
  cd
  cd ../../../../src/examples/dpp
  cint cint_port_tpid.c
  cint cint_l2_mact.c
  cint cint_vswitch_metro_mp.c
  cint utility/cint_utils_oam.c
  cint cint_oam_acceleration_advanced_features.c
  cint
  int unit=0;
  int port1=13,port2=14,port3=15;
  print oam_lm_dm_run_with_defaults(unit,port1,port2,port3);

*
* This cint uses cint_vswitch_metro_mp_single_vlan.c to build the following vswitch:
*  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
* |                                                |
* |              o  \                    o          |
* |                \  \<4>       <10,20>/  /                |
* |              /\ \  \   -----------    /  /                |
* |              \  \ \/ /  \   /\   \  /  / /\               |
* |             <40>\  \  |    \  /    |\/ /  /                |
* |                \  \ |    \/     | /  /<30>               |
* |                  p3\|    /\     | /  /                  |
* |                    |   /  \    |/p1                     |
* |                   /|   \/   \   |                       |
* |                  /  \  VSwitch  /                       |
* |              /\  /p2  -----------                        |
* |             <5>/  /  /                                  |
* |              /  /  /<3>                                 |
* |             /  /  /                                     |
* |              /  \/                                      |
* |              o                                          |
* |                                                         |
*  ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
```

```
*
* comments:
* 1) In order to prevent from OAMP send packets do: BCM.0> m OAMP_MODE_REGISTER
TRANSMIT_ENABLE=0
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_acceleration_advanced_features.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_cint_data.c,v 1.19 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hand-coded support for soc_dpp routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dpp_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************************
*****
*****************************************************************************************************
*****
*                                                                                                   *
*  Revision     :  $Id$ *
*                                                                                                   *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables              *
*                                                                                                   *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                      *
*  No portions of this material may be reproduced in any form without                        *
*  the written permission of:                                                                 *
*     Broadcom Corporation                                                                    *
*     5300 California Avenue                                                                  *
*     Irvine, CA  92617                                                                       *
*                                                                                                   *
*  All information contained in this document is Broadcom Corporation                        *
*  company private proprietary, and trade secret.                                            *
*                                                                                                   *
*****************************************************************************************************
```

```
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle_merlin_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/public/eagle_merlin_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: swap.pl,v 1.3 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# swap.pl
# SWAP the 32 bit words in the file. 1234 -> 4321
#

  ($#ARGV == 1) ||
  die "Usage: $0 <unswapped-file> <swapped-file>\n" .
      "\tThis utility swaps the 32-bit words in <unswapped-file>\n" .
      "\tand writes them into <swapped-file>.\n";

  my $in_file=shift;
  my $out_file=shift;

  print STDOUT "Converting ", $in_file, " to  ", $out_file, " ...";

  $RECSIZE = 1; # size of record, in bytes
  $recno   = 0;  # which record to update
  open(FH, "<$in_file") || die "can't read $in_file : $!";
  open(FHO, ">$out_file") || die "can't write $out_file : $!";

  binmode FH;
  binmode FHO;

  while ( ! eof(FH) ) {
      if (read(FH, $byte0, $RECSIZE) != $RECSIZE) {
          $byte0 = "\000";
      }
      if (read(FH, $byte1, $RECSIZE) != $RECSIZE) {
          $byte1 = "\000";
      }
      if (read(FH, $byte2, $RECSIZE) != $RECSIZE) {
          $byte2 = "\000";
```

```
    }
    if (read(FH, $byte3, $RECSIZE) != $RECSIZE) {
        $byte3 = "\000";
    }
    print FHO $byte3, $byte2 ,$byte1 ,$byte0 ;
  }
  close FH;
  close FHO;

  print STDOUT "  done\n";
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/swap.pl
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_fp_key.c,v 1.105 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_fp_key.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_z.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_z.i
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom Gigabit Ethernet MAC defines.
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etcgmac.h,v 1.5 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etcgmac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_ipsec.c,v 1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    qax_ipsec.c
* Purpose: Manages IPSec block
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_ipsec_stab.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-3x40g-3xhg42.bcm,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 3x40G setup
#

ddr3_auto_tune=0
load_firmware=2
#lrp_bypass=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_port.port3.0=clport0.xle.2.0:clport1.hg42.2.0
ucode_port.port2.0=clport0.xle.1.0:clport1.hg42.1.0
ucode_port.port1.0=clport0.xle.0.0:clport1.hg42.0.0
ucode_num_ports.0=3


#C3 1x100G Line side lane swap
xgxs_rx_lane_map_xe0=0x1032
xgxs_rx_lane_map_xe1=0x1032
```

```
xgxs_rx_lane_map_xe2=0x1032

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe2=0x3012

phy_xaui_rx_polarity_flip_xe0=0x0003
phy_xaui_rx_polarity_flip_xe1=0x000f
phy_xaui_rx_polarity_flip_xe2=0x000b

phy_xaui_tx_polarity_flip_xe0=0x000c
phy_xaui_tx_polarity_flip_xe1=0x000f
phy_xaui_tx_polarity_flip_xe2=0x0003


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_hg1=0x3210
xgxs_rx_lane_map_hg2=0x1032

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_hg1=0x3210
xgxs_tx_lane_map_hg2=0x1032


#C3 Fabric side no pority swap

#CXP to WC lane map
#mld_lane_swap_lane11_ce0=1
#mld_lane_swap_lane10_ce0=0
#mld_lane_swap_lane9_ce0=3
#mld_lane_swap_lane8_ce0=2
#mld_lane_swap_lane7_ce0=5
#mld_lane_swap_lane6_ce0=4
#mld_lane_swap_lane5_ce0=7
#mld_lane_swap_lane4_ce0=6
#mld_lane_swap_lane3_ce0=9
#mld_lane_swap_lane2_ce0=8
#mld_lane_swap_lane1_ce0=11
#mld_lane_swap_lane0_ce0=10

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
```

ext_tcam_rx_lane_swap=1

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383

ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-3x40g-3xhg42.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_656.c,v 1.0 2016/10/27
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-6.5.6 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/compat/compat_656.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l2cache.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: L2_CACHE APIs
*
* Purpose:
*     L2_CACHE API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_l2cache.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeThreshLutEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsAgeThreshLutEntryConsole.hx

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_QSGMIIE_SERDES.
* This file provides all basic definitions required to program the BCMI_QSGMIIE_SERDES.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_qsgmiie_serdes_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       regarrays.c
* Purpose:     Registers arrays.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/regarrays.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: phy8806x_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
```

```
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : phy8806x_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*-----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_petra_with_id.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tm_fap_with_id.c
* Purpose: Example script using WITH_ID flag in order
*          to initial config for 4 ports.
*
* An example of setting up a specific hierarchy (BCM_COSQ_GPORT_WITH_ID usage)
* The cint script overrides diag init cosq application (for those specific ports).
* There is no need to skip the cosq application.
*
* The following configuration is being set:
* 1. Create system port for local port 1-4.
* 2. Setting up hierarchy for those ports.
* 3. Set specific rates and max burst for the scheduler objects (0.5 Gbps).
*
* For detailed scheduled hierarchy see Negev UM document.
* The cint script is very much similiar to cint_tm_petra.c where the main change
* is by adding WITH_ID flag and giving a specific set of ids to the sceduling objects.
*
* Traffic example:
* Run traffic to system port 10.
* In order to set packet forwarding to system port 10, one needs to add suitable configuration.
* Please see Negev UM for more details about that.
* Expected results: For each port the maximum bandwidth is up to 0.5 GBps (as configured shaper).
*
* Enterance point:
```

```
* Main function is example_setup.
* Load the cint script, it calls automatically to example_setup();
*
* E2E Hierarchy being created,
* as follows:
*   ~~~
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmendian.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_hw_db.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OAM HW DB (MEP-DB, RMEP-DB, ...)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/oam_hw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pscan.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  mcs.c
* Purpose:  Micro Controller Subsystem Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/pscan.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_l.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/mcm/fields_l.i
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_vswitch_vpls_1plus1_protection.c
* Purpose: Example of Open Multi-Point VPLS service in which PWE works as 1+1 protection
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                     connect from access side.
* PWE: Virtual circuit attached to the service based on VC-label. Connect to the MPLS
*     network side.
*
* For this service, multiple logical ports can be attached where each logical port can be:
*
*
~~~
```

```
~~~
```

```
*  | +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ |
*  |            +~~~
```

```
* -   Port TPIDs setting:
*     -   For P2 set outer TPID to 0x8100 and inner TPID to 0x9100 (using cint_port_tpid.c).
*     -   For P1 set outer TPID to 0x8100 and no inner TPID (using cint_port_tpid.c).
* -   Set up MPLS tunnels. Refer to mpls_tunnels_config().
*     -   Set MPLS L2 termination (on ingress).
*         -   MPLS packets arriving with DA 00:00:00:00:00:11 and VID 100 causes L2 termination.
*         -   Calls bcm_l2_tunnel_add().
*     -   Add pop entries to MPLS switch.
*         -   MPLS packet arriving from the MPLS network side with labels 1000 or 1002 the label/s
*             are popped (refer to mpls_add_pop_entry).
*         -   The same applies to MPLS packets arriving from the MPLS network side
*             with labels 400 or 300.
*         -   Calls bcm_mpls_tunnel_switch_create().
*         -   Create MPLS L3 interface (on egress).
*         -   Packet routed to this L3 interface is set with this MAC.
*         -   Calls bcm_l3_intf_create().
*     -   Create MPLs tunnels over the created l3 interface.
*         -   Packet routed to above interface is tunneled into MPLS tunnels. Where labels set to
*             1000 and 1002, respectively.
*         -   Calls bcm_mpls_tunnel_initiator_create().
*     -   Create egress object points to the above l3-interface.
*         -   Packet routed to this egress-object is forwarded to P1 tunneled with above MPLS tunnels
*             and with the L3-interface VID and MAC.
*         -   Calls bcm_l3_egress_create().
* -   Create multipoint VSI #6202 (refer to mpls_port__vswitch_vpls_vpn_create__set).
*     -   calling bcm_mpls_vpn_id_create().
*         -   You has to supply VPN ID and multicast groups. For this purpose, the following flags have
*             to be present BCM_MPLS_VPN_VPLS|BCM_MPLS_VPN_WITH_ID.
*         Note that uc/mc/bc group have the same value as VSI. Another option is to set uc_group = VSI,
*         and mc = uc + 4k, and bc = mc + 4k.
*     -   Use open_egress_mc_group() to open multicast group for flooding.
*         -   Multicast group ID is equal to VPN ID.
* -   Add MPLS-ports to the VSI.
*     -   vswitch_vpls_add_access_port_1/2 creates attachment circuit and add them to the Vswitch and
*         update the Multicast group.
*     -   create faillover with type BCM_FAILOVER_INGRESS
*     -   create multicast group 6021,
*     -   vswitch_vpls_add_network_port_1/2 creates PWE and add them to the VSI and update the
*         multicast group, remember that setting the failover_mc_group as 6021, failover id as above failover
*     -  call multicast__mpls_port_add, adding 2 PWE ports into the group 6021.


* Traffic:
*  Flooding packets incoming from MPLS network from PWE1
*  this mac address should be learned with MC type destination
 *
* Sending to known DA
* -   Send Ethernet packet from any logical interface AC with known DA on VSI 6202
```

```
*      the packet will be forwarded to the MC group 6021 and replicated 2 copies to PWE1
*     and PWE 2.
* Sending from protection group
*  -   sending packet from PWE1, the packet should be forward to AC(unicast or flood)
       sending packet from PWE2, the packet should be dropped

*  -   do failover switch, and repeat above step, this packet should be dropped.
       sending packet from PWE2, the packet should be forward to AC
*
* To Activate Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_global.c
*   BCM> cint examples/dpp/utility/cint_utils_vlan.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
*      BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/utility/cint_utils_l2.c
*      BCM> cint examples/dpp/utility/cint_utils_l3.c
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*      BCM> cint examples/dpp/cint_qos.c
*      BCM> cint examples/dpp/cint_mpls_lsr.c
*      BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*      BCM> cint examples/dpp/cint_vswitch_vpls_1plus1_protection.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = vswitch_vpls_1plus1_protection_run_with_defaults_dvapi(unit, acP,pwP);
*
* Script adjustment:
*  User can adjust the following attribute of the application
*  -   vpn_id:            VPN id to create
*  -   ac_in_port:        accesss port: physical port connect to customer
*  -   pwe_in_port:       network port: physical port connect to MPLs network (for incoming packets)
*  -   pwe_out_port:      network port: physical port connect to MPLs network (for outgoing packets)
*  -   in_vc_label:       incomming VC label
*  -   eg_vc_label:       egress VC label
*  -   in_tunnel_label:   inner tunnel label
*  -   out_tunnel_label:  outer tunnel label
*  -   pwe_cw:            adding CW to all the PWEs
*  -   is_gal:            configure PW-ACH termination for BFD vccv Type 4 packets.
*  -   pwe_php:           No mpls tunnels for PWE interface
*                         Note: in this case VLAN must be valid in bcm_l3_egress_create in order to infer the l3 interface.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_vswitch_vpls_1plus1_protection.c
```

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_sorted_list.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* NAME:
*     dnx_sand_sorted_list_tests
* TYPE:
*   PROC
* DATE:
*   May 19 2015
* FUNCTION:
*     Tests the sorted list module
*
*INPUT:
*  DNX_SAND_DIRECT:
*    DNX_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  DNX_SAND_INDIRECT:
*    None.
*OUTPUT:
*  DNX_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  DNX_SAND_INDIRECT:
*    NON
*REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_sorted_list.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0BEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0BEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: cmd_api.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cmd_api.c
* Purpose: API mode handler
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/cmd_api.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trill.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW Trill API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trill.c
No license file was found, but licenses were detected in source scan.

/* $Id: bcm1250_sbprof.c,v 1.3 2011/07/21 16:14:43 yshtil Exp $
* Copyright (c) 2002
* Broadcom Corporation, Irvine, CA
*
* BROADCOM PROPRIETARY AND CONFIDENTIAL
*
* This software is furnished under a Broadcom license agreement
* and may only be used in accordance with and subject to the terms
* and conditions of such license.
*
* Author: Mark Vandevoorde
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250_sbprof.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gmac_common.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/gmac_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mact.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mact.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm5396_a0.c
* Purpose: bcm5396_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm5396_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_packet_queuing.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PHYMOD Shell Utility: SYMOPS
*
* These utility functions provide all of the symbolic
* register/memory encoding and decoding.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbols_iter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: timesync.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/timesync.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: traverse.h,v 1.2.10.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       traverse.h
* Purpose:    RLINK traverse client/server/control support functions
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/traverse.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmrangemgr.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmrangemgr/nlmrangemgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       error.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/error.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socend.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  socend.c
* Purpose:  Defines SOC device END driver for VxWorks.
*
*
*     If VLAN tag in tx packet, extract PRI and map to COS
*     Provide default COS for untagged packets
*     Determine IP packet snooping really required; remove if not
*     Determine reasonable "reason filter" for RX;
*       and/or provide filter callback on RX.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/socend.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       util.c
*
* Provides:
*     pcid_x2i
*     pcid_type_name
*
* Requires: types and memory type enumeration from verinet.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/util.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: falcon_furia_field_access.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_field_access.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_tm_fap_config_large_scheduling_scheme.c
* Purpose:     Example of E2E scheduler configuration where resource management is by SDK
*
* The example shows how to configure:
*     - Egress port scheduler with 2 HR's.
*     - 3 levels of Composite CL schedulers.
*     - CIR and EIR shaping.
*     - Independent WFQ
*
* Usage:
*     1. To setup the full TM hierarchy, call the following function from cint:
*        cint_tm_setup_full();
*
*     2. To change rate of an egress port:
*        cint_change_port_rate(unit,port_num,rate);
*
*     3. To change CIR/EIR rate of a SE:
*        cint_change_se_rate(unit,level,index,cir,eir);
*
*     4. To change weight of SE:
*        cint_change_se_weight(unit,level,index,eir_weight);
*
*     5. To change rate of a VOQ:
*        cint_change_vc_rate(unit,voq_bundle,cos,rate);
*
*     6. To change weight of VOQ:
*        cint_change_vc_weight(unit,voq_bundle,cos,eir_weight);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tm_fap_config_large_scheduling_scheme.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_chip_descriptors.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_chip_descriptors.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_chip_descriptors.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_dhrp.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_dhrp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    policer.c
* Purpose: Manages common POLICER functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/policer.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_pss.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_pss.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:l3.c,v 1.0 2013/6/28 09:05:00 Jianping Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the l3 intf and egress intf defintions for the MPLS operation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_functions.c                                  *
*  Created On    :  29/04/2013                                                *
*  Created By    :  Kiran Divakar                                             *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :  $Id: falcon_furia_functions.c 869 2015-01-23 00:24:44Z kirand $ *
*                                                                             *
*  $Copyright: (c) 2014 Broadcom Corporation                                  *
*  All Rights Reserved$                                                       *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_functions.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmx.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/bcmx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmDemandCfgDataEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmDemandCfgDataEntry.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* ====================================================================
* ==  sbG2Eplib.c - QE2000 Egress API for Guadalupe2k Ingress UCode
* ====================================================================
*
* WORKING REVISION: $Id: sbG2Eplib.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2Eplib.c
*
* ABSTRACT:
*
*     QE2000 Egress API for Guadalupe2k Ingress UCode
*
* LANGUAGE:
```

```
*
*     C
*
* AUTHORS:
*
*     Ning
*
* CREATION DATE:
*
*     15-April-2007
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbG2Eplib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.253 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
* Purpose: VLAN management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/vlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_tdm.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 STAT H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switchctl.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Switch Control commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/switchctl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision      :  $Id: eagle_phy_1_common.h 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                            *
*  Description   :  Defines and Enumerations required by Serdes APIs         *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_mpls_term.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_mpls_term.c
*
* MODULE PREFIX:  soc_ppc_mpls
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_mpls_term.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_srab.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X RoboSwitch utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/robo_srab.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module implement a dump functionality for the SW State infrastructure layer,
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_dump.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwPortRateEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwPortRateEntry.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwPortRateEntry.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: merlin_dino_common.h 1266 2015-11-20 13:18:43Z kirand $ *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_cell.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_cos.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_cos.c
* Purpose: Maintains all the debug information for cos
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/cos/trident2plus_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eav.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Ethernet AV related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/eav.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_metering.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_metering.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socintf.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       socintf.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/socintf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_xgs3.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_xgs3.c
* Purpose:     XGS3 Based SDK and Reference Design board programming
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_xgs3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_ptp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_ptp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_diag_utils.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       t3p1_diag_utils.c
* Purpose:     Caladan3 diag shell utilities
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_diag_utils.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
    dispatcher

File Name:
    disp_api.h

File Description:
  dispatcher api
$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 15/4/2001   Initial Creation

*****************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/flow/disp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueArrivalsEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueArrivalsEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbQe2000ElibDma.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000ElibDma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/dev.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_flow_control.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_flow_control.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: heap.h,v 1.3.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TAPS heap defines/interfaces
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/heap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
```

```
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/ddr34.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod_phyreg.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: Externization of all DPI functions needed by TSCMod.
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_phyreg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysNvRam.h,v 1.2 2011/07/21 16:14:38 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
```

```
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sysNvRam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Time - Broadcom Time BroadSync API - shared functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/time.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx/mcast.c
* Purpose: BCMX L2 Multicasting APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/include/shbde.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/kernel/linux_shbde.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/port_map.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/kernel/linux_shbde.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm9600_properties.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/shbde_mdio.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/shbde_pci.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/include/shbde_iproc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/include/shbde_mdio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/include/shbde_pci.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/vxworks/vxworks_shbde.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/shared/shbde_iproc.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_nif_recover.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_nif_recover.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/port_map.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/vxworks/vxworks_shbde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_rx.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON RX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ea_drv.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/ea_drv.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_sesto_field_access.c                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs to access Serdes IP Registers and Reg fields            *
*  Revision      :  $Id: merlin_sesto_field_access.c 661 2014-08-14 23:20:49Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_allocator.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: ALLOCATOR APIs
*
* Purpose:
```

```
*     ALLOCATOR API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_allocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmportable.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmportable.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON COSQ H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
*
```

```
* $Id: phymod_definitions.h,v 1.2.2.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Shell diagnostics of Phymod
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_diag.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Link module definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTableAddrConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableAddrConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpSlimVlanRecordConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaEpSlimVlanRecordConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_xmac.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Xmac Driver (10G MAC)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_xmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: voyager_service.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/voyager_service.h
No license file was found, but licenses were detected in source scan.

```
#$Copyright: (c) 2013 Broadcom Corporation All Rights Reserved.$
##$Id$

# Filename Make.local.56340
FEATURE_LIST=PTP CINT  L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU REGEX

BCM_PTL_SPT = 1
BCM_56340_A0 = 1

CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP

# workspace:system=56340
#deprecated
# linux36-user:system=56340    buildDir=systems/linux/user/iproc-3_6 cpu=iproc
# linux-user:system=56340    buildDir=systems/linux/user/iproc-3_14 cpu=iproc
# linux-user:system=56340 buildDir=systems/linux/user/gto cpu=GTO
# linux26wrs-user:system=56340 buildDir=systems/linux/user/gto-2_6 cpu=GTO
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/esw/Make.pkg.56340
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr_utils.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_utils.h
* Purpose:     Utils for resource allocation. Especially concerning multi core devices.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/alloc_mngr_utils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_reg_access.c 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_flows.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_flows.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.h,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cfp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dnxc_mem_cache.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement soc cache memories.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_mem_cache.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/configNet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/configNet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/configNet.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cache_mem_test.h,v 1.0 2014/08/14 MiryH Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/cache_mem_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: tmu.h,v 1.35.16.4 Broadcom SDK $
*
* TMU defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/tmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmPortBwCfgTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmPortBwCfgTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_stat.c,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 STAT
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiRawSpiReadEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEiRawSpiReadEntry.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm88750_board.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#Polarity configuration required for Broadcom BCM88750 board
config add pb_serdes_lane_swap_polarity_rx_10=1
config add pb_serdes_lane_swap_polarity_rx_29=1
config add pb_serdes_lane_swap_polarity_rx_31=1
config add pb_serdes_lane_swap_polarity_rx_45=1
config add pb_serdes_lane_swap_polarity_rx_47=1
config add pb_serdes_lane_swap_polarity_rx_61=1
config add pb_serdes_lane_swap_polarity_rx_63=1
config add pb_serdes_lane_swap_polarity_tx_0=1
config add pb_serdes_lane_swap_polarity_tx_1=1
config add pb_serdes_lane_swap_polarity_tx_2=1
config add pb_serdes_lane_swap_polarity_tx_3=1
config add pb_serdes_lane_swap_polarity_tx_4=1
config add pb_serdes_lane_swap_polarity_tx_6=1
config add pb_serdes_lane_swap_polarity_tx_7=1
config add pb_serdes_lane_swap_polarity_tx_8=1
config add pb_serdes_lane_swap_polarity_tx_10=1
config add pb_serdes_lane_swap_polarity_tx_11=1
config add pb_serdes_lane_swap_polarity_tx_16=1
config add pb_serdes_lane_swap_polarity_tx_17=1
config add pb_serdes_lane_swap_polarity_tx_18=1
config add pb_serdes_lane_swap_polarity_tx_19=1
config add pb_serdes_lane_swap_polarity_tx_20=1
config add pb_serdes_lane_swap_polarity_tx_21=1
config add pb_serdes_lane_swap_polarity_tx_22=1
```

```
config add pb_serdes_lane_swap_polarity_tx_23=1
config add pb_serdes_lane_swap_polarity_tx_24=1
config add pb_serdes_lane_swap_polarity_tx_25=1
config add pb_serdes_lane_swap_polarity_tx_26=1
config add pb_serdes_lane_swap_polarity_tx_27=1
config add pb_serdes_lane_swap_polarity_tx_32=1
config add pb_serdes_lane_swap_polarity_tx_33=1
config add pb_serdes_lane_swap_polarity_tx_35=1
config add pb_serdes_lane_swap_polarity_tx_36=1
config add pb_serdes_lane_swap_polarity_tx_37=1
config add pb_serdes_lane_swap_polarity_tx_38=1
config add pb_serdes_lane_swap_polarity_tx_39=1
config add pb_serdes_lane_swap_polarity_tx_40=1
config add pb_serdes_lane_swap_polarity_tx_41=1
config add pb_serdes_lane_swap_polarity_tx_43=1
config add pb_serdes_lane_swap_polarity_tx_46=1
config add pb_serdes_lane_swap_polarity_tx_48=1
config add pb_serdes_lane_swap_polarity_tx_49=1
config add pb_serdes_lane_swap_polarity_tx_50=1
config add pb_serdes_lane_swap_polarity_tx_51=1
config add pb_serdes_lane_swap_polarity_tx_52=1
config add pb_serdes_lane_swap_polarity_tx_53=1
config add pb_serdes_lane_swap_polarity_tx_54=1
config add pb_serdes_lane_swap_polarity_tx_55=1
config add pb_serdes_lane_swap_polarity_tx_56=1
config add pb_serdes_lane_swap_polarity_tx_57=1
config add pb_serdes_lane_swap_polarity_tx_58=1
config add pb_serdes_lane_swap_polarity_tx_59=1
config add pb_serdes_lane_swap_polarity_tx_72=1
config add pb_serdes_lane_swap_polarity_tx_73=1
config add pb_serdes_lane_swap_polarity_tx_74=1
config add pb_serdes_lane_swap_polarity_tx_75=1
config add pb_serdes_lane_swap_polarity_tx_104=1
config add pb_serdes_lane_swap_polarity_tx_105=1
config add pb_serdes_lane_swap_polarity_tx_106=1
config add pb_serdes_lane_swap_polarity_tx_107=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88750_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	tokenizer.h
```

```
* Purpose:     API mode tokenizer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/tokenizer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceEBSEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPoliceEBSEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_metro_mp.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*File: cint_vswitch_metro_mp.c
* Purpose: Example of Multipoint Metro Service, useable on one ARADs.
*
* In this service, you can attach more than two logical ports to the VSI.
* Packets are forwarded/flooded, based on the lookup in MAC table.
*
* Open multipoint service and attach logical ports to the service.
*
*  ~~~
```

```
* |                                                |
* |        +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+          |
* |        | Figure 12: Attach Logical Ports to Service |          |
* ~~~~~~~~~~~~~~~~~~~
```

```
*   | | DA | SA || TIPD1 | Prio | VID || TIPD2 | Prio | VID ||   Data   | |
*   | |    |    || 0x8100|      | 10  || 0x9100|      | 20  ||         | |
*   | +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+ |
*   |                                                                         |
*   |                +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                          |
*   |                | Figure 13: Flooded Packet |                            |
*   ~~~~~~~~~~~~~~~~~~~
```

```
*
*     * Instead of accepting only unit, the _run functions accept an array of units as first argument, and nof_units as second argument.
*     * Instead of accepting ports, the cint accepts system ports. To create system ports, call port_to_system_port with the unit number, and its local port.
*     * Please note that right now, all the delete and remove functions are not yet implemented to support multi device functionality.
*
* To Activate the cint on three devices, for example, Run:
*     BCM> cint examples/dpp/utility/cint_utils_vlan.c
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_l2_mact.c
*     BCM> cint examples/dpp/cint_multi_device_utils.c
*     BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*     BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*     BCM> cint
*     cint> int units[3] = {unit1, unit2, unit3};
*     cint> int sysport1, sysport2, sysport3;
*     cint> print port_to_system_port(unit1, port_1, &sysport1);
*     cint> print port_to_system_port(unit2, port_2, &sysport2);
*     cint> print port_to_system_port(unit3, port_3, &sysport3);
*     cint> vswitch_metro_mp_run_with_defaults_multi_device(units, 3, sysport_1, sysport_2, sysport_3);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_metro_mp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_action_dp_tc_qos Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_egr_action_dp_tc_qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rlink.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Remote Linkscan
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/rpc/rlink.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains internal definitions for switch module to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/switch.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56046sanity.soc,v$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Ranger+ BCM56046 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmhg     0x1fe00000
if $?BCM56046_B0 \
      'local pbmge     0x2;\
  local pbmxe  0x1ffe0; \
  local pbmport 0x001fe1ffe2'
if $?BCM56045_B0 \
      'local pbmge     0x2000000000; \
       local pbmxe        0x1ffe; \
       local pbmport 0x21ffe01ffe'

# Turn off Mem cache and Parity checks for mem tests
```

```
config add mem_cache_enable=0
config add parity_enable=0

if "expr !$bcm56640_3x40_2x42 + 0" \
        'local xlport0 1; local clport0 1; local clport1 1'
if "expr $bcm56640_3x40_2x42 + 0" \
        'local xlport0 1; local clport0 1; local clport1 1; local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1'

if "expr !$bcm56640_3x40_3x42 + 0" \
    'local xlport0 1; local clport0 1; local clport1 1; \
     local pbmhg    0x1ffe00000; \
     local pbmport 0x1fe1ffe2'
if $?BCM56045_B0 && !$bcm56640_3x40_3x42 \
    'local xlport0 1; local clport1 1; local xtport0 1; local xtport1 1; local xtport2 1; local xtport3 1; \
     local pbmhg    0x1ffe00000; \
     local pbmport 0x21ffe01ffe'

echo "testsuite: started: Ranger+ sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done
```

```
init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

ranger_plus_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
```

```
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 11 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=11G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 11 Gb/s all HG42 ports"
tr 19 PortBitMap=$pbmhg Speed=11G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done
```

```
echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=max
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=max
$done

date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off
```

```
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56045sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_counter.h,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_counter.h
* Purpose:     SBX Software Counter Collection module definitions for SIRIUS.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sirius_counter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpPortTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpPortTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: AlarmProcessIeee.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     AlarmProcessIeee.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ea/tk371x/AlarmProcessIeee.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MMU/Cosq soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph3/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: i2c.h
* Purpose: Implementation of I2C bus commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/i2c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linux-user-bde.c,v 1.105 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux User BDE User Library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/user/linux-user-bde.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
* Common internal definitions for BCM Linkscan module
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/link.h
No license file was found, but licenses were detected in source scan.

/* $Id: soc_jer2_jer2_jer2_tmcapi_egr_acl.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_egr_acl.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_oam_api.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_oam_api.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fe_gen_regs.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fe_gen_regs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/udf.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_diags.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_diags.c
* Purpose:     Sirius-specific diagnostics tests
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sirius_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: loop_dispatch.h
* Purpose: loop driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/loop_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.136 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Triumph3 L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/l3.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pmbus.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Device Driver for pmbus an integrated power control IC.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pmbus.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod_sc_lkup_table.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*----------------------------------------------------------------------
* Description: This file contains enums, elems and doxyten comments
* needed for SerDes Configuration programs.
*----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_diag.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_swp_petra.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_swp_petra.h
No license file was found, but licenses were detected in source scan.

```
/*
*  Routines to access SPROM and to parse SROM/CIS variables.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom.c,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmsrom.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_qual_vsi_profile_full_range Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_qual_vsi_profile_full_range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* CALADAN3 OAM API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/oam.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: eagle_merlin_api_uc_common.h 1187 2015-10-19 20:35:15Z kirand $ *
*                                                                                       *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: eagle2_tsc2pll_common.h 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes APIs        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                  *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEgressRankerEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEgressRankerEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.c
* Purpose:    Bidirectional Forwarding Detection APIs.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/bfd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    range.c
* Purpose: Manages RANGE_CHECKER (IFP_RANGE_CHECK)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84328.h,v 1.1 Broadcom SDK
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84328.h
* Purpose:    Phys Driver support for Broadcom 84328 40G phy
* Note:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84328.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_l3_src_bind.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_l3_src_bind.c
*
* MODULE PREFIX:  soc_ppc_src_bind
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_l3_src_bind.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.157 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       field.c
* Purpose:     BCM56624 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_reset.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_reset.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkXstpApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkXstpApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkXstpApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.19.74.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Sirius Statistics API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/stat.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_intr.c,v 1.87 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_intr_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_s.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_s.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_egr_queuing.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_egr_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_api_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_kaps_entry_mgmt.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_kaps_entry_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmcrc.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmcrc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3_exerciser_test1.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3_exerciser_test1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avs.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	avs.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/avs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/avs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.c,v 1.26 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Kernel Networking Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/knet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1AEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1AEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast for G2P3
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: traverse.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       traverse.c
* Purpose:    RLINK traverse server
*
* The RLINK traverse server provides a way for RPC clients to execute
* a BCM traverse API on an RPC server and receive callback data via
* the client's traverse function.
*
* The implementation of this server uses a RLINK based protocol where
* the RPC client issues a request and receives a reply from the
```

```
* traverse server.
*
* The traverse server only processes one traverse request at a time.
* The traverse API is executed on the server for the duration of the
* client execution, so any blockable resources that the server
* traverse requests will remain blocked for the entire duration.
*
* If a new traverse request is received while a traverse is
* executing, then that request is queued, and will be executed in order
* with any other outstanding teaverse requests.
*
* Traverse clients may have multiple traverses simultaneously.
*
* RLINK traverse protocol uses a standard RLINK message header
* (msg,type,unit) followed by a client-id and message data
* appropriate for the traverse message type.
*
* <msg><type><unit><c-id><s-id><msg-data>
*
* RLINK MSG: RLINK_MSG_TRAVERSE
*
* RLINK traverse message types
*
*   START  C>S <traverse-id><traverse-arguments>
*   NEXT   C>S <none>
*   QUIT   C>S <error-code><none>
*
*   ERROR  S>C <error-code>
*   MORE   S>C <error-code><cb-count><callback-arguments>
*   DONE   S>C <error-code><cb-count><callback-arguments>
*
* Protocol revision:
*   Delivered protocol message contents are fixed. If there needs to be
*   protocol extensions, then new message types are added.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/traverse.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
```

```
   permission of Broadcom Corporation.
*/
/*
* Generic Broadcom Home Networking Division (HND) DMA engine definitions.
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* $Id: hnddma.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hnddma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmFbLine.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmFbLine.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fifo_type.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FIFO TYPE
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/dfe_fifo_type.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_utils.c,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
```

```
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*      Utilities functions for other field modules
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: autoneg.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/autoneg.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                     *
*  Created On    :  18/09/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  Header file with Error Code enums                       *
*  Revision      :  $Id: srds_api_err_code.h 1078 2015-07-07 23:43:37Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/common/srds_api_err_code.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_ingress_packet_queuing.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field_flexible_QinQ_setup.c
* Purpose: Example of how to use Flexible QinQ in Ingress FP.
*
* When inserting a 5-tuple entry to TCAM with a specific Inlif value as an action, it is expected
* that frame with that 5-tuple parameters (SIP,DIP,protocol, Src L4 port , Dst L4 port) will classified to that Inlif.
* Vlan Editing commands for that Inlif will be performed.
*
* CINT Usage:
*
*  1. Run:
*      cint cint_field_flexible_qinq_example.c
*      cint
*      field_flexible_QinQ_example(int unit, bcm_port_t in_port, bcm_port_t out_port);
*
*  2. In order to verify send packet with 5-tuples (SIP,DIP,protocol, L4ports) as  in entry, from ingress port indicated in script.
*     Packet should be forwarded, and inner vlan should be added to single-tagged frames.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_flexible_qinq_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       lock.c
* Purpose:     SAL Global lock
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/lock.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3test.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       c3test.c
* Purpose:     Caladan3 Specific TR tests
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsLib.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/gto/mpc8548/vxworks-6.5/flashFsLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_cosq.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dfe/fe3200/fe3200_cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueByteAdjEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueByteAdjEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbx.bcm,v 1.44 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX systems.
# config-sbx.bcm
#

os=unix

# Maximum number of COSes
bcm_num_cos=8

# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# Maximum number of modules in the system (number of QEs)
num_modules=4

# Create queues on bcm init
diag_cosq_init=1

# The maximum number of consecutive timeslots a QE can hold
# priority for transmitting packets which cross timeslots.
hold_pri_num_timeslots=1

# Declare the fabric control ports on the BME (Unit 2)
#
#           +--- port (one based)
#           | +--- unit
#           | | +--- is SCI
#           | | |
```

```
#               v v v
# port_is_sci.port1.2=1
# this happens through sbx.soc

# By default, run in standalone mode
diag_chassis=0

# Logging can be pointed to a file:
#diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
qe_spi_0=14
qe_spi_1=14

# This property can be used to constrain the total number of lines
# allocated to an EI buffer in the QE.  This is occasionally
# necessary to ensure `balanced' EI allocation for the same port
# type spread across 2 buses.  For example a 20 x 1G + 1 x 10G
# configuration where the goal is to provide full bandwidth for
# either 20 x 1G or 10 x 1G + 1 x 10G requires this (assuming the 1 x
# 10G is on SPI bus 1):
# qe_spi_0_ei_lines.0=256

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
qe_spi_1_subport_speed.port13.0=10000

# Default microcode is G2P3
# Note that QE type needs to be set because RX reason codes are
# microcode dependent
#
# bcm88020_ucode.0=g2p3
# bcm88020_ucode.1=g2p3

# Default microcode for BCM88025 is c2_g2p3
# bcm88025_ucode.0=c2_g2p3
# bcm88025_ucode.1=c2_g2p3

# QE Egress Route header format
# Used to select the QE EP microcode on QE2K device
# 0 : C2-QE2K native G2P3 (default)
# 1 : C2-Sirius header format
# 2 : C2-QE2K-Sirius interop header format
qe_erh_type=0
```

```
# BCM88025 only:
# Turns on and off IPv4 capabilities (uni and mc).
# 0 = V4 off
# 1 = V4 on (default)
#l3_enable=1
#
# turn optimize on to enable device memory
# (singleton) optimization on l3 compiler
#l3_optimize=1

#v4uc_str_sel=1
#v4mc_str_sel=1

# This property must be present for ucode_port properties to be used
# Otherwise, a default front panel to ucode to system port mapping is used
#ucode_num_ports.1=1

# The FE-2000 ucode port property values have the form:
#       fport:sysport
# Where ports are of the form:
#       gex.y      GbE ports, x=0,1, y=0-11
#       xex.y      XG/HG ports, x=0,1, y=0
#       spix.y     SPI-4.2 ports, x=0-1, y=0-63
#       pcix       CPU port, x=0
#
# The `fport' is the front-side port, and the `sysport' is the
# system-side port.
# Most system configurations use a QE-2000 CPU port,
# so the PCI port is typically not mapped to a microcode port.
#
# Note that an attached QE-2000 SPI port mapping must be
# `synchronized' with the FE-2000 SPI port mapping to ensure
# consistent SPI port calendars.  If SPI training fails, this
# is typically because the FE & QE have different calendar
# lengths.
#
# Here is an example configuration with 4 front-side ports
#
#qe_spi_0.0=4
#qe_spi_1.0=0
#ucode_num_ports.1=4
#ucode_port.port1.1=ge0.0:spi0.0
#ucode_port.port2.1=xe0.0:spi0.1
#ucode_port.port3.1=spi1.0:spi0.2
#ucode_port.port4.1=pci0:spi0.3

# To map a microcode port to HG port
#ucode_port.port5.1=hg0:spi0.13
```

```
# Assign a port to an SWS packet buffer (0-1)
# The default assignment is usually correct unless the port
# configuration is heterogeneous AND contains ports that are not
# always used (e.g. a configuration of 1 x 10G + 20 x 1G supporting
# both 1 x 10G + 10 x 1G and 20 x 1G operating modes).  The bandwidth
# must be balanced across both SWS packet buffers to achieve 20G for
# minimum-sized packets.
#
#pb_select.port11.1=1

# FE PCI does not deliver an ERH on receive
rx_parse_erh.1=0

# Set these to indicate the FE-2000 wide memory ports are
# connected to 2 x18 RAMs.  Otherwise they are assumed to
# connect to 1 x 36 RAM
# Broadcom MetroCore FE-2000 reference design uses 2 x18 RAMs
wide_sram0_x18=1
wide_sram1_x18=1

# Needed for sbx diags.
# FE2k reference design uses 4M parts but are only addressable to 2M
# np, 4Mx18 will look like 2Mx36 (FE reads 36 bits (2x18) in one cycle)
# wp, 2(4Mx18) will look like 2Mx72 (FE reads 72 (2x36) bits in one cycle)
wp_addr_width=21
wp_data_width=36
np0_data_width=18
np0_addr_width=21
np1_data_width=18
np1_addr_width=21

# To have both XEs as HiGig use
# remove this line or pbmp_xport_xe 0x0
pbmp_xport_xe=0x3000000

# This is needed only for 12G HiGig
#xgxs_lcpll_12gbps=1

#can control which units should come up
#diag_unit_mask=0x1f
#qe_tme_mode=0
#bme_num_esets=128


# L2 Aging Cycles
# Sets the number of cycles in an L2 aging interval
# Value affects the number of entries to be processed in each
```

```
# L2 aging cycle, as follows:
#   - An aging interval runs aging at most 'Cycles' number of times
#   - In each cycle, at most 'N' entries are processed, where
#         N = L2TableSize / Cycles
#
# The default value of '1' indicates only 1 cycle in an L2 age interval,
# which results in processing all the L2 table at once.
#
#l2_age_cycles=1

# turn on OAM. Turns on PPE rules to detect incoming OAM packets.
oam_rx_enable=1
# Turns on bubble timer to start generating bubbles.
oam_tx_enable=1

#bcm88020_batch=0

sbx=1

#parameter to alloc resource for vpws vpn - SBX_GU2_USR_RES_LINE_VSI
sbx_vpws_vpn_low=0x4005
sbx_vpws_vpn_high=0x4010
#parameter to alloc resource for vpws vpn - SBX_GU2_USR_RES_FTE_MPLS
sbx_vpws_pw_gports_low=0x18019010
sbx_vpws_pw_gports_high=0x18019020

# for ss interop with qe2k without LCM, set to 0x3e.
# Our SVKs all use LCMs so set to 0
qe_grant_delay=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_tdm.c, v1 18/11/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_tdm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: phy84334.c,v 1.33 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84334.c
No license file was found, but licenses were detected in source scan.

/*

* $Id: stg.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: stg.c
* Purpose: Spanning tree group support
*
* Multiple spanning trees (MST) is supported on this chipset
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/stg.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_nif.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_nif.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_t20e_acc.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_t20e_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53134_b0.c
* Purpose: bcm53134_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53134_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_tables_h.stg,v 1.18 Broadcom SDK $"
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* g3p1_ppe_tables.h: Guadalupe2k V1.3 PPE table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_ppe_tables.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28.c,v 1.1.2.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/DRC/drc_combo28.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cmic.h,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cmic.h
* Purpose:     Maps out structures used for CMIC operations and
*              exports routines and constants.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cmic.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.75 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*  oam.c
*
* Purpose:
*  OAM implementation for Triumph3 family of devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiMemDataEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEiMemDataEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy522x.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54xx.h
```

```
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy522x.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type23.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type23.h
* Purpose:    Define dma control block (DCB) format for a type23 DCB
*             used by the 56640 (Triumph3/Firebolt4)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type23.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_sand_access.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_sand_access.c
* Purpose:    Diag shell direct access commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dm.c,v 1.23.14.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    dm.c
* Purpose: Caladan3 Direct Map table lookup libraries
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/dm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_buffers.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_buffers.c
* Purpose: Manages buffers diagnostics functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_buffers.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: physr.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       physr.h
* Purpose:     Basic defines for PHY specific data that gets pointed to
*             by phy_ctrl. The data gets allocated and freed outside the
*             driver.
* Note:        This header file is for PHY driver module. Should not include
*             this header file in SOC or BCM layers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/physr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv4Console.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv4Console.hx
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: AlarmProcessCtc.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     AlarmProcessCtc.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/AlarmProcessCtc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmPortBwCfgTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmPortBwCfgTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* Hardware-specific Receive Data Header for the
* Broadcom Home Networking Division
* BCM47XX GbE cores.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmgmacrxh.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmgmacrxh.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu_cint.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cmu_cint.c: Guadalupe2k V1.3 CMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/t3p1_cmu_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_top.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM top header for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/trident2p/tdm_td2p_top.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250JTAGSio.h,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250JTAGSio.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macipadr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       macipadr.c
* Purpose:
* Requires:
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/macipadr.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_d.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_d.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_swp_p_pp_api.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_swp_p_pp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_cb_func.c,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/interrupts/interrupt_handler_corr_act_func.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/interrupts/interrupt_handler_cb_func.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_ctrl.h,v 1.1.2.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phymod_port_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phymod_ctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: intr.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Interrupt controller task.
* This task emulates an interrupt handler and callout mechanism.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io_mmi1.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/io_mmi1.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_mirror.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_mirror.h
*
```

* MODULE PREFIX: soc_ppd_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_eg_mirror.h
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_2xhg10_1xil100.h,v 1.1.2.3 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_2xhg10_1xil100.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_csys.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_csys.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR1Wct1AEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1AEntry.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   dispatcher

File Name:
   disp_types.h

File Description:

$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 18/4/2001   Initial Creation

*****************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/flow/disp_types.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_SGMIIP2X4_SERDES.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_sgmiip2x4_serdes_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmfreeslotmgr.h,v 1.2.8.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmfreeslotmgr.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_fe1600_diag.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DEFS H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_diag.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dnxf_port.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FIFO DMA H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_fifo_dma.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_fap21v_gfa.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap21v_gfa.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: mbcm.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_mem.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC MEM
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_mem.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250JTAGSio.h,v 1.3 2011/07/21 16:14:48 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250JTAGSio.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_string.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_string.c
No license file was found, but licenses were detected in source scan.

```
# $Id:
# $Copyright: (c) 2012 Broadcom Corp.
# All Rights Reserved.$
#
# Spiral Memory Sanity
#
# Note:
# Since this is a subset of the  bcm56049 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

local xtport0 1;
local xlport0 1;
local xwport0 1; local xwport1 1; local xwport2 1;

echo "Spiral Memory sanity testsuite: started"
init soc
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';
```

```
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $xwport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xwport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'

local mem 'SVM_METER_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;

#local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP0'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP1'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP2'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP3'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP4'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP5'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP6'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP7'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP8'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP9'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP10'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP11'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP12'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP13'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP14'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP15'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP16'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP17'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP18'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP19'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP20'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP21'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP22'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP23'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP24'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP25'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP26'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP27'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP28'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP29'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP30'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_CHAR_REMAP31'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_DATA'; $name; $tr50;
#local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_MASK'; $name; $tr50;
#local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
#local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
#local mem 'AXP_SM_FLOW_TABLE_MEM'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM3'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_DATA'; $name; $tr50;
#local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_MASK'; $name; $tr50;
#local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
#local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
#local mem 'AXP_SM_MATCH_TABLE_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_TABLE_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_TABLE_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_MATCH_TABLE_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_PACKET_BUFFER_MEM'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_DATA'; $name; $tr50;
#local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_MASK'; $name; $tr50;
#local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_DATA'; $name; $tr50;
#local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_MASK'; $name; $tr50;
#local mem 'AXP_SM_STATE_TABLE_MEM0'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM1'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM2'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM3'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM4'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM5'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM6'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_SM_STATE_TABLE_MEM7'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WRX_WCD'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_DSCP_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_FRAG_ID'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_PRI_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr50; $tr51; $tr52;
#local mem 'AXP_WTX_TUNNEL'; $name; $tr50; $tr51; $tr52;

local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
#local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
#local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'FT_AGE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EOP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'FT_L4PORT'; $name; $tr50; $tr51; $tr52;
local mem 'FT_POLICY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FT_SESSION_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
#local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
#local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
#local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
```

```
#local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP'; $name; $tr50; $tr51; $tr52;
local mem 'LMEP_DA'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MAID_REDUCTION'; $name; $tr50; $tr51; $tr52;
local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'MA_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
#local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
# QCN_CNM_TIMER_TBL is commented out due to bench-screen issues
# local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
#local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
#local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
#local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'RMEP'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_OFFSET_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SVM_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
#local mem 'VRF'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
# Hx4 has no holes in FP/EFP/VFP TCAM. so these are tested.
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr50; $tr51; $tr52; - RO memory
local mem 'SER_MEMORY'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
```

```
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport2 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xtport3 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2;'
  if !"expr $xwport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xwport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xwport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'
  if !"expr $xwport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xwport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xwport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'
  if !"expr $xwport2 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xwport2"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xwport2"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xwport2"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'
  if !"expr $xlport0 + 0" \
```

```
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr71_1 c=16; $tr71_2 c=16;'

# Reverse SLAM problems: Place-holder
# Run the script on the memories and remove $tr71_3 for which ever memories
# have the Reverse SLAM issues

# Also, following is the complete list of memories in Spiral (copied from above.
# If a specific memory does not support SLAM DMA, then

local mem 'SVM_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP26'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'AXP_SM_CHAR_REMAP27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_CHAR_REMAP31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_FLOW_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_FLOW_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_FLOW_TABLE_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_COUNTERS_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_MATCH_TABLE_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_PACKET_BUFFER_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_SM_STATE_TABLE_MEM7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WRX_SVP_ASSIGNMENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WRX_WCD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_DSCP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_DVP_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_FRAG_ID'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_TRUNK_GROUP_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AXP_WTX_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_AGE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EOP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_L4PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_POLICY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;

# IBOD_xxx memories are not supported in TDMA. Explicit check prevents it.
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L2_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
local mem 'L2_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;

# For L3_ENTRY_X memories TR3 script seems to pass extra parameters - revisit
#local mem 'L3_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'LLS_L0_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L0_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_EF_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_HEADS_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L1_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_STATE1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_EMPTY_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_MIN_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_PARENT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_WERR_NEXT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_L2_XOFF'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_ERROR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_HEADS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_PARENT_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TAILS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr71_1; $tr71_2; $tr71_3;

#local mem 'LMEP'; $name; $tr71_1; $tr71_2; $tr71_3; <- pr=19665 - hw issue
local mem 'LMEP_DA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAID_REDUCTION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'AGING_CTR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'AGING_EXP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA0'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'CBPDATA1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA48'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'CBPDATA49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CBPDATA51'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLCHK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CELLLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_CFAP_BANK15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_COLOR_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_MC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'CTR_UC_DROP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'BASE_INDEX_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_MAP_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FC_ST_TBL2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MERGE_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OFFSET_MAP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PFC_ST_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'ST_TRANS_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_RVD_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TBID_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_TOV_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO3'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO6'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO7'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO8'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO9'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO10'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO11'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO12'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO13'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO14'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO15'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO16'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO17'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO18'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO19'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO20'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO21'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO22'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO23'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO24'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO25'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO26'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO27'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO28'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO29'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO30'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO31'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO32'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO33'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO34'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO35'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO36'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO37'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO38'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO39'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO40'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO41'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO42'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO43'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO44'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO45'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO46'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO47'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'MC_FIFO52'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO56'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO58'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO60'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO61'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO48_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO49_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO50_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO51_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO52_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO53_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO54_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO55_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO57_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MC_FIFO59_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK0_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK1_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK2_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_BANK3_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTHDR'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'PQE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'QCN_CPQST_QLEN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_CPQST_TSSLS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_QFBTB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'QCN_SITB'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_CFIFO_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_CFIFO_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_DESCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_FREELIST'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PKTLINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDE_PRCP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'REPL_HEAD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'IPMC_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'RDEHEADER'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'UCQ_WP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMULINK'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WAMU_MEM3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_QGROUP_DROP_THD'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RMEP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_MACROFLOW_INDEX_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_OFFSET_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SVM_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;

# MMU memories - Cannot be DMAed. 'tr 71' is skipped for these.
#local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_PG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CNTRS'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'THDI_PORT_SP_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#Additional Memories added in HX4 exclusively
#local mem 'SM'; $name; $tr71_1; $tr71_2; $tr71_3; - RO memory
local mem 'SER_MEMORY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VLAN_XLATE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
# Since this is a subset of the HX4 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/spiral_mem.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.h,v 1.48 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_vfp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    trident2plus_vfp.c
* Purpose: Maintains all the debug information for vfp
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vfp/trident2plus_vfp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_egress_threshold.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tucana.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tucana.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tucana.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dino8_service.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/dino8_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_oam_acc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_oam_acc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_lag.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_lag.h
*
* MODULE PREFIX:  soc_ppd_lag
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_lag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_acl.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_acl.h
*
* MODULE PREFIX:  soc_ppc_api_acl
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
```

* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_acl.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: example_cmd.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/example_cmd.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sirius_diags.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == sirius_diags.h - Sirius Diagnostics ==
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/sirius_diags.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: wb_db_tmu.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: wb_db_tmu.h
* Purpose: Caladan3 Packet Parsing Engine drivers Warm Boot support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/wb_db_tmu.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_oam.c,v 1.111 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_oam.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_oam.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: arad_cnm.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_cnm.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_ilm.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ilm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: triumph3.c,v 1.483 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: triumph3.c
* Purpose:
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/esw/triumph3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trie.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* trie data structure
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/trie.h
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: prbs_3p125g_6p25.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : prbs_3p125g_6p25.soc
# * Description: prbs_3p125g_6p25
# *-----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
local lane 0
phy raw sbus $port 0.0 0x9010 0x0000
sleep 1;

phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
```

```
phy raw sbus $port 0.$lane 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081

# osr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.$lane 0xd080 0x8001
phy raw sbus $port 1.$lane 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.$lane 0xd127 0x0002
phy raw sbus $port 1.$lane 0xd127

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.$lane 0xd0f4 0x2271
phy raw sbus $port 1.$lane 0xd0f4



# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.$lane 0x9000 0x6400
phy raw sbus $port 0.$lane 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


phy raw sbus $port 1.0 0xd0d1 0xb
phy raw sbus $port 1.0 0xd0e1 0xb
```

```
# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.$lane 0xc050 0x0003
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 0.0 0xc154 # pcs live link status

sleep 5
phy raw sbus $port 1.$lane 0xd0d9

#Activate Pkill
#phy raw sbus 0xb1 1.0 0xd0f2 0x4002
#phy raw sbus 0xb1 1.0 0xd083 0x000f

#Restart PLL
#phy raw sbus 0xb1 1.0 0xd124 0x280d
#phy raw sbus 0xb1 1.0 0xd124 0xa80d
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/prbs_3p125g_6p25.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemShapingEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemShapingEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_mymac.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_mymac.h
```

```
*
* MODULE PREFIX:  soc_ppc_mymac
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_mymac.h
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88470sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# QAX/QUX (BCM88470) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*

#Clear test statistics
tc *

#Display some useful information
date

##############################################################################

#Start Test
```

```
echo "Running tr 141"
tr 141 r=1
$done

echo 'Running tr 141 NoAttach=1';
tr 141 NoAttach=1;
echo '   Done';date


echo 'Running tr 141 ErrorOnLeak=1';
tr 141 ErrorOnLeak=1;
echo '   Done';date

echo 'Running: tr 141 NoInit=1 , than: tr 141 NoDenit=1';
tr 141 NoInit=1 NoAttach=1;
tr 141 NoDeinit=1 NoAttach=1;
echo '   Done';date

echo "Running tr 141 (warmboot)"
tr 141 repeat=1 Warmboot=1
$done

### CPU Packet (tr 40)
# Dont use fabric
tr 141; \
s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1

# Port 0 -> static forwarding to port 0exit
mod IHP_PINFO_LLR 0 1 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7; \
mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x40063
FWD_ACT_DESTINATION_OVERWRITE=1; \
s CMIC_CMC0_CH1_COS_CTRL_RX_0 0xffffffff; \
s CMIC_CMC0_CH1_COS_CTRL_RX_1 0xffffffff

echo 'Send packet (tr 40)...'; \
tr 40 Tagged=true LengthStart=128 LengthEnd=164 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:0c:00:01:00:00 MacSrc=00:00:00:e3:00:00 UseFile=false; \
echo '   Done';date;

echo 'Running PCI Compliance (tr 2)...'; \
tr 2; \
echo '   Done';date;

echo 'Running PCI S-Channel Buf (tr 4)...'; \
tr 4; \
echo '   Done';date;
```

```
echo 'Running Register read/write (tr 3)...'; \
tr 3 ; \
echo '   Done';date;

echo 'TR 30 ...'; \
tr 30; \
echo '   Done';date;

echo 'TR 31 ...'; \
tr 31; \
echo '   Done';date;



echo 'tr 60 ...'; \
tr 60; \
echo '   Done';date;

echo 'tr 50 m=EGQ_DSP_PTR_MAP ...'; \
tr 50 m=EGQ_DSP_PTR_MAP; \
echo '   Done';date;

echo 'tr 51 m=IHB_FWD_ACT_PROFILE, EGQ_PCT...'; \
tr 51 m=IHB_FWD_ACT_PROFILE; \
tr 51 m=EGQ_PCT; \
echo '   Done';date;

echo 'tr 52 m=IPS_QTYPE...'; \
tr 52 m=IPS_QTYPE; \
echo '   Done';date;

echo 'tr 71 m=EGQ_PPCT...'; \
tr 71 m=EGQ_PPCT; \
echo '   Done';date;

echo 'Memory R/W first & last test (tr 7)...'; \
tr 7; \
echo '   Done';date;

echo 'Memory flip flop test (tr 8)...'; \
tr 8; \
echo '   Done';date;

echo 'Running Register reset defaults (tr 1) ...'; \
tr 1; \
echo '   Done';date;

tr 141 NoPktRx=1; \
echo 'TX reload test(tr 90)...'; \
```

```
tr 90; \
echo '   Done';date;

echo 'RX reload test(tr 91)...'; \
tr 91; \
echo '   Done';date;

echo 'Packet receive test(tr 41)...'; \
tr 41; \
echo '   Done';date;

echo 'Dram bist test (tr 140)...';
tr 140 DramNdx=0xff AllAdress=1;
echo '   Done';date

#Start Cache Mem Test
echo "Running Cache Mem Tests "
tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0
tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0
tr 141
echo '   Done';date;

#Test ac-mp lif and tunnel termination lif learning information encoding
echo 'ac-mp lif and tunnel termination lif learning info encoding (tr 155)...'; \
tr 155; \
echo '   Done';date;

#ser test for all memories
echo 'ser test for all memories (tr 153)...'; \
tr 153 RunAll=1; \
echo '   Done';date;

#Test export dump
echo 'export dump (tr 156)...'; \
tr 156; \
echo '   Done';date;

##############################################################################

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88470sanity.soc

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_process.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_process.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassDmacMatchEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassDmacMatchEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54380.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy543xx.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
```

* $Id: vxbsp.h,v 1.3 2007/10/08 22:31:08 iakramov Exp $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/vxbsp.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_rx_mpls_tunnel_termination_forwarding_ttl0_1 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_mpls_tunnel_termination_forwarding_ttl0_1.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_tdm.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_tdm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: iproc.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* iProc support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/iproc.c
No license file was found, but licenses were detected in source scan.

/*
* $Id:l3.h,v 1.1 2013/6/28 09:05:00 Jianping Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the l3 intf and egress intf defintions for the MPLS operation
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/l3.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_field_access.h                                  *
*  Created On    :  29/04/2013                                               *
*  Created By    :  Kiran Divakar                                            *
*  Description   :  Serdes IP Register and Field access APIs                 *
*  Revision      :  *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkUtils.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     tkUtils.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkUtils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1WstEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1WstEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag tx (transmit) and rx (receive) commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/txrx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast_test.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in Self Test for ARL, L3, and CBP memories
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/multicast_test.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm12x10_xgs_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm12x10_xgs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/dnx_fabric_o_nif_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pmOsILKN_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x10.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm_qtc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_dispatch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/portmod_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x10td.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x25td_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm12x10_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm_qtc_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod_enums.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pmNull_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10Q_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/dnx_fabric_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/dnx_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/pemladrv_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x25td.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm12x10.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x2p5_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm8x50_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x10Q.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x25_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm8x50_fabric_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pmOsILKN.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10td_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x2p5.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x25.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pmNull.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/dnx_fabric_o_nif.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_SGMIIP2X4_SERDES.
* This file provides all basic definitions required to program the BCMI_SGMIIP2X4_SERDES.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_sgmiip2x4_serdes_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600FoLinkStateTableEntry.c,v 1.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600FoLinkStateTableEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_TIMNA.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_TIMNA.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_frwrd_trill.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_trill.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File: flexport_common.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/flexport/flexport_common.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: g3p1_dummy_ext.c,v 1.32.10.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_dummy_ext.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type38.h
* Purpose:    Define dma control block (DCB) format for a type38 DCB
*             used by the 56980 (Tomahawk 3)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type38.h
No license file was found, but licenses were detected in source scan.

```
# $Id: gsanity.soc,v 1.79 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run the correct variant of the sanity script on the
# current chip.
#
# To run the correct variant on ALL attached chips, run "*:gsanity".
#
# Runs:
# sanity.soc on StrataSwitch chips
# hsanity.soc on Hercules chips
# lsanity.soc on Lynx chips
# dsanity.soc on Draco chips
# tsanity.soc on Tucana/Magnum chips
#       fsanity.soc on Firebolt2/Firebolt/Helix chips
#       esanity.soc on Easyrider chips
#       bsanity.soc on Bradley/HUMV/Goldwing chips
#       rsanity.soc on Raptor/Raven chips
#       trsanity.soc on Triumph chips
#       hksanity.soc on Hawkeye/Hawkeye_EEE chips
#       ensanity.soc on Enduro chips
#       vsanity.soc on Valkyrie chips
#       scsanity.soc on Scorpion/HUMV+/Conqueror chips
#       tdsanity.soc on Trident/Titan chips
#       tr3_sanity.soc on Triumph3/Firebolt4 chips
```

```
#       td2sanity.soc on Trident2/Titan2 chips
#       td2p_sanity.soc on Trident2+ chip
#       apsanity.soc on Apache chip
#       th_sanity.soc on Tomahawk/Titan-hawk chips
#       th2_sanity.soc on Tomahawk2 chips
#       ghsanity.soc on Greyhound/Rager2 chips
#       hr3sanity.soc on Hurricane3 chips
#       sbxsanity.soc on SBX products
#       robosanity.soc on ROBO chips

echo "Display current config"
config show
echo "Display port status"
ps

if $?slc || $?gsl || $?sml || $?ul "local script sanity.soc"
if $?herc || $?herc15 "local script hsanity.soc"
if $?lynx || $?lynx15 "local script lsanity.soc"
if $?drac || $?drac15 "local script dsanity.soc"
if $?tucana || $?magnum "local script tsanity.soc"
if $?fbpoe || $?firebolt || $?helix || $?felix || $?helix15 || $?felix15 \
      "local script fsanity.soc"
if $?easyrider || $?easyrider10 "local script esanity.soc"
if $?bradley || $?humv || $?goldwing "local script bsanity.soc"
if $?raptor || $?raven "local script rsanity.soc"
if $?triumph "local script trsanity.soc"
if $?hawkeye || $?hawkeye_eee "local script hksanity.soc"
if $?enduro "local script ensanity.soc"
if $?hurricane "local script husanity.soc"
if $?hurricane2 "local script hu2sanity.soc"
if $?hurricane3 "local script hr3sanity.soc"
if $?greyhound "local script ghsanity.soc"
if $?valkyrie "local script vsanity.soc"
if $?scorpion || $?humvplus || $?conqueror "local script scsanity.soc"
if $?BCM56520_A0 || $?BCM56520_B0 "local script bcm56520sanity.soc"
if $?BCM56521_A0 || $?BCM56521_B0 "local script bcm56521sanity.soc"
if $?BCM56524_A0 || $?BCM56524_B0 || $?BCM56534_B0 "local script bcm56524sanity.soc"
if $?BCM56526_A0 || $?BCM56526_B0 "local script bcm56526sanity.soc"
if $?BCM56630_A0 || $?BCM56630_B0 "local script bcm56630sanity.soc"
if $?BCM56634_A0 || $?BCM56634_B0 "local script bcm56634sanity.soc"
if $?BCM56636_A0 || $?BCM56636_B0 "local script bcm56636sanity.soc"
if $?BCM56638_A0 || $?BCM56638_B0 "local script bcm56638sanity.soc"
if $?BCM56639_A0 || $?BCM56639_B0 "local script bcm56639sanity.soc"
if $?BCM56538_B0 "local script bcm56538sanity.soc"
if $?BCM56685_A0 || $?BCM56685_B0 "local script bcm56685sanity.soc"
if $?BCM56689_A0 || $?BCM56689_B0 "local script bcm56689sanity.soc"
if $?BCM56324_A0 || $?BCM56324_B0 "local script fsanity.soc"
if $?trident "local script tdsanity.soc"
```

```
if $?BCM56838_A0 || $?BCM56838_A1 || $?BCM56838_A2 "local script bcm56838sanity.soc"
if $?BCM56831_A0 || $?BCM56831_A1 || $?BCM56831_A2 "local script bcm56831sanity.soc"
if $?BCM56835_A0 || $?BCM56835_A1 || $?BCM56835_A2 "local script bcm56835sanity.soc"
if $?katana "local script ktsanity.soc"
if $?katana2 "local script kt2sanity.soc" "setenv run_full_sanity 1"
if $?saber2 "local script sb2sanity.soc" "setenv run_full_sanity 1"
if $?metrolite "local script metrolitesanity.soc"
if $?triumph3 "local script tr3_sanity.soc"
if $?BCM56640_A0 || $?BCM56640_A1 || $?BCM56640_B0 \
   "local script bcm56640sanity.soc"
if $?BCM56643_A0 || $?BCM56643_A1 || $?BCM56643_B0 \
   "local script bcm56643sanity.soc"
if $?BCM56644_A0 || $?BCM56644_A1 || $?BCM56644_B0 \
   "local script bcm56644sanity.soc"
if $?BCM56648_A0 || $?BCM56648_A1 || $?BCM56648_B0 \
   "local script bcm56643sanity.soc"
if $?BCM56649_A0 || $?BCM56649_A1 || $?BCM56649_B0 \
   "local script bcm56649sanity.soc"
if $?BCM56540_A0 || $?BCM56540_A1 || $?BCM56540_B0 \
   "local script bcm56540sanity.soc"
if $?BCM56541_A0 || $?BCM56541_A1 || $?BCM56541_B0 \
   "local script bcm56541sanity.soc"
if $?BCM56542_A0 || $?BCM56542_A1 || $?BCM56542_B0 \
   "local script bcm56542sanity.soc"
if $?BCM56545_A0 || $?BCM56545_A1 || $?BCM56545_B0 \
   "local script bcm56540sanity.soc"
if $?BCM56544_A0 || $?BCM56544_A1 || $?BCM56544_B0 \
   "local script bcm56544sanity.soc"
if $?BCM56546_A0 || $?BCM56546_A1 || $?BCM56546_B0 \
   "local script bcm56541sanity.soc"
if $?BCM56046_B0 || $?BCM56045_B0 \
   "local script bcm56045sanity.soc"
if $?BCM56044_B0 \
   "local script bcm56044sanity.soc"
if $?BCM56340_A0 || $?BCM56342_A0 \
   "local script bcm56340sanity.soc"
if $?BCM56344_A0 || $?BCM56345_A0 || $?BCM56346_A0 \
   "local script bcm56344sanity.soc"
if $?BCM56040_A0 || $?BCM56041_A0 || $?BCM56042_A0 \
   "local script bcm56040sanity.soc"
if $?BCM56547_A0 || $?BCM56548_A0 || $?BCM56548H_A0 \
   "local script bcm56547sanity.soc"
if $?BCM56049_A0 "local script bcm56049sanity.soc"
if $?shadow "local script shadowsanity.soc"
if $?trident2 "local script td2sanity.soc"
if $?apache "local script apsanity.soc"
if $?trident2plus "local script td2p_sanity.soc"
if $?tomahawk "local script th_sanity.soc"
```

```
if $?tomahawk_plus "local script th_sanity.soc"
if $?tomahawk2 "local script th2_sanity.soc"
if $?voyager "local script vosanity.soc"
if $?testarossa || $?dino16 || $?dino8 || $?mondial || $?silveroak || $?falcon || $?harrier || $?vulcan\
|| $?blackbird || $?thunderbolt || $?lotus || $?starfighter\
|| $?blackbird2 || $?northstar || $?polar || $?northstarplus\
"local script robosanity.soc"

if $?sbx "local script sbxsanity.soc"

if $?PETRAB_A0 "local script bcm88640sanity.soc"
if $?BCM88650_A0 || $?BCM88650_B0 "local script bcm88650sanity.soc"
if $?BCM88750_A0 || $?BCM88750_B0 || $?BCM88752_A0 || $?BCM88752_B0 "local script
bcm88750sanity.soc"

if !$?script \
 "echo 'ERROR: Unit $unit ($devname): cannot determine sanity script'"
if $?script \
 "echo 'Unit $unit ($devname) running $script'; rccache add $script; rcload $script; rccache delete $script"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/gsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs.c,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.c
* Purpose:     Defines common PHY driver routines for Broadcom XGXS core.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Broadcom Switch API calls compatible with Robo, Strata, and XGS
*  device driver API's and SDK's.
*
*  This module provides a high-level programming abstraction
*  for programming Layer-2 ethernet switch ASIC's.
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
```

```
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.h,v 1.1 2004/02/24 07:47:00 csm Exp $
*
*  TODO: Support for DiffServ, Layer3, Filtering
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/swapi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_diag.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_stk_uc.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stk_uc.c
* Purpose: Example Stacking UC Validation
* Reference: BCM88650 TM Device Driver (Stacking)
*
* Environment:
*
* The following application example matches the following system configuration:
*
*                    Tm-domain=0:                Tm-domain=1:
*                       fap-id=0                   fap-id=1
*                       local-stacking ports: 15,16   local-stacking ports: 15,16 (system: 256 + 15, 256 + 16)
*                       in-local-port: 13            in-local-port: 13
*                       out-ports: 13,17            out-ports: 256 + 13, 256 + 17
```

```
*                       in_port        --------                        --------        in_port
*                              -------|     |        stacking ports       |     |-------
*                         out_port     |     |----------------------------- |     |        out_port
*                              -------|     |----------------------------- |     |-------
*                                   |     |                        |     |
*                                   --------                        --------
*
* All the configuration example is in stacking_uc_appl().
* Relevant soc properties configuration:
* For TM-domain 0:
*    stacking_enable=1
*    device_tm_domain=0
*    tm_port_header_type_15=STACKING
*    tm_port_header_type_16=STACKING
*    fabric_ftmh_outlif_extension=ALWAYS
*    system_ftmh_load_balancing_ext_mode=ENABLED
*    number_of_trunks=1024
*
* For TM-domain 1:
*    stacking_enable=1
*    device_tm_domain=1
*    tm_port_header_type_15=STACKING
*    tm_port_header_type_16=STACKING
*    fabric_ftmh_outlif_extension=ALWAYS
*    system_ftmh_load_balancing_ext_mode=ENABLED
*    number_of_trunks=1024
*
*    Local:
*       diag_disable=1
*
* Adjust to different system configuration:
*  1. Change relevant soc properties.
*  2. Call stacking_uc_func() with the relevant system configuration:
*       tmd - tm domain.
*         stk_member_count - number of stacking ports.
*         out_port_count - number of out port (uses for eth forwarding - l2).
*         in_local_port - trafic in port (uses for load-balancing key creation).
*         stk_port_members - members in stacking lag (array of stacking ports).
*         out_port_members - members in out port.
*  3. Application Bring up:
*       The application used in this cint is called via 'init appl_dpp' Shell command.
*     This application can be replaced by any application That configure the following:
*           create scheduling for all local and system ports on both TMD, open vlan 0x1.
*         The application should be called after stacking DB creation, but before trunk create/set.
*
* Test Run 1:
*    1. inject packet from in port. packet format:
*         a. eth packet
```

```
*        b. da[5] = out port in hex % 256 (port 113 --> 0x0,0x0,0x0,0x0,0x0,0x71)
*        c. sa changes (for lb-key)
*        d. vlan tag = 1.
*    2. Expected Output:
*        a. according to the configured outpot port, the same packet should appear at the output - capture out going
packet.
*        b. traffic should be divided on all stacking ports (same lag) - show counters on both TMD.
*        c. expected output of shell command "show counters" :
*         (for one packet sent from Tm-domain 0)
*
*    on Tm-domain 0:
*
*     RX
*     ---
*     Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |           snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*     ------------------------------------------------------------------------------------------------------------------
*       13 ||                    1 |                    0 |                    0 |                    1 |
*     TX
*     ---
*     Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*     ------------------------------------------------------------------------------------------------------------------
*       15 ||                    0 |                    1 |                    0 |                    1 |
*
*         * packet should leave from port 15 or port 16, selected randomly.
*
*   on Tm-domain 1:
*
*     RX
*     ---
*     Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |           snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*     ------------------------------------------------------------------------------------------------------------------
*       15 ||                    0 |                    0 |                    1 |                    0 |
*     TX
*     ---
*     Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*     ------------------------------------------------------------------------------------------------------------------
*       13 ||                    1 |                    0 |                    0 |                    1 |
*
*          * packet should enter from port 15 or port 16 depend on which port it's leave Tm-domain 0.
*
* cd ../../../../src/examples/dpp
* cint cint_stk_uc.c
* cint
* In TMD 0:
```

```
*     stacking_uc_appl(unit, 0);
* In TMD 1:
*     stacking_uc_appl(unit, 1);
*
*
* Trunk API using example:
*    example for trunk API using on stacking trunk - get, destroy.
*    notice that tid should be the value which returned from bcm_trunk_create() (tid = peer_tmd + 256 (max lag in
system)).
*  Usage example:
*        BCM_TRUNK_STACKING_TID_SET(tid, peer_tmd);
*       stacking_bcm_trunk_get_destroy(unit, tid, 5);
*
*
* Remarks:
*    1. Read Stacking section in BCM88650 TM Device Driver.
*    2. The application should be called after stacking DB creation, but before trunk create/set.
*    3. Stacking DB should be configured before application bring up (As in cint, In Negev Chassis diag_disable=1).
*    4. Using Load-Balancing Extension should be across TM-Domains.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stk_uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem remote management library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/common/mem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_property.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF PROPERTY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_property.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_0Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_0Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* bcmallocache.h
* Header file for a working-set malloc cache
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmallocache.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmallocache.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       main.c
* Purpose:     PE Mode utility code
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: clmac.c,v 1.1.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
* CLMAC driver
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/clmac.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wcmod_phyreg.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_phyreg.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaNmPriorityUpdateConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaNmPriorityUpdateConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fap21v_acc_tbl.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_tbl.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: shadow.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

* File:	shadow.c
* Purpose:
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/shadow.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwWatEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWatEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwWatEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_mem.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_mem.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEiMemDataEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEiMemDataEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkConfig.h,v 1.3 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:    Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkConfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPolicePortQMapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPolicePortQMapEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: work_queue.h,v 1.12 Broadcom SDK $
*
* TAPS work queue library defines/interfaces
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/work_queue.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmxpt.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/xpt/nlmxpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: uc.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcs.c
* Purpose:     MCS initialize and load utilities
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/uc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_fp_key.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_fp_key.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wc40_ucode_b0.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wc40_ucode_b0.c
* Purpose:     Firmware used by Warpcore micro-Controller.
*
* ------------------------------------------------
*           Version 0103 (CRC: 0x4ECD)
*------------------------------------------------
*1) Updated the read_die_temperature routine to ensure
*   that a reliable temperature sensor read is always
*   performed.
*2) Added war_tx_os8_fifo_reset routine. The purpose of this
*   routine is to ensure that the txfifo (in OS8.25
*   mode) gets a reset when the clocks are stable, and
```

```
*   while the reset cannot cause a link flap in the LP.
*   This routine is the f/w WAR that performs a
*   targeted reset of the tx_os8_fifo  whenever,
*   the CL73 Arbitration FSM enters either the
*   TX_DISABLE or the AN_GOOD_CHECK states.
*   Only perform WAR routine when mode10g = 0x4
*   (i.e. Independent 0s8.25 channel mode), AND
*   when CL73 AN is enabled.
*
*-------------------------------------------------
*           Version 0102 (CRC: 0x3B62)
*-------------------------------------------------
*1) JIRA CRWARPCORE-211
*   Added periodic monitoring of CDR lock status.
*   This fix is necessary for KR link bring up
*   w/Netlogic PHY.
*2) JIRA CRWARPCORE-212
*   Added glitch protection for TX PI in EMI mode
*   when master RX lane exits LOS state.
*
* -------------------------------------------------
*           Version 0101 (CRC: 0xA865)
*-------------------------------------------------
*1) Added per-lane bypass bits for steady-state
*   peaking filter tuning.
*2) Improved glitch protection for peaking filter
*   updates after pmd lock.
*3) Added firmware_mode to allow temperature based
*   peaking filter compensation in SFP and nPPI Optics.
*
*-------------------------------------------------
*           Version D10A (CRC: 0xECCF)
*-------------------------------------------------
*1) Added saturation checks to peaking filter
*   temperature adjustment in XFI & XLAUI modes.
*2) Changed restart sequence for HW CL72.
*3) Updated firmware graceful stop feature.
*-------------------------------------------------
*           Version D109 (CRC: 0xC563)
*-------------------------------------------------
*1) Fixed issue in register default restoration.
*-------------------------------------------------
*           Version D107 (CRC: 0xBC5C)
*-------------------------------------------------
*1) Updated lane persistent memory clear logic.
*2) Fixed a bug in horizontal eye diagnostics.
*
*-------------------------------------------------
```

```
*           Version D106 (CRC: 0x817C)
*-------------------------------------------------
*1) Fixed a Cl72 clock issue which may cause link problem.
*   This applies to both BCM and IEEE dual-lane speed modes
*   using 64b/66b endec when the device has a lane swap configuration
*
*-------------------------------------------------
*           Version D105 (CRC: 0x0726)
*-------------------------------------------------
*1) Added support for channel longer than KR specification.
*2) Added auto-selection of VddR/Bandgap modes.
*3) Improved robustness of PMD restart sequence.
*
*-------------------------------------------------
*           Version D104 (CRC: 0x3C3A)
*-------------------------------------------------
*1) Added workaround for distorted vertical eye diagnostics.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40_ucode_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcMiscApi.h,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcMiscApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcMiscApi.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_filter.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_combo16.h,v 1.1.2.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR4 & GDDR5 Memory Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shmoo_combo16.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: merlin16_ucode.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier2/merlin16_ucode.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_nvram.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_nvram.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: eagle_merlin_api_uc_common.h 874 2015-12-03 22:46:33Z jgaither $ *
*                                                                                        *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs               *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                        *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_t20e_acc.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_t20e_acc.c
No license file was found, but licenses were detected in source scan.

```
/*
* MIPS 74k definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: mips74k_core.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/mips74k_core.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
```

```
*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: sysSerial.c,v 1.6 2006/01/12 22:57:03 sanjayg Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sysSerial.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mos_msg_ces.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ces.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mos_msg_ces.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: attach.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Attach Application
*
* A callback suitable for use in the stack task database update
* callback is provided.  It automatically attaches and detaches
* units through the BCM RPC attachments.  A callback mechanism
* is provided to notify users (BCMX for example) that a unit has
* been added or removed.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/attach.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_autoneg.c,v 6.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_autoneg.c
* Purpose: An example of auto-negotiation configuration and status check.
*        The following CINT provides a calling sequence example to execute auto-negotiation on a pair of ports.
*        The port can be 1-lane, 2-lane or 4-lane port.
* The nogotiated ability in the below table
*AN_Mode   |Ability    |Speed_Mode        | Line_Rate (Mb/s)
*-------------------------------------------------------
*CL73     |FD_Speed    |100GBASE-CR10       | 100000
*     |              |40GBASE-CR4        | 40000
*     |              |40GBASE-KR4        | 40000
*     |              |10GBASE_KX4        | 10000
*     |              |10GBASE_KR        | 10000
*     |              |1000M_KX             | 1000
*         |FEC      |                      |
*         |Pause     |                      |
*-------------------------------------------------------
*CL73BAM   |FD_Speed     |20GBASE-CR2        | 20000
*     |              |20GBASE-KR2        | 20000
*-------------------------------------------------------
*CL37     |Pause     |                      |
*     |FD_Speed     |SGMII              | 1000
*-------------------------------------------------------
*CL37BAM   |FD Speed      |40GBASE-X4        | 40000
*     |              |32.7GBASE-X4      | 32700
*     |              |31.5GBASE-X4  | 31500
*     |              |25.455GBASE-X4   | 25455
*     |              |21GBASE-X4        | 21000
*     |              |20GBASE-X2_CX4  | 20000
*     |              |20GBASE-X2        | 20000
*     |              |20GBASE-X4        | 20000
*     |              |20GBASE-X4_CX4  | 20000
*     |              |16GBASE-X4        | 16000
*     |              |15.75GBASE-X2  | 15750
*     |              |15GBASE-X4        | 15000
*     |              |13GBASE-X4        | 13000
*     |              |12.7GBASE-X2      | 12700
*     |              |12.5GBASE-X4      | 12500
*     |              |12GBASE-X4        | 12000
*     |              |10.5GBASE-X2       | 10500
*     |              |10GBASE-X2_CX4   | 10000
*     |              |10GBASE-X2        | 10000
*     |              |10GBASE-X4_CX4   | 10000
*     |              |10GBASE-X4         | 10000
*     |              |6GBASE-X4         | 6000
*     |              |5GBASE-X4         | 5000
*     |              |2.5GBASE-X         | 2500
```

```
*     | FEC            |                    |
*-------------------------------------------------------
*SGMII     | FD_Speed     |SGMII              | 1000
*     |                |SGMII              | 100
*          |                |SGMII              | 10
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_autoneg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_fec.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_fec.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_fec.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer_ingress_scheduler.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfKaEpVlanIndTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpVlanIndTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_j.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_j.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mirror.h
* Purpose:    Mirror internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpCounter.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpCounter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_stg.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: STG APIs
*
* Purpose:
*     STG API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_stg.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: falcon2_madura_internal.h 1341 2016-02-05 20:06:55Z kirand $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_internal.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_madura_dv_functions.c                                    *
*  Created On    :  22/05/2014                                                       *
*  Created By    :  Kiran Divakar                                                    *
*  Description   :  APIs for Serdes IPs ported over from DV                          *
*  Revision      :  $Id: falcon2_madura_dv_functions.c 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                *
*  the written permission of:                                                        *
*      Broadcom Corporation                                                          *
*      5300 California Avenue                                                        *
*      Irvine, CA  92617                                                             *
*                                                                                    *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                                    *
*                                                                                    *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_linkscan.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_linkscan.c
* Purpose:     Example to enable linkscan on a given set of ports.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_linkscan.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum_public.h 1245 2015-11-16 21:44:10Z jgaither $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                      *
*                                                        *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/public/srds_api_enum_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_port_based_pwe.c,v 1.00 2016/05/22 12:19:51 Jingli Guo $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_port_based_pwe.c
* Purpose: Example of creating a PWE which is identified by port+mpls_label.
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                      connect from access side.
* PWE: Virtual circuit attached to the service based on VC-label. Connect to the MPLS
*      network side.
*
*   configuration tips:
*   1. add soc property:
*       pwe_termination_port_mode_enable =1
*   2. enable the feature for relevant pp_port
*   bcm_port_control_set(unit,pp_port,bcmPortControlPWETerminationPortModeEnable,1);
*   3. call bcm_mpls_port_add() with BCM_MPLS_PORT_MATCH_LABEL_PORT flag and valid mpls_port.port parameter
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_port_based_pwe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.28 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:    BCM56450 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/field.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****
*****************************************************************************************
*****
*                                                                                       *
*  Revision     :  $Id: eagle_merlin_api_uc_vars_rdwr_defns.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                       *
*  Description  :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables       *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_merlin_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Failover module definitions internal to the BCM library.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/failover.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bst.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/oob.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_drv.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassDefaultQEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassDefaultQEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPriExpTosRewrite.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPriExpTosRewrite.c
No license file was found, but licenses were detected in source scan.

```
/*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: gmac0_core.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/gmac0_core.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_etpp_mtu.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_etpp_mtu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ltc388x.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Device Driver for LTC388X an integrated power control IC.
*
* For new chip with Resistor configurations add new resistor
* configuration array [ for ex sense_resistor_config_56960k
```

```
* for Tomahawk chip] and initalise with the appropriate index
* (chip number-G42) in IOCTL opcodes I2C_LTC_IOC_SET_CONFIG and
* I2C_LTC_IOC_SET_RCONFIG.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/ltc388x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_loadbalance.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_loadbalance.c
* Purpose: Maintains all the debug information for loadbalance
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/loadbalance/trident2plus_load_balance.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.174 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS3 Trunking (Ether and Fabric)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/trunk.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls_gre.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls_gre.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cpu2cpu.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cpu2cpu.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/cpu2cpu.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: loop.c
* Purpose: loop BCM API dispatch driver
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/loop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains trunk definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_counter.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Module: Warmboot for Counter software state
*
* Purpose:
*     Warm boot module for Counter Management Unit Software
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/wb_db_counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_link.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_link.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x25td.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x10td.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm_qtc.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x25.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod_sc_lkup_table.h#5 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_sc_lkup_table.h
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: tmu_cint.stg,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from $SDK/caladan_ucode/g3p1/src/g3p1_tmu_cfg.lrp
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_tmu_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88030_b0.c
* Purpose:    bcm88030_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88030_b0.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_fec.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_fec.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dnxf_port.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF WARM BOOT H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_warm_boot.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_bmact.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_bmact.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: c3hppc_sws_test2.c,v 1.5.14.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws_test2.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_FAP21V.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_FAP21V.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm3200.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM3200 Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/bm3200.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_dhrp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_dhrp.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88030_a0.c
* Purpose:    bcm88030_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88030_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bondoptions.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bondoptions.c
* Purpose:     Populates Tomahawk2 Bond Options Info.
* Requires:    SOC Common Bond Options Initializer.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/bondoptions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600XbXcfgRemapEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600XbXcfgRemapEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tfPCSRegEnums.h, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tfPCSRegEnums.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: common.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc_common.c
* Purpose:     Common functions for soc drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_i2c_mem.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_i2c_mem.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_cell.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_cell.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_cell.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_parser.h,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_parser.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allregs.c
* Purpose: Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/allregs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash_tbl.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  hash_tbl.c
*
* Overview:
* Provides a generic hash table interface with configurable and default hash
* and key compare functions.  The interface allows for complex key types, but
* the caller must implement a _cast_ method to transform the complex type into
* a string of bytes for the hash function.  Alternatively, the caller may
* replace the hash function itself, in which case, the default _cast_ method
* may be used to return the complex key and complex key size.
*
* Memory is allocated on-demand in blocks for hash entries, and freed in
* blocks when the free pool becomes large.
*
```

```
* Collisions are handled simply by creating a linked list per hash index and
* a linear search is performed within the list to find an entry.  The list is
* not sorted.  (future upgrade?)
*
* The caller defined KEY is *copied* and stored in the variable sized hash
* table entry for comparison.  A *pointer* to the caller defined DATA is
* stored.  The caller is reponsible for managing the memory where DATA points
* if any.  Callbacks are provided upon hash destruction to free any allocated
* memory.  The hash table module itself does not explitly free any DATA
* pointer at any time.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/hash_tbl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon16_tsc_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lotus_service.c,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/lotus/lotus_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/mirror.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_quadra28_debug_functions.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: packet_test.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/packet_test.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****
*****************************************************************************************
*****
*                                                                                       *
*  Revision      :  $Id$ *
*                                                                                       *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables      *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_merlin_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/public/eagle_merlin_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_cell_snake_test.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC CELL SNAKE TEST H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84728.c,v 1.49 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84728.c
* Purpose:     SDK PHY driver for BCM84728
*
* Supported BCM84XXX Family of PHY devices:
*
*     Device  Ports   Media                       MAC Interface
*     84707    1       1 10G SFP+                 XAUI
*     84073    2       2 KR                       XAUI
*     84074    4       4 KR                       XAUI
*     84728    2       2 10G SFP+/WAN             XAUI
*     84748    4       4 10G SFP+/WAN             XAUI
*   84727/84722 2       2 10G SFP+                 XAUI
*   84747/84742 4       4 10G SFP+                 XAUI
*     84762    2       2 10G SFP+                 RXAUI
*     84764    4       4 10G SFP+                 RXAUI
*     84042    2       2 KR                       RXAUI
*     84044    4       4 KR                       RXAUI
*
* Workarounds:
*
* References:
*
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84728.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEbMvtEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: failover common interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/failover.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_koi_debug_functions.h 1103 2015-08-14 16:57:21Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       drv.h
* Purpose:    Link Layer interface (PHY)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdesid.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdesid.h
* Purpose:    Defines useful SerDes ID fields .
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdesid.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ser_in_house.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This test is intended to be used for in house SER testing. The test writes
* all SW accessible memories on chip and reads them back to check for flips.
* The assumption is that this test will be run at regular intervals in a loop
* that is part of a master soc script as per test requirements. The test
* provides information on the total memory tested, total number of flips and
```

```
* the logical coordinate of each flip. However it does not provide information
* about the physical coordinate of each flip.
*
* Configuration parameters passed from CLI:
* TestPat: Test Pattern used to fill the memories
*        0: All 0s
*        1: All 1s
*        2: Logical checker board
*        3: Logical inverse checker board
* RdWrMode: Whether the test writes or reads the memories
*         1: Test only writes all the memories under test
*         2: Test only reads back all memories under test and counts flips
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ecc_parity.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ser_in_house.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fileio.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  fileio.c
* Purpose: File I/O
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/unix/fileio.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dmac.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* A simple DMA controller "server". This code responds to a DMA
* request to read or write a word of data into shared memory.
*
* The DMA controller is a simple task (Solaris Thread) which handles
* two types of requests:
*
* RPC_DMAC_READ: read data from memory
* RPC_DMAC_WRITE: write data to memory address
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/bde/pli/dmac.c
No license file was found, but licenses were detected in source scan.

/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: eagle2_tsc2pll_interface.h 1490 2016-08-11 22:26:06Z cvazquez $   *
*                                                                             *
*  Description :  Interface functions targeted to IP user                     *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/eagle2_tsc2pll/SerDes%20Documents/PMD_Methodology/Serdes%20External%2
0Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* eagle2_tsc2pll_interface.h - provides the primary functionality.
*
* eagle2_tsc2pll_dependencies.h - defines the functions to be provided by the IP user
*
```

* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_interface.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: intr_cmicm.c,v 1.107 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC CMICm Interrupt Handlers
*
* NOTE: These handlers are called from an interrupt context, so their
* actions are restricted accordingly.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/intr_cmicm.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: fields_r.i
* Purpose: Field declarations.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_r.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: qax_init.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_dram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cPCF8547Ioport.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2cPCF8547Ioport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbusdmaIinternal.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbusdma_internal.h
* Purpose:    Maps out structures used for SBUSDMA operations and
*             exports routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbusdma_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ECN - Broadcom StrataSwitch ECN API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ecn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_ddr40.c,v 1.75 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR3 Memory support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/shmoo_ddr40.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_egr_mtu.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_egr_mtu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcMiscApi.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcMiscApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/CtcMiscApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: show.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/robo/show.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCfgCtrlEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceCfgCtrlEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: saber2.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sat.h
* Purpose:    Function declarations for SAT bcm internal functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/sat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_general_params.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_general_params.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_general_params.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_mgmt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast Table Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.c,v 1.35.24.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: Caladan3 on TMU dma manager
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: datum.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The part of PCID that caches the register/memory values.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/datum.c
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------
** $Id: sbStatus.h,v 1.10 Broadcom SDK $
```

```
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
** ----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbStatus.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       robo.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/dev.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     stat.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_port.h,v 1.10.110.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON PORT H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_port.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

#TDM with 4 cos
bcm88030_config=25

ucode_num_ports.0=12
ucode_port.port1.0=clport0.xe.0.0-4/0/192:il1.il100.0.0-4/64/128
ucode_port.port2.0=clport0.xe.0.1-4/4/196:il1.il100.0.1-4/68/132
ucode_port.port3.0=clport0.xe.0.2-4/8/200:il1.il100.0.2-4/72/136
ucode_port.port4.0=clport0.xe.0.3-4/12/204:il1.il100.0.3-4/76/140
ucode_port.port5.0=clport0.xe.1.0-4/16/208:il1.il100.0.4-4/80/144
ucode_port.port6.0=clport0.xe.1.1-4/20/212:il1.il100.0.5-4/84/148
ucode_port.port7.0=clport0.xe.1.2-4/24/216:il1.il100.0.6-4/88/152
ucode_port.port8.0=clport0.xe.1.3-4/28/220:il1.il100.0.7-4/92/156
ucode_port.port9.0=clport0.xe.2.0-4/32/224:il1.il100.0.8-4/96/160
ucode_port.port10.0=clport0.xe.2.1-4/36/228:il1.il100.0.9-4/100/164
ucode_port.port11.0=clport0.xe.2.2-4/40/232:il1.il100.0.10-4/104/168
ucode_port.port12.0=clport0.xe.2.3-4/44/236:il1.il100.0.11-4/108/172

#App reserved queue
app_queues_start=123
app_queues_num=2
config_queue123_tdm25=1007,756,504,227,68,68
config_queue124_tdm25=1007,756,504,227,68,68

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
```

```
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_xe10=0x0000
phy_xaui_rx_polarity_flip_xe11=0x0001


phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_xe10=0x0001
phy_xaui_tx_polarity_flip_xe11=0x0001



#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032
```

```
port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

```
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4cos-12x10g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------------
**
** $Id: sbFeIlibStatus.h,v 1.5 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbStatus.h: Sandburst driver status codes
**
** ----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbFeIlibStatus.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8705.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8705.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/phy8705.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ingress_traffic_mgmt.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ingress_traffic_mgmt.c
*
* MODULE PREFIX:  soc_jer2_tmcitm
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmDemandCfgDataEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmDemandCfgDataEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmd_cint.c,v 1.32 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/cmd_cint.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: multicast.h,v 1.5 Broadcom SDK $
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: multicast header file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/multicast.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_general_params.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_general_params.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_general_params.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_petra_pp_api.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_petra_pp_api.c
No license file was found, but licenses were detected in source scan.

```
# $Id: config-pioneer.bcm,v 1.7 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for Pioneer systems, in vxworks platform
# And sim platform
# config-pioneer.bcm
```

```
#

# The pioneer use asychronous bus or socket to transmit or receive
# EMMI message. To socket mode, a tcp port number is a must for the pioneer
# to the Asynchronous mode, the phymem base address is a must for the
# The configuatioin as following:

# Vxworks platform
# Normal Asynchronous mode, uncomment following line to support asyn mode
#ea_baseaddr.0=0x80000000
#ea_baseaddr.1=0x81000000

# Normal socket mode, uncomment following line to support socket mode
#ea_tcpport.0=14114

# To use sim platform, the the configuation must as following. Now only one
# Pioneer can be sim.
# To use sim platform

# Normal socket mode, uncomment following line to run it on sim platform
# And use sim by default
chipsim_pio_ndev=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-pioneer.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log (bSL)
*
* BSL data types and macros
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bsltypes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_utils.c,v 1.22 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    c3hppc_utils.c
* Purpose: Caladan3 test utils
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_utils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
```

27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224080a093281f4c03fd8000
224080a093281f4d03fda000
224080a093281f4e03fdc000
224080a093281f4f03fde000
224080a093281f4803fd0000
224080a093281f4903fd2000
224080a093281f4a03fd4000

224080a093281f4b03fd6000
224080a093281f4403fc8000
224080a093281f4503fca000
224080a093281f4603fcc000
224080a093281f4703fce000
224080a093281f4003fc0000
224080a093281f4103fc2000
224080a093281f4203fc4000
224080a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22408061ffe81f5403fe8000
22408061ffe81f5503fea000
22408061ffe81f5603fec000
22408061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22408068fff01ff400000000
22408068fff01ff500000000
22408068fff01ff600000000
22408068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
2240806fffe81f5003fe0000
2240806fffe81f5103fe2000
2240806fffe81f5203fe4000
2240806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22408076fff01ff000000000
22408076fff01ff100000000
22408076fff01ff200000000
22408076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
224080a6ffe81f2d03ff6000
224080a6ffe81f2c03ff4000
224080a6ffe81f2b03ff2000
224080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000

24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000
224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000

4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000

44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241015093281f4c03fd8000
4241015093281f4d03fda000
4241015093281f4e03fdc000
4241015093281f4f03fde000
4241015093281f4803fd0000
4241015093281f4903fd2000
4241015093281f4a03fd4000
4241015093281f4b03fd6000
4241015093281f4403fc8000
4241015093281f4503fca000
4241015093281f4603fcc000
4241015093281f4703fce000
4241015093281f4003fc0000
4241015093281f4103fc2000
4241015093281f4203fc4000
4241015093281f4303fc6000
000000000000000000000000
42410154ffe81f5403fe8000
42410154ffe81f5503fea000
42410154ffe81f5603fec000
42410154ffe81f5703fee000
42410154ffe81f5003fe0000
42410154ffe81f5103fe2000

42410154ffe81f5203fe4000
42410154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42410156ffe81f2d03ff6000
42410156ffe81f2c03ff4000
42410156ffe81f2b03ff2000
42410156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000

42410158ffe81f5803e30000
42410158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000

000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000
2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000
2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001

```
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 1
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281204b893381f0400000000
281608b893381f0500000000
```

281a0cb893381f0600000000
2c171c38ffe0003000000000
281e10b893381f0700000000
ff8000000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
224088a6ffe81f2d03ff6000
224088a6ffe81f2c03ff4000
224088a6ffe81f2b03ff2000
224088a6ffe81f2a03ff0000
253f03a2fff100a200000001
224088a093281f4c03fd8000
224088a093281f4d03fda000
224088a093281f4e03fdc000
224088a093281f4f03fde000
224088a093281f4803fd0000
224088a093281f4903fd2000
224088a093281f4a03fd4000
224088a093281f4b03fd6000
224088a093281f4403fc8000
224088a093281f4503fca000
224088a093281f4603fcc000
224088a093281f4703fce000
224088a093281f4003fc0000

224088a093281f4103fc2000
224088a093281f4203fc4000
224088a093281f4303fc6000
000000000000000000000000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
224088a4ffe81f5403fe8000
224088a4ffe81f5503fea000
224088a4ffe81f5603fec000
224088a4ffe81f5703fee000
224088a4ffe81f5003fe0000
224088a4ffe81f5103fe2000
224088a4ffe81f5203fe4000
224088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000

2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000
224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000
228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000

44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b8fff81f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000

44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42410950ffe81f4c03fd8000
42410950ffe81f4d03fda000
42410950ffe81f4e03fdc000
42410950ffe81f4f03fde000
42410950ffe81f4803fd0000
42410950ffe81f4903fd2000
42410950ffe81f4a03fd4000
42410950ffe81f4b03fd6000
42410950ffe81f4403fc8000
42410950ffe81f4503fca000
42410950ffe81f4603fcc000
42410950ffe81f4703fce000
42410950ffe81f4003fc0000
42410950ffe81f4103fc2000
42410950ffe81f4203fc4000
42410950ffe81f4303fc6000
000000000000000000000000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000

44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42410954ffe81f5403fe8000
42410954ffe81f5503fea000
42410954ffe81f5603fec000
42410954ffe81f5703fee000
42410954ffe81f5003fe0000
42410954ffe81f5103fe2000
42410954ffe81f5203fe4000
42410954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410956ffe81f2d03ff6000
42410956ffe81f2c03ff4000
42410956ffe81f2b03ff2000
42410956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000
2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000

42410958ffe81f6003e40000
42410958ffe81f6103e42000
42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000
42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000

24c41f58fff01f0dee110000
2240899dffe81f5803e30000
24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000
2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000
2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000

```
2aac04408ab81f3d00000000
000000000000000000000000

//stream 2
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff108aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff208aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280902e1540000000000000
24c540a29540000000000000
```

24c41f15fff01f1580000000
228090aaffe0000000000000
2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
224090a093281f4803fd0000
224090a093281f4903fd2000
224090a093281f4a03fd4000
224090a093281f4b03fd6000
224090a093281f4403fc8000
224090a093281f4503fca000
224090a093281f4603fcc000
224090a093281f4703fce000
000000000000000000000000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000

24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
224090a4ffe81f5403fe8000
224090a4ffe81f5503fea000
224090a4ffe81f5603fec000
224090a4ffe81f5703fee000
224090a4ffe81f5003fe0000
224090a4ffe81f5103fe2000
224090a4ffe81f5203fe4000
224090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a6ffe81f2d03ff6000
224090a6ffe81f2c03ff4000
224090a6ffe81f2b03ff2000
224090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000

24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000
228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000

2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000

44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241115093281f4c03fd8000
4241115093281f4d03fda000
4241115093281f4e03fdc000
4241115093281f4f03fde000
4241115093281f4803fd0000
4241115093281f4903fd2000
4241115093281f4a03fd4000
4241115093281f4b03fd6000
4241115093281f4403fc8000
4241115093281f4503fca000
4241115093281f4603fcc000
4241115093281f4703fce000
4241115093281f4003fc0000
4241115093281f4103fc2000
4241115093281f4203fc4000
4241115093281f4303fc6000
000000000000000000000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411156ffe81f2d03ff6000
42411156ffe81f2c03ff4000
42411156ffe81f2b03ff2000
42411156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000

44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42411154ffe81f5403fe8000
42411154ffe81f5503fea000
42411154ffe81f5603fec000
42411154ffe81f5703fee000
42411154ffe81f5003fe0000
42411154ffe81f5103fe2000
42411154ffe81f5203fe4000
42411154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000
453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000

42411158ffe81f6603e4c000
42411158ffe81f6703e4e000
000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000
4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000
2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000

24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000
24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000
2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 3
ff800000000000000000000
2c11047affe0002400000000

2c10007cffe0002300000000
24c41f15fff009a000030000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000

24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224098a093281f4c03fd8000
224098a093281f4d03fda000
224098a093281f4e03fdc000
224098a093281f4f03fde000
224098a093281f4803fd0000
224098a093281f4903fd2000
224098a093281f4a03fd4000
224098a093281f4b03fd6000
224098a093281f4403fc8000
224098a093281f4503fca000
224098a093281f4603fcc000
224098a093281f4703fce000
224098a093281f4003fc0000
224098a093281f4103fc2000
224098a093281f4203fc4000
224098a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22409861ffe81f5403fe8000
22409861ffe81f5503fea000
22409861ffe81f5603fec000
22409861ffe81f5703fee000
24c440a2ffe0000000000001
22809869ffe0000000000000
22409868fff01ff400000000

22409868fff01ff500000000
22409868fff01ff600000000
22409868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
2240986fffe81f5003fe0000
2240986fffe81f5103fe2000
2240986fffe81f5203fe4000
2240986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22409876fff01ff000000000
22409876fff01ff100000000
22409876fff01ff200000000
22409876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
000000000000000000000000
224098a4ffe81f2d03ff6000
224098a4ffe81f2c03ff4000
224098a4ffe81f2b03ff2000
224098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000
224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000

224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000
245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000
245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000

44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
481204b8fff81f0400000000
481608b8fff81f0500000000
481a0cb8fff81f0600000000
4c930c38ffe0003800000000
481e10b8fff81f0700000000
ff8000000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000

44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42411950ffe81f4c03fd8000
42411950ffe81f4d03fda000
42411950ffe81f4e03fdc000
42411950ffe81f4f03fde000
42411950ffe81f4803fd0000
42411950ffe81f4903fd2000
42411950ffe81f4a03fd4000
42411950ffe81f4b03fd6000
42411950ffe81f4403fc8000
42411950ffe81f4503fca000
42411950ffe81f4603fcc000
42411950ffe81f4703fce000
42411950ffe81f4003fc0000
42411950ffe81f4103fc2000
42411950ffe81f4203fc4000
42411950ffe81f4303fc6000
000000000000000000000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411956ffe81f2d03ff6000
42411956ffe81f2c03ff4000
42411956ffe81f2b03ff2000
42411956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42411954ffe81f5403fe8000
42411954ffe81f5503fea000

42411954ffe81f5603fec000
42411954ffe81f5703fee000
42411954ffe81f5003fe0000
42411954ffe81f5103fe2000
42411954ffe81f5203fe4000
42411954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000
42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000

44c41f15fff01f1540000000
4281195dffe0000000000000
44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000
2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000

24c41f60fff01f11ee550000
2240999dffe81f6003e40000
24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000
2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000

24c41f06fff28baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281214b893381f0400000000
29141820fff81f1100000000
281a18b893381f0600000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000
24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000

24c41f46fff01f0633360000
24c41f47fff01f0644460000
24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
2240a0a093281f4c03fd8000
2240a0a093281f4d03fda000
2240a0a093281f4e03fdc000
2240a0a093281f4f03fde000
2240a0a093281f4803fd0000
2240a0a093281f4903fd2000
2240a0a093281f4a03fd4000
2240a0a093281f4b03fd6000
2240a0a093281f4403fc8000
2240a0a093281f4503fca000
2240a0a093281f4603fcc000
2240a0a093281f4703fce000
2240a0a093281f4003fc0000
2240a0a093281f4103fc2000
2240a0a093281f4203fc4000
2240a0a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
2240a061ffe81f5403fe8000
2240a061ffe81f5503fea000
2240a061ffe81f5603fec000
2240a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
2240a068fff01ff400000000
2240a068fff01ff500000000
2240a068fff01ff600000000
2240a068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000

24c4007dffe0000000000001
2240a06fffe81f5003fe0000
2240a06fffe81f5103fe2000
2240a06fffe81f5203fe4000
2240a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
2240a076fff01ff000000000
2240a076fff01ff100000000
2240a076fff01ff200000000
2240a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
2240a0a6ffe81f2d03ff6000
2240a0a6ffe81f2c03ff4000
2240a0a6ffe81f2b03ff2000
2240a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000

000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555
4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000

453920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000

000000000000000000000000
4241215093281f4c03fd8000
4241215093281f4d03fda000
4241215093281f4e03fdc000
4241215093281f4f03fde000
4241215093281f4803fd0000
4241215093281f4903fd2000
4241215093281f4a03fd4000
4241215093281f4b03fd6000
4241215093281f4403fc8000
4241215093281f4503fca000
4241215093281f4603fcc000
4241215093281f4703fce000
4241215093281f4003fc0000
4241215093281f4103fc2000
4241215093281f4203fc4000
4241215093281f4303fc6000
000000000000000000000000
42412154ffe81f5403fe8000
42412154ffe81f5503fea000
42412154ffe81f5603fec000
42412154ffe81f5703fee000
42412154ffe81f5003fe0000
42412154ffe81f5103fe2000
42412154ffe81f5203fe4000
42412154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42412156ffe81f2d03ff6000
42412156ffe81f2c03ff4000
42412156ffe81f2b03ff2000
42412156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000

4c971c78ffe0006800000000
4c991122ffe0003000000000
4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000
4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000

44c41f15fff01f1504000000
4281215dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000
2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000

24c41f63fff01f12ff660000
2240a19dffe81f6303e46000
24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000

24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000
2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c130c38ffe0003400000000
281e10b893381f0700000000
ff8000000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000

24c41f54fff00f28888c0000
24c41f55fff00f28007c0000
24c41f56ffe0000000000000
24c41f57ffe0000000000000
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe0000000000000
24c41f53ffe0000000000000
245900a2fff01f3911223344
253f03a2fff100a200000001
245900a2fff01f3855667788
2240a8a093281f4c03fd8000
2240a8a093281f4d03fda000
2240a8a093281f4e03fdc000
2240a8a093281f4f03fde000
2240a8a093281f4803fd0000
2240a8a093281f4903fd2000
2240a8a093281f4a03fd4000
2240a8a093281f4b03fd6000
2240a8a093281f4403fc8000
2240a8a093281f4503fca000
2240a8a093281f4603fcc000
2240a8a093281f4703fce000
2240a8a093281f4003fc0000
2240a8a093281f4103fc2000
2240a8a093281f4203fc4000
2240a8a093281f4303fc6000
000000000000000000000000
2240a8a4ffe81f5403fe8000
2240a8a4ffe81f5503fea000
2240a8a4ffe81f5603fec000
2240a8a4ffe81f5703fee000
2240a8a4ffe81f5003fe0000
2240a8a4ffe81f5103fe2000
2240a8a4ffe81f5203fe4000
2240a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000
2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001

245900a2fff01f3900003344
253f03a2fff100a200000001
245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc
253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000

2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000
24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000
2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000

4c171c38ffe0005000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481204b893381f0400000000
481624b893381f0500000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000
44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241295093281f4c03fd8000
4241295093281f4d03fda000
4241295093281f4e03fdc000
4241295093281f4f03fde000
4241295093281f4803fd0000

4241295093281f4903fd2000
4241295093281f4a03fd4000
4241295093281f4b03fd6000
4241295093281f4403fc8000
4241295093281f4503fca000
4241295093281f4603fcc000
4241295093281f4703fce000
4241295093281f4003fc0000
4241295093281f4103fc2000
4241295093281f4203fc4000
4241295093281f4303fc6000
000000000000000000000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42412954ffe81f5403fe8000
42412954ffe81f5503fea000
42412954ffe81f5603fec000
42412954ffe81f5703fee000
42412954ffe81f5003fe0000
42412954ffe81f5103fe2000
42412954ffe81f5203fe4000
42412954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42412956ffe81f2d03ff6000
42412956ffe81f2c03ff4000
42412956ffe81f2b03ff2000
42412956ffe81f2a03ff0000

44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000
42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000

44c703a2ffe0000000000001
428129a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000
2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000
2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000

24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 6
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000

24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000

24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240b0a093281f4803fd0000
2240b0a093281f4903fd2000
2240b0a093281f4a03fd4000
2240b0a093281f4b03fd6000
2240b0a093281f4403fc8000
2240b0a093281f4503fca000
2240b0a093281f4603fcc000
2240b0a093281f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c4007dffe0000000000000
2240b061ffe81f5403fe8000
2240b061ffe81f5503fea000
2240b061ffe81f5603fec000
2240b061ffe81f5703fee000
24c440a2ffe0000000000001
2280b069ffe0000000000000
2240b068fff01ff400000000
2240b068fff01ff500000000
2240b068fff01ff600000000
2240b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
2240b06fffe81f5003fe0000
2240b06fffe81f5103fe2000
2240b06fffe81f5203fe4000
2240b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
2240b076fff01ff000000000
2240b076fff01ff100000000
2240b076fff01ff200000000
2240b076fff01ff300000000
24c41f3dfff20f0b00010000

24c4a0a2ffe0000000000001
2280b077ffe0000000000000
24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
2240b0a6ffe81f2d03ff6000
2240b0a6ffe81f2c03ff4000
2240b0a6ffe81f2b03ff2000
2240b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000
2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000
2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000

24c41f15fff01f1520000000
2280b0adffe0000000000000
24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309
47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009

481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241315093281f4c03fd8000
4241315093281f4d03fda000
4241315093281f4e03fdc000
4241315093281f4f03fde000
4241315093281f4803fd0000
4241315093281f4903fd2000
4241315093281f4a03fd4000
4241315093281f4b03fd6000
4241315093281f4403fc8000
4241315093281f4503fca000
4241315093281f4603fcc000

4241315093281f4703fce000
4241315093281f4003fc0000
4241315093281f4103fc2000
4241315093281f4203fc4000
4241315093281f4303fc6000
000000000000000000000000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413156ffe81f2d03ff6000
42413156ffe81f2c03ff4000
42413156ffe81f2b03ff2000
42413156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42413154ffe81f5403fe8000
42413154ffe81f5503fea000
42413154ffe81f5603fec000
42413154ffe81f5703fee000
42413154ffe81f5003fe0000
42413154ffe81f5103fe2000
42413154ffe81f5203fe4000
42413154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000

2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000

24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff

2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000

```
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff8000000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c38ffe0005000000000
2240b8a093281f4c03fd8000
```

2240b8a093281f4d03fda000
2240b8a093281f4e03fdc000
2240b8a093281f4f03fde000
2240b8a093281f4803fd0000
2240b8a093281f4903fd2000
2240b8a093281f4a03fd4000
2240b8a093281f4b03fd6000
2240b8a093281f4403fc8000
2240b8a093281f4503fca000
2240b8a093281f4603fcc000
2240b8a093281f4703fce000
2240b8a093281f4003fc0000
2240b8a093281f4103fc2000
2240b8a093281f4203fc4000
2240b8a093281f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
2240b861ffe81f5403fe8000
2240b861ffe81f5503fea000
2240b861ffe81f5603fec000
2240b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
2240b868fff01ff400000000
2240b868fff01ff500000000
2240b868fff01ff600000000
2240b868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
2240b86fffe81f5003fe0000
2240b86fffe81f5103fe2000
2240b86fffe81f5203fe4000
2240b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
2240b876fff01ff000000000
2240b876fff01ff100000000
2240b876fff01ff200000000
2240b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001
2240b8a2fff8007d00000000
2c171c76ffe0006000000000
000000000000000000000000

2240b8a4ffe81f2d03ff6000
2240b8a4ffe81f2c03ff4000
2240b8a4ffe81f2b03ff2000
2240b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001
253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000
2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000

24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000

428138de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241395093281f4c03fd8000
4241395093281f4d03fda000
4241395093281f4e03fdc000
4241395093281f4f03fde000
4241395093281f4803fd0000
4241395093281f4903fd2000
4241395093281f4a03fd4000
4241395093281f4b03fd6000
4241395093281f4403fc8000
4241395093281f4503fca000
4241395093281f4603fcc000
4241395093281f4703fce000
4241395093281f4003fc0000
4241395093281f4103fc2000
4241395093281f4203fc4000
4241395093281f4303fc6000
000000000000000000000000

4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413956ffe81f2d03ff6000
42413956ffe81f2c03ff4000
42413956ffe81f2b03ff2000
42413956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42413954ffe81f5403fe8000
42413954ffe81f5503fea000
42413954ffe81f5603fec000
42413954ffe81f5703fee000
42413954ffe81f5003fe0000
42413954ffe81f5103fe2000
42413954ffe81f5203fe4000
42413954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000
4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000

445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000
2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000
4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000

2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000
2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000

2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000

27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
2240c0a093281f4c03fd8000
2240c0a093281f4d03fda000
2240c0a093281f4e03fdc000
2240c0a093281f4f03fde000
2240c0a093281f4803fd0000
2240c0a093281f4903fd2000
2240c0a093281f4a03fd4000

2240c0a093281f4b03fd6000
2240c0a093281f4403fc8000
2240c0a093281f4503fca000
2240c0a093281f4603fcc000
2240c0a093281f4703fce000
2240c0a093281f4003fc0000
2240c0a093281f4103fc2000
2240c0a093281f4203fc4000
2240c0a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
2240c061ffe81f5403fe8000
2240c061ffe81f5503fea000
2240c061ffe81f5603fec000
2240c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
2240c068fff01ff400000000
2240c068fff01ff500000000
2240c068fff01ff600000000
2240c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
2240c06fffe81f5003fe0000
2240c06fffe81f5103fe2000
2240c06fffe81f5203fe4000
2240c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
2240c076fff01ff000000000
2240c076fff01ff100000000
2240c076fff01ff200000000
2240c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
2240c0a6ffe81f2d03ff6000
2240c0a6ffe81f2c03ff4000
2240c0a6ffe81f2b03ff2000
2240c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000

24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000
2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000

4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000

44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241415093281f4c03fd8000
4241415093281f4d03fda000
4241415093281f4e03fdc000
4241415093281f4f03fde000
4241415093281f4803fd0000
4241415093281f4903fd2000
4241415093281f4a03fd4000
4241415093281f4b03fd6000
4241415093281f4403fc8000
4241415093281f4503fca000
4241415093281f4603fcc000
4241415093281f4703fce000
4241415093281f4003fc0000
4241415093281f4103fc2000
4241415093281f4203fc4000
4241415093281f4303fc6000
000000000000000000000000
42414154ffe81f5403fe8000
42414154ffe81f5503fea000
42414154ffe81f5603fec000
42414154ffe81f5703fee000
42414154ffe81f5003fe0000
42414154ffe81f5103fe2000

42414154ffe81f5203fe4000
42414154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42414156ffe81f2d03ff6000
42414156ffe81f2c03ff4000
42414156ffe81f2b03ff2000
42414156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000

42414158ffe81f5803e30000
42414158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000

000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000
2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000
2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001

```
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 9
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff108aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff208aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106
27fc0036ffe81f3403e10006
281204b893381f0400000000
281608b893381f0500000000
```

281a0cb893381f0600000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555
2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2240c8a093281f4c03fd8000
2240c8a093281f4d03fda000
2240c8a093281f4e03fdc000
2240c8a093281f4f03fde000
2240c8a093281f4803fd0000
2240c8a093281f4903fd2000
2240c8a093281f4a03fd4000
2240c8a093281f4b03fd6000
2240c8a093281f4403fc8000
2240c8a093281f4503fca000
2240c8a093281f4603fcc000
2240c8a093281f4703fce000
2240c8a093281f4003fc0000
2240c8a093281f4103fc2000
2240c8a093281f4203fc4000

2240c8a093281f4303fc6000
000000000000000000000000
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
2240c8a4ffe81f5403fe8000
2240c8a4ffe81f5503fea000
2240c8a4ffe81f5603fec000
2240c8a4ffe81f5703fee000
2240c8a4ffe81f5003fe0000
2240c8a4ffe81f5103fe2000
2240c8a4ffe81f5203fe4000
2240c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000

2c130c79ffe0005800000000
2c130c78ffe0005c00000000
2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000
2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000
2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000

44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b893381f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000

44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241495093281f4c03fd8000
4241495093281f4d03fda000
4241495093281f4e03fdc000
4241495093281f4f03fde000
4241495093281f4803fd0000
4241495093281f4903fd2000
4241495093281f4a03fd4000
4241495093281f4b03fd6000
4241495093281f4403fc8000
4241495093281f4503fca000
4241495093281f4603fcc000
4241495093281f4703fce000
4241495093281f4003fc0000
4241495093281f4103fc2000
4241495093281f4203fc4000
4241495093281f4303fc6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000

44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42414954ffe81f5403fe8000
42414954ffe81f5503fea000
42414954ffe81f5603fec000
42414954ffe81f5703fee000
42414954ffe81f5003fe0000
42414954ffe81f5103fe2000
42414954ffe81f5203fe4000
42414954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414956ffe81f2d03ff6000
42414956ffe81f2c03ff4000
42414956ffe81f2b03ff2000
42414956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000
2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000

42414958ffe81f6003e40000
42414958ffe81f6103e42000
42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000

24c41f58fff01f0dee110000
2240c99dffe81f5803e30000
24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000

2aac04408ab81f3d00000000
000000000000000000000000

//stream 10
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280d02e1540000000000000
24c540a29540000000000000

24c41f15fff01f1580000000
2280d0aaffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d0a093281f4803fd0000
2240d0a093281f4903fd2000
2240d0a093281f4a03fd4000
2240d0a093281f4b03fd6000
2240d0a093281f4403fc8000
2240d0a093281f4503fca000
2240d0a093281f4603fcc000
2240d0a093281f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
24c4007dffe0000000000000
2240d061ffe81f5403fe8000

2240d061ffe81f5503fea000
2240d061ffe81f5603fec000
2240d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
2240d068fff01ff400000000
2240d068fff01ff500000000
2240d068fff01ff600000000
2240d068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
2240d06fffe81f5003fe0000
2240d06fffe81f5103fe2000
2240d06fffe81f5203fe4000
2240d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
2240d076fff01ff000000000
2240d076fff01ff100000000
2240d076fff01ff200000000
2240d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001
22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
2240d0a6ffe81f2d03ff6000
2240d0a6ffe81f2c03ff4000
2240d0a6ffe81f2b03ff2000
2240d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000

24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000
2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000

2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000

44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241515093281f4c03fd8000
4241515093281f4d03fda000
4241515093281f4e03fdc000
4241515093281f4f03fde000
4241515093281f4803fd0000
4241515093281f4903fd2000
4241515093281f4a03fd4000
4241515093281f4b03fd6000
4241515093281f4403fc8000
4241515093281f4503fca000
4241515093281f4603fcc000
4241515093281f4703fce000
4241515093281f4003fc0000
4241515093281f4103fc2000
4241515093281f4203fc4000
4241515093281f4303fc6000
000000000000000000000000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415156ffe81f2d03ff6000
42415156ffe81f2c03ff4000
42415156ffe81f2b03ff2000
42415156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000

44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42415154ffe81f5403fe8000
42415154ffe81f5503fea000
42415154ffe81f5603fec000
42415154ffe81f5703fee000
42415154ffe81f5003fe0000
42415154ffe81f5103fe2000
42415154ffe81f5203fe4000
42415154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000

42415158ffe81f6603e4c000
42415158ffe81f6703e4e000
42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000
4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000
2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000

24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000
2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 11
ff800000000000000000000
2c11047affe0002400000000

2c10007cffe0002300000000
24c41f15fff009a0000b0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
253920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280d82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000

24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
000000000000000000000000
2240d8a093281f4c03fd8000
2240d8a093281f4d03fda000
2240d8a093281f4e03fdc000
2240d8a093281f4f03fde000
2240d8a093281f4803fd0000
2240d8a093281f4903fd2000
2240d8a093281f4a03fd4000
2240d8a093281f4b03fd6000
2240d8a093281f4403fc8000
2240d8a093281f4503fca000
2240d8a093281f4603fcc000
2240d8a093281f4703fce000
2240d8a093281f4003fc0000
2240d8a093281f4103fc2000
2240d8a093281f4203fc4000
2240d8a093281f4303fc6000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
2240d8a2ffe81f5403fe8000
2240d8a2ffe81f5503fea000

2240d8a2ffe81f5603fec000
2240d8a2ffe81f5703fee000
2240d8a2ffe81f5003fe0000
2240d8a2ffe81f5103fe2000
2240d8a2ffe81f5203fe4000
2240d8a2ffe81f5303fe6000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
000000000000000000000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
2240d8a4ffe81f2d03ff6000
2240d8a4ffe81f2c03ff4000
2240d8a4ffe81f2b03ff2000
2240d8a4ffe81f2a03ff0000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
000000000000000000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d8a6ffe81f5603e2c000
2240d8a6ffe81f5703e2e000
2240d8a6ffe81f5803e30000
2240d8a6ffe81f5903e32000

2240d8a6ffe81f5a03e34000
2240d8a6ffe81f5b03e36000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6003e40000
2240d8a6ffe81f6103e42000
2240d8a6ffe81f6203e44000
2240d8a6ffe81f6303e46000
2240d8a6ffe81f6603e4c000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6703e4e000
2280d8b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d8adffe0000000000000
24c41f15fff01f1501000000
2280d8adffe0000000000000
24c41f15fff01f1502000000
2280d8adffe0000000000000
24c41f15fff01f1504000000
2280d8adffe0000000000000
24c41f15fff01f1540000000
2280d8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c41f08ffe0000000000000
44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000

44c41f0affe0000000000000
44c41f14fff00baa00000000
44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000

44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241595093281f4c03fd8000
4241595093281f4d03fda000
4241595093281f4e03fdc000
4241595093281f4f03fde000
4241595093281f4803fd0000
4241595093281f4903fd2000
4241595093281f4a03fd4000
4241595093281f4b03fd6000
4241595093281f4403fc8000
4241595093281f4503fca000
4241595093281f4603fcc000
4241595093281f4703fce000
4241595093281f4003fc0000
4241595093281f4103fc2000
4241595093281f4203fc4000
4241595093281f4303fc6000
000000000000000000000000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415956ffe81f2d03ff6000
42415956ffe81f2c03ff4000
42415956ffe81f2b03ff2000
42415956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42415954ffe81f5403fe8000
42415954ffe81f5503fea000

42415954ffe81f5603fec000
42415954ffe81f5703fee000
42415954ffe81f5003fe0000
42415954ffe81f5103fe2000
42415954ffe81f5203fe4000
42415954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
2240d99dffe81f5a03e34000
2240d99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000

44c41f15fff01f1540000000
4281595dffe0000000000000
44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d99dffe81f5803e30000
24c41f59fff01f0dff110000
2240d99dffe81f5903e32000
24c41f5afff00b0eee000000
2240d99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d99dffe81f5f03e3e000

24c41f60fff01f11ee550000
2240d99dffe81f6003e40000
24c41f61fff01f11ff550000
2240d99dffe81f6103e42000
24c41f62fff01f12ee660000
2240d99dffe81f6203e44000
24c41f63fff01f12ff660000
2240d99dffe81f6303e46000
24c41f64fff01f13ee770000
2240d99dffe81f6403e48000
24c41f65fff01f13ff770000
2240d99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

00
00
00
00
00
00
00
00
ff
cf
ff
df
ff
ff
ff
ff
3f
fe
ff
fd
ff
ff
ff
ff
c3
ff
f3
ff
ff
ef
00
00
00
00
00
00
00
00
00

//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/test/caladan3/ucode/c3_exerciser_test1_norce.oasm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCurvesTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredCurvesTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_oam.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_oam.c
* Purpose: Maintains all the debug information for mmu
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/oam/trident2plus_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_dissect.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:    oam_disect.c
* Purpose: OAM input analysis and validation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/oam_dissect.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macsec.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet Watcher
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/macsec.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_trace.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_trace.h
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
*   Time trace utility.
*   soc_sand_trace_init() -- Initialize the tracing table.
*   soc_sand_trace_end()  -- Currently do nothing.
*   soc_sand_trace_clear() -- Clear the tracing table.
*   soc_sand_trace_print() -- Print trace table.
*                     Prints the time difference between 2 consecutive entries.
*   soc_sand_trace_add_entry() -- Add trace entry to the table.
*                       Add time stamp, except user given data.
* REMARKS:
*   The tracing table is filled continually -- Cyclic.
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
```

* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_trace.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lb_util.c,v 1.192 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utilities for Loopback Tests, Mark 2
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/lb_util.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.484 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:    BCM56624 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_alloc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_alloc.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_alloc.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry point the branch of the sw state that compose the dpp bcm
* layer's sw state
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bcm_sw_state.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_sw_state.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_defs.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JERICHO DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_flexport_top.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_flexport_top.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm_pack.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       eth_lm_dm_pack.h
* Purpose:    Interface to pack and unpack routines common to
*             SDK and uKernel for:
*             - ETH_LM_DM Control messages
*             - Network Packet headers
*
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/eth_lm_dm_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84740.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84740.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84740.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: qm.c,v 1.3.16.8 Broadcom SDK $
*
* File:    sws.c
* Purpose: Caladan3 SWS drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/caladan3/sws/qm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassSourceIdEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassSourceIdEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_corr_act_func.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/interrupt_handler_corr_act_func.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyaddr.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyaddr.h
* Purpose:    Basic defines for PHY configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyaddr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blackbird2_service.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/robo/blackbird2_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_cop_test2.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cop_test2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_tdm_flexport.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_tdm_flexport.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
/*
* vxWorks 5.x END device driver for
* Broadcom BCM44XX/BCM47XX family 10/100 Mbps Ethernet Controller
*
* Copyright(c) 2000 Broadcom Corp.
* All Rights Reserved.
* $Id: et_vx.c,v 1.1 2004/02/24 07:47:00 csm Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_vx.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ltc2974.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Device Driver for LTC2974 an integrated power control IC.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/ltc2974.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_i.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_i.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassDmacMatchEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassDmacMatchEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
```

```
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=48

# 4x10G on WC 0
ucode_port.port1.0=clport0.xe.0.0:il1.il50n.0.0
ucode_port.port2.0=clport0.xe.0.1:il1.il50n.0.1
ucode_port.port3.0=clport0.xe.0.2:il1.il50n.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il50n.0.3

# 2xHG10 + 2x10G on WC1
ucode_port.port5.0=clport0.hg10.1.0-1:il1.il50n.0.4-1
ucode_port.port6.0=clport0.hg10.1.0-1:il1.il50n.0.5-1
ucode_port.port7.0=clport0.hg10.1.0-1:il1.il50n.0.6-1
ucode_port.port8.0=clport0.hg10.1.0-1:il1.il50n.0.7-1
ucode_port.port9.0=clport0.hg10.1.0-1:il1.il50n.0.8-1
ucode_port.port10.0=clport0.hg10.1.0-1:il1.il50n.0.9-1
ucode_port.port11.0=clport0.hg10.1.0-1:il1.il50n.0.10-1
ucode_port.port12.0=clport0.hg10.1.0-1:il1.il50n.0.11-1
ucode_port.port13.0=clport0.hg10.1.0-1:il1.il50n.0.12-1
ucode_port.port14.0=clport0.hg10.1.0-1:il1.il50n.0.13-1
ucode_port.port15.0=clport0.hg10.1.1-1:il1.il50n.0.14-1
ucode_port.port16.0=clport0.hg10.1.1-1:il1.il50n.0.15-1
ucode_port.port17.0=clport0.hg10.1.1-1:il1.il50n.0.16-1
ucode_port.port18.0=clport0.hg10.1.1-1:il1.il50n.0.17-1
ucode_port.port19.0=clport0.hg10.1.1-1:il1.il50n.0.18-1
ucode_port.port20.0=clport0.hg10.1.1-1:il1.il50n.0.19-1
ucode_port.port21.0=clport0.hg10.1.1-1:il1.il50n.0.20-1
ucode_port.port22.0=clport0.hg10.1.1-1:il1.il50n.0.21-1
ucode_port.port23.0=clport0.hg10.1.1-1:il1.il50n.0.22-1
ucode_port.port24.0=clport0.hg10.1.1-1:il1.il50n.0.23-1
ucode_port.port25.0=clport0.xe.1.2:il1.il50n.0.24
ucode_port.port26.0=clport0.xe.1.3:il1.il50n.0.25

# 2x10G + 2xHG10 on WC 2
ucode_port.port27.0=clport0.xe.2.0:il1.il50n.0.26
ucode_port.port28.0=clport0.xe.2.1:il1.il50n.0.27
ucode_port.port29.0=clport0.hg10.2.2-1:il1.il50n.0.28-1
ucode_port.port30.0=clport0.hg10.2.2-1:il1.il50n.0.29-1
```

```
ucode_port.port31.0=clport0.hg10.2.2-1:il1.il50n.0.30-1
ucode_port.port32.0=clport0.hg10.2.2-1:il1.il50n.0.31-1
ucode_port.port33.0=clport0.hg10.2.2-1:il1.il50n.0.32-1
ucode_port.port34.0=clport0.hg10.2.2-1:il1.il50n.0.33-1
ucode_port.port35.0=clport0.hg10.2.2-1:il1.il50n.0.34-1
ucode_port.port36.0=clport0.hg10.2.2-1:il1.il50n.0.35-1
ucode_port.port37.0=clport0.hg10.2.2-1:il1.il50n.0.36-1
ucode_port.port38.0=clport0.hg10.2.2-1:il1.il50n.0.37-1
ucode_port.port39.0=clport0.hg10.2.3-1:il1.il50n.0.38-1
ucode_port.port40.0=clport0.hg10.2.3-1:il1.il50n.0.39-1
ucode_port.port41.0=clport0.hg10.2.3-1:il1.il50n.0.40-1
ucode_port.port42.0=clport0.hg10.2.3-1:il1.il50n.0.41-1
ucode_port.port43.0=clport0.hg10.2.3-1:il1.il50n.0.42-1
ucode_port.port44.0=clport0.hg10.2.3-1:il1.il50n.0.43-1
ucode_port.port45.0=clport0.hg10.2.3-1:il1.il50n.0.44-1
ucode_port.port46.0=clport0.hg10.2.3-1:il1.il50n.0.45-1
ucode_port.port47.0=clport0.hg10.2.3-1:il1.il50n.0.46-1
ucode_port.port48.0=clport0.hg10.2.3-1:il1.il50n.0.47-1

pci_override_dev=0x34
# The current code depends on 'ilkn_num_lanes' to set the last_lane.
# On BCM88034 it should be forced to 6 automatically as that's only allowed value.
ilkn_num_lanes=6

higig2_hdr_mode=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_hg32=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_hg0=0x3210
xgxs_tx_lane_map_hg32=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg8=0x0001
phy_xaui_rx_polarity_flip_hg16=0x0001
phy_xaui_rx_polarity_flip_hg24=0x0001
phy_xaui_rx_polarity_flip_hg32=0x0001
```

```
phy_xaui_rx_polarity_flip_hg40=0x0001
phy_xaui_rx_polarity_flip_hg48=0x0000
phy_xaui_rx_polarity_flip_hg56=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg8=0x0001
phy_xaui_tx_polarity_flip_hg16=0x0001
phy_xaui_tx_polarity_flip_hg24=0x0001
phy_xaui_tx_polarity_flip_hg32=0x0000
phy_xaui_tx_polarity_flip_hg40=0x0000
phy_xaui_tx_polarity_flip_hg48=0x0001
phy_xaui_tx_polarity_flip_hg56=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c

ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-8x10g_4xhg10-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: buffer.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Diag CLI Buffer command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_red.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Redundancy API for SBX Switching technology
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_red.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
* $Id: bcm-uk-trans.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This provides a simple implementation of a BCM C2C/NH transport driver.
* This driver uses a User/Kernel Proxy service to transmit and receive
* the data.
```

* This driver is compiled for both the kernel and user space.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/shared/bcm-uk-trans.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsPriAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriAddrConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwNPC2QEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwNPC2QEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwNPC2QEntry.hx
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_frwrd_bmact.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_bmact.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_general.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_general.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: rate.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx/rate.c
* Purpose: BCMX Packet Rate Control APIs
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/rate.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: init.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: init.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/init.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_api_mgmt.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_mgmt.c
No license file was found, but licenses were detected in source scan.

/*
* Id

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    eth_lm_dm_feature.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/eth_lm_dm_feature.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_tables_h.stg,v 1.17 Broadcom SDK $"
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* t3p1_ppe_tables.h: Guadalupe2k V1.3 PPE table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_ppe_tables.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2xmsg.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l2xmsg.c
* Purpose: Provide needed routines for L2 overflow.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/l2xmsg.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: traverse_server.c
* Purpose: BCM API Traverse Server routines for remote units
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/traverse_server.c
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
#* $Id: xfi_10g_pmd_gloop_falcon.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*----------------------------------------------------------------------
#* File       : xfi_10g_pmd_gloop_falcon.soc
#* Description: xfi_10g_pmd_gloop_falcon
#*----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xad
phy raw sbus $port 0.0 0x9010 0x0000

sleep 1;
phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d0b1 reg_data=0x2
phy raw sbus $port 1.0 0xd0b1 0x0002
phy raw sbus $port 1.0 0xd0b1
```

```
# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d104 reg_data=0x2271
phy raw sbus $port 1.0 0xd104 0x2271
phy raw sbus $port 1.0 0xd104


# 0xr_mode_frc = 1, reg_adr=0x908d0b0 reg_data=0x8000
phy raw sbus $port 1.0 0xd0b0 0x8000
phy raw sbus $port 1.0 0xd0b0


# pll_mode = a, reg_adr=0x908d147 reg_data=0x4
phy raw sbus $port 1.0 0xd147 0x0004
phy raw sbus $port 1.0 0xd147


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x180
phy raw sbus $port 0.0 0x9000 0x180
phy raw sbus $port 0.0 0x9000

# reg_name=Main0_lane_swap, dev_adr=0, reg_adr=0x1089003, reg_width=0x10, reg_data=0x5e4
phy raw sbus $port 0.0 0x9003 0x5e4
phy raw sbus $port 0.0 0x9003


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1c3

phy raw sbus $port 0.0 0xc113 0x01c3
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x2

phy raw sbus $port 0.0 0xc050 0x0002
```

```
phy raw sbus $port 0.0 0xc050

# try also these two value 0x00100 0x00102
phy raw sbus $port 0.0 0xc050 0x00102
phy raw sbus $port 0.0 0xc050

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd162
phy raw sbus $port 1.0 0xd162 0xb

phy raw sbus $port 0.0 0xc161 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_10g_pmd_gloop_falcon.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.137 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utilex_rhlist.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_rhlist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: variable.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: variable.c
* Purpose: Variable routines with scope support functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/variable.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_res_tag_bitmap.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- tagged bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_res_tag_bitmap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOamFwUpgradeApi.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOamFwUpgradeApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkOamFwUpgradeApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEgressRankerEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEgressRankerEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom Mirror API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  falcon2_madura_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: falcon2_madura_functions.h 1340 2016-02-04 22:50:01Z kirand $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpV6Tci.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpV6Tci.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_rce.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_rce.h : RCE defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_rce.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: kconfig.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/kconfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgTmePortRemapAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgTmePortRemapAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_hw_simulator.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_hw_simulator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0WdtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR0WdtEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipfix.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipfix.c
* Purpose:    IPFIX API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/ipfix.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_encap.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_encap.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: eagle_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : eagle_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
```

```
*-----------------------------------------------------------------------*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchSumEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchSumEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTableAddr.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibPriTableAddr.h
*
* <pre>
*
* ==============================================================================
* ==  sbZfSbQe2000ElibPriTableAddr.h - PRI Rewrite Table Address ZFrame  ==
* ==============================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibPriTableAddr.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
```

```
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibPriTableAddr.h
*
* ABSTRACT:
*
*     PRI Rewrite Table Address ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     07-December-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableAddr.hx
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;
init mmu;
```

```
# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1

local beagle 0;
if $?BCM53460_A0 || $?BCM53461_A0 \
'local beagle 1;'

# VALID memories
local mem EGR_EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
if !$beagle \
'local mem ING_SAT_SAMP_DATA;                  $name; $tr50; $tr51; $tr52;\
local mem ING_SAT_SAMP_TCAM;                   $name; $tr50; $tr51; $tr52;'

local mem L2_USER_ENTRY;                       $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;             $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                  $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem L3_DEFIP;                           $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_DATA_ONLY;                  $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_HIT_ONLY;                   $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_ONLY;                       $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_PAIR_128;                   $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_PAIR_128_DATA_ONLY;         $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_PAIR_128_HIT_ONLY;          $name; $tr50; $tr51; $tr52;\
local mem L3_DEFIP_PAIR_128_ONLY;              $name; $tr50; $tr51; $tr52;\
local mem L3_TUNNEL;                           $name; $tr50; $tr51; $tr52;\
local mem L3_TUNNEL_DATA_ONLY;                 $name; $tr50; $tr51; $tr52;\
local mem L3_TUNNEL_ONLY;                      $name; $tr50; $tr51; $tr52;'

local mem MY_STATION_TCAM;                     $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;           $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;          $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                         $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem VFP_TCAM;                           $name; $tr50; $tr51; $tr52;\
local mem EFP_METER_TABLE;                     $name; $tr50; $tr51; $tr52;\
local mem EFP_TCAM;                            $name; $tr50; $tr51; $tr52;\
local mem FP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;\
local mem FP_GLOBAL_MASK_TCAM;                 $name; $tr50; $tr51; $tr52;\
local mem FP_METER_TABLE;                      $name; $tr50; $tr51; $tr52;\
local mem FP_POLICY_TABLE;                     $name; $tr50; $tr51; $tr52;\
local mem FP_TCAM;                             $name; $tr50; $tr51; $tr52;\
local mem MPLS_ENTRY;                          $name; $tr50; $tr51; $tr52;\
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;\
local mem EFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;\
local mem VLAN_MAC;                            $name; $tr50; $tr51; $tr52;\
```

```
local mem VLAN_XLATE;                                   $name; $tr50; $tr51; $tr52;'

local mem VLAN_SUBNET;                                  $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                             $name; $tr50; $tr51; $tr52;
local mem ALTERNATE_EMIRROR_BITMAP;                     $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                             $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                                  $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                                  $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                             $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                                      $name; $tr50;
local mem CPU_PBM_2;                                    $name; $tr50;
local mem CPU_TS_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem CTR_DEQ_STATUS_MEM;                           $name; $tr50; $tr51; $tr52;
local mem CTR_FLEX_COUNT_0;                             $name; $tr50; $tr51; $tr52;
local mem CTR_FLEX_COUNT_1;                             $name; $tr50; $tr51; $tr52;
local mem CTR_FLEX_COUNT_2;                             $name; $tr50; $tr51; $tr52;
local mem CTR_FLEX_COUNT_3;                             $name; $tr50; $tr51; $tr52;
local mem DEVICE_STREAM_ID_TO_PP_PORT_MAP;              $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                                   $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                               $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                             $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                            $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_COS_MAP;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_CPU_COS_MAP;                              $name; $tr50; $tr51; $tr52;
local mem EGR_DNX_HEADER;                               $name; $tr50;
local mem EGR_DSCP_ECN_MAP;                             $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                               $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                            $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_EP_REDIRECT_EM_MTP_INDEX;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                        $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_L3_INTF;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;'

local mem EGR_LM_COUNTER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MA_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;\
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51; $tr52;'

local mem EGR_MP_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_NETWORK_PRUNE_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_DGLP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_LM_COUNTERS_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_LM_COUNTERS_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_LM_COUNTERS_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OAM_OPCODE_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                    $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PCP_DE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PHYSICAL_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_PKT_SOP_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PP_PORT_GPP_TRANSLATION_1;                    $name; $tr50;
local mem EGR_PP_PORT_GPP_TRANSLATION_2;                    $name; $tr50;
```

```
local mem EGR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;               $name; $tr50; $tr51; $tr52;
local mem EGR_QUEUE_TO_PP_PORT_MAP;           $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem EGR_SAT_CONFIG_MAC_SA;             $name; $tr50; $tr51; $tr52;\
local mem EGR_SAT_SAMP_DATA;                  $name; $tr50; $tr51; $tr52;\
local mem EGR_SAT_SAMP_DATA_1;                $name; $tr50; $tr51; $tr52;\
local mem EGR_SAT_SAMP_TCAM;                  $name; $tr50; $tr51; $tr52;'

local mem EGR_SERVICE_PRI_MAP_0;              $name; $tr50; $tr51; $tr52;
local mem EGR_SERVICE_PRI_MAP_1;              $name; $tr50; $tr51; $tr52;
local mem EGR_SERVICE_PRI_MAP_2;              $name; $tr50; $tr51; $tr52;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;          $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                            $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                           $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                       $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;        $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                     $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_OVERFLOW;            $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                   $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                   $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                   $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                       $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                      $name; $tr50;
local mem EP_REDIRECT_EM_MTP_INDEX;           $name; $tr50; $tr51; $tr52;
local mem FLOOD_LEARN_MATCH_VLANS_PORT_A;     $name; $tr50; $tr51; $tr52;
local mem FLOOD_LEARN_MATCH_VLANS_PORT_B;     $name; $tr50; $tr51; $tr52;
local mem FP_FLEX_KEY_SELECTOR;               $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;               $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;              $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                  $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                  $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                     $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;               $name; $tr50;
local mem FP_SLICE_MAP;                       $name; $tr50;
local mem FP_STORM_CONTROL_METERS;            $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                     $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;           $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;              $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                     $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                $name; $tr50;
local mem IARB_ING_PHYSICAL_PORT;             $name; $tr50; $tr51; $tr52;
local mem IARB_TDM_TABLE;                     $name; $tr50; $tr51; $tr52;
local mem IARB_TDM_TABLE_1;                   $name; $tr50; $tr51; $tr52;
```

```
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ING_1588_TS_DISPOSITION_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                    $name; $tr50;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;\
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr50; $tr51; $tr52';

local mem ING_LM_COUNTER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_NETWORK_PRUNE_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem ING_OAM_LM_COUNTERS_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_OAM_LM_COUNTERS_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_OAM_LM_COUNTERS_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr50; $tr51; $tr52;
local mem ING_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_QUEUE_OFFSET_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_SERVICE_PRI_MAP_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_SERVICE_PRI_MAP_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_SERVICE_PRI_MAP_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_SVM_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_UNTAGGED_PHB;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_VLAN_RANGE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem INITIAL_ING_L3_NEXT_HOP;                $name; $tr50; $tr51; $tr52;\
local mem INITIAL_L3_ECMP;                    $name; $tr50; $tr51; $tr52;\
local mem INITIAL_L3_ECMP_GROUP;                $name; $tr50; $tr51; $tr52;'

local mem INITIAL_PROT_NHI_TABLE;                $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1_DMA;                $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                $name; $tr50; $tr51; $tr52;
local mem KNOWN_MCAST_BLOCK_MASK;                $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                $name; $tr50;
local mem L2_BULK_MATCH_MASK;                $name; $tr50;
local mem L2_BULK_MATCH_VLANS_PORT_A;                $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_VLANS_PORT_B;                $name; $tr50; $tr51; $tr52;
local mem L2_BULK_REPLACE_DATA;                $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                $name; $tr50;
local mem L2X;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_OVERFLOW;                $name; $tr50;
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;

if !$beagle \
'local mem L3_ECMP;                    $name; $tr50; $tr51; $tr52;\
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_IPV4_MULTICAST;                $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_IPV4_UNICAST;                $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_IPV6_MULTICAST;                $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_IPV6_UNICAST;                $name; $tr50; $tr51; $tr52;\
local mem L3_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;\
local mem L3_IIF;                    $name; $tr50; $tr51; $tr52;\
local mem L3_IPMC;                    $name; $tr50; $tr51; $tr52;\
local mem L3_IPMC_1;                    $name; $tr50; $tr51; $tr52;\
local mem L3_IPMC_REMAP;                    $name; $tr50; $tr51; $tr52;\
local mem L3_MTU_VALUES;                    $name; $tr50; $tr51; $tr52;'

local mem LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_CHILD_WEIGHT_CFG_CNT;                $name; $tr50; $tr51; $tr52;
local mem LLS_L0_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_EF_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_HEADS_TAILS;                $name; $tr50; $tr51; $tr52;
```

```
local mem LLS_L0_MIN_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L0_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_SHAPER_CONFIG_C;                 $name; $tr50; $tr51; $tr52;
local mem LLS_L0_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L0_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CHILD_WEIGHT_CFG_CNT;            $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CONFIG;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L1_EF_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_L1_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L1_MIN_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L1_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L1_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L1_SHAPER_CONFIG_C;                 $name; $tr50; $tr51; $tr52;
local mem LLS_L1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L1_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L2_CHILD_WEIGHT_CFG_CNT;            $name; $tr50; $tr51; $tr52;
local mem LLS_L2_EMPTY_STATE;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_L2_MIN_CONFIG_C;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L2_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L2_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L2_SHAPER_CONFIG_C;                 $name; $tr50; $tr51; $tr52;
local mem LLS_L2_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_CONFIG;                        $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_ERROR;                         $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_HEADS;                         $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_PARENT_STATE;                  $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_SHAPER_CONFIG_C;               $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_TDM;                           $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_WERR_MAX_SC;                   $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_XOFF;                          $name; $tr50;
local mem LLS_S1_CONFIG;                          $name; $tr50; $tr51; $tr52;
local mem LLS_S1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_S1_HEADS;                           $name; $tr50; $tr51; $tr52;
local mem LLS_S1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_S1_SHAPER_CONFIG_C;                 $name; $tr50; $tr51; $tr52;
local mem LLS_S1_TAILS;                           $name; $tr50; $tr51; $tr52;
local mem LLS_S1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem LMEP;                                   $name; $tr50; $tr51; $tr52;
local mem LMEP_1;                                 $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;           $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;      $name; $tr50; $tr51; $tr52;
```

```
local mem LPORT_TAB;                                    $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                                    $name; $tr50; $tr51; $tr52;
local mem MAID_REDUCTION;                               $name; $tr50; $tr51; $tr52;
local mem MA_INDEX;                                     $name; $tr50; $tr51; $tr52;
local mem MA_STATE;                                     $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                               $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR_INT;                            $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP_INT;                            $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_LMT_INT;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_0;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_1;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_10;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_11;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_2;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_3;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_4;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_5;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_6;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_7;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_8;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPI_9;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_CCPI_MEM;                                 $name; $tr50; $tr51; $tr52;
local mem MMU_CELLLINKI;                                $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI_BITMAP;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI_STACK;                              $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                     $name; $tr50; $tr51; $tr52;
local mem MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;          $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_CBP_32B_WR_STORE_2;                   $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_CFAPI_INTERNAL_RECYCLE;               $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_FAP_BITMAP;                           $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_FAP_STACK;                            $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_SRC_PORT_STATE_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;                 $name; $tr50; $tr51; $tr52;
local mem MMU_EXT_MC_GROUP_MAP;                         $name; $tr50; $tr51; $tr52;
local mem MMU_EXT_MC_QUEUE_LIST0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_EXT_MC_QUEUE_LIST4;                       $name; $tr50; $tr51; $tr52;
local mem MMU_INITIAL_NHOP_TBL;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_MAP_TBL0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_MAP_TBL1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_MAP_TBL2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                     $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_IPCTR_CTXT_COUNTER_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_IPCTR_PG_COUNTER_0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_IPMC_GROUP_TBL;                          $name; $tr50; $tr51; $tr52;
local mem MMU_PROT_GROUP_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QBLOCK_BM_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QBLOCK_BM_1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QBLOCK_BM_FIFO_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QBLOCK_BM_FIFO_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QBLOCK_NEXT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_QSTRUCT_QENTRY;                          $name; $tr50; $tr51; $tr52;
local mem MMU_RDE_ADM_DPC_STORE_MEM;                   $name; $tr50; $tr51; $tr52;
local mem MMU_RDE_REAL_CELL_FIFO_MEM;                  $name; $tr50; $tr51; $tr52;
local mem MMU_RDE_TXQ_FLL;                             $name; $tr50; $tr51; $tr52;
local mem MMU_RDE_TXQ_QLL;                             $name; $tr50; $tr51; $tr52;
local mem MMU_RDE_TXQ_STATE;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GRP_TBL;                            $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_MAP_TBL;                            $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL;                          $name; $tr50; $tr51; $tr52;
local mem MMU_RPFAP_BITMAP;                            $name; $tr50; $tr51; $tr52;
local mem MMU_RPFAP_STACK;                             $name; $tr50; $tr51; $tr52;
local mem MMU_RQE_QMGR_FLL;                            $name; $tr50; $tr51; $tr52;
local mem MMU_RQE_QMGR_QLL;                            $name; $tr50; $tr51; $tr52;
local mem MMU_RQE_QUEUE_OP_NODE_MAP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_RQE_WORK_QUEUE;                          $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_CTRO_UC_DTYPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_CTRO_UC_PKT_STORE;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNCONFIG_CELL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNCONFIG_QENTRY;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNCOUNT_CELL;                      $name; $tr50; $tr51; $tr52;
local mem THDO_OPNCOUNT_QENTRY;                        $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNOFFSET_CELL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNOFFSET_QENTRY;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNSTATUS_CELL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_OPNSTATUS_QENTRY;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QCONFIG_CELL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QCONFIG_QENTRY;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QCOUNT_CELL;                        $name; $tr50; $tr51; $tr52;
local mem THDO_QCOUNT_QENTRY;                          $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QOFFSET_CELL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QOFFSET_QENTRY;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QRESET_VALUE_CELL;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QRESET_VALUE_QENTRY;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QSTATUS_CELL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDO_QSTATUS_QENTRY;                     $name; $tr50; $tr51; $tr52;
local mem MMU_TOQ_PORT_STATE_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_TOQ_STATE_MEM0;                          $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_TOQ_STATE_MEM1;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_OPN_CONFIG_BUFFER;                           $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_OPN_CONFIG_QENTRY;                           $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QUEUE_CONFIG_BUFFER;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QUEUE_CONFIG_QENTRY;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QUEUE_OP_NODE_MAP;                           $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                                       $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                                       $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                                       $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                                       $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                                       $name; $tr50; $tr51; $tr52;
local mem MPLS_OAM_ACH_TYPE_CONFIG;                             $name; $tr50; $tr51; $tr52;
local mem MP_GROUP;                                             $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                            $name; $tr50;
local mem NHI_GROUP_TC_PROFILE;                                 $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                            $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_1;                        $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_2;                        $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_3;                        $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_1;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_2;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_3;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_1;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_2;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_3;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_4;                         $name; $tr50; $tr51; $tr52;
local mem OAMP_PE_0_PROG_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem OAMP_PE_1_PROG_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem OAMP_RX_OAM_ID_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem OAMP_SAT_TX_EVC_PARAMS_ENTRY_1;                       $name; $tr50; $tr51; $tr52;
local mem OAMP_SAT_TX_EVC_PARAMS_ENTRY_2;                       $name; $tr50; $tr51; $tr52;
local mem OAMP_SAT_TX_GEN_PARAMS;                               $name; $tr50; $tr51; $tr52;
local mem OAM_DGLP_PROFILE;                                     $name; $tr50; $tr51; $tr52;
local mem OAM_FLEXIBLE_DOMAIN_CONTROL;                          $name; $tr50; $tr51; $tr52;
local mem OAM_OPCODE_CONTROL_PROFILE;                           $name; $tr50; $tr51; $tr52;
local mem OAM_OPCODE_GROUP;                                     $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                                         $name; $tr50; $tr51; $tr52;
local mem PHYSICAL_PORT_BASE_QUEUE;                             $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                                     $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                              $name; $tr50;
local mem PORT_CBL_TABLE;                                       $name; $tr50; $tr51; $tr52;
```

```
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_OR_TRUNK_MAC_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem PORT_OR_TRUNK_MAC_LIMIT;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem PP_PORT_GPP_TRANSLATION_1;                    $name; $tr50;
local mem PP_PORT_GPP_TRANSLATION_2;                    $name; $tr50;
local mem PP_PORT_GPP_TRANSLATION_3;                    $name; $tr50;
local mem PP_PORT_GPP_TRANSLATION_4;                    $name; $tr50;
local mem PP_PORT_TO_PHYSICAL_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PTP_LABEL_RANGE_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem RMEP;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER0;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER1;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER10;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER11;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER2;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER3;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER4;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER5;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER6;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER7;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER8;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DEBUG_COUNTER9;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_2;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_3;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_2;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_3;                    $name; $tr50; $tr51; $tr52;
local mem RXLP_MAX_FRAME_SIZE;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE_1_DMA;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE_DMA;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_ACC_TYPE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                    $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                    $name; $tr50;
local mem SER_RESULT_1;                    $name; $tr50;
local mem SER_RESULT_DATA_0;                    $name; $tr50;
local mem SER_RESULT_DATA_1;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr50;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                  $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                                 $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                          $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                   $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_TO_PP_PORT_MAP;                $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;      $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;           $name; $tr50; $tr51; $tr52;
local mem SVM_MACROFLOW_INDEX_TABLE;                 $name; $tr50; $tr51; $tr52;
local mem SVM_METER_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem SVM_OFFSET_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SVM_POLICY_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                       $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;               $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_BITMAP;                              $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                               $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                              $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                                    $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER0;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER1;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER10;                      $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER11;                      $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER2;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER3;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER4;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER5;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER6;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER7;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER8;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_DEBUG_COUNTER9;                       $name; $tr50; $tr51; $tr52;
local mem TXLP_INT2EXT_STREAM_MAP_TABLE;             $name; $tr50; $tr51; $tr52;
local mem TXLP_PORT_ADDR_MAP_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem TXLP_PORT_STREAM_BITMAP_TABLE;             $name; $tr50; $tr51; $tr52;
local mem TXLP_STREAM_ADDR_MAP_TABLE;                $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_GROUP_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;           $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;           $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                             $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                        $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                  $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                  $name; $tr50; $tr51; $tr52;
local mem VFI;                                       $name; $tr50; $tr51; $tr52;
local mem VFI_1;                                     $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;               $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;               $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_TAB;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC_OVERFLOW;                               $name; $tr50; $tr51; $tr52;
if !$beagle \
'local mem VLAN_MPLS;                              $name; $tr50; $tr51; $tr52;'
local mem VLAN_OR_VFI_MAC_COUNT;                           $name; $tr50; $tr51; $tr52;
local mem VLAN_OR_VFI_MAC_LIMIT;                           $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                                  $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                                   $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                              $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                                 $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_OVERFLOW;                             $name; $tr50; $tr51; $tr52;
local mem VRF;                                     $name; $tr50; $tr51; $tr52;
#-----------------------------------------NOTEST memories-----------------------------------------------------
#local mem EGRESS_PACKET_BUFFER0;                          $name; $tr50; $tr51; $tr52;
#local mem EGRESS_PACKET_BUFFER1;                          $name; $tr50; $tr51; $tr52;
#local mem EGRESS_PACKET_BUFFER2;                          $name; $tr50; $tr51; $tr52;
#local mem EGRESS_PACKET_BUFFER3;                          $name; $tr50; $tr51; $tr52;
#local mem EGR_PBE_DEBUG_0;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_PBE_DEBUG_1;                                $name; $tr50; $tr51; $tr52;
#local mem IARB_GIH_DEBUG;                                 $name; $tr50; $tr51; $tr52;
#local mem IARB_IPAD_DEBUG;                                $name; $tr50; $tr51; $tr52;
#local mem ING_PBI_DEBUG_0_HI;                             $name; $tr50; $tr51; $tr52;
#local mem ING_PBI_DEBUG_0_LO;                             $name; $tr50; $tr51; $tr52;
#local mem ING_PBI_DEBUG_1;                                $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER0;                           $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER1;                           $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER2;                           $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER3;                           $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                                    $name; $tr50; $tr51; $tr52;
#-----------------------------------------READONLY  memories--------------------------------------------------
#local mem EGR_EDBIL_PKT_SOP;                              $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                           $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                               $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_PKT_SOP;                               $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                              $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO;                                   $name; $tr50; $tr51; $tr52;
#local mem IARB_CELL_PKT_SOP;                              $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                                   $name; $tr50; $tr51; $tr52;
#local mem LLS_L0_MIN_BUCKET_C;                            $name; $tr50; $tr51; $tr52;
#local mem LLS_L0_SHAPER_BUCKET_C;                         $name; $tr50; $tr51; $tr52;
#local mem LLS_L1_MIN_BUCKET_C;                            $name; $tr50; $tr51; $tr52;
#local mem LLS_L1_SHAPER_BUCKET_C;                         $name; $tr50; $tr51; $tr52;
#local mem LLS_L0_XOFF;                                    $name; $tr50; $tr51; $tr52;
#local mem LLS_L1_XOFF;                                    $name; $tr50; $tr51; $tr52;
#local mem LLS_L2_MIN_BUCKET_C;                            $name; $tr50; $tr51; $tr52;
#local mem LLS_L2_XOFF;                                    $name; $tr50; $tr51; $tr52;
#local mem LLS_PORT_SHAPER_BUCKET_C;                       $name; $tr50; $tr51; $tr52;
```

```
#local mem LLS_S1_SHAPER_BUCKET_C;                    $name; $tr50; $tr51; $tr52;
#local mem LLS_L2_SHAPER_BUCKET;                      $name; $tr50; $tr51; $tr52;
#local mem LLS_PORT_TAILS;                            $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQ_CBP_32B_WR_STORE_0;                $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQ_CBP_32B_WR_STORE_1;                $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQ_RQE_WR_COMPLETE_0;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQ_RQE_WR_COMPLETE_1;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_ENQ_RQE_WR_COMPLETE_2;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFI_DEBUG_MEM;                       $name; $tr50; $tr51; $tr52;
#local mem MMU_IPCTR_PG_COUNTER_1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;           $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFI_PFC_ST_TBL;                      $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_OPN_AVG_QSIZE_BUFFER;             $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_OPN_AVG_QSIZE_QENTRY;             $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_QUEUE_DROP_THD_DEQ;               $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_QUEUE_DROP_THD_ENQ;               $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_OPN_DROP_THD_DEQ;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_OPN_DROP_THD_ENQ;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;           $name; $tr50; $tr51; $tr52;
#local mem OAMP_PE_GEN_MEM;                           $name; $tr50; $tr51; $tr52;
#local mem OAMP_PE_PROGRAM;                           $name; $tr50; $tr51; $tr52;
#local mem OAMP_SAT_RX_FLOW_ID;                       $name; $tr50; $tr51; $tr52;
#local mem OAMP_SAT_RX_FLOW_PARAMS;                   $name; $tr50; $tr51; $tr52;
#local mem OAMP_SAT_RX_FLOW_STATS;                    $name; $tr50; $tr51; $tr52;
#local mem OAMP_SAT_TX;                               $name; $tr50; $tr51; $tr52;
#local mem RXLP_CHANNEL_CONTROL_BUFFER;               $name; $tr50; $tr51; $tr52;
#local mem RXLP_ERROR_ACTION_MAP_DATA;                $name; $tr50; $tr51; $tr52;
#local mem RXLP_ERROR_ACTION_MAP_TCAM;                $name; $tr50; $tr51; $tr52;
#local mem RXLP_INTR_DATA_MEM;                        $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CNTRS;                        $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_PG_CONFIG;                       $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CNTRS;                        $name; $tr50; $tr51; $tr52;
#local mem THDI_PORT_SP_CONFIG;                       $name; $tr50; $tr51; $tr52;
#local mem THDIQEN_THDI_PORT_PG_CNTRS;                $name; $tr50; $tr51; $tr52;
#local mem THDIQEN_THDI_PORT_PG_CONFIG;               $name; $tr50; $tr51; $tr52;
#local mem THDIQEN_THDI_PORT_SP_CNTRS;                $name; $tr50; $tr51; $tr52;
#local mem THDIQEN_THDI_PORT_SP_CONFIG;               $name; $tr50; $tr51; $tr52;
#local mem THDIRQE_THDI_PORT_PG_CNTRS;                $name; $tr50; $tr51; $tr52;
#local mem THDIRQE_THDI_PORT_PG_CONFIG;               $name; $tr50; $tr51; $tr52;
#local mem THDIRQE_THDI_PORT_SP_CNTRS;                $name; $tr50; $tr51; $tr52;
#local mem THDIRQE_THDI_PORT_SP_CONFIG;               $name; $tr50; $tr51; $tr52;
#local mem TXLP_PORT_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem TXLP_PORT_PKT_SOP;                         $name; $tr50; $tr51; $tr52;
#local mem TXLP_PORT_REQUESTS;                        $name; $tr50; $tr51; $tr52;
#local mem TXLP_PORT_USED_ENTRIES;                    $name; $tr50; $tr51; $tr52;
#local mem TXLP_STREAM_MMU_REQUESTS;                  $name; $tr50; $tr51; $tr52;
#local mem TXLP_STREAM_USED_ENTRIES;                  $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                      $name; $tr50; $tr51; $tr52;
```

```
#-----------------------------------------VENDOR  memories-----------------------------------------------------
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo 'Running Table DMA Tests ...';


counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;
init mmu;


# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1
#disable enqueue and dequeue during the test
s LLS_CONFIG0 0
s LLS_TDM_CAL_CFG ENABLE=0

local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';

# VALID memories
local mem CPU_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EFP_METER_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
if !$beagle \
'local mem FP_GLOBAL_MASK_TCAM;                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem FP_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem FP_METER_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_STORM_CONTROL_METERS;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ALTERNATE_EMIRROR_BITMAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem CTR_DEQ_STATUS_MEM;                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem CTR_FLEX_COUNT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CTR_FLEX_COUNT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CTR_FLEX_COUNT_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CTR_FLEX_COUNT_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEVICE_STREAM_ID_TO_PP_PORT_MAP;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;

if !$beagle \
'local mem EFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;\
local mem EFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;'

local mem EGR_1588_SA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DNX_HEADER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EP_REDIRECT_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_LM_COUNTER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_MAC_DA_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MA_INDEX; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MP_GROUP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_NETWORK_PRUNE_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_DGLP_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_FLEXIBLE_DOMAIN_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_LM_COUNTERS_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_LM_COUNTERS_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_LM_COUNTERS_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_OPCODE_CONTROL_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OAM_OPCODE_GROUP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PCP_DE_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PHYSICAL_PORT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_PKT_SOP_ENABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PP_PORT_GPP_TRANSLATION_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PP_PORT_GPP_TRANSLATION_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QUEUE_TO_PP_PORT_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SAT_CONFIG_MAC_SA; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SAT_SAMP_DATA; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SAT_SAMP_DATA_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SAT_SAMP_TCAM; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SERVICE_PRI_MAP_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SERVICE_PRI_MAP_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SERVICE_PRI_MAP_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SUBPORT_TAG_DOT1P_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_VLAN_XLATE_OVERFLOW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EP_REDIRECT_EM_MTP_INDEX;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem FLOOD_LEARN_MATCH_VLANS_PORT_A;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FLOOD_LEARN_MATCH_VLANS_PORT_B;             $name; $tr71_1; $tr71_2; $tr71_3;

if !$beagle \
'local mem FP_COUNTER_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;\
local mem FP_POLICY_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;'

local mem FP_FLEX_KEY_SELECTOR;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PHYSICAL_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_TDM_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_TDM_TABLE_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_TS_DISPOSITION_PROFILE_TABLE;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_LM_COUNTER_CONTROL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_NETWORK_PRUNE_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OAM_LM_COUNTERS_0;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OAM_LM_COUNTERS_1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OAM_LM_COUNTERS_2;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PHYSICAL_PORT_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_QUEUE_MAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_QUEUE_OFFSET_MAPPING_TABLE;                 $name; $tr71_1; $tr71_2; $tr71_3;

if !$beagle \
'local mem ING_SAT_SAMP_DATA;                             $name; $tr71_1; $tr71_2; $tr71_3;\
local mem ING_SAT_SAMP_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;'

local mem ING_SERVICE_PRI_MAP_0;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SERVICE_PRI_MAP_1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SERVICE_PRI_MAP_2;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PKT_PRI_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PKT_RES_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PORT_MAP;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PRI_CNG_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_TOS_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1_DMA;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L2_BULK_MATCH_VLANS_PORT_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_VLANS_PORT_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_OVERFLOW;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                            $name; $tr71_1; $tr71_2; $tr71_3;

if !$beagle \
'local mem L3_DEFIP;                                     $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_DATA_ONLY;                            $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_HIT_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_PAIR_128;                             $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_DEFIP_PAIR_128_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ECMP;                                       $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ECMP_COUNT;                                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_HIT_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_IPV4_MULTICAST;                       $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_IPV4_UNICAST;                         $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_IPV6_MULTICAST;                       $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_IPV6_UNICAST;                         $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_ENTRY_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_IIF;                                        $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_IPMC;                                       $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_IPMC_1;                                     $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_IPMC_REMAP;                                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_MTU_VALUES;                                 $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_TUNNEL;                                     $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_TUNNEL_DATA_ONLY;                           $name; $tr71_1; $tr71_2; $tr71_3;\
local mem L3_TUNNEL_ONLY;                                $name; $tr71_1; $tr71_2; $tr71_3;'

local mem LLS_L0_CHILD_STATE1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_CHILD_WEIGHT_CFG_CNT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_CONFIG;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_EF_NEXT;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_ERROR;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_HEADS_TAILS;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_MIN_CONFIG_C;                           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L0_MIN_NEXT;                              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem LLS_L0_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_PARENT_STATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_SHAPER_CONFIG_C;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_WERR_MAX_SC;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L0_WERR_NEXT;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CHILD_STATE1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CHILD_WEIGHT_CFG_CNT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_EF_NEXT;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_ERROR;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_HEADS_TAILS;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_MIN_CONFIG_C;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_MIN_NEXT;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_PARENT_STATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_SHAPER_CONFIG_C;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_WERR_MAX_SC;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_WERR_NEXT;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_CHILD_STATE1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_CHILD_WEIGHT_CFG_CNT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_EMPTY_STATE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_ERROR;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_MIN_CONFIG_C;                              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L2_MIN_NEXT;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_SHAPER_CONFIG_C;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_WERR_NEXT;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_CONFIG;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_ERROR;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_HEADS;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_PARENT_STATE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_SHAPER_CONFIG_C;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_TDM;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_PORT_WERR_MAX_SC;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_XOFF;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_ERROR;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_HEADS;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_PARENT_STATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_SHAPER_CONFIG_C;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_TAILS;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_WERR_MAX_SC;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LMEP;                                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LMEP_1;                                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem LPORT_TAB;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MAID_REDUCTION;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MA_INDEX;                                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR_INT;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP_INT;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_LMT_INT;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_0;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_1;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_10;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_11;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_2;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_3;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_4;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_5;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_6;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_7;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_8;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CBPI_9;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_CCPI_MEM;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELLLINKI;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAPI_BITMAP;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAPI_STACK;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_ENQ_CBP_32B_WR_STORE_2;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_CFAPI_INTERNAL_RECYCLE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_FAP_BITMAP;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_FAP_STACK;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_SRC_PORT_STATE_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EXT_MC_GROUP_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EXT_MC_QUEUE_LIST0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EXT_MC_QUEUE_LIST4;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INITIAL_NHOP_TBL;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_MAP_TBL0;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_MAP_TBL1;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_MAP_TBL2;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_IPCTR_CTXT_COUNTER_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_IPCTR_PG_COUNTER_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_IPMC_GROUP_TBL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PROT_GROUP_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QBLOCK_BM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QBLOCK_BM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QBLOCK_BM_FIFO_0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QBLOCK_BM_FIFO_1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QBLOCK_NEXT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QSTRUCT_QENTRY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RDE_ADM_DPC_STORE_MEM;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RDE_REAL_CELL_FIFO_MEM;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RDE_TXQ_FLL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RDE_TXQ_QLL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RDE_TXQ_STATE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GRP_TBL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_MAP_TBL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RPFAP_BITMAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RPFAP_STACK;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RQE_QMGR_FLL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RQE_QMGR_QLL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RQE_QUEUE_OP_NODE_MAP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_RQE_WORK_QUEUE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_CTRO_UC_DTYPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_CTRO_UC_PKT_STORE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNCONFIG_CELL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNCONFIG_QENTRY;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNCOUNT_CELL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDO_OPNCOUNT_QENTRY;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNOFFSET_CELL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNOFFSET_QENTRY;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNSTATUS_CELL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_OPNSTATUS_QENTRY;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QCONFIG_CELL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QCONFIG_QENTRY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QCOUNT_CELL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDO_QCOUNT_QENTRY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QOFFSET_CELL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QOFFSET_QENTRY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QRESET_VALUE_CELL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QRESET_VALUE_QENTRY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QSTATUS_CELL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDO_QSTATUS_QENTRY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TOQ_PORT_STATE_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TOQ_STATE_MEM0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_TOQ_STATE_MEM1;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_WRED_DROP_CURVE_PROFILE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_OPN_CONFIG_BUFFER;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_OPN_CONFIG_QENTRY;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_QUEUE_CONFIG_BUFFER;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_QUEUE_CONFIG_QENTRY;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_QUEUE_OP_NODE_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                                   $name; $tr71_1; $tr71_2; $tr71_3;
if !$beagle \
'local mem MPLS_ENTRY;                                      $name; $tr71_1; $tr71_2; $tr71_3;'
local mem MPLS_OAM_ACH_TYPE_CONFIG;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MP_GROUP;                                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem NHI_GROUP_TC_PROFILE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_10_SEC_ENTRY_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_1_SEC_ENTRY_3;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_3;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_FLOW_STAT_ACCUM_ENTRY_4;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_PE_0_PROG_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_PE_1_PROG_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAMP_RX_OAM_ID_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_TX_EVC_PARAMS_ENTRY_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_TX_EVC_PARAMS_ENTRY_2;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_TX_GEN_PARAMS;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAM_DGLP_PROFILE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAM_FLEXIBLE_DOMAIN_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAM_OPCODE_CONTROL_PROFILE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem OAM_OPCODE_GROUP;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                                     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem PHYSICAL_PORT_BASE_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_OR_TRUNK_MAC_COUNT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_OR_TRUNK_MAC_LIMIT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PP_PORT_GPP_TRANSLATION_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem PP_PORT_GPP_TRANSLATION_2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem PP_PORT_GPP_TRANSLATION_3;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem PP_PORT_GPP_TRANSLATION_4;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem PP_PORT_TO_PHYSICAL_PORT_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTP_LABEL_RANGE_PROFILE_TABLE;               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER10;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER11;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER2;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER3;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER4;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER5;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER6;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER7;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER8;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DEBUG_COUNTER9;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_DFC_MSG_BIT_REMAP_PORT_3;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_INTERNAL_STREAM_MAP_PORT_3;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem RXLP_MAX_FRAME_SIZE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE_1_DMA;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE_DMA;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_ACC_TYPE_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_0;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_1;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_DATA_0;                          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem SER_RESULT_DATA_1;                                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_0;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_1;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_TO_PP_PORT_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_MACROFLOW_INDEX_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SVM_METER_TABLE;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_OFFSET_TABLE;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_POLICY_TABLE;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER0;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER1;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER10;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER11;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER2;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER3;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER4;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER5;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER6;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER7;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER8;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_DEBUG_COUNTER9;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_INT2EXT_STREAM_MAP_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_PORT_ADDR_MAP_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_PORT_STREAM_BITMAP_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem TXLP_STREAM_ADDR_MAP_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_GROUP_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_OFFSET;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                 $name; $tr71_1; $tr71_2; $tr71_3;

if !$beagle \
'local mem VFP_TCAM;                          $name; $tr71_1; $tr71_2; $tr71_3;\
local mem VFP_POLICY_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;\
local mem VLAN_MAC;                           $name; $tr71_1; $tr71_2; $tr71_3;\
local mem VLAN_XLATE;                         $name; $tr71_1; $tr71_2; $tr71_3;'

local mem VLAN_TAB;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC_OVERFLOW;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_OR_VFI_MAC_COUNT;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_OR_VFI_MAC_LIMIT;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_OVERFLOW;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                                $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------------------NOTEST memories-----------------------------------------------------
#local mem EGRESS_PACKET_BUFFER0;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGRESS_PACKET_BUFFER1;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGRESS_PACKET_BUFFER2;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGRESS_PACKET_BUFFER3;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PBE_DEBUG_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PBE_DEBUG_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_GIH_DEBUG;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_IPAD_DEBUG;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_0_HI;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_0_LO;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER2;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER3;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                       $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------------------READONLY  memories-------------------------------------------------
#local mem EGR_EDBIL_PKT_SOP;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_PKT_SOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_CELL_PKT_SOP;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L0_MIN_BUCKET_C;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L0_SHAPER_BUCKET_C;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L1_MIN_BUCKET_C;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L1_SHAPER_BUCKET_C;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L0_XOFF;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L1_XOFF;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L2_MIN_BUCKET_C;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L2_XOFF;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_PORT_SHAPER_BUCKET_C;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_S1_SHAPER_BUCKET_C;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_L2_SHAPER_BUCKET;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_PORT_TAILS;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_CBP_32B_WR_STORE_0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_CBP_32B_WR_STORE_1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_RQE_WR_COMPLETE_0;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_RQE_WR_COMPLETE_1;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_ENQ_RQE_WR_COMPLETE_2;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFI_DEBUG_MEM;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_IPCTR_PG_COUNTER_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFI_PFC_ST_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_OPN_AVG_QSIZE_BUFFER;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_OPN_AVG_QSIZE_QENTRY;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_QUEUE_DROP_THD_DEQ;         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_QUEUE_DROP_THD_ENQ;         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_OPN_DROP_THD_DEQ;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_OPN_DROP_THD_ENQ;           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_PE_GEN_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_PE_PROGRAM;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_RX_FLOW_ID;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_RX_FLOW_PARAMS;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_RX_FLOW_STATS;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAMP_SAT_TX;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RXLP_CHANNEL_CONTROL_BUFFER;         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RXLP_ERROR_ACTION_MAP_DATA;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RXLP_ERROR_ACTION_MAP_TCAM;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RXLP_INTR_DATA_MEM;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_PG_CNTRS;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_PG_CONFIG;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CNTRS;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDI_PORT_SP_CONFIG;                 $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem THDIQEN_THDI_PORT_PG_CNTRS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIQEN_THDI_PORT_PG_CONFIG;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIQEN_THDI_PORT_SP_CNTRS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIQEN_THDI_PORT_SP_CONFIG;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIRQE_THDI_PORT_PG_CNTRS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIRQE_THDI_PORT_PG_CONFIG;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIRQE_THDI_PORT_SP_CNTRS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem THDIRQE_THDI_PORT_SP_CONFIG;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_PORT_MMU_REQUESTS;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_PORT_PKT_SOP;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_PORT_REQUESTS;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_PORT_USED_ENTRIES;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_STREAM_MMU_REQUESTS;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TXLP_STREAM_USED_ENTRIES;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                          $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------------------VENDOR memories-------------------------------------------------------
#-----------------------------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56270_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_regs.c,v 1.0 13/07/2014 14:07:36 nhefetz Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_regs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/scorpion/mbcm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmSysportArrayEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmSysportArrayEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: eav.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Ethernet AV related CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/eav.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_frwrd_ipv4_test.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_frwrd_ipv4_test.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_api_action_cmd.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_action_cmd.c
No license file was found, but licenses were detected in source scan.

/*

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56524_b0.c
* Purpose:     bcm56524_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56524_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* flash.h: Common definitions for flash access.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flash.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flash.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flash.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_egr_queuing.c,v 1.88 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
*
* $Copyright: (c) 2010 Broadcom Corp.
* All Rights Reserved.$
*
* File: cint_multicast_application_port_lvl_example.c
* Purpose: Example of port level multicast configuration.
*
* The configuration needed is defined in the cint_multicast_applications.c file.
* The configuration includes the following:
*   o  Ingress FAPs: Open MC group defined by a set of {Destination System Ports, Copy-Unique-Data (CUD)}.
```

```
*   o  Egress FAPs: None.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_multicast_application_port_lvl_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200PriMemEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200PriMemEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200PriMemEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_port.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

This package was obtained from http://xmlsoft.org/downloads.html
(ftp://xmlsoft.org/libxml2/libxml2-2.7.2.tar.gz)
and was modified for purposes of inclusion into the SOC diagnostics shell.

Only certain portion of package was included in SDK in 2 places:
  Under srs/shared/libxml
    chvalid.c, config.h, dict.c, encoding.c, entities.c, error.c

globals.c, hash.c, libxml.h, list.c, Makefile, parser.c
parserInternals.c, SAX2.c, threads.c, tree.c, uri.c, valid.c
xmlIO.c, xmlmemory.c, xmlsave.c, xmlstring.c, xmlunicode.c
Under include/shared/libxml
catalog.h, chvalid.h, debugXML.h, dict.h, DOCBparser.h
encoding.h, entities.h, globals.h, hash.h, HTMLparser.h
HTMLtree.h, list.h, parser.h, parserInternals.h, pattern.h
relaxng, SAX2.h, threads.h, tree.h, uri.h, valid.h, xinclude.h
xlink.h, xmlautomata.h, xmlerror.h, xmlexports.h, xmlIO.h
xmlmemory.h, xmlmodule.h, xmlregexp.h, xmlsave.h, xmlstring.h
xmlunicode.h, xmlversion.h, xpath.h, xpathInternals.h, xpointer.h

No functionality was changed, but there were modifications to match SDK requirements

Copyright

Except where otherwise noted in the source code (e.g. the files hash.c,
list.c and the trio files, which are covered by a similar licence but
with different Copyright notices) all the files are:

Copyright (C) 1998-2003 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is fur-
nished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FIT-
NESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
DANIEL VEILLARD BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CON-
NECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of Daniel Veillard shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from him.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/libxml/README
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ovsb.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core oversub algorithms
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_ovsb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ddrc16.c
* Purpose:    Phy driver for 16nm combo DDR phy
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ddrc16.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: tmu_diags_h.stg,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_tmu_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_tmu_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c,v 1.60 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS L2 Table Manipulation API routines.
*
* The L2Xm pseudo-table is an aggregate structure supported by
* hardware.  When an entry is read from it, it is constructed from the
* L2X_BASEm, L2X_VALIDm, L2X_HITm, and L2X_STATICm tables.
* NOTE: The L2X pseudo-table is read-only.
*
* A low-level L2 shadow table is optionally kept in soc->arlShadow by
* using a callback to get all inserts/deletes from the l2xmsg task.  It
* can be disabled by setting the l2xmsg_avl property to 0.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       subport.c
* Purpose:    Subport and CoE related functions for Apache.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time-mbox.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Time - Broadcom Time BroadSync API - shared functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/time-mbox.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: async_run.c
* Purpose: Async BCM - execute a request
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/async_run.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVRT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibVRT.h
*
* <pre>
*
* ================================================================
* ==  sbZfSbQe2000ElibVIT.h - VLAN Record Table ZFrame ==
* ================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibVRT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
```

```
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibVRT.h
*
* ABSTRACT:
*
*     VLAN Record Table ZFrame Definition.  Uses 'Slim' VLAN Record.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     19-January-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVRT.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_ppd_api.h,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_ppd_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_vlan.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpPortTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpPortTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: allfields.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allfields.h
* Purpose: Field declarations for memory and registers
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/allfields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: atp.c,v 1.94 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       atp.c
* Purpose:    Acknowledged Transport Protocol and
*             Best Effort Transport
* Requires:   CPU-to-CPU module
*
* ATP is based on Jerry Zhao's implementation of "RDP", the reliable
* data protocol.  ATP provides reliable packet transfer between
```

```
* applications on different CPUs.  Reliability is achieved by
* sending an ACK for each packet exchanged.  However, a packet
* may be segmented.  ACKs may not (or may) be sent for each segment.
*
* When an ACK is not required, the transport is called BET for Best
* Effort Transport.
*
* The requirement of an ACK may be relaxed in several ways:
*
*     1.  The client may be registered as a BET client.
*     2.  An atp_tx request can be marked "no ACK required".
*         This overrides the client's setting.
*     3.  The CPU may be marked as "no ACK required" and all packets
*         destined for that CPU will be marked no-ack.  This is used
*         in particular when ATP is used to communicate across the
*         Linux user/kernel boundary.  This overrides the client's
*         setting.
*
* In any of these cases, a flag is set in the transmitted packet
* and this alone determines whether the receive side will send an
* ACK for the packet.
*
* On a per-CPU basis, the atp_tx operation can be short-circuited and
* an application's callback registered to replace the operation.  This
* is done by calling atp_tx_override_set, giving the destination key
* and the override function.  Setting this function to NULL will
* revert to normal atp_tx operation.
*
* When the atp function is overridden, the packet format must be
* carefully formed.  If it matches the atp format, the receiving side
* may send the packet into the atp stack.  This is okay, but the
* override TX function must abide by all ATP conventions (which are
* not that well documented.)  Alternatively (and more likely) the
* application will handle the reception of the packet.  It can then
* insert the packet into the callback portion of ATP by calling
* atp_rx_inject.  The two (extra) pieces of information that must be
* provided to this call are the source CPU key and the client ID.
*
* Note that overriding atp_tx must be done carefully when used
* in conjunction with TKS discovery protocols.  One possibility is
* to use different keys for a given CPU to select the transport to
* use.
*
* Other Important Notes
*
*    For an RX client, if "REASSEM_BUF" is _not_ specified and a
* multiple segment ATP transfer occurs (so the segments are communicated
* up to the callback), this is indicated by the
```

```
* "payload" parameter of the client callback be NULL.  In this case,
* the pkt->pkt_data blocks are set up with even pointers (0, 2, 4...)
* pointing to the CPU transport headers of each segment and
* the odd pointers (1, 3, 5...) pointing to the data portion of
* each segment.  pkt->blk_count is 2 * (number of segments) in this
* case.  The data pointers for each segment must be freed, but only
* one for each pair.  That is, free either the transport header pointer
* or the data pointer, but not both.
*    If only one segment occurs, then "payload" is set to point to
* the proper location in the single buffer.
*
* Table of contents (sections to look for below):
*
*     TX thread
*         Check for retransmit timeouts
*         Check BET queue separately
*     RX thread
*         Check for RX callbacks that are ready
*     Received Packet handling
*         Handle ATP data (create/update RX transaction)
*         Handle BET data (make callback from RX handler)
*         Handle ACK (update TX operation)
*         ACK out (sent immediately from RX handler)
*     ATP API functions
*         Config functions
*         start/stop
*         atp_register/unregister (clients)
*         atp_tx
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/atp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag: low-level diagnostics shell for Orion (SOC) driver.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/common/socdiag.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/user/portmod/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_mirror_erspan.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mirror_erspan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_vlan_edit.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_vlan_edit.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  phy8806x_tsc_functions.c                                *
*  Created On    :  29/04/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: phy8806x_tsc_functions.c 1346 2016-02-06 00:09:35Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_functions.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: eagle2_tsc2pll_internal.h 1457 2016-07-21 21:46:15Z cvazquez $ *
*                                                                           *
*  Description :  Internal API functions                                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_spi.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == qe2000_spi.h - QE SPI Initialization      ==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_spi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/JER/jer_tbls.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/legacy/JER/jer_tbls.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dpp/JER/jer_tbls.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/JER/jer_tbls.c
No license file was found, but licenses were detected in source scan.

/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* In-band cell configuration and Source Routed Cell.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dpp/dpp_fabric_cell.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/legacy/dnx_fabric_cell.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_vlan_egress_membership.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of UDP tunnel termination
*
* Test Configuration:
*    Create UDP tunnel terminators with default udp destination ports
*    for IPv4, IPv6 and MPLS over udp.
*    Create Ipv4, IPv6 and MPLS forwarding routes
*    Create Ipv4 forwarding route with UDP tunnel's DIP
*
* Test scenario:
* Stage 1:
*    Send IPv4oUDP tunnel packet, Receive IPv4 packet
*    Send IPv6oUDP tunnel packet, Receive IPv6 packet
*    Send MPLSoUDP tunnel packet, Receive MPLS packet
```

```
*    Send IPv4oUDPoIPv4 packet, with udp dest port different from
*    IPv4, IPv6 and MPLS detination ports, Receive IPv4oUDPoIPv4 packet
*
* Stage 2:
*    Change UDP tunnel destination ports
*    repeat step 1, with the new destination ports
*
* Example 1:
*
*         INPUT, port 200      ___________     OUTPUT, port 201
*                              |         |
*       IPv4oUDPoIPv4_udp---> | UDP      | ------> IPv4
*       IPv6oUDPoIPv4_udp---> | Tunnel   | ------> IPv6
*       MPLSoUDPoIPv4_udp---> | Term.    | ------> MPLS
*                              |___________|
*
* Example 2:
*
*  in this example udp destination port is different from udp tunnel's possible
*  destination ports (ipv4, ipv6 or mpls)
*
*         INPUT, port 200      ___________     OUTPUT, port 201
*                              |         |
*                              | UDP      |
*       IPv4oUDPoIPv4_udp---> | Tunnel   | ------> IPv4oUDPoIPv4_udp
*                              | Term.    |
*                              |___________|
*
*
* SOC properties:
* udp_tunnel_enable=1
* bcm886xx_ip4_tunnel_termination_mode=6
*
* CINT files:
* cd ../../../../src/examples/dpp/
* utility/cint_utils_l3.c
* utility/cint_utils_vlan.c
* cint_ip_tunnel.c
* cint_ip_route.c
*
* udp_tunnel_term__start_run(int unit, udp_tunnel_term_s *test_data) - test_data = NULL for default params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_udp_tunnel_term.c
No license file was found, but licenses were detected in source scan.

```
# $Id: lmfb48.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# This script runs the tr 19 test for all the 24 GE ports and 4 HiGig
# ports of the firebolt device. There are 2 firebolt devices on the
# LM48 platform.
# After running the tr 19 test, this script runs the system snake
# test for the platform.


#Set the mode argument as a variable
if $?1 'local $1 1'

#Set the duration argument as a variable
if !$?2 'local count 10'
if $?2 'local count $2'


#Check for ext_mode/int_mode argument
if !$?int_mode && !$?ext_mode || !$?1  'Echo   ; \
  Echo -----------------------------------; \
       Echo MISSING mandatory arguments:; \
       Echo   ; \
       Echo lmfb48 ext_mode <duration>; \
       Echo - run in external mode. Default duration=10 [pkts for tr19, 10sec for ss]; \
       Echo   ; \
       Echo lmfb48 int_mode <duration>; \
       Echo - run in internal mode. Default duration=10 [pkts for tr19, 10sec for ss]; \
       Echo -----------------------------------; \
       exit'



if !$?lm48p && !$?lm48p_D "echo rc: config variable lm48p or lm48p_D not set; exit"

echo " "
echo "Starting TR 19 test ..."
testmode run

1:modreg mac_ctrl.hg2 RMTLOOP=1
1:modreg mac_ctrl.hg3 RMTLOOP=1
0: tr 19 ExtselfloopPBM=hg count=$count
1:modreg mac_ctrl.hg2 RMTLOOP=0
1:modreg mac_ctrl.hg3 RMTLOOP=0

0:modreg mac_ctrl.hg2 RMTLOOP=1
0:modreg mac_ctrl.hg3 RMTLOOP=1
```

```
1: tr 19 ExtselfloopPBM=hg count=$count
0:modreg mac_ctrl.hg2 RMTLOOP=0
0:modreg mac_ctrl.hg3 RMTLOOP=0

echo " "
echo "Starting System snake test ..."

if $?ext_mode 'Echo (in external mode);0:ss mode=ext duration=$count'
if $?int_mode 'Echo (in internal mode);0:ss duration=$count'
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lmfb48.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       arad_link.h
* Purpose:     Arad linkscan definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_link.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* ====================================================================
* ==  sbG2EplibCt.c - QE2000 Egress Class Table initialization functions ==
* ====================================================================
*
* WORKING REVISION: $Id: sbG2EplibCt.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibCt.c
*
* ABSTRACT:
*
*     QE2000 Egress Class Table initialization functions
*
* LANGUAGE:
```

```
*
*     C
*
* AUTHORS:
*
*     Josh Weissman
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-March-2005
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbG2EplibCt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/trunk.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_wb_engine_defs.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_wb_engine_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/oam.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: eagle_merlin_api_uc_common.h 1292 2015-12-14 19:42:30Z kirand $ *
*                                                                                       *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.h
* Purpose:     Register/memory field descriptions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/field.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_counter_processor.c
* Purpose:     Example of configuring counter processor statistics gatheting using dynamic APIs.
*
* *
* The settings include:
*  - Configuring engine's counting source, and counting formats.
*  - Configuring LIF counting ranges.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_counter_processor.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 857 2015-01-16 22:22:38Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common/srds_api_err_code.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/common/srds_api_err_code.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600LinkFailureInfo.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600LinkFailureInfo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkSdkDebug.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkSdkDebug.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkSdkDebug.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_cell.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Memory (Table) Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/robo/gex/dino8/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.106 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L3 CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/l3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_encap.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_encap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: chipsim.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chipsim.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/chipsim.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_presel_in_out_ports.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_presel_in_out_ports.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       arad_link.c
* Purpose:     Hardware Linkscan module
*
* These routines will be called by the linkscan module,
* so they need to be defined and return SOC_E_NONE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_negev_demo.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_negev_demo.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=24
ucode_port.port1.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port2.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port3.0=clport0.hg10.0.0-1:il1.il100.0.0-1
```

```
ucode_port.port4.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port5.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port6.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port7.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port8.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port9.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port10.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port11.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port12.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port13.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port14.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port15.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port16.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port17.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port18.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port19.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port20.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port21.0=clport0.xe.1.0:il1.il100.0.2
ucode_port.port22.0=clport0.xe.1.1:il1.il100.0.3
ucode_port.port23.0=clport0.xe.1.2:il1.il100.0.4
ucode_port.port24.0=clport0.xe.1.3:il1.il100.0.5

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_hg0=0x1230
xgxs_rx_lane_map_xe0=0x1032

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_xe0=0x3210


phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg10=0x0000
phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001


phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001
phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
```

```
phy_xaui_tx_polarity_flip_xe3=0x0001



#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d

ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_2xhg10-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: diag_alloc.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: diag_alloc.c
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_alloc.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: wb_db_qos.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: QOS APIs
*
* Purpose:
*     QOS API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_qos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200PriMemEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200PriMemEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200PriMemEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_elk_acl_5_tuples_ip4_uc.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_elk_acl_5_tuples_ip4_uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gxmac.c,v 1.73 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS 1/2.5/10/12G Media Access Controller Driver (gxmac)
```

```
*
* This module is used for:
*
*   - All ports on XGS3 HUMV/Bradley/Goldwing family
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/gxmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVlanMemConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVlanMemConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_frwrd_ilm.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ilm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeThreshLutEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsAgeThreshLutEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_captured_buffer.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* SOC DNXC CAPTURED BUFFER
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_captured_buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_mmu.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_mmu.c
* Purpose: This file implements techsupport utility for
*          mmu.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mmu/techsupport_mmu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_trill_roo.c,v 1.45 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trill_roo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.116 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet Statistics Counter Management
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2_tcb.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk2_tcb.c
* Purpose: Maintains all the debug information for tcb
*          feature for tomahawk2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/tcb/tomahawk2_tcb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/port_map.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_drv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_drv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/port_map.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: kconfig.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Configuration Variable Support
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-core/kconfig.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     BCM56840 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/fabric.h
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and
*  conditions of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250MacEnd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/bcm1250MacEnd.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/bcm1250MacEnd.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_line_tevb.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_line_tevb.c
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
#* $Id: an_cl37_1g.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*-----------------------------------------------------------------------
#* File       : an_cl37_1g.soc
#* Description: an_cl37_1g
#*-----------------------------------------------------------------------*/

link off
phy xe0 0x2c050 0x001c
phy xe1 0x2c050 0x001c

port xe0,xe1 adv=1000full an=t

phy xe0 0x2c180 0x0000
phy xe1 0x2c180 0x0000
phy xe0 0x2c181 0x10
phy xe1 0x2c181 0x10

phy xe0 0x9000 0x6600
phy xe1 0x9000 0x6600

phy xe0 0x2c180 0x0000
phy xe1 0x2c180 0x0000
phy xe0 0x2c180 0x0040
phy xe1 0x2c180 0x0040
```

```
#phy xe0 0x2c054
#phy xe0 0x2c1ad
#phy xe1 0x2c054
#phy xe1 0x2c1ad
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/an_cl37_1g.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: falcon2_dino_debug_functions.h 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                                        *
*  Description   :  Functions used internally and available in debug shell only         *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_dump.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sw_state_dump.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/diag/dpp/sw_state_dump.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IP Multicast API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* $Copyright: (c) Broadcom Corporation
* All rights reserved $
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Author: vn-1109210841
*
* t3p1a__PkgInt__initDefault(C3Asm3__PkgInt *_p)
*
* static data for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1a_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: headers.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC utility routines for managing DPP headers
```

```
*  ITMH: Ingress Traffic Management Header
*  FTMH: Fabric Traffic Management Header
*  OTMH: Outgoing Traffic Management Header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/headers.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_framework.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_framework.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: device_cosq.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       device_cosq.c
* Purpose:    Implement Hybrid resource allocation algorithm. This is
*             shared across devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/device_cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Broadcom Switch API calls compatible with Robo, Strata, and XGS
*  device driver API's and SDK's.
*
*  This module provides a high-level programming abstraction
*  for programming Layer-2 ethernet switch ASIC's.
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
```

```
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.h,v 1.3 2007/10/08 22:31:08 iakramov Exp $
*
*  TODO: Support for DiffServ, Layer3, Filtering
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/swapi.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_tsc_internal.c                                    *
*  Created On    :  13/02/2014                                              *
*  Created By    :  Justin Gaither                                          *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: eagle_tsc_internal.c 1138 2015-09-17 20:58:34Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_internal_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane.h
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hurricane.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.471 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: VLAN management
*
* Purpose:
*     These routines manage the VTABLE entries as well as VLAN-related
*     fields in the PTABLE.
*
*     The bcm layer keeps the VTABLE and PTABLE coherent in terms of
*     what ports belong to what VLANs and which ports are untagged.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_egr_queuing.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fe600_api.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fe600_api.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*     Copyright (c) 1999-2013, Broadcom Corporation
*     All Rights Reserved
*     Confidential Property of Broadcom Corporation
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on        Fri Jun 28 04:13:30 2013
*              MD5 Checksum        327f72e85e64afb2b473248f4b1b9231
*
* Compiled with:  RDB Utility          5.0
*              RDB Parser          3.0
*              rdb2macro.pm        4.0
*              Perl Interpreter    5.008008
*              Operating System    solaris
*
* Spec Versions:  BASER_PCS_DETECT     1
*              GP2                 1
*              IEEE0_AN_BLK        1
*              IEEE0_BLK_PMA_PMD   1
*              IEEE10_BLK_PMA_PMD  1
*              IEEE1_AN_BLK        1
*              IEEE3_AN_BLK        1
*              LN_FC_RX            1
*              RX                  1
*              TX                  1
*              XGXS_BLK0           1
*              XGXS_BLK1           1
*              XGXS_BLK2           1
```

```
*               XGXS_BLK8           1
*               ams_rx              1
*               ams_tx              1
*               amscom              1
*               ckrst_ctrl          1
*               cl72_ieee_rx        1
*               cl72_ieee_tx        1
*               cl72_user_rx        1
*               cl72_user_tx_rptr   1
*               digcom_gallardo     1
*               dsc_a               1
*               dsc_b               1
*               dsc_c               1
*               dsc_d               1
*               dsc_e               1
*               mgt_top             1
*               patt_gen            1
*               pll_cal             1
*               sigdet              1
*               tlb_rx              1
*               tlb_tx              1
*               tx_fed_rptr         1
*               tx_pi               1
*               txcom_rptr          1
*
* RDB Files:  /projects/ntsw-
sw2/home/arunkuma/gallardo28/sdk/src/soc/phy/regs/scripts/Linux/phy82328_register.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82328.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx.h,v 1.82.16.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/sbx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv4TosEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassIPv4TosEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200NmEmapEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NmEmapEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200NmEmapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*! \file bcm_int/dnx/rx/rx.h
* $Id$
```

```
*
* Internal DNX RX APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/rx/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
/*
* Common [OS-independent] portion of
* Broadcom Home Networking Division 10/100 Mbit/s Ethernet
* Device Driver.
*
* $Id: etc.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/etc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: 24c64.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for ATMEL 24LC64 EEPROM
*
* The AT24C32/64 provides for 32,768 or 65,536 bits of electrically
* eraseable programmable read only memory (EEPROM) organized as
* 4096/8192 bytes. The AT24C32/64 chips are internally organized
* as 128/256 pages of 32 bytes each, hence a page addressing mode
```

```
* is available.
* The top quadrant (1024/2048 bytes) can be write protected. This is
* where the Board Information Structure (BIS) is stored; it is not
* subject to any destructive memory integrity tests.
*
* See also: AT24C64 Data Sheet
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/24c64.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_main.c
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_c2_setup.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Configuration examples for:
*
*       2xCaladan2+1xSirius+1xPolaris
*
* The script includes Caladan(2) configuration only.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/cint_c2_setup.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_intr_corr_act_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement Correction action functions for ramon interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_intr_corr_act_func.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_mbist.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_mbist.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc

echo "there are 917 more memories to test.";echo "tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1";tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 51 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min IE=max ITERations=1";tr 51 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 915 more memories to test.";echo "tr 51 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1";tr 51 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
#echo "there are 914 more memories to test.";echo "tr 51 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1";tr 51 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 51 M=PORT_COS_MAP IS=min IE=max ITERations=1";tr 51 M=PORT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 51 M=COS_MAP_SEL IS=min IE=max ITERations=1";tr 51 M=COS_MAP_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 911 more memories to test.";echo "tr 51 M=CPU_COS_MAP IS=min IE=max ITERations=1";tr 51
```

```
M=CPU_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 910 more memories to test.";echo "tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 909 more memories to test.";echo "tr 51 M=CPU_COS_MAP_ONLY IS=min IE=max
ITERations=1";tr 51 M=CPU_COS_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 908 more memories to test.";echo "tr 51 M=CPU_PBM IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 907 more memories to test.";echo "tr 51 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 906 more memories to test.";echo "tr 51 M=CPU_TS_MAP IS=min IE=max ITERations=1";tr 51
M=CPU_TS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 905 more memories to test.";echo "tr 51 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max
ITERations=1";tr 51 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 904 more memories to test.";echo "tr 51 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max
ITERations=1";tr 51 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 903 more memories to test.";echo "tr 51 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max
ITERations=1";tr 51 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 51 M=DEST_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 51 M=DEST_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 901 more memories to test.";echo "tr 51 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 51 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 900 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=max
ITERations=1;echo "done";
echo "there are 898 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_CONTROL IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 897 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_STATS IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 51 M=DLB_HGT_HIST_LOAD IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_HIST_LOAD IS=min IE=max ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 51 M=DLB_HGT_INST_LOAD IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_INST_LOAD IS=min IE=max ITERations=1;echo "done";
echo "there are 893 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 892 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_STATUS IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_MEMBER_STATUS IS=min IE=max ITERations=1;echo "done";
#echo "there are 891 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0
ITERations=1";tr 51 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0 ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 51 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 888 more memories to test.";echo "tr 51 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 886 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_RESULT IS=min IE=max
ITERations=1";tr 51 M=DLB_HGT_QUALITY_RESULT IS=min IE=max ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 51 M=DLB_HGT_RR_SELECTION_POINTER IS=min
IE=max ITERations=1";tr 51 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=max ITERations=1;echo
"done";
#echo "there are 883 more memories to test.";echo "tr 51 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=0 ITERations=1;echo "done";
#echo "there are 882 more memories to test.";echo "tr 51 M=DOP_EFPPARS_OUTBUS_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPPARS_OUTBUS_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 881 more memories to test.";echo "tr 51 M=DOP_EFPPARS_OUTBUS_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPPARS_OUTBUS_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 880 more memories to test.";echo "tr 51 M=DOP_EFPPARS_OUTBUS_2 IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPPARS_OUTBUS_2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 879 more memories to test.";echo "tr 51 M=DOP_EFPPARS_OUTBUS_3 IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPPARS_OUTBUS_3 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 878 more memories to test.";echo "tr 51 M=DOP_EFPPARS_OUTBUS_4 IS=min IE=0
ITERations=1";tr 51 M=DOP_EFPPARS_OUTBUS_4 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 877 more memories to test.";echo "tr 51 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min
IE=0 ITERations=1";tr 51 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 876 more memories to test.";echo "tr 51 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min
IE=0 ITERations=1";tr 51 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 875 more memories to test.";echo "tr 51 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min
IE=0 ITERations=1";tr 51 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 874 more memories to test.";echo "tr 51 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 873 more memories to test.";echo "tr 51 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 872 more memories to test.";echo "tr 51
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1";tr 51
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 871 more memories to test.";echo "tr 51 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=0 ITERations=1";tr 51 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 870 more memories to test.";echo "tr 51 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0
IS=min IE=0 ITERations=1";tr 51 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 869 more memories to test.";echo "tr 51 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1
IS=min IE=0 ITERations=1";tr 51 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 868 more memories to test.";echo "tr 51 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min
```

```
IE=0 ITERations=1";tr 51 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 867 more memories to test.";echo "tr 51 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min
IE=0 ITERations=1";tr 51 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 866 more memories to test.";echo "tr 51 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min IE=0
ITERations=1";tr 51 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 865 more memories to test.";echo "tr 51 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min
IE=0 ITERations=1";tr 51 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 864 more memories to test.";echo "tr 51 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0
IS=min IE=0 ITERations=1";tr 51 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 51 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 862 more memories to test.";echo "tr 51
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1";tr 51
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 861 more memories to test.";echo "tr 51 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=0 ITERations=1";tr 51 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 860 more memories to test.";echo "tr 51 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE
IS=min IE=0 ITERations=1";tr 51 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE IS=min IE=0
ITERations=1;echo "done";
#echo "there are 859 more memories to test.";echo "tr 51 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min
IE=0 ITERations=1";tr 51 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min IE=0 ITERations=1;echo
"done";
echo "there are 858 more memories to test.";echo "tr 51 M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max
ITERations=1";tr 51 M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 857 more memories to test.";echo "tr 51 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max
ITERations=1";tr 51 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max ITERations=1;echo "done";
#echo "there are 856 more memories to test.";echo "tr 51 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 855 more memories to test.";echo "tr 51 M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=0 ITERations=1;echo "done";
#echo "there are 854 more memories to test.";echo "tr 51 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 853 more memories to test.";echo "tr 51 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 852 more memories to test.";echo "tr 51 M=DOP_L2_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 851 more memories to test.";echo "tr 51 M=DOP_L2_ENTRY_KEY_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_L2_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 850 more memories to test.";echo "tr 51 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 849 more memories to test.";echo "tr 51 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 848 more memories to test.";echo "tr 51 M=DOP_L3_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_L3_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 847 more memories to test.";echo "tr 51 M=DOP_L3_ENTRY_KEY_1 IS=min IE=0
```

```
ITERations=1";tr 51 M=DOP_L3_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 846 more memories to test.";echo "tr 51 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 845 more memories to test.";echo "tr 51 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 844 more memories to test.";echo "tr 51 M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 843 more memories to test.";echo "tr 51 M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 842 more memories to test.";echo "tr 51 M=DOP_RTAG7_HASH_KEY IS=min IE=0
ITERations=1";tr 51 M=DOP_RTAG7_HASH_KEY IS=min IE=0 ITERations=1;echo "done";
#echo "there are 841 more memories to test.";echo "tr 51 M=DOP_RTAG7_HASH_VALUE IS=min IE=0
ITERations=1";tr 51 M=DOP_RTAG7_HASH_VALUE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 840 more memories to test.";echo "tr 51 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=0
ITERations=1";tr 51 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 839 more memories to test.";echo "tr 51 M=DOP_UDF_TCAM IS=min IE=0 ITERations=1";tr 51
M=DOP_UDF_TCAM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 838 more memories to test.";echo "tr 51 M=DOP_VFP_HIT_STATUS IS=min IE=0
ITERations=1";tr 51 M=DOP_VFP_HIT_STATUS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 837 more memories to test.";echo "tr 51 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 836 more memories to test.";echo "tr 51 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 835 more memories to test.";echo "tr 51 M=DOP_VLAN_XLATE_KEY_0 IS=min IE=0
ITERations=1";tr 51 M=DOP_VLAN_XLATE_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 834 more memories to test.";echo "tr 51 M=DOP_VLAN_XLATE_KEY_1 IS=min IE=0
ITERations=1";tr 51 M=DOP_VLAN_XLATE_KEY_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 833 more memories to test.";echo "tr 51 M=DROP_VECTOR_MASK IS=min IE=max
ITERations=1";tr 51 M=DROP_VECTOR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 832 more memories to test.";echo "tr 51 M=DSCP_TABLE IS=min IE=max ITERations=1";tr 51
M=DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS IS=min IE=max ITERations=1";tr
51 M=E2E_HOL_STATUS IS=min IE=max ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS_1 IS=min IE=max
ITERations=1";tr 51 M=E2E_HOL_STATUS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 51 M=EFFECTIVE_PHB_SELECT IS=min IE=max
ITERations=1";tr 51 M=EFFECTIVE_PHB_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 828 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 827 more memories to test.";echo "tr 51 M=EFP_METER_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=EFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 51 M=EFP_TCAM IS=min IE=max ITERations=1";tr 51
M=EFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 51 M=EGR_1588_SA IS=min IE=max ITERations=1";tr 51
M=EGR_1588_SA IS=min IE=max ITERations=1;echo "done";
echo "there are 823 more memories to test.";echo "tr 51 M=EGR_COUNTER_CONTROL IS=min IE=max
```

```
ITERations=1";tr 51 M=EGR_COUNTER_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 822 more memories to test.";echo "tr 51 M=EGR_DGPP_TO_NHI IS=min IE=max
ITERations=1";tr 51 M=EGR_DGPP_TO_NHI IS=min IE=max ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 51 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max
ITERations=1";tr 51 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 51 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1";tr
51 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=max
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 51 M=EGR_EDB_XMIT_CTRL IS=min IE=max
ITERations=1";tr 51 M=EGR_EDB_XMIT_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 51 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max
ITERations=1";tr 51 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 814 more memories to test.";echo "tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 813 more memories to test.";echo "tr 51 M=EGR_ENABLE IS=min IE=max ITERations=1";tr 51
M=EGR_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min
IE=max ITERations=1";tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=max ITERations=1;echo
"done";
echo "there are 811 more memories to test.";echo "tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 810 more memories to test.";echo "tr 51 M=EGR_FCOE_CONTROL_1 IS=min IE=0
ITERations=1";tr 51 M=EGR_FCOE_CONTROL_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 809 more memories to test.";echo "tr 51 M=EGR_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 51 M=EGR_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 808 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 807 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 806 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 805 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 804 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 803 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 802 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 801 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 800 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 799 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 798 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 797 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 796 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 51 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max
ITERations=1";tr 51 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 51 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max
ITERations=1";tr 51 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max
ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=max
ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=max ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=max ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 790 more memories to test.";echo "tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max
ITERations=1";tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 51 M=EGR_ING_PORT IS=min IE=max ITERations=1";tr 51
M=EGR_ING_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 51 M=EGR_IPMC IS=min IE=max ITERations=1";tr 51
M=EGR_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 787 more memories to test.";echo "tr 51 M=EGR_IPMC_CFG2 IS=min IE=max ITERations=1";tr
51 M=EGR_IPMC_CFG2 IS=min IE=max ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1";tr
51 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 785 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max
ITERations=1";tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ITERations=1;echo "done";
echo "there are 784 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=max
ITERations=1";tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 783 more memories to test.";echo "tr 51 M=EGR_L3_INTF IS=min IE=max ITERations=1";tr 51
M=EGR_L3_INTF IS=min IE=max ITERations=1;echo "done";
echo "there are 782 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 781 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_L3_NEXT_HOP_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 780 more memories to test.";echo "tr 51 M=EGR_LPORT_PROFILE IS=min IE=max
```

```
ITERations=1";tr 51 M=EGR_LPORT_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 779 more memories to test.";echo "tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 778 more memories to test.";echo "tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 777 more memories to test.";echo "tr 51 M=EGR_MAP_MH IS=min IE=max ITERations=1";tr 51
M=EGR_MAP_MH IS=min IE=max ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 51 M=EGR_MASK IS=min IE=max ITERations=1";tr 51
M=EGR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 775 more memories to test.";echo "tr 51 M=EGR_MASK_MODBASE IS=min IE=max
ITERations=1";tr 51 M=EGR_MASK_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 774 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 773 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 772 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 771 more memories to test.";echo "tr 51 M=EGR_MMU_CREDIT_LIMIT IS=min IE=max
ITERations=1";tr 51 M=EGR_MMU_CREDIT_LIMIT IS=min IE=max ITERations=1;echo "done";
echo "there are 770 more memories to test.";echo "tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 769 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 768 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 767 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 766 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 765 more memories to test.";echo "tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 764 more memories to test.";echo "tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ITERations=1";tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 763 more memories to test.";echo "tr 51 M=EGR_MTU IS=min IE=max ITERations=1";tr 51
M=EGR_MTU IS=min IE=max ITERations=1;echo "done";
#echo "there are 762 more memories to test.";echo "tr 51 M=EGR_MULTICAST_MAC_ADDR IS=min IE=0
ITERations=1";tr 51 M=EGR_MULTICAST_MAC_ADDR IS=min IE=0 ITERations=1;echo "done";
echo "there are 761 more memories to test.";echo "tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
ITERations=1";tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max ITERations=1;echo "done";
echo "there are 760 more memories to test.";echo "tr 51 M=EGR_NETWORK_PRUNE_CONTROL IS=min
IE=max ITERations=1";tr 51 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=max ITERations=1;echo
"done";
#echo "there are 759 more memories to test.";echo "tr 51 M=EGR_OLP_CONFIG_1 IS=min IE=0
ITERations=1";tr 51 M=EGR_OLP_CONFIG_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 758 more memories to test.";echo "tr 51 M=EGR_OLP_CONFIG_2 IS=min IE=0
ITERations=1";tr 51 M=EGR_OLP_CONFIG_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 757 more memories to test.";echo "tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=max
```

```
ITERations=1";tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 51 M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 755 more memories to test.";echo "tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min
IE=max ITERations=1";tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=max ITERations=1;echo
"done";
echo "there are 754 more memories to test.";echo "tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min
IE=max ITERations=1";tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 753 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max
ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 752 more memories to test.";echo "tr 51 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=max ITERations=1";tr 51 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=max ITERations=1;echo
"done";
echo "there are 751 more memories to test.";echo "tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ITERations=1";tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max ITERations=1;echo
"done";
echo "there are 750 more memories to test.";echo "tr 51 M=EGR_PFC_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EGR_PFC_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 749 more memories to test.";echo "tr 51 M=EGR_PORT IS=min IE=max ITERations=1";tr 51
M=EGR_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 748 more memories to test.";echo "tr 51 M=EGR_PORT_1 IS=min IE=max ITERations=1";tr 51
M=EGR_PORT_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 747 more memories to test.";echo "tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=max
ITERations=1";tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=max ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 745 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=max
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=max ITERations=1;echo "done";
#echo "there are 744 more memories to test.";echo "tr 51 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0
ITERations=1";tr 51 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 743 more memories to test.";echo "tr 51 M=EGR_SER_FIFO IS=min IE=max ITERations=1";tr 51
M=EGR_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 742 more memories to test.";echo "tr 51 M=EGR_SHAPING_CONTROL IS=min IE=max
ITERations=1";tr 51 M=EGR_SHAPING_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 740 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 739 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0
ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 738 more memories to test.";echo "tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=max ITERations=1";tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max ITERations=1;echo
"done";
echo "there are 737 more memories to test.";echo "tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 736 more memories to test.";echo "tr 51 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 51 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 735 more memories to test.";echo "tr 51 M=EGR_VFI IS=min IE=max ITERations=1";tr 51
M=EGR_VFI IS=min IE=max ITERations=1;echo "done";
echo "there are 734 more memories to test.";echo "tr 51 M=EGR_VFT_FIELDS_PROFILE IS=min IE=max
ITERations=1";tr 51 M=EGR_VFT_FIELDS_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 733 more memories to test.";echo "tr 51 M=EGR_VFT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_VFT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 51 M=EGR_VLAN IS=min IE=max ITERations=1";tr 51
M=EGR_VLAN IS=min IE=max ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_1 IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_2 IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 729 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_3 IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 51 M=EGR_VLAN_STG IS=min IE=max ITERations=1";tr
51 M=EGR_VLAN_STG IS=min IE=max ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 726 more memories to test.";echo "tr 51 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 724 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 723 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=max
ITERations=1";tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 722 more memories to test.";echo "tr 51 M=EGR_VPLAG_GROUP IS=min IE=max
ITERations=1";tr 51 M=EGR_VPLAG_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 51 M=EGR_VPLAG_MEMBER IS=min IE=max
ITERations=1";tr 51 M=EGR_VPLAG_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=max ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 716 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 715 more memories to test.";echo "tr 51 M=EGR_VSAN_INTPRI_MAP IS=min IE=max
ITERations=1";tr 51 M=EGR_VSAN_INTPRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL IS=min IE=max
```

```
ITERations=1";tr 51 M=EMIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL1 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 712 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL2 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 711 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL3 IS=min IE=max
ITERations=1";tr 51 M=EMIRROR_CONTROL3 IS=min IE=max ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 51 M=EM_MTP_INDEX IS=min IE=max ITERations=1";tr
51 M=EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 51 M=ENDPOINT_COS_MAP IS=min IE=max
ITERations=1";tr 51 M=ENDPOINT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 51 M=ENDPOINT_QUEUE_MAP IS=min IE=max
ITERations=1";tr 51 M=ENDPOINT_QUEUE_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 707 more memories to test.";echo "tr 51 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 51
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 706 more memories to test.";echo "tr 51 M=EP_CTC_RES_TABLE IS=min IE=max
ITERations=1";tr 51 M=EP_CTC_RES_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 705 more memories to test.";echo "tr 51 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 51 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 51 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max
ITERations=1";tr 51 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 703 more memories to test.";echo "tr 51 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 702 more memories to test.";echo "tr 51 M=EXT_TM_MANAGED_PORT IS=min IE=0
ITERations=1";tr 51 M=EXT_TM_MANAGED_PORT IS=min IE=0 ITERations=1;echo "done";
echo "there are 701 more memories to test.";echo "tr 51 M=FCOE_HOP_COUNT_FN IS=min IE=max
ITERations=1";tr 51 M=FCOE_HOP_COUNT_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 700 more memories to test.";echo "tr 51 M=FC_MAP_PROFILE IS=min IE=max ITERations=1";tr
51 M=FC_MAP_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 699 more memories to test.";echo "tr 51 M=FP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 51 M=FP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
#echo "there are 698 more memories to test.";echo "tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=max
ITERations=1";tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 697 more memories to test.";echo "tr 51 M=FP_GM_FIELDS IS=min IE=max ITERations=1";tr 51
M=FP_GM_FIELDS IS=min IE=max ITERations=1;echo "done";
echo "there are 696 more memories to test.";echo "tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 695 more memories to test.";echo "tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 694 more memories to test.";echo "tr 51 M=FP_METER_CONTROL IS=min IE=max
ITERations=1";tr 51 M=FP_METER_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 693 more memories to test.";echo "tr 51 M=FP_METER_TABLE IS=min IE=max ITERations=1";tr
51 M=FP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 692 more memories to test.";echo "tr 51 M=FP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=FP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 691 more memories to test.";echo "tr 51 M=FP_PORT_FIELD_SEL IS=min IE=max
ITERations=1";tr 51 M=FP_PORT_FIELD_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 690 more memories to test.";echo "tr 51 M=FP_PORT_METER_MAP IS=min IE=max
```

```
ITERations=1";tr 51 M=FP_PORT_METER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 51 M=FP_RANGE_CHECK IS=min IE=max
ITERations=1";tr 51 M=FP_RANGE_CHECK IS=min IE=max ITERations=1;echo "done";
#echo "there are 688 more memories to test.";echo "tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 687 more memories to test.";echo "tr 51 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 51
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 686 more memories to test.";echo "tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=max
ITERations=1";tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=max ITERations=1;echo "done";
echo "there are 685 more memories to test.";echo "tr 51 M=FP_TCAM IS=min IE=max ITERations=1";tr 51
M=FP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 51 M=GTP_PORT_TABLE IS=min IE=max ITERations=1";tr
51 M=GTP_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 683 more memories to test.";echo "tr 51 M=HG_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 682 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 681 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 680 more memories to test.";echo "tr 51 M=HG_TRUNK_GROUP IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 679 more memories to test.";echo "tr 51 M=HG_TRUNK_MEMBER IS=min IE=max
ITERations=1";tr 51 M=HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
#echo "there are 678 more memories to test.";echo "tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 677 more memories to test.";echo "tr 51 M=IARB_ING_PORT_TABLE IS=min IE=max
ITERations=1";tr 51 M=IARB_ING_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 676 more memories to test.";echo "tr 51 M=IARB_MAIN_TDM IS=min IE=max ITERations=1";tr
51 M=IARB_MAIN_TDM IS=min IE=max ITERations=1;echo "done";
echo "there are 675 more memories to test.";echo "tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=max
ITERations=1";tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 673 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 672 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 671 more memories to test.";echo "tr 51 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 670 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 669 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 668 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 667 more memories to test.";echo "tr 51 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 666 more memories to test.";echo "tr 51 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
```

```
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 665 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 664 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 663 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 662 more memories to test.";echo "tr 51 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 661 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 660 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 659 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 658 more memories to test.";echo "tr 51 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 657 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 656 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 655 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 654 more memories to test.";echo "tr 51 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 653 more memories to test.";echo "tr 51 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 652 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 651 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 650 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 649 more memories to test.";echo "tr 51 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 648 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 647 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 646 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 645 more memories to test.";echo "tr 51 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 644 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 643 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=0
```

```
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 642 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 641 more memories to test.";echo "tr 51 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 640 more memories to test.";echo "tr 51 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 639 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 638 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 637 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 636 more memories to test.";echo "tr 51 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 51 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 631 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 630 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 629 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 628 more memories to test.";echo "tr 51 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 627 more memories to test.";echo "tr 51 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 626 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 625 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 624 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 623 more memories to test.";echo "tr 51 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max
```

```
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 51 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 616 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 615 more memories to test.";echo "tr 51 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 51 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 613 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 612 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 611 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 610 more memories to test.";echo "tr 51 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 609 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 51 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 605 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 604 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 603 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 602 more memories to test.";echo "tr 51 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 51 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 600 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 599 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 598 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 597 more memories to test.";echo "tr 51 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=0
```

```
ITERations=1";tr 51 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 51 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 592 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 591 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 590 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 589 more memories to test.";echo "tr 51 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 588 more memories to test.";echo "tr 51 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 587 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 586 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 585 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 584 more memories to test.";echo "tr 51 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 583 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 582 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 51 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 579 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 578 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 577 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 576 more memories to test.";echo "tr 51 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 51 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 574 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=0
```

```
ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 573 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 572 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 571 more memories to test.";echo "tr 51 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 51 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 51 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 566 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 565 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 564 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 563 more memories to test.";echo "tr 51 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 562 more memories to test.";echo "tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 51 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 561 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 560 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 559 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 558 more memories to test.";echo "tr 51 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 51 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 557 more memories to test.";echo "tr 51 M=IFP_COS_MAP IS=min IE=max ITERations=1";tr 51
M=IFP_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 556 more memories to test.";echo "tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=max
ITERations=1";tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 555 more memories to test.";echo "tr 51 M=IMIRROR_BITMAP IS=min IE=max ITERations=1";tr
51 M=IMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 51 M=IM_MTP_INDEX IS=min IE=max ITERations=1";tr 51
M=IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 553 more memories to test.";echo "tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=max
ITERations=1";tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max
ITERations=1";tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
#echo "there are 551 more memories to test.";echo "tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=0
ITERations=1";tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=0 ITERations=1;echo "done";
```

```
echo "there are 550 more memories to test.";echo "tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max
ITERations=1";tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 51 M=ING_DVP_2_TABLE IS=min IE=max
ITERations=1";tr 51 M=ING_DVP_2_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 51 M=ING_DVP_TABLE IS=min IE=max ITERations=1";tr
51 M=ING_DVP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 547 more memories to test.";echo "tr 51 M=ING_EGRMSKBMAP IS=min IE=max
ITERations=1";tr 51 M=ING_EGRMSKBMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 546 more memories to test.";echo "tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 51 M=ING_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 51 M=ING_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 542 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 541 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 540 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 539 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 538 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 537 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max ITERations=1;echo
"done";
echo "there are 536 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=max ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 535 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 530 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=max ITERations=1";tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max
ITERations=1;echo "done";
#echo "there are 521 more memories to test.";echo "tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=0 ITERations=1";tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=0 ITERations=1;echo "done";
echo "there are 520 more memories to test.";echo "tr 51 M=ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 51 M=ING_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=ING_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 518 more memories to test.";echo "tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 517 more memories to test.";echo "tr 51 M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 51 M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 51 M=ING_NETWORK_PRUNE_CONTROL IS=min
IE=max ITERations=1";tr 51 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 515 more memories to test.";echo "tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 514 more memories to test.";echo "tr 51
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max ITERations=1";tr
51 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 51 M=ING_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=max
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 510 more memories to test.";echo "tr 51 M=ING_SER_FIFO IS=min IE=max ITERations=1";tr 51
M=ING_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 509 more memories to test.";echo "tr 51 M=ING_SNAT IS=min IE=max ITERations=1";tr 51
```

```
M=ING_SNAT IS=min IE=max ITERations=1;echo "done";
echo "there are 508 more memories to test.";echo "tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 51 M=ING_SNAT_ONLY IS=min IE=max ITERations=1";tr
51 M=ING_SNAT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 51 M=ING_SVM_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_SVM_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 51 M=ING_SVM_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_SVM_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 51 M=ING_SVM_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_SVM_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 51 M=ING_SVM_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_SVM_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 51 M=ING_SVM_TOS_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_SVM_TOS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 500 more memories to test.";echo "tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 499 more memories to test.";echo "tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=0 ITERations=1";tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=0
ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 51 M=ING_UNTAGGED_PHB IS=min IE=max
ITERations=1";tr 51 M=ING_UNTAGGED_PHB IS=min IE=max ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 51 M=ING_VFT_PRI_MAP IS=min IE=max
ITERations=1";tr 51 M=ING_VFT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 51 M=ING_VLAN_RANGE IS=min IE=max
ITERations=1";tr 51 M=ING_VLAN_RANGE IS=min IE=max ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 494 more memories to test.";echo "tr 51 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=max ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 490 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 51 M=ING_VSAN IS=min IE=max ITERations=1";tr 51
```

```
M=ING_VSAN IS=min IE=max ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1";tr
51 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=max
ITERations=1";tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE
IS=min IE=max ITERations=1";tr 51 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=max
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 51 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max
ITERations=1";tr 51 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ITERations=1";tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 479 more memories to test.";echo "tr 51 M=IP_MULTICAST_TCAM IS=min IE=max
ITERations=1";tr 51 M=IP_MULTICAST_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 477 more memories to test.";echo "tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 51 M=L2MC IS=min IE=max ITERations=1";tr 51 M=L2MC
IS=min IE=max ITERations=1;echo "done";
#echo "there are 475 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 474 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
#echo "there are 473 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 472 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 51 M=L2_ENDPOINT_ID IS=min IE=max ITERations=1";tr
51 M=L2_ENDPOINT_ID IS=min IE=max ITERations=1;echo "done";
echo "there are 470 more memories to test.";echo "tr 51 M=L2X IS=min IE=max ITERations=1";tr 51 M=L2X
IS=min IE=max ITERations=1;echo "done";
#echo "there are 469 more memories to test.";echo "tr 51 M=L2_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 51 M=L2_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
#echo "there are 468 more memories to test.";echo "tr 51 M=L2_ENTRY_LP IS=min IE=max ITERations=1";tr 51
M=L2_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY IS=min IE=max ITERations=1";tr
51 M=L2_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 465 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY IS=min IE=max ITERations=1";tr
51 M=L2_HITDA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY IS=min IE=max ITERations=1";tr
51 M=L2_HITSA_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 463 more memories to test.";echo "tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=0
ITERations=1";tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=0 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 51 M=L2_MOD_FIFO IS=min IE=max ITERations=1";tr 51
M=L2_MOD_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 51 M=L2_USER_ENTRY IS=min IE=max ITERations=1";tr
51 M=L2_USER_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 459 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max
ITERations=1";tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 51 M=L3_DEFIP IS=min IE=max ITERations=1";tr 51
M=L3_DEFIP IS=min IE=max ITERations=1;echo "done";
#echo "there are 457 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_ECC IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_ECC IS=min IE=max ITERations=1;echo "done";
#echo "there are 456 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 455 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max ITERations=1;echo "done";
#echo "there are 454 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 453 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max ITERations=1;echo "done";
#echo "there are 452 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max ITERations=1;echo "done";
#echo "there are 451 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 450 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_RAW IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_ALPM_RAW IS=min IE=max ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max ITERations=1;echo "done";
#echo "there are 448 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0
ITERations=1";tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 51 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1";tr
51 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128 IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128 IS=min IE=max ITERations=1;echo "done";
echo "there are 442 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 441 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 51 M=L3_ECMP IS=min IE=max ITERations=1";tr 51
M=L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 51 M=L3_ECMP_COUNT IS=min IE=max ITERations=1";tr
51 M=L3_ECMP_COUNT IS=min IE=max ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITERations=1;echo "done";
#echo "there are 432 more memories to test.";echo "tr 51 M=L3_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
#echo "there are 431 more memories to test.";echo "tr 51 M=L3_ENTRY_LP IS=min IE=max ITERations=1";tr 51
M=L3_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1";tr
51 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 51 M=L3_IIF IS=min IE=max ITERations=1";tr 51 M=L3_IIF
IS=min IE=max ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 51 M=L3_IIF_PROFILE IS=min IE=max ITERations=1";tr 51
M=L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 51 M=L3_IPMC IS=min IE=max ITERations=1";tr 51
M=L3_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 51 M=L3_IPMC_1 IS=min IE=max ITERations=1";tr 51
M=L3_IPMC_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 424 more memories to test.";echo "tr 51 M=L3_IPMC_REMAP IS=min IE=max ITERations=1";tr
51 M=L3_IPMC_REMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 423 more memories to test.";echo "tr 51 M=L3_MTU_VALUES IS=min IE=max ITERations=1";tr
51 M=L3_MTU_VALUES IS=min IE=max ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 51 M=L3_TUNNEL IS=min IE=max ITERations=1";tr 51
M=L3_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 420 more memories to test.";echo "tr 51 M=L3_TUNNEL_ONLY IS=min IE=max
ITERations=1";tr 51 M=L3_TUNNEL_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 51 M=LLS_L0_CHILD_STATE1 IS=min IE=max
ITERations=1";tr 51 M=LLS_L0_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 418 more memories to test.";echo "tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
```

"done";
echo "there are 417 more memories to test.";echo "tr 51 M=LLS_L0_CONFIG IS=min IE=max ITERations=1";tr 51 M=LLS_L0_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 51 M=LLS_L0_ERROR IS=min IE=max ITERations=1";tr 51 M=LLS_L0_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 51 M=LLS_L0_HEADS_TAILS_1 IS=min IE=max ITERations=1";tr 51 M=LLS_L0_HEADS_TAILS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 51 M=LLS_L0_HEADS_TAILS_2 IS=min IE=max ITERations=1";tr 51 M=LLS_L0_HEADS_TAILS_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 51 M=LLS_L0_MIN_NEXT IS=min IE=max ITERations=1";tr 51 M=LLS_L0_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 51 M=LLS_L0_PARENT IS=min IE=max ITERations=1";tr 51 M=LLS_L0_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 51 M=LLS_L0_PARENT_STATE IS=min IE=max ITERations=1";tr 51 M=LLS_L0_PARENT_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 51 M=LLS_L0_WERR_MAX_SC IS=min IE=max ITERations=1";tr 51 M=LLS_L0_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 51 M=LLS_L0_WERR_NEXT IS=min IE=max ITERations=1";tr 51 M=LLS_L0_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 51 M=LLS_L0_XOFF IS=min IE=max ITERations=1";tr 51 M=LLS_L0_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 51 M=LLS_L1_ACT_MIN IS=min IE=max ITERations=1";tr 51 M=LLS_L1_ACT_MIN IS=min IE=max ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 51 M=LLS_L1_ACT_SHAPER IS=min IE=max ITERations=1";tr 51 M=LLS_L1_ACT_SHAPER IS=min IE=max ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 51 M=LLS_L1_ACT_XON IS=min IE=max ITERations=1";tr 51 M=LLS_L1_ACT_XON IS=min IE=max ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 51 M=LLS_L1_CHILD_STATE1 IS=min IE=max ITERations=1";tr 51 M=LLS_L1_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1";tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 51 M=LLS_L1_CONFIG IS=min IE=max ITERations=1";tr 51 M=LLS_L1_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 51 M=LLS_L1_ERROR IS=min IE=max ITERations=1";tr 51 M=LLS_L1_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 51 M=LLS_L1_HEADS_TAILS_1 IS=min IE=max ITERations=1";tr 51 M=LLS_L1_HEADS_TAILS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 399 more memories to test.";echo "tr 51 M=LLS_L1_HEADS_TAILS_2 IS=min IE=max ITERations=1";tr 51 M=LLS_L1_HEADS_TAILS_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 51 M=LLS_L1_MC_XOFF IS=min IE=max ITERations=1";tr 51 M=LLS_L1_MC_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 51 M=LLS_L1_MIN_NEXT IS=min IE=max ITERations=1";tr 51 M=LLS_L1_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 396 more memories to test.";echo "tr 51 M=LLS_L1_PARENT IS=min IE=max ITERations=1";tr 51 M=LLS_L1_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 51 M=LLS_L1_PARENT_STATE IS=min IE=max ITERations=1";tr 51 M=LLS_L1_PARENT_STATE IS=min IE=max ITERations=1;echo "done";

```
echo "there are 394 more memories to test.";echo "tr 51 M=LLS_L1_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 51 M=LLS_L1_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 51 M=LLS_L1_WERR_NEXT IS=min IE=max
ITERations=1";tr 51 M=LLS_L1_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 51 M=LLS_L1_XOFF IS=min IE=max ITERations=1";tr 51
M=LLS_L1_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 391 more memories to test.";echo "tr 51 M=LLS_L2_ACT_ENQ IS=min IE=max ITERations=1";tr
51 M=LLS_L2_ACT_ENQ IS=min IE=max ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 51 M=LLS_L2_ACT_MIN IS=min IE=max ITERations=1";tr
51 M=LLS_L2_ACT_MIN IS=min IE=max ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 51 M=LLS_L2_ACT_SHAPER IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_ACT_SHAPER IS=min IE=max ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 51 M=LLS_L2_ACT_XON IS=min IE=max ITERations=1";tr
51 M=LLS_L2_ACT_XON IS=min IE=max ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 51 M=LLS_L2_CHILD_STATE1 IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 385 more memories to test.";echo "tr 51 M=LLS_L2_ERROR IS=min IE=max ITERations=1";tr 51
M=LLS_L2_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 51 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 51 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 383 more memories to test.";echo "tr 51 M=LLS_L2_MC_XOFF IS=min IE=max ITERations=1";tr
51 M=LLS_L2_MC_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 382 more memories to test.";echo "tr 51 M=LLS_L2_MIN_NEXT IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 51 M=LLS_L2_PARENT IS=min IE=max ITERations=1";tr
51 M=LLS_L2_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 51 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 51 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max ITERations=1;echo "done";
echo "there are 378 more memories to test.";echo "tr 51 M=LLS_L2_WERR_NEXT IS=min IE=max
ITERations=1";tr 51 M=LLS_L2_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 51 M=LLS_L2_XOFF IS=min IE=max ITERations=1";tr 51
M=LLS_L2_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 51 M=LLS_PORT_HEADS IS=min IE=max ITERations=1";tr
51 M=LLS_PORT_HEADS IS=min IE=max ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 51 M=LLS_PORT_SEQ_NUM IS=min IE=max
ITERations=1";tr 51 M=LLS_PORT_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 51 M=LLS_PORT_TAILS IS=min IE=max ITERations=1";tr
51 M=LLS_PORT_TAILS IS=min IE=max ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 51 M=LLS_PORT_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 51 M=LLS_PORT_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 51 M=LLS_PORT_XOFF IS=min IE=max ITERations=1";tr
51 M=LLS_PORT_XOFF IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 371 more memories to test.";echo "tr 51 M=LLS_S1_CHILD_STATE IS=min IE=max
ITERations=1";tr 51 M=LLS_S1_CHILD_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 370 more memories to test.";echo "tr 51 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 51 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 369 more memories to test.";echo "tr 51 M=LLS_S1_CONFIG IS=min IE=max ITERations=1";tr 51
M=LLS_S1_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 51 M=LLS_S1_ERROR IS=min IE=max ITERations=1";tr 51
M=LLS_S1_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 51 M=LLS_S1_HEADS_TAILS IS=min IE=max
ITERations=1";tr 51 M=LLS_S1_HEADS_TAILS IS=min IE=max ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 51 M=LLS_S1_PARENT IS=min IE=max ITERations=1";tr
51 M=LLS_S1_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 51 M=LLS_S1_PARENT_STATE IS=min IE=max
ITERations=1";tr 51 M=LLS_S1_PARENT_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 51 M=LLS_S1_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 51 M=LLS_S1_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 51 M=LLS_S1_XOFF IS=min IE=max ITERations=1";tr 51
M=LLS_S1_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max ITERations=1;echo
"done";
echo "there are 361 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=max ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max
ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 51 M=LPORT_TAB IS=min IE=max ITERations=1";tr 51
M=LPORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 51 M=MAC_BLOCK IS=min IE=max ITERations=1";tr 51
M=MAC_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 51 M=MIRROR_CONTROL IS=min IE=max
ITERations=1";tr 51 M=MIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 51 M=MMU_AGING_CTR IS=min IE=max ITERations=1";tr
51 M=MMU_AGING_CTR IS=min IE=max ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 51 M=MMU_AGING_EXP IS=min IE=max ITERations=1";tr
51 M=MMU_AGING_EXP IS=min IE=max ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 51 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 51 M=MMU_CBPData0 IS=min IE=max ITERations=1";tr 51
M=MMU_CBPData0 IS=min IE=max ITERations=1;echo "done";
echo "there are 351 more memories to test.";echo "tr 51 M=MMU_CBPData1 IS=min IE=max ITERations=1";tr 51
M=MMU_CBPData1 IS=min IE=max ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 51 M=MMU_CBPData2 IS=min IE=max ITERations=1";tr 51
M=MMU_CBPData2 IS=min IE=max ITERations=1;echo "done";
echo "there are 349 more memories to test.";echo "tr 51 M=MMU_CBPData3 IS=min IE=max ITERations=1";tr 51
M=MMU_CBPData3 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 348 more memories to test.";echo "tr 51 M=MMU_CCP0_RESEQ_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CCP0_RESEQ_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 347 more memories to test.";echo "tr 51 M=MMU_CCP_MEM IS=min IE=max ITERations=1";tr
51 M=MMU_CCP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 51 M=MMU_CELL_LINK IS=min IE=max ITERations=1";tr
51 M=MMU_CELL_LINK IS=min IE=max ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 51 M=MMU_CFAPI0_BITMAP IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAPI0_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 51 M=MMU_CFAPI0_STACK IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAPI0_STACK IS=min IE=max ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 51 M=MMU_CFAPI1_BITMAP IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAPI1_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 51 M=MMU_CFAPI1_STACK IS=min IE=max
ITERations=1";tr 51 M=MMU_CFAPI1_STACK IS=min IE=max ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
ITERations=1";tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 339 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 51 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=max
ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 51 M=MMU_ENQ_PBI_DB IS=min IE=max
ITERations=1";tr 51 M=MMU_ENQ_PBI_DB IS=min IE=max ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM IS=min IE=max ITERations=1";tr
51 M=MMU_EPRG_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 51 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 51 M=MMU_INTFI_S1_ST_TB IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_S1_ST_TB IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 324 more memories to test.";echo "tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 322 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 321 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=max ITERations=1;echo
"done";
#echo "there are 320 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 319 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=max ITERations=1;echo
"done";
echo "there are 318 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=max ITERations=1";tr 51 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=max ITERations=1;echo
"done";
echo "there are 317 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 51 M=MMU_MAPPER_X_LSB IS=min IE=max
ITERations=1";tr 51 M=MMU_MAPPER_X_LSB IS=min IE=max ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 51 M=MMU_MAPPER_Y_LSB IS=min IE=max
ITERations=1";tr 51 M=MMU_MAPPER_Y_LSB IS=min IE=max ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 51 M=MMU_MCFP IS=min IE=max ITERations=1";tr 51
M=MMU_MCFP IS=min IE=max ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 51 M=MMU_MCQDB0 IS=min IE=max ITERations=1";tr 51
M=MMU_MCQDB0 IS=min IE=max ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 51 M=MMU_MCQDB1 IS=min IE=max ITERations=1";tr 51
M=MMU_MCQDB1 IS=min IE=max ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 51 M=MMU_MCQE IS=min IE=max ITERations=1";tr 51
M=MMU_MCQE IS=min IE=max ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 51 M=MMU_MCQN IS=min IE=max ITERations=1";tr 51
M=MMU_MCQN IS=min IE=max ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 304 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 303 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 300 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 298 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 297 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=max ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_1 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_2 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_3 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_4 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_5 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_6 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 283 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_7 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 282 more memories to test.";echo "tr 51 M=MMU_MTRO_S1_MEM_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_MTRO_S1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 281 more memories to test.";echo "tr 51 M=MMU_PDB0 IS=min IE=max ITERations=1";tr 51
```

```
M=MMU_PDB0 IS=min IE=max ITERations=1;echo "done";
echo "there are 280 more memories to test.";echo "tr 51 M=MMU_PKTHDR IS=min IE=max ITERations=1";tr 51
M=MMU_PKTHDR IS=min IE=max ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 51 M=MMU_PKT_LINK IS=min IE=max ITERations=1";tr
51 M=MMU_PKT_LINK IS=min IE=max ITERations=1;echo "done";
echo "there are 278 more memories to test.";echo "tr 51 M=MMU_PORTCNT IS=min IE=max ITERations=1";tr 51
M=MMU_PORTCNT IS=min IE=max ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM IS=min IE=max ITERations=1";tr
51 M=MMU_PQE0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 51 M=MMU_QCN_CNM_COUNTER IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_CNM_COUNTER IS=min IE=max ITERations=1;echo "done";
echo "there are 275 more memories to test.";echo "tr 51 M=MMU_QCN_CNM_QUEUE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_CNM_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 51 M=MMU_QCN_CPQST_QLEN IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_CPQST_QLEN IS=min IE=max ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 51 M=MMU_QCN_CPQST_TSSLS IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_CPQST_TSSLS IS=min IE=max ITERations=1;echo "done";
echo "there are 272 more memories to test.";echo "tr 51 M=MMU_QCN_ENABLE_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_ENABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 51 M=MMU_QCN_QFBTB IS=min IE=max ITERations=1";tr
51 M=MMU_QCN_QFBTB IS=min IE=max ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 51 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max
ITERations=1";tr 51 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max ITERations=1;echo "done";
echo "there are 269 more memories to test.";echo "tr 51 M=MMU_QCN_SITB IS=min IE=max ITERations=1";tr
51 M=MMU_QCN_SITB IS=min IE=max ITERations=1;echo "done";
echo "there are 268 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO0 IS=min IE=max ITERations=1;echo "done";
echo "there are 267 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ITERations=1";tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max
ITERations=1;echo "done";
echo "there are 266 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 265 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 264 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 263 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 262 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 259 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 258 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 257 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=max ITERations=1;echo
"done";
echo "there are 256 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 254 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=max ITERations=1;echo
"done";
echo "there are 253 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 252 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=max ITERations=1;echo
"done";
echo "there are 251 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 250 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 249 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=max ITERations=1;echo
"done";
echo "there are 248 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 247 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=max ITERations=1;echo
"done";
echo "there are 246 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 245 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 244 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 242 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 240 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 239 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=max
ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 235 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 234 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 232 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=max
ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=max ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 226 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min
```

```
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=max
ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 221 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 220 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 51 M=MMU_THDU_QGROUP_TICKET IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_QGROUP_TICKET IS=min IE=max ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 51 M=MMU_THDU_QUEUE_TICKET IS=min IE=max
ITERations=1";tr 51 M=MMU_THDU_QUEUE_TICKET IS=min IE=max ITERations=1;echo "done";
echo "there are 217 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=max ITERations=1;echo
"done";
echo "there are 216 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_PORT IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 215 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 214 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=max ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 213 more memories to test.";echo "tr 51 M=MMU_UCQDB0 IS=min IE=max ITERations=1";tr 51
M=MMU_UCQDB0 IS=min IE=max ITERations=1;echo "done";
echo "there are 212 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max
ITERations=1";tr 51 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 207 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=max ITERations=1";tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 199 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 51 M=MODID_BASE_PTR IS=min IE=max ITERations=1";tr
51 M=MODID_BASE_PTR IS=min IE=max ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 51 M=MODPORT_MAP_M0 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 51 M=MODPORT_MAP_M1 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M1 IS=min IE=max ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 51 M=MODPORT_MAP_M2 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 51 M=MODPORT_MAP_M3 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_M3 IS=min IE=max ITERations=1;echo "done";
echo "there are 192 more memories to test.";echo "tr 51 M=MODPORT_MAP_MIRROR IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_MIRROR IS=min IE=max ITERations=1;echo "done";
echo "there are 191 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT IS=min IE=max ITERations=1;echo "done";
echo "there are 190 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 188 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max ITERations=1;echo "done";
echo "there are 186 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_MIRROR IS=min
IE=max ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=max ITERations=1;echo
"done";
echo "there are 185 more memories to test.";echo "tr 51 M=MODPORT_MAP_SW IS=min IE=max
ITERations=1";tr 51 M=MODPORT_MAP_SW IS=min IE=max ITERations=1;echo "done";
#echo "there are 184 more memories to test.";echo "tr 51 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0
ITERations=1";tr 51 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0 ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 51 M=MPLS_ENTRY IS=min IE=max ITERations=1";tr 51
M=MPLS_ENTRY IS=min IE=max ITERations=1;echo "done";
#echo "there are 182 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 51 M=MY_STATION_TCAM IS=min IE=max
ITERations=1";tr 51 M=MY_STATION_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2 IS=min IE=max
ITERations=1";tr 51 M=MY_STATION_TCAM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 179 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 178 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 177 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 176 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 175 more memories to test.";echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ITERations=1";tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 174 more memories to test.";echo "tr 51 M=NUM_QCN_CNM_RECEIVED IS=min IE=max
ITERations=1";tr 51 M=NUM_QCN_CNM_RECEIVED IS=min IE=max ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 51 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max
ITERations=1";tr 51 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 51 M=OP_UC_QGROUP_MINOK IS=min IE=max
ITERations=1";tr 51 M=OP_UC_QGROUP_MINOK IS=min IE=max ITERations=1;echo "done";
echo "there are 171 more memories to test.";echo "tr 51 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max
ITERations=1";tr 51 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 51 M=OP_UC_QUEUE_MINOK IS=min IE=max
ITERations=1";tr 51 M=OP_UC_QUEUE_MINOK IS=min IE=max ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 51 M=PFS_PACKET_TYPE_OFFSET IS=min IE=max
ITERations=1";tr 51 M=PFS_PACKET_TYPE_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 51 M=PHB2_COS_MAP IS=min IE=max ITERations=1";tr 51
M=PHB2_COS_MAP IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 167 more memories to test.";echo "tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 166 more memories to test.";echo "tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE IS=min IE=max ITERations=1";tr
51 M=PORT_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 164 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=max
ITERations=1";tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=max
ITERations=1";tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 51 M=PORT_TAB IS=min IE=max ITERations=1";tr 51
M=PORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 51 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 51 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 160 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=max
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 51 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1";tr
51 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1;echo "done";
echo "there are 157 more memories to test.";echo "tr 51 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 51 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 51 M=RH_ECMP_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=RH_ECMP_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 51 M=RH_HGT_DROPS IS=min IE=max ITERations=1";tr
51 M=RH_HGT_DROPS IS=min IE=max ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 51 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ITERations=1";tr 51 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 51 M=RH_HGT_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=RH_HGT_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 51 M=RH_HGT_GROUP_CONTROL IS=min IE=max
ITERations=1";tr 51 M=RH_HGT_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
#echo "there are 151 more memories to test.";echo "tr 51 M=RH_LAG_DROPS IS=min IE=0 ITERations=1";tr 51
M=RH_LAG_DROPS IS=min IE=0 ITERations=1;echo "done";
echo "there are 150 more memories to test.";echo "tr 51 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ITERations=1";tr 51 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 51 M=RH_LAG_FLOWSET IS=min IE=max
ITERations=1";tr 51 M=RH_LAG_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 51 M=RQE_FREE_LIST IS=min IE=max ITERations=1";tr 51
M=RQE_FREE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 51 M=RQE_LINK_LIST IS=min IE=max ITERations=1";tr 51
M=RQE_LINK_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=max
ITERations=1";tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 145 more memories to test.";echo "tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=max
ITERations=1";tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 51 M=SERVICE_COS_MAP IS=min IE=max
ITERations=1";tr 51 M=SERVICE_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 141 more memories to test.";echo "tr 51 M=SERVICE_PORT_MAP IS=min IE=max
ITERations=1";tr 51 M=SERVICE_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 140 more memories to test.";echo "tr 51 M=SERVICE_QUEUE_MAP IS=min IE=max
ITERations=1";tr 51 M=SERVICE_QUEUE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 139 more memories to test.";echo "tr 51 M=SER_ACC_TYPE_MAP IS=min IE=max
ITERations=1";tr 51 M=SER_ACC_TYPE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 138 more memories to test.";echo "tr 51 M=SER_MEMORY IS=min IE=max ITERations=1";tr 51
M=SER_MEMORY IS=min IE=max ITERations=1;echo "done";
#echo "there are 137 more memories to test.";echo "tr 51 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 136 more memories to test.";echo "tr 51 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 135 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 134 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 133 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 132 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 51 M=SOURCE_VP IS=min IE=max ITERations=1";tr 51
M=SOURCE_VP IS=min IE=max ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 51 M=SOURCE_VP_2 IS=min IE=max ITERations=1";tr 51
M=SOURCE_VP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 51 M=SRC_MODID_EGRESS IS=min IE=max
ITERations=1";tr 51 M=SRC_MODID_EGRESS IS=min IE=max ITERations=1;echo "done";
echo "there are 125 more memories to test.";echo "tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max
ITERations=1";tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 124 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP IS=min IE=max
ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 123 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=max ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 122 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max
```

```
ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 121 more memories to test.";echo "tr 51 M=SVM_MACROFLOW_INDEX_TABLE IS=min
IE=max ITERations=1";tr 51 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 120 more memories to test.";echo "tr 51 M=SVM_METER_COLOR_HIER_TRUTH_TABLE
IS=min IE=max ITERations=1";tr 51 M=SVM_METER_COLOR_HIER_TRUTH_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 51 M=SVM_METER_COLOR_TRUTH_TABLE IS=min
IE=max ITERations=1";tr 51 M=SVM_METER_COLOR_TRUTH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 118 more memories to test.";echo "tr 51
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max ITERations=1";tr 51
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 117 more memories to test.";echo "tr 51 M=SVM_METER_TABLE IS=min IE=max
ITERations=1";tr 51 M=SVM_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 51 M=SVM_OFFSET_TABLE IS=min IE=max
ITERations=1";tr 51 M=SVM_OFFSET_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 51 M=SVM_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=SVM_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=max
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 112 more memories to test.";echo "tr 51 M=TCP_FN IS=min IE=max ITERations=1";tr 51
M=TCP_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_BST_X IS=min IE=max ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max ITERations=1;echo "done";
echo "there are 107 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_X IS=min IE=max ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_BST_X IS=min IE=max ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_X IS=min IE=max ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_X IS=min IE=max
```

```
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_X IS=min IE=max ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_X IS=min IE=max
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_X IS=min IE=max ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 51 M=TOS_FN IS=min IE=max ITERations=1";tr 51
M=TOS_FN IS=min IE=max ITERations=1;echo "done";
#echo "there are 98 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1";tr
51 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 51 M=TRUNK_BITMAP IS=min IE=max ITERations=1";tr 51
M=TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 51 M=TRUNK_CBL_TABLE IS=min IE=max
ITERations=1";tr 51 M=TRUNK_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 51 M=TRUNK_GROUP IS=min IE=max ITERations=1";tr 51
M=TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 51 M=TRUNK_MEMBER IS=min IE=max ITERations=1";tr
51 M=TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 51 M=TTL_FN IS=min IE=max ITERations=1";tr 51
M=TTL_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 51 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max
ITERations=1";tr 51 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 51 M=TX_PROT_GROUP_1_TABLE IS=min IE=max
ITERations=1";tr 51 M=TX_PROT_GROUP_1_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=max ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=max ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET IS=min IE=max ITERations=1";tr 51
M=FP_UDF_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 51 M=FP_UDF_TCAM IS=min IE=max ITERations=1";tr 51
M=FP_UDF_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=max
ITERations=1";tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 84 more memories to test.";echo "tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 83 more memories to test.";echo "tr 51 M=VFI IS=min IE=max ITERations=1";tr 51 M=VFI
IS=min IE=max ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 51 M=VFI_1 IS=min IE=max ITERations=1";tr 51 M=VFI_1
IS=min IE=max ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 51 M=VFI_PROFILE IS=min IE=max ITERations=1";tr 51
M=VFI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 80 more memories to test.";echo "tr 51 M=VFI_PROFILE_2 IS=min IE=max ITERations=1";tr 51
M=VFI_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 79 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 78 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 77 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 51 M=VFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 76 more memories to test.";echo "tr 51 M=VFP_TCAM IS=min IE=max ITERations=1";tr 51
M=VFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 51 M=VLAN_TAB IS=min IE=max ITERations=1";tr 51
M=VLAN_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 74 more memories to test.";echo "tr 51 M=VLAN_MAC IS=min IE=max ITERations=1";tr 51
M=VLAN_MAC IS=min IE=max ITERations=1;echo "done";
echo "there are 73 more memories to test.";echo "tr 51 M=VLAN_MPLS IS=min IE=max ITERations=1";tr 51
M=VLAN_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 51 M=VLAN_PROFILE_TAB IS=min IE=max
ITERations=1";tr 51 M=VLAN_PROFILE_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 51 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1";tr
51 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL IS=min IE=max ITERations=1";tr
51 M=VLAN_PROTOCOL IS=min IE=max ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max
ITERations=1";tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 68 more memories to test.";echo "tr 51 M=STG_TAB IS=min IE=max ITERations=1";tr 51
M=STG_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 67 more memories to test.";echo "tr 51 M=VLAN_SUBNET IS=min IE=max ITERations=1";tr 51
M=VLAN_SUBNET IS=min IE=max ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
ITERations=1";tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max
ITERations=1";tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 51 M=VLAN_XLATE IS=min IE=max ITERations=1";tr 51
M=VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 51 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1";tr
51 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 51 M=VLAN_XLATE_LP IS=min IE=max ITERations=1";tr
51 M=VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 61 more memories to test.";echo "tr 51 M=VOQ_COS_MAP IS=min IE=max ITERations=1";tr 51
M=VOQ_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 51 M=VOQ_MOD_MAP IS=min IE=max ITERations=1";tr 51
M=VOQ_MOD_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 51 M=VOQ_PORT_MAP IS=min IE=max ITERations=1";tr 51
M=VOQ_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 58 more memories to test.";echo "tr 51 M=VRF IS=min IE=max ITERations=1";tr 51 M=VRF
IS=min IE=max ITERations=1;echo "done";
#echo "there are 57 more memories to test.";echo "tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 56  more memories to test.';echo 'tr 51 M=EARB_FLEX_OPCODE IS=min IE=max
ITERations=1';tr 51 M=EARB_FLEX_OPCODE IS=min IE=max ITERations=1;echo 'done';
```

```
#echo 'there are 55  more memories to test.';echo 'tr 51 M=EDB_1DBG_B IS=min IE=max ITERations=1';tr 51
M=EDB_1DBG_B IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 54  more memories to test.';echo 'tr 51 M=EINITBUF_PACKET_BUFFER0 IS=min IE=max
ITERations=1';tr 51 M=EINITBUF_PACKET_BUFFER0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 53  more memories to test.';echo 'tr 51 M=EINITBUF_PACKET_BUFFER1 IS=min IE=max
ITERations=1';tr 51 M=EINITBUF_PACKET_BUFFER1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 52  more memories to test.';echo 'tr 51 M=EINITBUF_PACKET_BUFFER2 IS=min IE=max
ITERations=1';tr 51 M=EINITBUF_PACKET_BUFFER2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 51  more memories to test.';echo 'tr 51 M=EINITBUF_PACKET_BUFFER3 IS=min IE=max
ITERations=1';tr 51 M=EINITBUF_PACKET_BUFFER3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 50  more memories to test.';echo 'tr 51 M=EINITBUF_PACKET_BUFFER4 IS=min IE=max
ITERations=1';tr 51 M=EINITBUF_PACKET_BUFFER4 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 49  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 48  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 51 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 47  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 46  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 51 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 45  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 44  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 51 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 43  more memories to test.';echo 'tr 51 M=IARB_FLEX_OPCODE IS=min IE=max
ITERations=1';tr 51 M=IARB_FLEX_OPCODE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 42  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_0_HI IS=min IE=max
ITERations=1';tr 51 M=ING_PBI_DEBUG_0_HI IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 41  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_0_LO IS=min IE=max
ITERations=1';tr 51 M=ING_PBI_DEBUG_0_LO IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 40  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_1 IS=min IE=max ITERations=1';tr
51 M=ING_PBI_DEBUG_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 39  more memories to test.';echo 'tr 51 M=ING_SERVICE_PRI_MAP IS=min IE=max
ITERations=1';tr 51 M=ING_SERVICE_PRI_MAP IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 38  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER0 IS=min IE=max
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 37  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER1 IS=min IE=max
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 36  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER2 IS=min IE=max
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 35  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER3 IS=min IE=max
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER4 IS=min IE=max
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER4 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 51 M=LINK_STATUS IS=min IE=max ITERations=1';tr 51
```

```
M=LINK_STATUS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 51 M=LLS_S1_L0_LOOKUP IS=min IE=max ITERations=1';tr
51 M=LLS_S1_L0_LOOKUP IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 51 M=LMEP IS=min IE=max ITERations=1';tr 51 M=LMEP
IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 51 M=LMEP_DA IS=min IE=max ITERations=1';tr 51
M=LMEP_DA IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 51 M=OAM_LM_COUNTERS IS=min IE=max
ITERations=1';tr 51 M=OAM_LM_COUNTERS IS=min IE=max ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 51 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max
ITERations=1';tr 51 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=max
ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS IS=min IE=max
ITERations=1';tr 51 M=EGR_MMU_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 51 M=EGR_PBE_DEBUG_0 IS=min IE=max ITERations=1';tr
51 M=EGR_PBE_DEBUG_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS IS=min IE=max
ITERations=1';tr 51 M=EGR_PORT_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 51 M=IARB_IPAD_DEBUG IS=min IE=max ITERations=1';tr
51 M=IARB_IPAD_DEBUG IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 51 M=IARB_MH_DEBUG IS=min IE=max ITERations=1';tr 51
M=IARB_MH_DEBUG IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 51 M=LLS_S1_NEXT IS=min IE=max ITERations=1';tr 51
M=LLS_S1_NEXT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 51 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min IE=max
ITERations=1';tr 51 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
IS=min IE=max ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 51 M=RDB_BANK_0_0 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_0_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 51 M=RDB_BANK_0_1 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_0_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 51 M=RDB_BANK_1_0 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_1_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 51 M=RDB_BANK_1_1 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_1_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 51 M=RDB_BANK_2_0 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_2_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 51 M=RDB_BANK_2_1 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_2_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 51 M=RDB_BANK_3_0 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_3_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 51 M=RDB_BANK_3_1 IS=min IE=max ITERations=1';tr 51
M=RDB_BANK_3_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 51 M=RDB_CEL IS=min IE=max ITERations=1';tr 51
```

```
M=RDB_CEL IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 51 M=RDB_CONTEXT IS=min IE=max ITERations=1';tr 51
M=RDB_CONTEXT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 51 M=RDB_CXT_AB IS=min IE=max ITERations=1';tr 51
M=RDB_CXT_AB IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 51 M=RDB_CXT_CD IS=min IE=max ITERations=1';tr 51
M=RDB_CXT_CD IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 51 M=RDB_FCP_0 IS=min IE=max ITERations=1';tr 51
M=RDB_FCP_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 51 M=RDB_FCP_1 IS=min IE=max ITERations=1';tr 51
M=RDB_FCP_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 51 M=RDB_FCP_2 IS=min IE=max ITERations=1';tr 51
M=RDB_FCP_2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 51 M=RDB_FCP_3 IS=min IE=max ITERations=1';tr 51
M=RDB_FCP_3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 51 M=RDB_PKT IS=min IE=max ITERations=1';tr 51
M=RDB_PKT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 51 M=RDB_QUEUE IS=min IE=max ITERations=1';tr 51
M=RDB_QUEUE IS=min IE=max ITERations=1;echo 'done';


echo "tr 51 done"
config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr51_bcm56560_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CFP driver service
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/cfp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_exerciser_test1.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_exerciser_test1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pktdma_soc_test.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CMIC Packet DMA performance test.
* This test is intended to test the CMIC packet DMA performance. It can also
* also be used as a feature test. The test can simultaneously exercise
* multiple TX and RX channels across multiple CMCs.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/pktdma_soc_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xstp.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     xstp.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/xstp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_cnt.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement CallBacks function for FE3200 interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: example.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: example.h
* Purpose:     To provide an example on how to add customer-specific APIs
*              by placing addtional code in the files in src/customer
*              and include/customer directories
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/customer/example.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_port.c,v 1.10 2013/02/03 10:59:10  Mark Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file provides port basic functionality
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_property.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 PROPERTY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_property.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_os_bcm_interface.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_os_bcm_interface.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_os_bcm_interface.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_task.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_task.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: m24lv128Eeprom.h,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
```

```
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/m24lv128Eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Fundamental types and constants relating to 802.1D
*
* $Id: 802.1d.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/proto/802.1d.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv6Console.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv6Console.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaNextPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaNextPriEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     l2.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: olp_pack.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       olp_pack.h
* Purpose:     Interface to pack and unpack routines common to
*              SDK and uKernel for:
*              - OLP Control messages and Network packet headers
*
*              This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/olp_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsE2QAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsE2QAddrConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkStatsApi.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkStatsApi.h
* Purpose:
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkStatsApi.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_flow_control.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_vlan.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_vlan.c
* Purpose: Maintains all the debug information for vlan
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vlan/tomahawk_vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: Triumph3 mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/mbcm.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-3x40g-ilkn100.bcm,v 1.1 Broadcom SDK $
```

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

# run g3p1 ucode
diag_emulator_partial_init=0
#lrp_bypass=2
load_firmware=0x1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

line_pr_buffer_profile=2
caladan3_etu_enable=0

# ucode port definition
ucode_num_ports.0=3
ucode_port.port1.0=clport0.xle.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xle.1.0:il1.il100.0.1
ucode_port.port3.0=clport0.xle.2.0:il1.il100.0.2

# C3 Line side
# 40G xe port lane map
xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032
xgxs_rx_lane_map_xe2=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe2=0x1032

# 40G xe rx/tx polarity
phy_xaui_rx_polarity_flip_xe0=0x0009
phy_xaui_rx_polarity_flip_xe1=0x000f
phy_xaui_rx_polarity_flip_xe2=0x000b

phy_xaui_tx_polarity_flip_xe0=0x0003
phy_xaui_tx_polarity_flip_xe1=0x000f
phy_xaui_tx_polarity_flip_xe2=0x000c


#C3 Fabric side in lane swap
xgxs_rx_lane_map_core0_il1=0x1032
xgxs_rx_lane_map_core1_il1=0x3210
xgxs_rx_lane_map_core2_il1=0x1032
```

```
xgxs_tx_lane_map_core0_il1=0x1032
xgxs_tx_lane_map_core1_il1=0x3210
xgxs_tx_lane_map_core2_il1=0x1032

higig2_hdr_mode_hg0=0
port_init_speed_il0=10312

#C3 Fabric side no pority swap

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

# DDR auto tune
ddr3_auto_tune=0

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x98989494,0x9a9a9595
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a7a4,0x00a1a59e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b5
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x9b9b9393
ddr3_tune_rd_en_ci2.0=0x00a2a2a2,0x00a4a6a2
ddr3_tune_wr_dq_wl0_ci12.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x00a0a0a1,0x00999b97
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x96969b9b,0x9a9a9a9a
ddr3_tune_rd_dqs_ci0.0=0x94949595,0x97979595
ddr3_tune_rd_en_ci4.0=0x009d9d9e,0x00989b95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b4
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b5
ddr3_tune_wr_dq_wl0_ci8.0=0x96969696,0x96969696,0x96969696,0x96969696
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x009a999b,0x009d9f9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci14.0=0x9b9b9898,0x9b9b9999
ddr3_tune_rd_dqs_ci2.0=0x99999898,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9d9a,0x00979996
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b6
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x83838383,0x83838383,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x97979797,0x97979797,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci0.0=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080

ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x009a9b99,0x009b9e99
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x81818181,0x81818181,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b5
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x9b9b9494,0x97979c9c
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b6
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x83838383,0x83838383,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a3a4a2,0x009ea19c
ddr3_tune_wr_dq_wl0_ci10.0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-3x40g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_internal.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_internal.h
* Purpose: CINT internal interfaces
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_internal.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: sbZfQeIncludes.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains aggregated definitions for Guadalupe 2.x microcode
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfQeIncludes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC CMICD IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_wb.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcam.c,v 1.46.14.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    tcam.c
* Purpose: Caladan3 TAPS internal tcam driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/tcam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_multicast_imp.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_multicast_imp.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* this module is used to store and retrieve all callback functions.
* callback functions are not stored in the global sw_state structure as they
* cannot be automatically recovered during warm reboot
*
* This module seems to only be relevant for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_cb_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_mirror.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_mirror.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_ports.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ports.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:    PORT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Rate CLI commands
*
* Note: the "rate" controls Storm Control, as opposed to packet rate
* control (bcm_port_rate_*).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.292 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy.c
* Purpose:    Functions to support CLI port commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/phy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$ $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/cmodel/cmodel_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.c,v 1.358 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag command list
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cmdlist.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing the SOC Interconnects
* of Broadcom HNBU chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: siutils.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/siutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ltc1427.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Linear Technology 1427-50 DAC.
* The LTC1427 DAC is used to control voltage outputs on various
* SDK baseboards. See the LTC-1427-50 datasheet for more info.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/ltc1427.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arlmsg.c
* Purpose: Keep a synchronized ARL shadow table.
```

```
*      Provide a reliable stream of ARL insert/delete messages.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: memregs.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/memregs.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes APIs        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_sweep_app.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_sweep_app.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56634sanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph2 (BCM56634) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false
```

```
# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
```

```
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
```

```
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
```

```
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
```

```
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
```

```
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
```

```
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
```

```
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
```

```
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
```

```
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
```

```
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
```

```
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
```

```
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
```

```
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
```

```
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
```

```
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
```

```
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
```

```
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
```

```
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
```

```
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
```

```
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
```

```
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
```

```
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
```

```
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
```

```
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
```

```
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
```

```
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
```

```
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
```

```
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
```

```
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
```

```
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
```

```
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
```

```
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
```

```
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
```

```
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
```

```
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
```

```
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
```

```
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
```

```
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
```

```
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
```

```
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
```

```
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
```

```
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
```

```
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
```

```
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
```

```
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
```

```
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
```

```
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
```

```
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
```

```
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
```

```
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
```

```
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=F;

# Deal with external memories, if configured
echo " EXT_L2_MOD_FIFO";
tr 50 M=EXT_L2_MOD_FIFO;
tr 51 M=EXT_L2_MOD_FIFO;
tr 52 M=EXT_L2_MOD_FIFO;
if !$?full_test \
  "local iter_cmd 'ITER=4' "
if $?ext_ip4c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV4"; \
   tr 50 M=EXT_ACL144_TCAM_IPV4; \
   tr 51 M=EXT_ACL144_TCAM_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 50 M=EXT_ACL144_TCAM_IPV6; \
   tr 51 M=EXT_ACL144_TCAM_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 50 M=EXT_ACL144_TCAM_L2; \
   tr 51 M=EXT_ACL144_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
```

```
    tr 50 M=EXT_ACL288_TCAM_IPV4; \
    tr 51 M=EXT_ACL288_TCAM_IPV4 $iter_cmd; \
    tr 52 M=EXT_ACL288_TCAM_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_ACL288_TCAM_L2"; \
    tr 50 M=EXT_ACL288_TCAM_L2; \
    tr 51 M=EXT_ACL288_TCAM_L2 $iter_cmd; \
    tr 52 M=EXT_ACL288_TCAM_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
    tr 50 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT; \
    tr 51 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_MASK (tr 50 only)"; \
    tr 50 M=EXT_ACL360_TCAM_MASK;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_IPV6_LONG; \
    tr 51 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV4; \
    tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV6; \
    tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_MASK (tr 50 only)"; \
    tr 50 M=EXT_ACL432_TCAM_MASK;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV4"; \
    tr 50 M=EXT_DEFIP_DATA_IPV4; \
    tr 51 M=EXT_DEFIP_DATA_IPV4 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_64"; \
    tr 50 M=EXT_DEFIP_DATA_IPV6_64; \
    tr 51 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_128"; \
    tr 50 M=EXT_DEFIP_DATA_IPV6_128; \
```

```
    tr 51 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV4"; \
    tr 50 M=EXT_DST_HIT_BITS_IPV4; \
    tr 51 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 50 M=EXT_DST_HIT_BITS_IPV6_64; \
    tr 51 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 50 M=EXT_DST_HIT_BITS_IPV6_128; \
    tr 51 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 50 M=EXT_DST_HIT_BITS_L2; \
    tr 51 M=EXT_DST_HIT_BITS_L2 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_L2 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL144_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV6"; \
    tr 50 M=EXT_FP_CNTR_ACL144_IPV6; \
    tr 51 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_L2"; \
    tr 50 M=EXT_FP_CNTR_ACL144_L2; \
    tr 51 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL288_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_L2"; \
    tr 50 M=EXT_FP_CNTR_ACL288_L2; \
    tr 51 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
```

```
  'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_CNTR_ACL360_IPV6_SHORT; \
   tr 51 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_CNTR_ACL432_IPV6_LONG; \
   tr 51 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
   tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV4; \
   tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
   tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV6; \
   tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_IPV4"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_IPV4; \
   tr 51 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_IPV6"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_IPV6; \
   tr 51 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_L2"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_L2; \
   tr 51 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL288_IPV4"; \
   tr 50 M=EXT_FP_CNTR8_ACL288_IPV4; \
   tr 51 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL288_L2"; \
   tr 50 M=EXT_FP_CNTR8_ACL288_L2; \
   tr 51 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT; \
   tr 51 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd; \
```

```
    tr 52 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_IPV6_LONG"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV6"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV6; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_L2"; \
    tr 50 M=EXT_FP_POLICY_ACL144_L2; \
    tr 51 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL288_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_L2"; \
    tr 50 M=EXT_FP_POLICY_ACL288_L2; \
    tr 51 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_POLICY_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
```

```
    tr 50 M=EXT_FP_POLICY_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP"; \
    tr 50 M=EXT_IPV4_DEFIP; \
    tr 51 M=EXT_IPV4_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV4_DEFIP $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV4_DEFIP_TCAM; \
    tr 51 M=EXT_IPV4_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV4_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP"; \
    tr 50 M=EXT_IPV6_128_DEFIP; \
    tr 51 M=EXT_IPV6_128_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV6_128_DEFIP $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV6_128_DEFIP_TCAM; \
    tr 51 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP"; \
    tr 50 M=EXT_IPV6_64_DEFIP; \
    tr 51 M=EXT_IPV6_64_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV6_64_DEFIP_TCAM; \
    tr 51 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
    tr 50 M=EXT_L2_ENTRY_DATA; \
    tr 51 M=EXT_L2_ENTRY_DATA $iter_cmd; \
    tr 52 M=EXT_L2_ENTRY_DATA $iter_cmd;'
```

```
if $?ext_l2_fwd_table_size \
  'echo " EXT_L2_ENTRY_TCAM"; \
   tr 50 M=EXT_L2_ENTRY_TCAM; \
   tr 51 M=EXT_L2_ENTRY_TCAM $iter_cmd; \
   tr 52 M=EXT_L2_ENTRY_TCAM $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV4"; \
   tr 50 M=EXT_SRC_HIT_BITS_IPV4; \
   tr 51 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd; \
   tr 52 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
   tr 50 M=EXT_SRC_HIT_BITS_IPV6_64; \
   tr 51 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd; \
   tr 52 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
   tr 50 M=EXT_SRC_HIT_BITS_IPV6_128; \
   tr 51 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd; \
   tr 52 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_L2"; \
   tr 50 M=EXT_SRC_HIT_BITS_L2; \
   tr 51 M=EXT_SRC_HIT_BITS_L2 $iter_cmd; \
   tr 52 M=EXT_SRC_HIT_BITS_L2 $iter_cmd;'
$done

echo " EXT_L2_MOD_FIFO";
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
if $?ext_ip4c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV4"; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
```

```
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_ACL288_TCAM_L2"; \
    tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
    tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_MASK"; \
    tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
    tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_MASK"; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV4"; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_64"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_128"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV4"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV6"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_L2"; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_L2"; \
```

```
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
    tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
    tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV6"; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_L2"; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_L2"; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
```

```
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
   tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
   tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP"; \
   tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP_TCAM"; \
   tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP"; \
   tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP_TCAM"; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP"; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP_TCAM"; \
   tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
```

```
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_TCAM"; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done
```

```
#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
```

```
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done
```

```
echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
```

```
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

echo "Running Soft Error Recovery test ..."
linkscan off
tr 144
$done
```

```
# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56634sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcm53000.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcm53000.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mirror.c
* Purpose: Common Mirror API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    vlan.c
* Purpose: Handle trident2plus specific vlan features:
*            Manages VFI VLAN membership tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibMvtEntry.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbZfG2EplibMvtEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bme3200.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BME3200 SOC Initialization implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/bme3200.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
*
* $Id: linux-bde.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux Broadcom Device Enumerators
*
*
* There are two Linux BDEs:
```

```
*
* 1. Linux Kernel BDE
*
* This is a kernel module implementing a BDE
* for the driver running as part of the kernel.
*
* It manages the devices through the linux PCI interfaces,
* and manages a chunk of contiguous, boot-time allocated
* DMA memory. This is all that is needed if the BCM driver
* is run as part of the kernel (in another module).
*
* 2. Linux User BDE
*
* This is a kernel module and userland library which implement
*  a complete BDE for applications running in userland.
*
* The kernel module relies upon the real kernel bde,
* and allows a user space application (through the user library)
* to talk directly to the devices. It also virtualized the device
* interrupts, so the entire driver can be run as a userspace
* application.
*
* While this causes a significant degradation in performance,
* because the system runs as a user application, the development
* and debugging process is about a gillion times easier.
* After the core logic is debugged, it can be retargeted using
* only the kernel bde and run in the kernel.
*
*
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/include/linux-bde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.160 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 - Broadcom RoboSwitch Layer-2 switch API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate_calc.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rate_calc.c
* Purpose:     TBD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/rate_calc.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56538sanity.soc,v 1.1.120.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56538) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false
```

```
# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
```

```
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
```

```
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
```

```
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
```

```
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
```

```
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
```

```
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
```

```
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
```

```
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
```

```
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
```

```
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
```

```
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
```

```
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
```

```
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
```

```
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
```

```
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
```

```
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
```

```
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
```

```
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
```

```
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
```

```
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
```

```
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
```

```
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
```

```
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
```

```
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
```

```
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
```

```
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
```

```
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
```

```
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
```

```
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
```

```
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
```

```
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
```

```
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
```

```
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
```

```
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
```

```
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
```

```
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
```

```
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
```

```
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
```

```
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
```

```
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
```

```
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
```

```
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
```

```
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
```

```
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
```

```
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
```

```
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
```

```
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
```

```
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
```

```
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
```

```
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
```

```
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
```

```
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
```

```
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
```

```
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
```

```
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
```

```
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
```

```
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done
```

```
echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done
```

```
#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56538sanity.soc
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G + 2xHG10 setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1
```

```
line_pr_buffer_profile=2

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=30

ucode_port.port1.0=clport0.xe.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xe.0.1:il1.il100.0.1
ucode_port.port3.0=clport0.xe.0.2:il1.il100.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il100.0.3
ucode_port.port5.0=clport0.xe.1.0:il1.il100.0.4
ucode_port.port6.0=clport0.xe.1.1:il1.il100.0.5
ucode_port.port7.0=clport0.xe.1.2:il1.il100.0.6
ucode_port.port8.0=clport0.xe.1.3:il1.il100.0.7
ucode_port.port9.0=clport0.xe.2.0:il1.il100.0.8
ucode_port.port10.0=clport0.xe.2.1:il1.il100.0.9

ucode_port.port11.0=clport0.hg10.2.2-1:il1.il100.0.10-1
ucode_port.port12.0=clport0.hg10.2.2-1:il1.il100.0.11-1
ucode_port.port13.0=clport0.hg10.2.2-1:il1.il100.0.12-1
ucode_port.port14.0=clport0.hg10.2.2-1:il1.il100.0.13-1
ucode_port.port15.0=clport0.hg10.2.2-1:il1.il100.0.14-1
ucode_port.port16.0=clport0.hg10.2.2-1:il1.il100.0.15-1
ucode_port.port17.0=clport0.hg10.2.2-1:il1.il100.0.16-1
ucode_port.port18.0=clport0.hg10.2.2-1:il1.il100.0.17-1
ucode_port.port19.0=clport0.hg10.2.2-1:il1.il100.0.18-1
ucode_port.port20.0=clport0.hg10.2.2-1:il1.il100.0.19-1

ucode_port.port21.0=clport0.hg10.2.3-1:il1.il100.0.20-1
ucode_port.port22.0=clport0.hg10.2.3-1:il1.il100.0.21-1
ucode_port.port23.0=clport0.hg10.2.3-1:il1.il100.0.22-1
ucode_port.port24.0=clport0.hg10.2.3-1:il1.il100.0.23-1
ucode_port.port25.0=clport0.hg10.2.3-1:il1.il100.0.24-1
ucode_port.port26.0=clport0.hg10.2.3-1:il1.il100.0.25-1
ucode_port.port27.0=clport0.hg10.2.3-1:il1.il100.0.26-1
ucode_port.port28.0=clport0.hg10.2.3-1:il1.il100.0.27-1
ucode_port.port29.0=clport0.hg10.2.3-1:il1.il100.0.28-1
ucode_port.port30.0=clport0.hg10.2.3-1:il1.il100.0.29-1


higig2_hdr_mode=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
```

```
xgxs_rx_lane_map_xe8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0000
phy_xaui_rx_polarity_flip_hg10=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001

#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
```

```
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
```

ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080

```
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

fc_ingress_xoff_thresh=0x283c
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-10x10g_2xhg10-1xil100.bcm
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_anti_spoofing.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_anti_spoofing.c
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Jericho (BCM88670) Sanity
#
# Script to run all nightly available tests as quickly as possible in Yarum regression run on ARAD PLUS.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'
# Avoid link messages while testing
linkscan off
counter off
ctrp suspend
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
```

```
#ts -*

#Clear test statistics
tc *

#Display some useful information
date




#Start Test
echo "Running tr 141"
tr 141 r=20
$done

echo 'Dump memories (tr 6)...';
tr 6;
echo '   Done';$date;

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88670sanity_nightly.soc
No license file was found, but licenses were detected in source scan.

```
/*
  $Id: cint_c.lex.c,v 1.23 Broadcom SDK $
  $Copyright: (c) 2016 Broadcom.
  Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: cint_c.lex.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2009 Broadcom Corp.
* All Rights Reserved.$
*
* File:       cint_scanner.l
* Purpose:     CINT Flex input file
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_c.lex.c

No license file was found, but licenses were detected in source scan.

```
/**
* <pre>
* ==========================================================================
* ==  sbQe2000ElibContext.h - Private declaration of the elib context struct  ==
* ==========================================================================
*
* WORKING REVISION: $Id: sbQe2000ElibContext.h,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000ElibContext.h
*
* ABSTRACT:
*
*     This is the private declaration of the elib context struct.  The user
*     gets an opaque handle to this structure in the form of an SB_EP_HANDLE
*     that is defined in sbQe2000Elib.h.  The user always uses the opaque handle to
*     access the elib API.  This file defines the internal structure of the
*     elib context, and is private to the elib.
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     25-August-2004
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000ElibContext.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io_mmi.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/io_mmi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bsc_at24c64.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*            [BSC] - Broadcom Serial Control (I2C controller)
*             |
*      ==========O=======o=====================o========== I2C bus
*                  |                 |
*               [pca9548 - 8-port mux]  [at24c64 - serial eeprom]
*                |||||||||
*         [eeprom]  - |||||||
*          [max6653]  - ||||||
*           [max6653]   - |||
*            [max6653]   - ||
*             [max6653]   -   - [dpm73]
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bsc_at24c64.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: nicext.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Name:       nicext.h
*
* Description: Broadcom Network Interface Card Extension (NICE) is an
*            extension to Linux NET device kernel mode drivers.
*            NICE is designed to provide additional functionalities,
*            such as receive packet intercept. To support Broadcom NICE,
*            the network device driver can be modified by adding an
*            device ioctl handler and by indicating receiving packets
*            to the NICE receive handler. Broadcom NICE will only be
*            enabled by a NICE-aware intermediate driver, such as
*            Broadcom Advanced Server Program Driver (BASP). When NICE
```

```
*            is not enabled, the modified network device drivers
*            functions exactly as other non-NICE aware drivers.
*
* Author:      Frankie Fan
*
* Created:     September 17, 2000
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/nicext.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: metrolite.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       metrolite.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/metrolite.c
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
#
# $Id: stripfix.pl,v 1.2 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Perl version of the "stripfix.c" program
#
# In Tornado tools, stripppc and objcopyppc corrupt the ELF program header
# and require the use of the "stripfix" kludge.  Alternately, Solaris'
# strip works on PPC binaries also (/usr/ccs/bin/strip).
#

use Fcntl;

($prog = $0) =~ s,.*/,,;

($#ARGV == 3) ||
```

```
   die "Usage: $prog <unstripped-file> <stripped-file> <byte-offset> <word-count>\n" .
      "\tThis utility extracts <word-count> words from <unstripped-file>\n" .
      "\tstarting at offset <byte-offset>, and pastes them into the same\n" .
      "\tlocation in <stripped-file>.\n";

($unstripped, $stripped, $offset, $words) =
   ($ARGV[0], $ARGV[1], $ARGV[2], $ARGV[3]);

#
# Read the interesting bytes from the unstripped input file
#
sysopen(INFILE, $unstripped, O_RDONLY, 0) ||
   die "$prog: input file $unstripped: cannot open: $!\n";
binmode INFILE;
sysseek(INFILE, $offset, SEEK_SET) ||
   die "$prog: input file $unstripped: seek failed: $!\n";
$len = sysread(INFILE, $data, $words * 4);
defined($len) ||
   die "$prog: input file $unstripped: read failed: $!\n";
($len == $words * 4) ||
   die "$prog: input file $unstripped: read failed: returned $len bytes\n";
close(INFILE) ||
   die "$prog: input file $unstripped: close failed: $!\n";

#
# Now overwite the corresponding bytes in the stripped output file
#
sysopen(OUTFILE, $stripped, O_WRONLY, 0) ||
   die "$prog: output file $stripped: cannot open: $!\n";
binmode OUTFILE;
sysseek(OUTFILE, $offset, SEEK_SET) ||
   die "$prog: output file $stripped: seek failed: $!\n";
$len = syswrite(OUTFILE, $data, $words * 4);
defined($len) ||
   die "$prog: output file $stripped: write failed: $!\n";
($len == $words * 4) ||
   die "$prog: output file $stripped: write failed: only $len bytes written\n";
close(OUTFILE) ||
   die "$prog: output file $stripped: close failed: $!\n";

exit 0;
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/stripfix.pl
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
```

```
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
/*
* vxWorks 5.x END virtual device driver for
* Broadcom BCM44XX/BCM47XX family 10/100 Mbps Ethernet Controller
*
* Copyright(c) 2000 Broadcom Corp.
* All Rights Reserved.
* $Id: et_virt.c,v 1.1 2004/02/24 07:47:00 csm Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_virt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sram.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Triumph external SRAM CLI command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/sram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_sand_prt.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_sand_prt.c
* Purpose:    Beautified cli output routine
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_prt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1BEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1BEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nat.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    nat.c
* Purpose: Common NAT API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/nat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pkt.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* processing Packets.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       bcm88950_a0.c
* Purpose:     bcm88950_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88950_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qux_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC QUX INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QUX/qux_intr_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memrand.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Random index memory test implemented via S-Channel table read/write.
*
* The test algorithm from Gil Winograd (Broadcom in Irvine) is:
*
* for ( a long time ) {
*   generate 4 random addresses: a0, a1, a2, a3
*   generate 4 random data words: d0, d1, d2, d3
*   for ( i = 0 to 3 ) {
*     write d0 to address a0
*     write d1 to address a1
*     write d2 to address a2
*     write d3 to address a3
*     read a0 into variable v0
*     read a1 into variable v1
*     read a2 into variable v2
*     read a3 into variable v3
*
*     verify that all reads were correct
*     if ( verification fails ) {
```

```
*       print a0, a1, a2, a3
*       print d0, d1, d2, d3
*       print v0, v1, v2, v3
*     }
*   }
* }
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/memrand.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:soc_dnx_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/soc_dnx_jericho_2_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/soc_dnx_jericho_2_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_config_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_traffic_mgmt.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: main.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       main.c
* Purpose:     Standalone CINT application
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
*****************************************************************************************
```

Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO

DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmtblmgr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr/nlmtblmgr.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_fp_fem.c,v 1.66 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_fp_fem.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trill.c,v 1.173 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW Trill API
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_ids.c,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phymod_ids.c
* Purpose:     These routines and structures are related to
*              figuring out core and phy IDs correlating specific device
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phymod_ids.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.61.14.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 Port API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time.c,v 1.77 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       time.c
*
* Remarks:    Broadcom StrataSwitch Time BroadSync API
*
* Functions:
*      Private Interface functions
*
*      _bcm_esw_time_hw_clear
*      _bcm_esw_time_deinit
*      _bcm_esw_time_reinit
*      _bcm_esw_time_interface_id_validate
```

```
*     _bcm_esw_time_interface_input_validate
*     _bcm_esw_time_interface_allocate_id
*     _bcm_esw_time_interface_heartbeat_install
*     _bcm_esw_time_interface_accuracy_time2hw
*     _bcm_esw_time_interface_drift_install
*     _bcm_esw_time_interface_offset_install
*     _bcm_esw_time_interface_ref_clock_install
*     _bcm_esw_time_interface_install
*     _bcm_esw_time_interface_dual_bs_install
*     _bcm_time_interface_free
*     _bcm_esw_time_accuracy_parse
*     _bcm_esw_time_input_parse
*     _bcm_esw_time_capture_counter_read
*     _bcm_esw_time_capture_get
*     _bcm_esw_time_interface_offset_get
*     _bcm_esw_time_interface_drift_get
*     _bcm_esw_time_interface_ref_clock_get
*     _bcm_esw_time_interface_accuracy_get
*     _bcm_esw_time_interface_get
*     _bcm_esw_time_interface_dual_bs_get
*     _bcm_esw_time_hw_interrupt_dflt
*     _bcm_esw_time_hw_interrupt
*     _bcm_esw_time_trigger_to_timestamp_mode
*     _bcm_esw_time_trigger_from_timestamp_mode
*     _bcm_esw_time_bs_init
*     _bcm_time_sw_dump
*
*     Public Interface functions
*
*     bcm_esw_time_init
*     bcm_esw_time_deinit
*     bcm_esw_time_interface_add
*     bcm_esw_time_interface_delete
*     bcm_esw_time_interface_get
*     bcm_esw_time_interface_delete_all
*     bcm_esw_time_interface_traverse
*     bcm_esw_time_capture_get
*     bcm_esw_time_heartbeat_enable_set
*     bcm_esw_time_heartbeat_enable_get
*     bcm_esw_time_trigger_enable_set
*     bcm_esw_time_trigger_enable_get
*     bcm_esw_time_heartbeat_register
*     bcm_esw_time_heartbeat_unregister
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/time.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsAlloc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsDataTxRx.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOsAlloc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_filter.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: VLAN management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: testlist.h,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       testlist.h
* Purpose:     External declarations for test functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/testlist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcOamFileTrans.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcOamFileTrans.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/CtcOamFileTrans.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_niv.c 2016/09/14 1:53:00 patild Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_niv.c
* Purpose: Maintains all the debug information for niv
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/niv/tomahawk_niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_stk_uc_dyn_3tmd.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stk_uc_dyn_3tmd.c
* Purpose: Example Stacking UC Validation
* Reference: BCM88650 TM Device Driver (Stacking)
*
*
* Environment:
*
* The following application example matches the following system configuration:
*
*     Tm-domain=0:                Tm-domain=1:                                Tm-domain=2
*        fap-id=0                  fap-id=1                                  fap-id=2
*        local-stacking ports:        local-stacking ports:                        local-stacking ports:
*           to Tm-domain 1: 15,16        to Tm-domain 0: 15,16 (system: 256+15, 256+16)        to Tm-domain 1:
14,15 (system: 256*2 + 14, 256*2 + 15)
*           to Tm-domain 2: 14           to Tm-domain 2: 13,14 (system: 256+13, 256+14)        to Tm-domain 0: 16
(system: 256*2 + 16)
*        in-local-port: 13            in-local-port: none                         in-local-port: 256*2+13
*        out-ports: 13,17             out-ports: 256 +13,256 +17                       out-port: 256*2 +1, 256*2 +13
*
*                    in_port       --------                         --------                     --------     in_port
*                          -------|     |       stacking ports       |     |      stacking port     |     |------
*                                |     |----------------------------- |     |--------------------------|     |
*                          -------|     |----------------------------- |     |--------------------------|     |-----
*                                |     |                        |     |                     |     |
*                                --------                         --------                     --------
*                                  |                                                          |
*                                  ------------------------------------------------------------------------
*                                                                stacking-port
*
* All the configuration example is in stacking_uc_dyn_3tmd_appl().
* Relevant soc properties configuration (For All TM-domains):
*
*   stacking_enable=1
*   fabric_ftmh_outlif_extension=ALWAYS
*   system_ftmh_load_balancing_ext_mode=ENABLED
*
*   Local:
*      diag_disable=1
*
*   Stacking dynamic configuration flow:
*      1. System bring up: soc property configuration.
*      2. Bring up local application
```

```
*       3. Adding stacking ports (any order):
*          a. Create Stacking DB (bcm_stk_modid_domain_add())
*          b. Set local tm-domain (bcm_switch_control_set(bcmSwitchTMDomain))
*          c. Configure header type (bcm_switch_control_port_set(bcmSwitchPortHeaderType,
BCM_SWITCH_PORT_HEADER_TYPE_STACKING))
*       4. Create stacking trunk:
*          a. Create tid
*          b. Add ports
*       5. Add remote TMD ports
*       6. configure reachability: reach tmd via stk_trunk (bcm_stk_domain_stk_trunk_add())
*
* Run Application:
*    cd ../../../../src/examples/dpp
*    cint cint_stk_uc_dyn.c
*    cint
* In TMD 0:
*    stacking_uc_dyn_3tmd_appl(unit, 0);
* In TMD 1:
*    stacking_uc_dyn_3tmd_appl(unit, 1);
* In TMD 2:
*    stacking_uc_dyn_3tmd_appl(unit, 2);
*
*
* Test Run 1:
*   1. inject packet from in port (of TM-domain 0 or 2). packet format:
*       a. eth packet
*       b. da[5] = out port in hex % 256 (port 256 + 13 --> 0x0,0x0,0x0,0x0,0x0,0x0d)
*       c. sa changes (for lb-key)
*       d. vlan tag = 1.
*  2. Expected Output:
*      a. according to the configured output port, the same packet should appear at the output - capture out going
packet.
*      b. traffic should be divided on all stacking ports (accept stacking port that connect TM-domain 0 to Tm-
domain 2, see application below).
*      c. expected output of shell command "show counters" :
*         (for one packet sent from Tm-domain 2)
*
*      on TM-domain 2:
*
*         RX
*        ---
*         Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |          snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*        ------------------------------------------------------------------------------------------------------------
*          13 ||                    1 |                    0 |                    0 |                    1 |
*         TX
*         ---
*         Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
```

```
snmpEtherStatsTXNoErrors |
*         ---------------------------------------------------------------------------------------------------------------
*           15 ||                    0 |                    1 |                    0 |                    1 |
*
*         * packet should leave from port 15 or port 14, selected randomly.
*
*       on TM-domain 1:
*
*         RX
*        ---
*         Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |           snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*         ---------------------------------------------------------------------------------------------------------------
*           14 ||                    0 |                    0 |                    1 |                    1 |
*         TX
*         ---
*         Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*         ---------------------------------------------------------------------------------------------------------------
*           16 ||                    0 |                    1 |                    0 |                    1 |
*
*         * packet should enter from port 14 or port 13 depend on which port it's leave Tm-domain 2, and leave from
port 15 or port 16, selected randomly.
*
*       on TM-domain 0:
*
*         RX
*        ---
*         Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |           snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*         ---------------------------------------------------------------------------------------------------------------
*           16 ||                    0 |                    0 |                    1 |                    1 |
*         TX
*         ---
*         Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*         ---------------------------------------------------------------------------------------------------------------
*           13 ||                    1 |                    0 |                    0 |                    1 |
*
*         * packet should enter from port 15 or port 16 depend on which port it's leave Tm-domain 1.
*
*
*  ECMP-
*     to see packets pass through the stacking port that connect TM-domain 0 to Tm-domain 2,
*     Run (after running the regular application) on TM-domain 0:
*         cint
*         stacking_uc_dyn_3tmd_ecmp_appl(unit, 0);
*
```

```
*      and inject packets to in-port of TM-domain 0.
*      the expected output is: traffic divided to all stacking ports.
*
* Remarks:
*    1. Read Stacking section in BCM88650 TM Device Driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stk_uc_dyn_3tmd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_8x10g+2xhg10_1xil100.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x10g+2xhg10_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        phy8806x.c
* Purpose:     Support Broadcom BCP8806X external PHY.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Symbol table file for the BCMI_QSGMIIE_SERDES.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/bcmi_qsgmiie_serdes_resetval.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_flow_control_fe3200.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE configure FIFOs example:
*
* The test generate four types of fifo_type,
* it configure thresholds for each type and attach links
* to the fifo_types
*
* At the end the test validate configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_flow_control_fe3200.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom StrataSwitch SNMP Statistics API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_l3_rif_cos.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_l3_rif_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xlmac.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XLMAC driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/xlmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmnvram.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* NVRAM variable manipulation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmnvram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_8x10g_16x1g_1xhg127.h,v 1.1.2.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x10g_16x1g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* ==========================================================
* ==  sbQe2000ElibVlanMem.c - elib VLAN Memory Management  ==
* ==========================================================
```

```
*
* WORKING REVISION: $Id: sbQe2000ElibVlanMem.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*    sbQe2000ElibVlanMem.c
*
* ABSTRACT:
*
*    elib public API for VLAN Memory Management
*
*    The memory management scheme works as follows:
*
*    Structure:
*       AVL Tree:
*         Each node in the tree describes a free block of memory.
*         Said node has the number of lines that contained in the block,
*         as well as the starting address (within the BF memory) of the
*         block.
*       Doubly Linked List:
*         The nodes within the aforementioned tree have previous and next
*         pointers to allow for a DLL.  This DLL is used to coalesce
*         adjacent free blocks, reducing fragmentation, and allowing for
*         larger blocks to be allocated.
*
*    Initialization:
*         We start with a single node avl tree.  This is deemed the 'free'
*         block tree.  The node has the entire Switch Context Record Memory.
*         (15K lines, each line is 64 bits).  We also start with this node
*         as the head of our doubly linked list.
*
*    Allocation:
*         We execute a best fit search of the free tree.
*         The node returned to us is removed from the tree.  If the node
*         returned to us is larger than our need, we split off the
*         unused portion and add said portion back into the tree.
*         We mark the allocated portion used, insert the remainder
*         into the DLL (the allocated node was already in the DLL).
*         We then return the BF memory address to the user.
*
*    ReAlloc:
*         If the realloc size is identical, we simply return the same
*         address to the user.
*         Otherwise, we free the associated block, (with possible
*         coalescence), and allocate a fresh block.
```

```
*         One item of note, this implementation of realloc does not
*         copy the original contents of the memory to the new location.
*
*     Free:
*         Find the node (within the DLL) associated with this block of
*         memory.  If the previous block is free also, coalesce the two
*         blocks into one.  If the next block is free, coalesce that block
*         into this one.  Mark the memory as free in the DLL, and add it to
*         the free tree.
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     21-June-2005
*     Rewritten to use AVL free tree on:
*     27-July-2005
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbQe2000ElibVlanMem.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm88675_board.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Dram dq swaps for BCM88675

config add ext_ram_dq_swap_dram0_byte0_bit0.BCM88675=4
config add ext_ram_dq_swap_dram0_byte0_bit1.BCM88675=6
config add ext_ram_dq_swap_dram0_byte0_bit2.BCM88675=0
config add ext_ram_dq_swap_dram0_byte0_bit3.BCM88675=7
config add ext_ram_dq_swap_dram0_byte0_bit4.BCM88675=5
config add ext_ram_dq_swap_dram0_byte0_bit5.BCM88675=2
config add ext_ram_dq_swap_dram0_byte0_bit6.BCM88675=1
config add ext_ram_dq_swap_dram0_byte0_bit7.BCM88675=3
config add ext_ram_dq_swap_dram0_byte1_bit0.BCM88675=0
config add ext_ram_dq_swap_dram0_byte1_bit1.BCM88675=2
```

```
config add ext_ram_dq_swap_dram0_byte1_bit2.BCM88675=1
config add ext_ram_dq_swap_dram0_byte1_bit3.BCM88675=4
config add ext_ram_dq_swap_dram0_byte1_bit4.BCM88675=3
config add ext_ram_dq_swap_dram0_byte1_bit5.BCM88675=5
config add ext_ram_dq_swap_dram0_byte1_bit6.BCM88675=7
config add ext_ram_dq_swap_dram0_byte1_bit7.BCM88675=6
config add ext_ram_dq_swap_dram0_byte2_bit0.BCM88675=4
config add ext_ram_dq_swap_dram0_byte2_bit1.BCM88675=0
config add ext_ram_dq_swap_dram0_byte2_bit2.BCM88675=2
config add ext_ram_dq_swap_dram0_byte2_bit3.BCM88675=6
config add ext_ram_dq_swap_dram0_byte2_bit4.BCM88675=5
config add ext_ram_dq_swap_dram0_byte2_bit5.BCM88675=7
config add ext_ram_dq_swap_dram0_byte2_bit6.BCM88675=3
config add ext_ram_dq_swap_dram0_byte2_bit7.BCM88675=1
config add ext_ram_dq_swap_dram0_byte3_bit0.BCM88675=0
config add ext_ram_dq_swap_dram0_byte3_bit1.BCM88675=5
config add ext_ram_dq_swap_dram0_byte3_bit2.BCM88675=4
config add ext_ram_dq_swap_dram0_byte3_bit3.BCM88675=1
config add ext_ram_dq_swap_dram0_byte3_bit4.BCM88675=3
config add ext_ram_dq_swap_dram0_byte3_bit5.BCM88675=7
config add ext_ram_dq_swap_dram0_byte3_bit6.BCM88675=6
config add ext_ram_dq_swap_dram0_byte3_bit7.BCM88675=2
config add ext_ram_dq_swap_dram1_byte0_bit0.BCM88675=3
config add ext_ram_dq_swap_dram1_byte0_bit1.BCM88675=4
config add ext_ram_dq_swap_dram1_byte0_bit2.BCM88675=0
config add ext_ram_dq_swap_dram1_byte0_bit3.BCM88675=1
config add ext_ram_dq_swap_dram1_byte0_bit4.BCM88675=7
config add ext_ram_dq_swap_dram1_byte0_bit5.BCM88675=2
config add ext_ram_dq_swap_dram1_byte0_bit6.BCM88675=6
config add ext_ram_dq_swap_dram1_byte0_bit7.BCM88675=5
config add ext_ram_dq_swap_dram1_byte1_bit0.BCM88675=0
config add ext_ram_dq_swap_dram1_byte1_bit1.BCM88675=2
config add ext_ram_dq_swap_dram1_byte1_bit2.BCM88675=6
config add ext_ram_dq_swap_dram1_byte1_bit3.BCM88675=4
config add ext_ram_dq_swap_dram1_byte1_bit4.BCM88675=5
config add ext_ram_dq_swap_dram1_byte1_bit5.BCM88675=7
config add ext_ram_dq_swap_dram1_byte1_bit6.BCM88675=1
config add ext_ram_dq_swap_dram1_byte1_bit7.BCM88675=3
config add ext_ram_dq_swap_dram1_byte2_bit0.BCM88675=3
config add ext_ram_dq_swap_dram1_byte2_bit1.BCM88675=1
config add ext_ram_dq_swap_dram1_byte2_bit2.BCM88675=4
config add ext_ram_dq_swap_dram1_byte2_bit3.BCM88675=2
config add ext_ram_dq_swap_dram1_byte2_bit4.BCM88675=0
config add ext_ram_dq_swap_dram1_byte2_bit5.BCM88675=6
config add ext_ram_dq_swap_dram1_byte2_bit6.BCM88675=5
config add ext_ram_dq_swap_dram1_byte2_bit7.BCM88675=7
config add ext_ram_dq_swap_dram1_byte3_bit0.BCM88675=0
config add ext_ram_dq_swap_dram1_byte3_bit1.BCM88675=1
```

```
config add ext_ram_dq_swap_dram1_byte3_bit2.BCM88675=6
config add ext_ram_dq_swap_dram1_byte3_bit3.BCM88675=3
config add ext_ram_dq_swap_dram1_byte3_bit4.BCM88675=2
config add ext_ram_dq_swap_dram1_byte3_bit5.BCM88675=7
config add ext_ram_dq_swap_dram1_byte3_bit6.BCM88675=5
config add ext_ram_dq_swap_dram1_byte3_bit7.BCM88675=4
config add ext_ram_dq_swap_dram2_byte0_bit0.BCM88675=3
config add ext_ram_dq_swap_dram2_byte0_bit1.BCM88675=0
config add ext_ram_dq_swap_dram2_byte0_bit2.BCM88675=5
config add ext_ram_dq_swap_dram2_byte0_bit3.BCM88675=6
config add ext_ram_dq_swap_dram2_byte0_bit4.BCM88675=7
config add ext_ram_dq_swap_dram2_byte0_bit5.BCM88675=2
config add ext_ram_dq_swap_dram2_byte0_bit6.BCM88675=4
config add ext_ram_dq_swap_dram2_byte0_bit7.BCM88675=1
config add ext_ram_dq_swap_dram2_byte1_bit0.BCM88675=6
config add ext_ram_dq_swap_dram2_byte1_bit1.BCM88675=4
config add ext_ram_dq_swap_dram2_byte1_bit2.BCM88675=0
config add ext_ram_dq_swap_dram2_byte1_bit3.BCM88675=2
config add ext_ram_dq_swap_dram2_byte1_bit4.BCM88675=7
config add ext_ram_dq_swap_dram2_byte1_bit5.BCM88675=5
config add ext_ram_dq_swap_dram2_byte1_bit6.BCM88675=1
config add ext_ram_dq_swap_dram2_byte1_bit7.BCM88675=3
config add ext_ram_dq_swap_dram2_byte2_bit0.BCM88675=0
config add ext_ram_dq_swap_dram2_byte2_bit1.BCM88675=2
config add ext_ram_dq_swap_dram2_byte2_bit2.BCM88675=7
config add ext_ram_dq_swap_dram2_byte2_bit3.BCM88675=5
config add ext_ram_dq_swap_dram2_byte2_bit4.BCM88675=1
config add ext_ram_dq_swap_dram2_byte2_bit5.BCM88675=3
config add ext_ram_dq_swap_dram2_byte2_bit6.BCM88675=4
config add ext_ram_dq_swap_dram2_byte2_bit7.BCM88675=6
config add ext_ram_dq_swap_dram2_byte3_bit0.BCM88675=6
config add ext_ram_dq_swap_dram2_byte3_bit1.BCM88675=4
config add ext_ram_dq_swap_dram2_byte3_bit2.BCM88675=7
config add ext_ram_dq_swap_dram2_byte3_bit3.BCM88675=2
config add ext_ram_dq_swap_dram2_byte3_bit4.BCM88675=1
config add ext_ram_dq_swap_dram2_byte3_bit5.BCM88675=5
config add ext_ram_dq_swap_dram2_byte3_bit6.BCM88675=0
config add ext_ram_dq_swap_dram2_byte3_bit7.BCM88675=3
config add ext_ram_dq_swap_dram3_byte0_bit0.BCM88675=4
config add ext_ram_dq_swap_dram3_byte0_bit1.BCM88675=7
config add ext_ram_dq_swap_dram3_byte0_bit2.BCM88675=5
config add ext_ram_dq_swap_dram3_byte0_bit3.BCM88675=3
config add ext_ram_dq_swap_dram3_byte0_bit4.BCM88675=6
config add ext_ram_dq_swap_dram3_byte0_bit5.BCM88675=2
config add ext_ram_dq_swap_dram3_byte0_bit6.BCM88675=1
config add ext_ram_dq_swap_dram3_byte0_bit7.BCM88675=0
config add ext_ram_dq_swap_dram3_byte1_bit0.BCM88675=7
config add ext_ram_dq_swap_dram3_byte1_bit1.BCM88675=6
```

```
config add ext_ram_dq_swap_dram3_byte1_bit2.BCM88675=2
config add ext_ram_dq_swap_dram3_byte1_bit3.BCM88675=4
config add ext_ram_dq_swap_dram3_byte1_bit4.BCM88675=3
config add ext_ram_dq_swap_dram3_byte1_bit5.BCM88675=1
config add ext_ram_dq_swap_dram3_byte1_bit6.BCM88675=0
config add ext_ram_dq_swap_dram3_byte1_bit7.BCM88675=5
config add ext_ram_dq_swap_dram3_byte2_bit0.BCM88675=0
config add ext_ram_dq_swap_dram3_byte2_bit1.BCM88675=2
config add ext_ram_dq_swap_dram3_byte2_bit2.BCM88675=1
config add ext_ram_dq_swap_dram3_byte2_bit3.BCM88675=6
config add ext_ram_dq_swap_dram3_byte2_bit4.BCM88675=4
config add ext_ram_dq_swap_dram3_byte2_bit5.BCM88675=5
config add ext_ram_dq_swap_dram3_byte2_bit6.BCM88675=7
config add ext_ram_dq_swap_dram3_byte2_bit7.BCM88675=3
config add ext_ram_dq_swap_dram3_byte3_bit0.BCM88675=0
config add ext_ram_dq_swap_dram3_byte3_bit1.BCM88675=7
config add ext_ram_dq_swap_dram3_byte3_bit2.BCM88675=4
config add ext_ram_dq_swap_dram3_byte3_bit3.BCM88675=2
config add ext_ram_dq_swap_dram3_byte3_bit4.BCM88675=5
config add ext_ram_dq_swap_dram3_byte3_bit5.BCM88675=6
config add ext_ram_dq_swap_dram3_byte3_bit6.BCM88675=3
config add ext_ram_dq_swap_dram3_byte3_bit7.BCM88675=1
config add ext_ram_dq_swap_dram4_byte0_bit0.BCM88675=6
config add ext_ram_dq_swap_dram4_byte0_bit1.BCM88675=4
config add ext_ram_dq_swap_dram4_byte0_bit2.BCM88675=2
config add ext_ram_dq_swap_dram4_byte0_bit3.BCM88675=7
config add ext_ram_dq_swap_dram4_byte0_bit4.BCM88675=5
config add ext_ram_dq_swap_dram4_byte0_bit5.BCM88675=1
config add ext_ram_dq_swap_dram4_byte0_bit6.BCM88675=3
config add ext_ram_dq_swap_dram4_byte0_bit7.BCM88675=0
config add ext_ram_dq_swap_dram4_byte1_bit0.BCM88675=7
config add ext_ram_dq_swap_dram4_byte1_bit1.BCM88675=6
config add ext_ram_dq_swap_dram4_byte1_bit2.BCM88675=5
config add ext_ram_dq_swap_dram4_byte1_bit3.BCM88675=4
config add ext_ram_dq_swap_dram4_byte1_bit4.BCM88675=1
config add ext_ram_dq_swap_dram4_byte1_bit5.BCM88675=3
config add ext_ram_dq_swap_dram4_byte1_bit6.BCM88675=2
config add ext_ram_dq_swap_dram4_byte1_bit7.BCM88675=0
config add ext_ram_dq_swap_dram4_byte2_bit0.BCM88675=6
config add ext_ram_dq_swap_dram4_byte2_bit1.BCM88675=4
config add ext_ram_dq_swap_dram4_byte2_bit2.BCM88675=7
config add ext_ram_dq_swap_dram4_byte2_bit3.BCM88675=1
config add ext_ram_dq_swap_dram4_byte2_bit4.BCM88675=5
config add ext_ram_dq_swap_dram4_byte2_bit5.BCM88675=2
config add ext_ram_dq_swap_dram4_byte2_bit6.BCM88675=3
config add ext_ram_dq_swap_dram4_byte2_bit7.BCM88675=0
config add ext_ram_dq_swap_dram4_byte3_bit0.BCM88675=4
config add ext_ram_dq_swap_dram4_byte3_bit1.BCM88675=2
```

```
config add ext_ram_dq_swap_dram4_byte3_bit2.BCM88675=6
config add ext_ram_dq_swap_dram4_byte3_bit3.BCM88675=5
config add ext_ram_dq_swap_dram4_byte3_bit4.BCM88675=3
config add ext_ram_dq_swap_dram4_byte3_bit5.BCM88675=7
config add ext_ram_dq_swap_dram4_byte3_bit6.BCM88675=1
config add ext_ram_dq_swap_dram4_byte3_bit7.BCM88675=0
config add ext_ram_dq_swap_dram5_byte0_bit0.BCM88675=6
config add ext_ram_dq_swap_dram5_byte0_bit1.BCM88675=7
config add ext_ram_dq_swap_dram5_byte0_bit2.BCM88675=5
config add ext_ram_dq_swap_dram5_byte0_bit3.BCM88675=4
config add ext_ram_dq_swap_dram5_byte0_bit4.BCM88675=3
config add ext_ram_dq_swap_dram5_byte0_bit5.BCM88675=1
config add ext_ram_dq_swap_dram5_byte0_bit6.BCM88675=2
config add ext_ram_dq_swap_dram5_byte0_bit7.BCM88675=0
config add ext_ram_dq_swap_dram5_byte1_bit0.BCM88675=5
config add ext_ram_dq_swap_dram5_byte1_bit1.BCM88675=7
config add ext_ram_dq_swap_dram5_byte1_bit2.BCM88675=1
config add ext_ram_dq_swap_dram5_byte1_bit3.BCM88675=3
config add ext_ram_dq_swap_dram5_byte1_bit4.BCM88675=4
config add ext_ram_dq_swap_dram5_byte1_bit5.BCM88675=0
config add ext_ram_dq_swap_dram5_byte1_bit6.BCM88675=6
config add ext_ram_dq_swap_dram5_byte1_bit7.BCM88675=2
config add ext_ram_dq_swap_dram5_byte2_bit0.BCM88675=3
config add ext_ram_dq_swap_dram5_byte2_bit1.BCM88675=7
config add ext_ram_dq_swap_dram5_byte2_bit2.BCM88675=2
config add ext_ram_dq_swap_dram5_byte2_bit3.BCM88675=1
config add ext_ram_dq_swap_dram5_byte2_bit4.BCM88675=5
config add ext_ram_dq_swap_dram5_byte2_bit5.BCM88675=4
config add ext_ram_dq_swap_dram5_byte2_bit6.BCM88675=6
config add ext_ram_dq_swap_dram5_byte2_bit7.BCM88675=0
config add ext_ram_dq_swap_dram5_byte3_bit0.BCM88675=6
config add ext_ram_dq_swap_dram5_byte3_bit1.BCM88675=4
config add ext_ram_dq_swap_dram5_byte3_bit2.BCM88675=5
config add ext_ram_dq_swap_dram5_byte3_bit3.BCM88675=7
config add ext_ram_dq_swap_dram5_byte3_bit4.BCM88675=2
config add ext_ram_dq_swap_dram5_byte3_bit5.BCM88675=0
config add ext_ram_dq_swap_dram5_byte3_bit6.BCM88675=1
config add ext_ram_dq_swap_dram5_byte3_bit7.BCM88675=3
config add ext_ram_dq_swap_dram6_byte0_bit0.BCM88675=6
config add ext_ram_dq_swap_dram6_byte0_bit1.BCM88675=4
config add ext_ram_dq_swap_dram6_byte0_bit2.BCM88675=0
config add ext_ram_dq_swap_dram6_byte0_bit3.BCM88675=7
config add ext_ram_dq_swap_dram6_byte0_bit4.BCM88675=3
config add ext_ram_dq_swap_dram6_byte0_bit5.BCM88675=2
config add ext_ram_dq_swap_dram6_byte0_bit6.BCM88675=5
config add ext_ram_dq_swap_dram6_byte0_bit7.BCM88675=1
config add ext_ram_dq_swap_dram6_byte1_bit0.BCM88675=5
config add ext_ram_dq_swap_dram6_byte1_bit1.BCM88675=7
```

```
config add ext_ram_dq_swap_dram6_byte1_bit2.BCM88675=3
config add ext_ram_dq_swap_dram6_byte1_bit3.BCM88675=1
config add ext_ram_dq_swap_dram6_byte1_bit4.BCM88675=4
config add ext_ram_dq_swap_dram6_byte1_bit5.BCM88675=6
config add ext_ram_dq_swap_dram6_byte1_bit6.BCM88675=2
config add ext_ram_dq_swap_dram6_byte1_bit7.BCM88675=0
config add ext_ram_dq_swap_dram6_byte2_bit0.BCM88675=1
config add ext_ram_dq_swap_dram6_byte2_bit1.BCM88675=6
config add ext_ram_dq_swap_dram6_byte2_bit2.BCM88675=5
config add ext_ram_dq_swap_dram6_byte2_bit3.BCM88675=4
config add ext_ram_dq_swap_dram6_byte2_bit4.BCM88675=3
config add ext_ram_dq_swap_dram6_byte2_bit5.BCM88675=7
config add ext_ram_dq_swap_dram6_byte2_bit6.BCM88675=2
config add ext_ram_dq_swap_dram6_byte2_bit7.BCM88675=0
config add ext_ram_dq_swap_dram6_byte3_bit0.BCM88675=3
config add ext_ram_dq_swap_dram6_byte3_bit1.BCM88675=7
config add ext_ram_dq_swap_dram6_byte3_bit2.BCM88675=4
config add ext_ram_dq_swap_dram6_byte3_bit3.BCM88675=0
config add ext_ram_dq_swap_dram6_byte3_bit4.BCM88675=5
config add ext_ram_dq_swap_dram6_byte3_bit5.BCM88675=2
config add ext_ram_dq_swap_dram6_byte3_bit6.BCM88675=1
config add ext_ram_dq_swap_dram6_byte3_bit7.BCM88675=6
config add ext_ram_dq_swap_dram7_byte0_bit0.BCM88675=3
config add ext_ram_dq_swap_dram7_byte0_bit1.BCM88675=7
config add ext_ram_dq_swap_dram7_byte0_bit2.BCM88675=5
config add ext_ram_dq_swap_dram7_byte0_bit3.BCM88675=4
config add ext_ram_dq_swap_dram7_byte0_bit4.BCM88675=2
config add ext_ram_dq_swap_dram7_byte0_bit5.BCM88675=0
config add ext_ram_dq_swap_dram7_byte0_bit6.BCM88675=1
config add ext_ram_dq_swap_dram7_byte0_bit7.BCM88675=6
config add ext_ram_dq_swap_dram7_byte1_bit0.BCM88675=7
config add ext_ram_dq_swap_dram7_byte1_bit1.BCM88675=3
config add ext_ram_dq_swap_dram7_byte1_bit2.BCM88675=2
config add ext_ram_dq_swap_dram7_byte1_bit3.BCM88675=0
config add ext_ram_dq_swap_dram7_byte1_bit4.BCM88675=5
config add ext_ram_dq_swap_dram7_byte1_bit5.BCM88675=1
config add ext_ram_dq_swap_dram7_byte1_bit6.BCM88675=4
config add ext_ram_dq_swap_dram7_byte1_bit7.BCM88675=6
config add ext_ram_dq_swap_dram7_byte2_bit0.BCM88675=2
config add ext_ram_dq_swap_dram7_byte2_bit1.BCM88675=3
config add ext_ram_dq_swap_dram7_byte2_bit2.BCM88675=0
config add ext_ram_dq_swap_dram7_byte2_bit3.BCM88675=6
config add ext_ram_dq_swap_dram7_byte2_bit4.BCM88675=1
config add ext_ram_dq_swap_dram7_byte2_bit5.BCM88675=7
config add ext_ram_dq_swap_dram7_byte2_bit6.BCM88675=5
config add ext_ram_dq_swap_dram7_byte2_bit7.BCM88675=4
config add ext_ram_dq_swap_dram7_byte3_bit0.BCM88675=1
config add ext_ram_dq_swap_dram7_byte3_bit1.BCM88675=0
```

```
config add ext_ram_dq_swap_dram7_byte3_bit2.BCM88675=4
config add ext_ram_dq_swap_dram7_byte3_bit3.BCM88675=6
config add ext_ram_dq_swap_dram7_byte3_bit4.BCM88675=5
config add ext_ram_dq_swap_dram7_byte3_bit5.BCM88675=7
config add ext_ram_dq_swap_dram7_byte3_bit6.BCM88675=2
config add ext_ram_dq_swap_dram7_byte3_bit7.BCM88675=3

#Dram HW properties
config add ext_ram_present.BCM88675=2
config add dram_type_GDDR5_MICRON_EDW4032CABG_4GBIT=1
config add ext_ram_freq.BCM88675=2000
config add ext_ram_abi.BCM88675=1
config add ext_ram_write_dbi.BCM88675=1
config add ext_ram_read_dbi.BCM88675=1
config add ext_ram_write_crc.BCM88675=1
config add ext_ram_read_crc.BCM88675=1
config add ext_ram_cmd_par_latency.BCM88675=0
config add ext_ram_type.BCM88675=GDDR5
# ext_ram_total_size will be changed to 1024
config add ext_ram_total_size.BCM88675=1000
config add ext_ram_t_ras_enable=0

#RX polarity
#BCM88675_A0
config add phy_rx_polarity_flip.BCM88675_A0=0
config add phy_rx_polarity_flip_phy1.BCM88675_A0=1
config add phy_rx_polarity_flip_phy2.BCM88675_A0=1
config add phy_rx_polarity_flip_phy3.BCM88675_A0=1
config add phy_rx_polarity_flip_phy4.BCM88675_A0=1
config add phy_rx_polarity_flip_phy6.BCM88675_A0=1
config add phy_rx_polarity_flip_phy8.BCM88675_A0=1
config add phy_rx_polarity_flip_phy9.BCM88675_A0=1
config add phy_rx_polarity_flip_phy10.BCM88675_A0=1
config add phy_rx_polarity_flip_phy11.BCM88675_A0=1
config add phy_rx_polarity_flip_phy12.BCM88675_A0=1
config add phy_rx_polarity_flip_phy13.BCM88675_A0=1
config add phy_rx_polarity_flip_phy14.BCM88675_A0=1
config add phy_rx_polarity_flip_phy18.BCM88675_A0=1
config add phy_rx_polarity_flip_phy19.BCM88675_A0=1
config add phy_rx_polarity_flip_phy20.BCM88675_A0=1
config add phy_rx_polarity_flip_phy23.BCM88675_A0=1
config add phy_rx_polarity_flip_phy26.BCM88675_A0=1
config add phy_rx_polarity_flip_phy35.BCM88675_A0=1
config add phy_rx_polarity_flip_phy37.BCM88675_A0=1
config add phy_rx_polarity_flip_phy38.BCM88675_A0=1
config add phy_rx_polarity_flip_phy40.BCM88675_A0=1
config add phy_rx_polarity_flip_phy41.BCM88675_A0=1
config add phy_rx_polarity_flip_phy42.BCM88675_A0=1
```

```
config add phy_rx_polarity_flip_phy43.BCM88675_A0=1
config add phy_rx_polarity_flip_phy44.BCM88675_A0=1
config add phy_rx_polarity_flip_phy45.BCM88675_A0=1

#BCM88675_A1
config add phy_rx_polarity_flip.BCM88675_A1=0
config add phy_rx_polarity_flip_phy1.BCM88675_A1=1
config add phy_rx_polarity_flip_phy2.BCM88675_A1=1
config add phy_rx_polarity_flip_phy3.BCM88675_A1=1
config add phy_rx_polarity_flip_phy4.BCM88675_A1=1
config add phy_rx_polarity_flip_phy6.BCM88675_A1=1
config add phy_rx_polarity_flip_phy8.BCM88675_A1=1
config add phy_rx_polarity_flip_phy9.BCM88675_A1=1
config add phy_rx_polarity_flip_phy10.BCM88675_A1=1
config add phy_rx_polarity_flip_phy11.BCM88675_A1=1
config add phy_rx_polarity_flip_phy12.BCM88675_A1=1
config add phy_rx_polarity_flip_phy13.BCM88675_A1=1
config add phy_rx_polarity_flip_phy14.BCM88675_A1=1
config add phy_rx_polarity_flip_phy18.BCM88675_A1=1
config add phy_rx_polarity_flip_phy19.BCM88675_A1=1
config add phy_rx_polarity_flip_phy20.BCM88675_A1=1
config add phy_rx_polarity_flip_phy23.BCM88675_A1=1
config add phy_rx_polarity_flip_phy26.BCM88675_A1=1
config add phy_rx_polarity_flip_phy35.BCM88675_A1=1
config add phy_rx_polarity_flip_phy37.BCM88675_A1=1
config add phy_rx_polarity_flip_phy38.BCM88675_A1=1
config add phy_rx_polarity_flip_phy40.BCM88675_A1=1
config add phy_rx_polarity_flip_phy41.BCM88675_A1=1
config add phy_rx_polarity_flip_phy42.BCM88675_A1=1
config add phy_rx_polarity_flip_phy43.BCM88675_A1=1
config add phy_rx_polarity_flip_phy44.BCM88675_A1=1
config add phy_rx_polarity_flip_phy45.BCM88675_A1=1

#BCM88675_B0
config add phy_rx_polarity_flip.BCM88675_B0=0
config add phy_rx_polarity_flip_phy1.BCM88675_B0=1
config add phy_rx_polarity_flip_phy2.BCM88675_B0=1
config add phy_rx_polarity_flip_phy3.BCM88675_B0=1
config add phy_rx_polarity_flip_phy4.BCM88675_B0=1
config add phy_rx_polarity_flip_phy6.BCM88675_B0=1
config add phy_rx_polarity_flip_phy8.BCM88675_B0=1
config add phy_rx_polarity_flip_phy9.BCM88675_B0=1
config add phy_rx_polarity_flip_phy10.BCM88675_B0=1
config add phy_rx_polarity_flip_phy11.BCM88675_B0=1
config add phy_rx_polarity_flip_phy12.BCM88675_B0=1
config add phy_rx_polarity_flip_phy15.BCM88675_B0=1
config add phy_rx_polarity_flip_phy16.BCM88675_B0=1
config add phy_rx_polarity_flip_phy18.BCM88675_B0=1
```

```
config add phy_rx_polarity_flip_phy19.BCM88675_B0=1
config add phy_rx_polarity_flip_phy20.BCM88675_B0=1
config add phy_rx_polarity_flip_phy23.BCM88675_B0=1
config add phy_rx_polarity_flip_phy26.BCM88675_B0=1
config add phy_rx_polarity_flip_phy35.BCM88675_B0=1
config add phy_rx_polarity_flip_phy37.BCM88675_B0=1
config add phy_rx_polarity_flip_phy38.BCM88675_B0=1
config add phy_rx_polarity_flip_phy40.BCM88675_B0=1
config add phy_rx_polarity_flip_phy41.BCM88675_B0=1
config add phy_rx_polarity_flip_phy42.BCM88675_B0=1
config add phy_rx_polarity_flip_phy43.BCM88675_B0=1
config add phy_rx_polarity_flip_phy44.BCM88675_B0=1
config add phy_rx_polarity_flip_phy45.BCM88675_B0=1

#TX polarity
#BCM88675_A0
config add phy_tx_polarity_flip.BCM88675_A0=0
config add phy_tx_polarity_flip_phy2.BCM88675_A0=1
config add phy_tx_polarity_flip_phy6.BCM88675_A0=1
config add phy_tx_polarity_flip_phy10.BCM88675_A0=1
config add phy_tx_polarity_flip_phy16.BCM88675_A0=1
config add phy_tx_polarity_flip_phy18.BCM88675_A0=1
config add phy_tx_polarity_flip_phy23.BCM88675_A0=1
config add phy_tx_polarity_flip_phy26.BCM88675_A0=1
config add phy_tx_polarity_flip_phy28.BCM88675_A0=1
config add phy_tx_polarity_flip_phy34.BCM88675_A0=1
config add phy_tx_polarity_flip_phy39.BCM88675_A0=1
config add phy_tx_polarity_flip_phy48.BCM88675_A0=1
config add phy_tx_polarity_flip_phy62.BCM88675_A0=1
config add phy_tx_polarity_flip_phy65.BCM88675_A0=1
config add phy_tx_polarity_flip_phy69.BCM88675_A0=1

#BCM88675_A1
config add phy_tx_polarity_flip.BCM88675_A1=0
config add phy_tx_polarity_flip_phy2.BCM88675_A1=1
config add phy_tx_polarity_flip_phy6.BCM88675_A1=1
config add phy_tx_polarity_flip_phy10.BCM88675_A1=1
config add phy_tx_polarity_flip_phy16.BCM88675_A1=1
config add phy_tx_polarity_flip_phy18.BCM88675_A1=1
config add phy_tx_polarity_flip_phy23.BCM88675_A1=1
config add phy_tx_polarity_flip_phy26.BCM88675_A1=1
config add phy_tx_polarity_flip_phy28.BCM88675_A1=1
config add phy_tx_polarity_flip_phy34.BCM88675_A1=1
config add phy_tx_polarity_flip_phy39.BCM88675_A1=1
config add phy_tx_polarity_flip_phy48.BCM88675_A1=1
config add phy_tx_polarity_flip_phy62.BCM88675_A1=1
config add phy_tx_polarity_flip_phy65.BCM88675_A1=1
config add phy_tx_polarity_flip_phy69.BCM88675_A1=1
```

```
#BCM88675_B0
config add phy_tx_polarity_flip.BCM88675_B0=0
config add phy_tx_polarity_flip_phy2.BCM88675_B0=1
config add phy_tx_polarity_flip_phy6.BCM88675_B0=1
config add phy_tx_polarity_flip_phy10.BCM88675_B0=1
config add phy_tx_polarity_flip_phy13.BCM88675_B0=1
config add phy_tx_polarity_flip_phy14.BCM88675_B0=1
config add phy_tx_polarity_flip_phy15.BCM88675_B0=1
config add phy_tx_polarity_flip_phy18.BCM88675_B0=1
config add phy_tx_polarity_flip_phy23.BCM88675_B0=1
config add phy_tx_polarity_flip_phy26.BCM88675_B0=1
config add phy_tx_polarity_flip_phy28.BCM88675_B0=1
config add phy_tx_polarity_flip_phy34.BCM88675_B0=1
config add phy_tx_polarity_flip_phy39.BCM88675_B0=1
config add phy_tx_polarity_flip_phy48.BCM88675_B0=1
config add phy_tx_polarity_flip_phy62.BCM88675_B0=1
config add phy_tx_polarity_flip_phy65.BCM88675_B0=1
config add phy_tx_polarity_flip_phy69.BCM88675_B0=1

#rx lane swap
#BCM88675_A0
config add phy_rx_lane_map.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad0.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad1.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad2.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad3.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad4.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad5.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad6.BCM88675_A0=0x3102
config add phy_rx_lane_map_quad7.BCM88675_A0=0x3120
config add phy_rx_lane_map_quad8.BCM88675_A0=0x2301
config add phy_rx_lane_map_quad9.BCM88675_A0=0x0213
config add phy_rx_lane_map_quad10.BCM88675_A0=0x0213
config add phy_rx_lane_map_quad11.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad15.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad16.BCM88675_A0=0x3210
config add phy_rx_lane_map_quad17.BCM88675_A0=0x3210

#BCM88675_A1
config add phy_rx_lane_map.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad0.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad1.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad2.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad3.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad4.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad5.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad6.BCM88675_A1=0x3102
```

```
config add phy_rx_lane_map_quad7.BCM88675_A1=0x3120
config add phy_rx_lane_map_quad8.BCM88675_A1=0x2301
config add phy_rx_lane_map_quad9.BCM88675_A1=0x0213
config add phy_rx_lane_map_quad10.BCM88675_A1=0x0213
config add phy_rx_lane_map_quad11.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad15.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad16.BCM88675_A1=0x3210
config add phy_rx_lane_map_quad17.BCM88675_A1=0x3210

#BCM88675_B0
config add phy_rx_lane_map.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad0.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad1.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad2.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad3.BCM88675_B0=0x0123
config add phy_rx_lane_map_quad4.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad5.BCM88675_B0=0x0123
config add phy_rx_lane_map_quad6.BCM88675_B0=0x3102
config add phy_rx_lane_map_quad7.BCM88675_B0=0x3120
config add phy_rx_lane_map_quad8.BCM88675_B0=0x2301
config add phy_rx_lane_map_quad9.BCM88675_B0=0x0213
config add phy_rx_lane_map_quad10.BCM88675_B0=0x0213
config add phy_rx_lane_map_quad11.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad15.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad16.BCM88675_B0=0x3210
config add phy_rx_lane_map_quad17.BCM88675_B0=0x3210


#tx lane swap
#BCM88675_A0
config add phy_tx_lane_map.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad0.BCM88675_A0=0x3012
config add phy_tx_lane_map_quad1.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad2.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad3.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad4.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad5.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad6.BCM88675_A0=0x0213
config add phy_tx_lane_map_quad7.BCM88675_A0=0x2013
config add phy_tx_lane_map_quad8.BCM88675_A0=0x1032
config add phy_tx_lane_map_quad9.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad10.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad11.BCM88675_A0=0x3210
config add phy_tx_lane_map_quad15.BCM88675_A0=0x1302
config add phy_tx_lane_map_quad16.BCM88675_A0=0x2310
config add phy_tx_lane_map_quad17.BCM88675_A0=0x3210

#BCM88675_A1
```

```
config add phy_tx_lane_map.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad0.BCM88675_A1=0x3012
config add phy_tx_lane_map_quad1.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad2.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad3.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad4.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad5.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad6.BCM88675_A1=0x0213
config add phy_tx_lane_map_quad7.BCM88675_A1=0x2013
config add phy_tx_lane_map_quad8.BCM88675_A1=0x1032
config add phy_tx_lane_map_quad9.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad10.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad11.BCM88675_A1=0x3210
config add phy_tx_lane_map_quad15.BCM88675_A1=0x1302
config add phy_tx_lane_map_quad16.BCM88675_A1=0x2310
config add phy_tx_lane_map_quad17.BCM88675_A1=0x3210

#BCM88675_B0
config add phy_tx_lane_map.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad0.BCM88675_B0=0x3012
config add phy_tx_lane_map_quad1.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad2.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad3.BCM88675_B0=0x0123
config add phy_tx_lane_map_quad4.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad5.BCM88675_B0=0x0123
config add phy_tx_lane_map_quad6.BCM88675_B0=0x0213
config add phy_tx_lane_map_quad7.BCM88675_B0=0x2013
config add phy_tx_lane_map_quad8.BCM88675_B0=0x1032
config add phy_tx_lane_map_quad9.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad10.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad11.BCM88675_B0=0x3210
config add phy_tx_lane_map_quad15.BCM88675_B0=0x1302
config add phy_tx_lane_map_quad16.BCM88675_B0=0x2310
config add phy_tx_lane_map_quad17.BCM88675_B0=0x3210

#fabric interface polarity
config add phy_tx_polarity_flip_fabric17.BCM88675=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88675_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etu_xpt.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/etu_xpt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.336 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 - Broadcom StrataSwitch Layer-2 switch API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cos.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       knet.c
* Purpose:    Kernel Networking Management
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/knet.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_action_cmd.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_action_cmd.h
*
* MODULE PREFIX:  soc_tmcaction
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_action_cmd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
```

```
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on        Thu Feb 13 19:01:21 2014
*               MD5 Checksum        80c9b488d015cbc31e3f4b0aa72c338d
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser          3.0
*               rdb2macro.pm        4.0
*               Perl Interpreter    5.008008
*               Operating System    linux
*
* Spec Versions:  an_x1_control       1
*               an_x1_timers        1
*               an_x4_abilities     1
*               an_x4_hw_lp_pages   1
*               an_x4_sw_management 1
*               cl72_user           1
*               cl82                1
*               cl82_am             1
*               cl82_am_tsc_12      1
*               cl82_shared         1
*               digital             1
*               generic             1
*               ieee0_cl22          1
*               ilkn_control0       1
*               ilkn_status0        1
*               main0               1
*               mem_dbg             1
*               mem_ecc             1
*               misc                1
*               pmd_x1              1
*               pmd_x4              1
*               rx_x1_control0      1
*               rx_x1_control1      1
*               rx_x2_control0      1
*               rx_x2_status0       1
*               rx_x4_control0      1
*               rx_x4_control0_tsc_121
*               rx_x4_status0       1
*               rx_x4_status0_tsc_12 1
*               rx_x4_status1       1
*               sc_x1_control       1
*               sc_x1_speed_override01
*               sc_x1_speed_override11
*               sc_x1_speed_override21
```

```
*           sc_x1_speed_override31
*           sc_x4_control       1
*           sc_x4_field_override_enable1
*           sc_x4_final_config_status1
*           test1               1
*           testshared0         1
*           testshared1         1
*           tx_x1_control0      1
*           tx_x1_status0       1
*           tx_x2_control0      1
*           tx_x2_status0       1
*           tx_x4_control0      1
*           tx_x4_credit_gen0   1
*           tx_x4_status0       1
*
* RDB Files:  /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/WC4_TSC_ALL.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/ieee0_cl22_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/pmd_x1_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/testshared0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/testshared1_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/mem_ecc_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/mem_dbg_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/misc_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/an_x1_timers_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/cl82_shared_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/cl82_am_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/cl82_am_tsc_12_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/cl82_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/main0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x1_control0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x1_control1_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x1_control0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x1_status0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/an_x1_control_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x2_control0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x2_status0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x2_control0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x2_status0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/gen_per_lane_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/pmd_x4_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/test1_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x4_credit_gen0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x4_control0_regs.rdb
*         /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/tx_x4_status0_regs.rdb
```

```
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x4_control0_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x4_status0_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x4_status1_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x4_control0_tsc_12_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/rx_x4_status0_tsc_12_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/an_x4_abilities_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/an_x4_hw_lp_pages_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/an_x4_sw_management_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/digital_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/cl72_user_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_control_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x4_control_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override0_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override1_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override2_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override3_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x4_final_config_status_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x1_speed_override_common.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/enum_inc.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/sc_x4_field_override_enable_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/ilkn_control0_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/ilkn_status0_regs.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/WC4_ieeeBlockCL22.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/WC4_userBlocks1.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/WC4_userBlocks2.rdb
*          /projects/TSC_ext6/udayc/EA_Mar_26/tsce/rtl/rdb/WC4_userBlocks4.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/te16PCSRegEnums.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_sw_db.c,v 1.118 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbucket.c,v 1.49.12.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    dbucket.c
* Purpose: Caladan3 TAPS dram bucket driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/dbucket.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bme3200/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* Copyright 1996-2000 Motorola, Inc. All Rights Reserved */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/sysMotI2c.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/sysMotI2c.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/gto/mpc8548/vxworks-6.4/sysMotI2c.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/sysMotI2c.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_oam.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_oam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ref_design_starter.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/ref_design_starter.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_port.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_port.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_log.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_log.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_port.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 PORT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_fabric_source_routed_cell.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_fabric_source_routed_cell.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_kaps_diag.c, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************************
*
* Copyright 2011-2014 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
```

* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License"). Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO
YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/JER/JER_PP/jer_pp_kaps_diag.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: hashing.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

*
* File:	hashing.c
* Purpose:	TH-Hash calcualtions for trunk and ECMP packets.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/hashing.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmEmtdebugbank0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeMaxBurstEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeMaxBurstEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpCrTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpCrTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmdiag_device_dump.c,v 1.1.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_device_dump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Port to SDK 5 TX and RX APIs
Broadcom Corp.
Last Updated: March 10, 2004

Contents

(1) Overview

(2) Related Documents

(3) The BCM TX API
- (3.1) Allocating the bcm_pkt_t Structure
- (3.2) Packet Buffer Allocation and Setup
- (3.3) Simultaneous Structure and Buffer Allocation
- (3.4) Asynchronous Transmit Operations
- (3.5) Setting the Destination Ports
- (3.6) CRC Settings
- (3.7) Initializing and Configuring the TX API.
- (3.8) The Fast Path Option
- (3.9) Setting up the HiGig Header
- (3.10) Transmitting Multiple Packets

(4) The BCM RX API
- (4.1) Comparison Between PMUX and RX
- (4.2) Initializing and Configuring the RX API
- (4.3) Changes to Callback Functions
- (4.4) Registering To Receive Packets
- (4.5) Interrupt vs Non-interrupt Context
- (4.6) Received Packet Formats
- (4.7) The RX Pool Option

(5) Some Examples

(1) Overview

This document describes how to port from the BCM packet send and PMUX APIs to the BCM TX and RX APIs.

(2) Related Documents

In the directory $SDK/doc, see also txrx.txt and pkt.txt.

(3) The BCM TX API

The function bcm_tx replaces various versions of bcm_packet_send including:

bcm_packet_send_async,
bcm_packet_send_ipm_pbmp[_async],
bcm_packet_send_port[_async], and
bcm_packet_send_pbmp[_async].

These have been replaced by bcm_tx and two other functions to be described below.

The bcm_tx API call is simple:

```
int bcm_tx(int unit, bcm_pkt_t *pkt, void *cookie);
```

Most of the controlling information exists in the bcm_pkt_t structure, pkt, and so this structure must be carefully setup prior to the bcm_tx call.

(3.1) Allocating the bcm_pkt_t Structure

In order to call bcm_tx, a bcm_pkt_t structure is required.

This structure may be on the stack (declared at the beginning of the function definition). Alternatively you may implement a pool of TX packet structures to avoid run time allocation, especially if asynchronous callbacks are used (see below.) See $SDK/src/appl/cputrans/cputrans.c for an example of this. Another option is to call bcm_pkt_alloc; see below.

Once allocated the structure itself needs to be properly initialized. If the structure is on the stack, it should be zeroed out with a call like sal_memset(pkt, 0, sizeof(bcm_pkt_t));

Most importantly, the data must be linked into the buffer. See 3.2 below.

The most important data members of the structure include:

```
unit      - Physical unit on which the packet will go out.
cos       - Class of service/queue to associate packet to.
tx_pbmp   - Port bitmap on which to send packet.
tx_upbmp  - Untagged ports (subset of tx_pbmp).
flags     - Indicates which tags are present and CRC choices.
            Setting to BCM_TX_CRC_APPEND usually works.
pkt_data and blk_count
          - These control the data buffer which may exist in
            multiple segments. Porting from bcm_packet_send
            will not require direct manipulation of these.
```

(3.2) Packet Buffer Allocation and Setup

Usually, the same data buffer that was used in the bcm_packet_send routine can be used with bcm_tx. If the data was a standard tagged ethernet frame going out on FE or non-SL stacked GE ports, no changes are required to the data itself. Other cases are discussed below.

The packet data needs to be linked into the packet structure correctly. The easiest way to do this is with a call to the macro:

```
BCM_PKT_ONE_BUF_SETUP(pkt, data_buf, length);

pkt       - Pointer to the bcm_pkt_t structure.
data_buf  - Data buffer that will be transmitted.
length    - Number of bytes to be sent from data_buf.
```

Note that it may be easiest to do this step last.

The information in the data buffer should be a standard ethernet packet, usually tagged:

(destination MAC, source MAC, TPID, VLAN tag, ...)

If the packet will be sent out an XGS fabric chip, care must be taken to properly set up the HiGig header information. See (3.9) below for more details.

bcm_tx supports linking multiple data buffers together to form a single packet. See pkt.txt and txrx.txt for more information.

(3.3) Simultaneous Structure and Buffer Allocation

When both the packet structure and the data buffer need to be allocated, bcm_pkt_alloc may be called:

```
pkt_ptr = bcm_pkt_alloc(unit, bytes, flags);
```

The unit number may be BCM_UNIT_ANY in most systems. The parameter bytes should be large enough to hold the packet data and CRC (and HiGig header if being added manually).

These packets must be freed by calling

```
bcm_pkt_free(unit, pkt_ptr);
```

upon completion.

(3.4) Asynchronous Transmit Operations

Asynchronous operations (where the TX call returns immediately and a callback is made when the packet has been transmitted) are controlled by whether or not the pkt->call_back member is non-NULL.

If you were using a packet send "_async" call, set pkt->call_back to the callback function and pkt->cookie to the to desired data (passed to the callback). Otherwise, make certain pkt->call_back is set to NULL.

(3.5) Setting the Destination Ports

If bcm_packet_send_pbmp was being used, then the parameter pbm can be put into the packet with a call such as

```
BCM_PBMP_ASSIGN(pkt->tx_pbmp, pbm);
```

Similarly for the untagged bitmap.

If the packet was being sent to a specific port, try

```
BCM_PBMP_PORT_SET(pkt->tx_pbmp, port);
```

(3.6) CRC Settings

This is a simple matter of setting the packet flags properly.
Assuming the flags were initialized as desired (probably just to
0) do the following.

```
To append a CRC:     pkt->flags |= BCM_TX_CRC_APPEND;
To replace a CRC:    pkt->flags |= BCM_TX_CRC_REGEN;
```

(3.7) Initializing and Configuring the TX API.

The function bcm_tx_init is called by bcm_init and no further
initialization or configuration is required.

(3.8) The Fast Path Option

If:

A. The packet is setup correctly
B. No manipulations of the VLAN, SL or HiGig tags is required
C. the CRC is present in the packet (REGEN may be selected)
D. No padding of the packet is required

then the BCM_TX_FAST_PATH flag may be set in pkt->flags. This
bypasses various checks and reorganizations required to support
extra tags.

(3.9) Setting up the HiGig Header

There are three ways to set up the HiGig header for packets.

Note for 1 and 2, unless BCM_PKT_F_NO_VTAG is set in pkt->flags,
the code assumes a VLAN tag is present in the body of the packet.
This is important in calculating pointers into the packet
properly.

1. [Easiest]. Use the packet structure's members.

   A. Place the HiGig header information in the appropriate
      packet members such as pkt->opcode, pkt->dest_mod,
      pkt->dest_port, etc.

   B. Call bcm_pkt_hghdr_setup(pkt) before sending the packet.

   C. Call the macro BCM_PKT_HGHDR_REQUIRE(pkt) which sets the
      BCM_PKT_F_HGHDR flag.

2. Specify the header directly into pkt->_higig.

   A. Setup the header desired in the 12 byte array pkt->_higig.

   B. Call the macro BCM_PKT_HGHDR_REQUIRE(pkt) which sets the BCM_PKT_F_HGHDR flag.

3. Place the HiGig header at the beginning of the data buffer and use fast path. This by passes all other DMA setup processing of the data buffer (eg, for padding or CRC allocation). See (3.8), above.

   A. Setup the header desired in the data buffer.

   B. Set the BCM_TX_FAST_PATH flag in pkt->flags.

(3.10) Transmitting Multiple Packets

The function bcm_tx_list allows a linked list of packets to be transmitted. The packets are linked together using the packet structure member pkt->next.

The function bcm_tx_array takes a pointer to an array of packet structures, but otherwise operates like bcm_tx_list.

It is highly recommended that per-packet callbacks NOT be used and asynchronous calls be done by passing a single callback to bcm_tx_list (or bcm_tx_array).

(4) The BCM RX API

The BCM PMUX (packet multiplexing) API has been replaced by the BCM RX API in SDK 5.0.0. The RX API uses the same packet structure as the TX API. In addition, it provides greater configurability.

(4.1) Comparison Between PMUX and RX

BCM RX follows the same general philosophy as BCM PMUX.

Similarities:

Both control the DMA interface between physical devices and the software using the SOC layer.

Applications register callbacks with a priority.

Callbacks are executed until one returns either "HANDLED" or "HANDLED_OWNED".

Both require buffer management (allocation/deallocation).

Both require configuration, initialization and "start" operations.

Differences:

RX allows registering in interrupt or non-interrupt mode; PMUX had a single switch for all callbacks.

PMUX required different registration for "info" functions and "non-info" functions. RX always uses the bcm_pkt_t structure to pass packet data and meta-data (such as receive port).

Rate settings for RX are per COS and allow burst settings and maximum queue length settings.

Rate limiting in RX is implemented by a standard token bucket mechanism.

RX provides provisioning of multiple receive channels.

RX may be integrated with TX more easily.

RX provides the option of maintaining a buffer pool.

Although packet buffers may be "stolen" by the application, the bcm_pkt_t structures are always owned by RX. Never deallocate a packet structure passed back from RX.

Packet buffers that are "stolen" by the application should only be deallocated by calling bcm_rx_free.

(4.2) Initializing and Configuring the RX API

Because of the greater configurability of the RX API, you may need to change the default configuration. RX is configured using the bcm_rx_cfg_t structure in include/bcm/rx.h.

If you only need to change a few parameters (say the global packets/second setting) it is easiest to "get" the current

settings and make updates before starting RX.

```
bcm_rx_cfg_t local_cfg;

bcm_rx_cfg_get(unit, &local_cfg);
local_cfg.global_pps = APP_RX_GLOBAL_PPS;
bcm_rx_start(unit, &local_cfg);
```

Alternatively, declare and complete a bcm_rx_cfg_t structure as required. See src/appl/diag/rxmon.c for an example of this.

Note that each RX channel is configured independently with a bcm_rx_chan_cfg_t structure. It is imporant that all COS values be associated with some active channel.

COS bits are "positive", so the bit must be set for channel to accept that COS. Typically 0xff is used as the cos_bmp. However, if multiple channels are used, a given COS must only be accepted by a single channel.

(4.3) Changes to Callback Functions

First, the callback prototype must be changed to match bcm_rx_cb_f:

```
bcm_rx_t callback(int unit, bcm_pkt_t *pkt, void *cookie);
```

To access the packet data, use BCM_PKT_IEEE(pkt) or BCM_PKT_DMAC(pkt) (see (4.6) below).

The callback must now return one of:

```
BCM_RX_NOT_HANDLED     - Continue callbacks
BCM_RX_HANDLED         - Discontinue callbacks
BCM_RX_HANDLED_OWNED   - Discontinue callbacks and mark packet
                         buffer as stolen.
```

If the callback returns HANDLED_OWNED, it is responsible for later calling bcm_rx_free on the packet buffer. If the RX Pool code is being used (see (4.7) below) the call to bcm_rx_free may be done with the data pointer or with pkt->alloc_ptr. Other restrictions may apply if the application sets up a different allocation/free mechanism.

Note that the bcm_pkt_t structure (pkt) may not be "stolen"; only the data buffer it points to is controlled when HANDLED_OWNED is returned.

For PMUX, the callback function parameters provided information about the packet. Now that information is included in the bcm_pkt_t structure. These data members of bcm_pkt_t include:

PMUX	RX	DESCRIPTION
unit	pkt->rx_unit	The BCM unit number from which the packet was delivered to the CPU.
source_port	pkt->rx_port	The physical port on which the packet arrived on rx_unit.
reason	pkt->rx_reason	The reason code (from the SOC layer) that the packet was sent to the CPU.
packet_length	pkt->pkt_len	The length of the packet data returned.

In addition, for XGS, the packet structure contains other important information which was not available to PMUX.

pkt->rx_cpu_cos - The COS queue in which the packet arrived
pkt->opcode - The module header opcode of the packet.
pkt->src_mod - The source module ID on which the packet originally ingressed into the system.
pkt->src_port - The source port on src_mod on which the packet originally ingressed into the system.
pkt->dest_mod - The destination module ID determined at ingress.
pkt->dest_port - The destination port for dest_mod determined at ingress.

(4.4) Registering To Receive Packets

Like PMUX, applications register a callback, a cookie and a priority. Priorities are between 0 and 255, with 255 being the highest priority.

In addition, flags may be specified to indicate whether the callback should be made in interrupt mode and for which COS the callback should be made. It is strongly suggested that application callbacks do not register in interrupt mode.

The COS bits in the flags are "positive", so the bit must be set for the callback to be made for that COS. If no COS is specified, a warning will be printed if enabled.

(4.5) Interrupt vs Non-interrupt Context

If BCM_RCO_F_INTR is set in the flags on a call to bcm_rx_register, then the callback will be made in interrupt context. As noted, this is not recommended. Callbacks occurring in interrupt context must use a minimum of execution time, must not take a mutex or semaphor and should not attempt to do I/O.

Usually, a callback will register for non-interrupt context. RX maintains a thread to provide this context and users of a debugger or examing the vxWorks task list will see this thread as bcmRX. Although not in interrupt context, this thread should not be unduly blocked. Complex operations should steal and enqueue the packet and operate in their own context.

(4.6) Received Packet Formats

As mentioned, RX provides a bcm_pkt_t structure on callback. This structure contains a pointer to the data buffer which can be accessed through the macro BCM_PKT_IEEE(pkt) or BCM_PKT_DMAC(pkt) which return a (uint8 *) pointer to the first byte of the packet.

The packet is in standard tagged ethernet format.

Note: some chips may support alternative tagging formats. Currently RX is not aware of these formats and will only handle a single VLAN tag.

Unless otherwise configured, HiGig headers will have been parsed into packet members (such as pkt->opcode) and removed from the data buffer.

(4.7) The RX Pool Option

In src/bcm/esw/rx_pool.c is code to manage a buffer pool. By default, this is the pool used by RX and provides the buffers returned by bcm_rx_alloc. To use an alternative allocation and free manager, change the rx_alloc and rx_free pointers in the bcm_rx_cfg structure before calling bcm_rx_start.

The pool may be configured by calling bcm_rx_pool_setup before calling bcm_rx_start. Here, the packet size and number of packets in the pool may be specified.

(5) Some Examples

The receive packet test in firmware/orion/src/test/rpacket.c was
ported to use the TX and RX APIs. The new code is in
sdk/src/appl/test/rpacket.c

Similarly, the traffic test in src/appl/test/traffic.c was ported
to the TX API. The code is in the same directories in traffic.c.

The packet watcher code in src/appl/diag/pcktwatch.c contained
implementations of both PMUX and RX in SDK 4.2.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/txrx_port.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: evlog.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	evlog.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/evlog.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_cell.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_lif_ing_vlan_edit.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/PPD/ppd_api_lif_ing_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
/*! \file port_pp.h
* $Id$
*
* Internal DNX Port APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/port/port_tpid.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_common.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_common.c
* Purpose:    Common XGS board programming functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_common.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mm.h,v 1.3 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/mm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mmi_cmn.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/mmi_cmn.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*
*****************************************************************************************
*
*                                                                                       *
*  Revision      :  *
*                                                                                       *
*  Description   :  Read/Write macros to Merlin16 IP's uC RAM's User variables          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*
*****************************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/merlin16/tier1/public/merlin16_api_uc_vars_rdwr_defns_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_mymac.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_mymac.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_mymac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwPrtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwPrtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwPrtEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTableAddr.c,v 1.4 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableAddr.c
No license file was found, but licenses were detected in source scan.

/*
* Table that encodes the srom formats for PCI/PCIe NICs.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom_tbl.h,v 1.2 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmsrom_tbl.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmdebug.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmdebug.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_fe1600_fabric_flow_control.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC FLOW CONTROL
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_fid_demo.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_fid_demo.c
* Purpose: Example for utilizing the field APIs.
*
* You can modify the script to do the setup and tear down for various qualifiers and actions.
* The example illustrates how to install a rule to drop only Ethernet packets only if they fit
* a specific MAC source address and a specific EtherType.
*
* CINT usage:
*  Create a bcm_field_group_t, then invoke field_api_setup(unit, prio, &group).
*  Perform any frame testing desired.
*  Invoke field_api_teardown(unit, group).
*
*  Modify field_api_setup to fit your needs, or perhaps clone it several times
*  for a number of different groups (but ensure that only one does the call to bcm_field_init).
*  You can put more than one entry in each group, so each clone can set up several entries.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fid_demo.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc
```

```
echo "there are 917 more memories to test.";echo "tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max
ITERations=1";tr 52 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 52 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min
IE=max ITERations=1";tr 52 M=ARB_ANC_OP_WITH_CELL_DISABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 915 more memories to test.";echo "tr 52 M=BCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=BCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
#echo "there are 914 more memories to test.";echo "tr 52 M=CLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 52 M=CLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 52 M=PORT_COS_MAP IS=min IE=max ITERations=1";tr
52 M=PORT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 52 M=COS_MAP_SEL IS=min IE=max ITERations=1";tr 52
M=COS_MAP_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 911 more memories to test.";echo "tr 52 M=CPU_COS_MAP IS=min IE=max ITERations=1";tr 52
M=CPU_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 910 more memories to test.";echo "tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=CPU_COS_MAP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 909 more memories to test.";echo "tr 52 M=CPU_COS_MAP_ONLY IS=min IE=max
ITERations=1";tr 52 M=CPU_COS_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 908 more memories to test.";echo "tr 52 M=CPU_PBM IS=min IE=0 ITERations=1";tr 52
M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 907 more memories to test.";echo "tr 52 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 52
M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 906 more memories to test.";echo "tr 52 M=CPU_TS_MAP IS=min IE=max ITERations=1";tr 52
M=CPU_TS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 905 more memories to test.";echo "tr 52 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max
ITERations=1";tr 52 M=CXXPORT_WC_UCMEM_DATA0 IS=min IE=max ITERations=1;echo "done";
#echo "there are 904 more memories to test.";echo "tr 52 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max
ITERations=1";tr 52 M=CXXPORT_WC_UCMEM_DATA1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 903 more memories to test.";echo "tr 52 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max
ITERations=1";tr 52 M=CXXPORT_WC_UCMEM_DATA2 IS=min IE=max ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 52 M=DEST_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 52 M=DEST_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 901 more memories to test.";echo "tr 52 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 52 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 900 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=max
ITERations=1;echo "done";
echo "there are 898 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_CONTROL IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 897 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 52 M=DLB_HGT_GROUP_STATS IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_GROUP_STATS IS=min IE=max ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 52 M=DLB_HGT_HIST_LOAD IS=min IE=max
```

```
ITERations=1";tr 52 M=DLB_HGT_HIST_LOAD IS=min IE=max ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 52 M=DLB_HGT_INST_LOAD IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_INST_LOAD IS=min IE=max ITERations=1;echo "done";
echo "there are 893 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 892 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_STATUS IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_MEMBER_STATUS IS=min IE=max ITERations=1;echo "done";
#echo "there are 891 more memories to test.";echo "tr 52 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0
ITERations=1";tr 52 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0 ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=max ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 52 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=max
ITERations=1;echo "done";
echo "there are 888 more memories to test.";echo "tr 52 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_QUALITY_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 886 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_QUALITY_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 52 M=DLB_HGT_QUALITY_RESULT IS=min IE=max
ITERations=1";tr 52 M=DLB_HGT_QUALITY_RESULT IS=min IE=max ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 52 M=DLB_HGT_RR_SELECTION_POINTER IS=min
IE=max ITERations=1";tr 52 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=max ITERations=1;echo
"done";
#echo "there are 883 more memories to test.";echo "tr 52 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPMOD_CPU_DMA_HDR IS=min IE=0 ITERations=1;echo "done";
#echo "there are 882 more memories to test.";echo "tr 52 M=DOP_EFPPARS_OUTBUS_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPPARS_OUTBUS_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 881 more memories to test.";echo "tr 52 M=DOP_EFPPARS_OUTBUS_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPPARS_OUTBUS_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 880 more memories to test.";echo "tr 52 M=DOP_EFPPARS_OUTBUS_2 IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPPARS_OUTBUS_2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 879 more memories to test.";echo "tr 52 M=DOP_EFPPARS_OUTBUS_3 IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPPARS_OUTBUS_3 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 878 more memories to test.";echo "tr 52 M=DOP_EFPPARS_OUTBUS_4 IS=min IE=0
ITERations=1";tr 52 M=DOP_EFPPARS_OUTBUS_4 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 877 more memories to test.";echo "tr 52 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min
IE=0 ITERations=1";tr 52 M=DOP_EFP_ALL_SLICE_POLICY_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 876 more memories to test.";echo "tr 52 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min
IE=0 ITERations=1";tr 52 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 875 more memories to test.";echo "tr 52 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min
IE=0 ITERations=1";tr 52 M=DOP_EGR_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 874 more memories to test.";echo "tr 52 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_EGR_VLAN_XLATE_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 873 more memories to test.";echo "tr 52 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=0
```

```
ITERations=1";tr 52 M=DOP_EGR_VLAN_XLATE_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 872 more memories to test.";echo "tr 52
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1";tr 52
M=DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 871 more memories to test.";echo "tr 52 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=0 ITERations=1";tr 52 M=DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 870 more memories to test.";echo "tr 52 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0
IS=min IE=0 ITERations=1";tr 52 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 869 more memories to test.";echo "tr 52 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1
IS=min IE=0 ITERations=1";tr 52 M=DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 868 more memories to test.";echo "tr 52 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min
IE=0 ITERations=1";tr 52 M=DOP_ENDPOINT_QUEUE_MAP_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 867 more memories to test.";echo "tr 52 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min
IE=0 ITERations=1";tr 52 M=DOP_ENDPOINT_QUEUE_MAP_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 866 more memories to test.";echo "tr 52 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min IE=0
ITERations=1";tr 52 M=DOP_HG_TRUNK_MEMBER_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 865 more memories to test.";echo "tr 52 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min
IE=0 ITERations=1";tr 52 M=DOP_IFP_SLICE_POLICY_INDEX_TABLE IS=min IE=0 ITERations=1;echo
"done";
#echo "there are 864 more memories to test.";echo "tr 52 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0
IS=min IE=0 ITERations=1";tr 52 M=DOP_ING_DNAT_ADDRESS_HIT_INDEX_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 52 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_ING_DNAT_ADDRESS_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 862 more memories to test.";echo "tr 52
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1";tr 52
M=DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 861 more memories to test.";echo "tr 52 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0
IS=min IE=0 ITERations=1";tr 52 M=DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0 IS=min IE=0
ITERations=1;echo "done";
#echo "there are 860 more memories to test.";echo "tr 52 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE
IS=min IE=0 ITERations=1";tr 52 M=DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE IS=min IE=0
ITERations=1;echo "done";
#echo "there are 859 more memories to test.";echo "tr 52 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min
IE=0 ITERations=1";tr 52 M=DOP_IRSEL2_L3_ECMP_INDEX_TABLE IS=min IE=0 ITERations=1;echo
"done";
echo "there are 858 more memories to test.";echo "tr 52 M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max
ITERations=1";tr 52 M=DOP_ISW1_IN_BUS_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 857 more memories to test.";echo "tr 52 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max
ITERations=1";tr 52 M=DOP_ISW1_OUT_BUS_TABLE IS=min IE=max ITERations=1;echo "done";
#echo "there are 856 more memories to test.";echo "tr 52 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min IE=0
ITERations=1";tr 52 M=DOP_L2_ENDPOINT_ID_HIT_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 855 more memories to test.";echo "tr 52 M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=0
ITERations=1";tr 52 M=DOP_L2_ENDPOINT_ID_KEY IS=min IE=0 ITERations=1;echo "done";
#echo "there are 854 more memories to test.";echo "tr 52 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=0
```

```
ITERations=1";tr 52 M=DOP_L2_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 853 more memories to test.";echo "tr 52 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_L2_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 852 more memories to test.";echo "tr 52 M=DOP_L2_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_L2_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 851 more memories to test.";echo "tr 52 M=DOP_L2_ENTRY_KEY_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_L2_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 850 more memories to test.";echo "tr 52 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_L3_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 849 more memories to test.";echo "tr 52 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_L3_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 848 more memories to test.";echo "tr 52 M=DOP_L3_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_L3_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 847 more memories to test.";echo "tr 52 M=DOP_L3_ENTRY_KEY_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_L3_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 846 more memories to test.";echo "tr 52 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_MPLS_ENTRY_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 845 more memories to test.";echo "tr 52 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_MPLS_ENTRY_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 844 more memories to test.";echo "tr 52 M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_MPLS_ENTRY_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 843 more memories to test.";echo "tr 52 M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_MPLS_ENTRY_KEY_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 842 more memories to test.";echo "tr 52 M=DOP_RTAG7_HASH_KEY IS=min IE=0
ITERations=1";tr 52 M=DOP_RTAG7_HASH_KEY IS=min IE=0 ITERations=1;echo "done";
#echo "there are 841 more memories to test.";echo "tr 52 M=DOP_RTAG7_HASH_VALUE IS=min IE=0
ITERations=1";tr 52 M=DOP_RTAG7_HASH_VALUE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 840 more memories to test.";echo "tr 52 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=0
ITERations=1";tr 52 M=DOP_TRUNK_MEMBER_INDEX IS=min IE=0 ITERations=1;echo "done";
#echo "there are 839 more memories to test.";echo "tr 52 M=DOP_UDF_TCAM IS=min IE=0 ITERations=1";tr 52
M=DOP_UDF_TCAM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 838 more memories to test.";echo "tr 52 M=DOP_VFP_HIT_STATUS IS=min IE=0
ITERations=1";tr 52 M=DOP_VFP_HIT_STATUS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 837 more memories to test.";echo "tr 52 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_VLAN_XLATE_HIT_INDEX_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 836 more memories to test.";echo "tr 52 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_VLAN_XLATE_HIT_INDEX_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 835 more memories to test.";echo "tr 52 M=DOP_VLAN_XLATE_KEY_0 IS=min IE=0
ITERations=1";tr 52 M=DOP_VLAN_XLATE_KEY_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 834 more memories to test.";echo "tr 52 M=DOP_VLAN_XLATE_KEY_1 IS=min IE=0
ITERations=1";tr 52 M=DOP_VLAN_XLATE_KEY_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 833 more memories to test.";echo "tr 52 M=DROP_VECTOR_MASK IS=min IE=max
ITERations=1";tr 52 M=DROP_VECTOR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 832 more memories to test.";echo "tr 52 M=DSCP_TABLE IS=min IE=max ITERations=1";tr 52
M=DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS IS=min IE=max ITERations=1";tr
52 M=E2E_HOL_STATUS IS=min IE=max ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 52 M=E2E_HOL_STATUS_1 IS=min IE=max
```

```
ITERations=1";tr 52 M=E2E_HOL_STATUS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 52 M=EFFECTIVE_PHB_SELECT IS=min IE=max
ITERations=1";tr 52 M=EFFECTIVE_PHB_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 828 more memories to test.";echo "tr 52 M=EFP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 827 more memories to test.";echo "tr 52 M=EFP_METER_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 52 M=EFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=EFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 52 M=EFP_TCAM IS=min IE=max ITERations=1";tr 52
M=EFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 52 M=EGR_1588_SA IS=min IE=max ITERations=1";tr 52
M=EGR_1588_SA IS=min IE=max ITERations=1;echo "done";
echo "there are 823 more memories to test.";echo "tr 52 M=EGR_COUNTER_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EGR_COUNTER_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 822 more memories to test.";echo "tr 52 M=EGR_DGPP_TO_NHI IS=min IE=max
ITERations=1";tr 52 M=EGR_DGPP_TO_NHI IS=min IE=max ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 52 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max
ITERations=1";tr 52 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 52 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1";tr
52 M=EGR_DSCP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=max
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE IS=min IE=max ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 52 M=EGR_EDB_XMIT_CTRL IS=min IE=max
ITERations=1";tr 52 M=EGR_EDB_XMIT_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 52 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max
ITERations=1";tr 52 M=EGR_EFFECTIVE_PHB_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 814 more memories to test.";echo "tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 813 more memories to test.";echo "tr 52 M=EGR_ENABLE IS=min IE=max ITERations=1";tr 52
M=EGR_ENABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min
IE=max ITERations=1";tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=max ITERations=1;echo
"done";
echo "there are 811 more memories to test.";echo "tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 810 more memories to test.";echo "tr 52 M=EGR_FCOE_CONTROL_1 IS=min IE=0
ITERations=1";tr 52 M=EGR_FCOE_CONTROL_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 809 more memories to test.";echo "tr 52 M=EGR_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 52 M=EGR_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 808 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 807 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
```

```
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 806 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 805 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 804 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 803 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 802 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 801 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=max ITERations=1";tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 800 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 799 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 798 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 797 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 796 more memories to test.";echo "tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 52 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max
ITERations=1";tr 52 M=EGR_FORCE_REGEN_CRC_DST IS=min IE=max ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 52 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max
ITERations=1";tr 52 M=EGR_FORCE_REGEN_CRC_SRC IS=min IE=max ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_FRAGMENT_ID_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=max
ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES IS=min IE=max ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=max ITERations=1";tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 790 more memories to test.";echo "tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max
ITERations=1";tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 52 M=EGR_ING_PORT IS=min IE=max ITERations=1";tr 52
M=EGR_ING_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 52 M=EGR_IPMC IS=min IE=max ITERations=1";tr 52
M=EGR_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 787 more memories to test.";echo "tr 52 M=EGR_IPMC_CFG2 IS=min IE=max ITERations=1";tr
```

```
52 M=EGR_IPMC_CFG2 IS=min IE=max ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1";tr
52 M=EGR_IP_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 785 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_TUNNEL_IPV6 IS=min IE=max ITERations=1;echo "done";
echo "there are 784 more memories to test.";echo "tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=max
ITERations=1";tr 52 M=EGR_IP_TUNNEL_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 783 more memories to test.";echo "tr 52 M=EGR_L3_INTF IS=min IE=max ITERations=1";tr 52
M=EGR_L3_INTF IS=min IE=max ITERations=1;echo "done";
echo "there are 782 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 781 more memories to test.";echo "tr 52 M=EGR_L3_NEXT_HOP_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_L3_NEXT_HOP_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 780 more memories to test.";echo "tr 52 M=EGR_LPORT_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_LPORT_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 779 more memories to test.";echo "tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_MACDA_OUI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 778 more memories to test.";echo "tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_MAC_DA_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 777 more memories to test.";echo "tr 52 M=EGR_MAP_MH IS=min IE=max ITERations=1";tr 52
M=EGR_MAP_MH IS=min IE=max ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 52 M=EGR_MASK IS=min IE=max ITERations=1";tr 52
M=EGR_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 775 more memories to test.";echo "tr 52 M=EGR_MASK_MODBASE IS=min IE=max
ITERations=1";tr 52 M=EGR_MASK_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 774 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 773 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 772 more memories to test.";echo "tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=max ITERations=1;echo "done";
#echo "there are 771 more memories to test.";echo "tr 52 M=EGR_MMU_CREDIT_LIMIT IS=min IE=max
ITERations=1";tr 52 M=EGR_MMU_CREDIT_LIMIT IS=min IE=max ITERations=1;echo "done";
echo "there are 770 more memories to test.";echo "tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 769 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 768 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 767 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_MAPPING_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 766 more memories to test.";echo "tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 765 more memories to test.";echo "tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=EGR_MPLS_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 764 more memories to test.";echo "tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=max ITERations=1";tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 763 more memories to test.";echo "tr 52 M=EGR_MTU IS=min IE=max ITERations=1";tr 52
M=EGR_MTU IS=min IE=max ITERations=1;echo "done";
#echo "there are 762 more memories to test.";echo "tr 52 M=EGR_MULTICAST_MAC_ADDR IS=min IE=0
ITERations=1";tr 52 M=EGR_MULTICAST_MAC_ADDR IS=min IE=0 ITERations=1;echo "done";
echo "there are 761 more memories to test.";echo "tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max
ITERations=1";tr 52 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=max ITERations=1;echo "done";
echo "there are 760 more memories to test.";echo "tr 52 M=EGR_NETWORK_PRUNE_CONTROL IS=min
IE=max ITERations=1";tr 52 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=max ITERations=1;echo
"done";
#echo "there are 759 more memories to test.";echo "tr 52 M=EGR_OLP_CONFIG_1 IS=min IE=0
ITERations=1";tr 52 M=EGR_OLP_CONFIG_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 758 more memories to test.";echo "tr 52 M=EGR_OLP_CONFIG_2 IS=min IE=0
ITERations=1";tr 52 M=EGR_OLP_CONFIG_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 757 more memories to test.";echo "tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=max
ITERations=1";tr 52 M=EGR_OLP_DGPP_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 52 M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_OLP_DGPP_CONFIG_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 755 more memories to test.";echo "tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min
IE=max ITERations=1";tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=max ITERations=1;echo
"done";
echo "there are 754 more memories to test.";echo "tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min
IE=max ITERations=1";tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 753 more memories to test.";echo "tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max
ITERations=1";tr 52 M=EGR_PERQ_XMT_COUNTERS IS=min IE=max ITERations=1;echo "done";
echo "there are 752 more memories to test.";echo "tr 52 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=max ITERations=1";tr 52 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=max ITERations=1;echo
"done";
echo "there are 751 more memories to test.";echo "tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=max ITERations=1";tr 52 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=max ITERations=1;echo
"done";
echo "there are 750 more memories to test.";echo "tr 52 M=EGR_PFC_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EGR_PFC_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 749 more memories to test.";echo "tr 52 M=EGR_PORT IS=min IE=max ITERations=1";tr 52
M=EGR_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 748 more memories to test.";echo "tr 52 M=EGR_PORT_1 IS=min IE=max ITERations=1";tr 52
M=EGR_PORT_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 747 more memories to test.";echo "tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=max
ITERations=1";tr 52 M=EGR_PORT_CREDIT_RESET IS=min IE=max ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 745 more memories to test.";echo "tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=max
ITERations=1";tr 52 M=EGR_PW_INIT_COUNTERS IS=min IE=max ITERations=1;echo "done";
#echo "there are 744 more memories to test.";echo "tr 52 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0
ITERations=1";tr 52 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 743 more memories to test.";echo "tr 52 M=EGR_SER_FIFO IS=min IE=max ITERations=1";tr 52
M=EGR_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 742 more memories to test.";echo "tr 52 M=EGR_SHAPING_CONTROL IS=min IE=max
```

```
ITERations=1";tr 52 M=EGR_SHAPING_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 740 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 739 more memories to test.";echo "tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0
ITERations=1";tr 52 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 738 more memories to test.";echo "tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=max ITERations=1";tr 52 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=max ITERations=1;echo
"done";
echo "there are 737 more memories to test.";echo "tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_TRILL_TREE_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 736 more memories to test.";echo "tr 52 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 52 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 735 more memories to test.";echo "tr 52 M=EGR_VFI IS=min IE=max ITERations=1";tr 52
M=EGR_VFI IS=min IE=max ITERations=1;echo "done";
echo "there are 734 more memories to test.";echo "tr 52 M=EGR_VFT_FIELDS_PROFILE IS=min IE=max
ITERations=1";tr 52 M=EGR_VFT_FIELDS_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 733 more memories to test.";echo "tr 52 M=EGR_VFT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_VFT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 52 M=EGR_VLAN IS=min IE=max ITERations=1";tr 52
M=EGR_VLAN IS=min IE=max ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_1 IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_2 IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 729 more memories to test.";echo "tr 52 M=EGR_VLAN_CONTROL_3 IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_CONTROL_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 52 M=EGR_VLAN_STG IS=min IE=max ITERations=1";tr
52 M=EGR_VLAN_STG IS=min IE=max ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 726 more memories to test.";echo "tr 52 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 724 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 723 more memories to test.";echo "tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=max
ITERations=1";tr 52 M=EGR_VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 722 more memories to test.";echo "tr 52 M=EGR_VPLAG_GROUP IS=min IE=max
ITERations=1";tr 52 M=EGR_VPLAG_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 52 M=EGR_VPLAG_MEMBER IS=min IE=max
ITERations=1";tr 52 M=EGR_VPLAG_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
```

```
IE=max ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 716 more memories to test.";echo "tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ITERations=1";tr 52 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 715 more memories to test.";echo "tr 52 M=EGR_VSAN_INTPRI_MAP IS=min IE=max
ITERations=1";tr 52 M=EGR_VSAN_INTPRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL1 IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 712 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL2 IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 711 more memories to test.";echo "tr 52 M=EMIRROR_CONTROL3 IS=min IE=max
ITERations=1";tr 52 M=EMIRROR_CONTROL3 IS=min IE=max ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 52 M=EM_MTP_INDEX IS=min IE=max ITERations=1";tr
52 M=EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 52 M=ENDPOINT_COS_MAP IS=min IE=max
ITERations=1";tr 52 M=ENDPOINT_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 52 M=ENDPOINT_QUEUE_MAP IS=min IE=max
ITERations=1";tr 52 M=ENDPOINT_QUEUE_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 707 more memories to test.";echo "tr 52 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 52
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 706 more memories to test.";echo "tr 52 M=EP_CTC_RES_TABLE IS=min IE=max
ITERations=1";tr 52 M=EP_CTC_RES_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 705 more memories to test.";echo "tr 52 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max
ITERations=1";tr 52 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 52 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max
ITERations=1";tr 52 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 703 more memories to test.";echo "tr 52 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 702 more memories to test.";echo "tr 52 M=EXT_TM_MANAGED_PORT IS=min IE=0
ITERations=1";tr 52 M=EXT_TM_MANAGED_PORT IS=min IE=0 ITERations=1;echo "done";
echo "there are 701 more memories to test.";echo "tr 52 M=FCOE_HOP_COUNT_FN IS=min IE=max
ITERations=1";tr 52 M=FCOE_HOP_COUNT_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 700 more memories to test.";echo "tr 52 M=FC_MAP_PROFILE IS=min IE=max ITERations=1";tr
52 M=FC_MAP_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 699 more memories to test.";echo "tr 52 M=FP_COUNTER_TABLE IS=min IE=max
ITERations=1";tr 52 M=FP_COUNTER_TABLE IS=min IE=max ITERations=1;echo "done";
#echo "there are 698 more memories to test.";echo "tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=max
ITERations=1";tr 52 M=FP_GLOBAL_MASK_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 697 more memories to test.";echo "tr 52 M=FP_GM_FIELDS IS=min IE=max ITERations=1";tr 52
```

```
M=FP_GM_FIELDS IS=min IE=max ITERations=1;echo "done";
echo "there are 696 more memories to test.";echo "tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 52 M=FP_HG_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 695 more memories to test.";echo "tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=max
ITERations=1";tr 52 M=FP_I2E_CLASSID_SELECT IS=min IE=max ITERations=1;echo "done";
echo "there are 694 more memories to test.";echo "tr 52 M=FP_METER_CONTROL IS=min IE=max
ITERations=1";tr 52 M=FP_METER_CONTROL IS=min IE=max ITERations=1;echo "done";
echo "there are 693 more memories to test.";echo "tr 52 M=FP_METER_TABLE IS=min IE=max ITERations=1";tr
52 M=FP_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 692 more memories to test.";echo "tr 52 M=FP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=FP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 691 more memories to test.";echo "tr 52 M=FP_PORT_FIELD_SEL IS=min IE=max
ITERations=1";tr 52 M=FP_PORT_FIELD_SEL IS=min IE=max ITERations=1;echo "done";
echo "there are 690 more memories to test.";echo "tr 52 M=FP_PORT_METER_MAP IS=min IE=max
ITERations=1";tr 52 M=FP_PORT_METER_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 52 M=FP_RANGE_CHECK IS=min IE=max
ITERations=1";tr 52 M=FP_RANGE_CHECK IS=min IE=max ITERations=1;echo "done";
#echo "there are 688 more memories to test.";echo "tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 52 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 687 more memories to test.";echo "tr 52 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 52
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 686 more memories to test.";echo "tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=max
ITERations=1";tr 52 M=FP_STORM_CONTROL_METERS IS=min IE=max ITERations=1;echo "done";
echo "there are 685 more memories to test.";echo "tr 52 M=FP_TCAM IS=min IE=max ITERations=1";tr 52
M=FP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 52 M=GTP_PORT_TABLE IS=min IE=max ITERations=1";tr
52 M=GTP_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 683 more memories to test.";echo "tr 52 M=HG_TRUNK_BITMAP IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 682 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 681 more memories to test.";echo "tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 680 more memories to test.";echo "tr 52 M=HG_TRUNK_GROUP IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 679 more memories to test.";echo "tr 52 M=HG_TRUNK_MEMBER IS=min IE=max
ITERations=1";tr 52 M=HG_TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
#echo "there are 678 more memories to test.";echo "tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 52 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 677 more memories to test.";echo "tr 52 M=IARB_ING_PORT_TABLE IS=min IE=max
ITERations=1";tr 52 M=IARB_ING_PORT_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 676 more memories to test.";echo "tr 52 M=IARB_MAIN_TDM IS=min IE=max ITERations=1";tr
52 M=IARB_MAIN_TDM IS=min IE=max ITERations=1;echo "done";
echo "there are 675 more memories to test.";echo "tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=max
ITERations=1";tr 52 M=ICONTROL_OPCODE_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 673 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max
```

```
ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 672 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 671 more memories to test.";echo "tr 52 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM0_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 670 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 669 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 668 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 667 more memories to test.";echo "tr 52 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 666 more memories to test.";echo "tr 52 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 665 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 664 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 663 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 662 more memories to test.";echo "tr 52 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM0_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 661 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 660 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 659 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 658 more memories to test.";echo "tr 52 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM1_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 657 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 656 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 655 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 654 more memories to test.";echo "tr 52 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 653 more memories to test.";echo "tr 52 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 652 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 651 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 650 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=0
```

```
ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 649 more memories to test.";echo "tr 52 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM1_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 648 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 647 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 646 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 645 more memories to test.";echo "tr 52 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM2_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 644 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 643 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 642 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 641 more memories to test.";echo "tr 52 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 640 more memories to test.";echo "tr 52 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 639 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 638 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 637 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 636 more memories to test.";echo "tr 52 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM2_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 52 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM3_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 631 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 630 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 629 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 628 more memories to test.";echo "tr 52 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 627 more memories to test.";echo "tr 52 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS IS=min IE=max
```

```
ITERations=1;echo "done";
#echo "there are 626 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 625 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 624 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 623 more memories to test.";echo "tr 52 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM3_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 52 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM4_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 616 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 615 more memories to test.";echo "tr 52 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 52 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 613 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 612 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 611 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 610 more memories to test.";echo "tr 52 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM4_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 609 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 52 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM5_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 605 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 604 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
```

```
#echo "there are 603 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 602 more memories to test.";echo "tr 52 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 52 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 600 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 599 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 598 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 597 more memories to test.";echo "tr 52 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM5_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 52 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM6_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 592 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 591 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 590 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 589 more memories to test.";echo "tr 52 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 588 more memories to test.";echo "tr 52 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 587 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 586 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 585 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 584 more memories to test.";echo "tr 52 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM6_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 583 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 582 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 580 more memories to test.";echo "tr 52 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM7_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 579 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 578 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 577 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 576 more memories to test.";echo "tr 52 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 52 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 574 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 573 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 572 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 571 more memories to test.";echo "tr 52 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM7_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT0 IS=min IE=max ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT1 IS=min IE=max ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT2 IS=min IE=max ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 52 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max
ITERations=1";tr 52 M=IDB_OBM8_DSCP_MAP_PORT3 IS=min IE=max ITERations=1;echo "done";
#echo "there are 566 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 565 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 564 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 563 more memories to test.";echo "tr 52 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_ETAG_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
echo "there are 562 more memories to test.";echo "tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS
IS=min IE=max ITERations=1";tr 52 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS IS=min IE=max
ITERations=1;echo "done";
#echo "there are 561 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 560 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 559 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 558 more memories to test.";echo "tr 52 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=0
ITERations=1";tr 52 M=IDB_OBM8_PRI_MAP_PORT3 IS=min IE=0 ITERations=1;echo "done";
```

```
echo "there are 557 more memories to test.";echo "tr 52 M=IFP_COS_MAP IS=min IE=max ITERations=1";tr 52
M=IFP_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 556 more memories to test.";echo "tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=max
ITERations=1";tr 52 M=IFP_REDIRECTION_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 555 more memories to test.";echo "tr 52 M=IMIRROR_BITMAP IS=min IE=max ITERations=1";tr
52 M=IMIRROR_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 52 M=IM_MTP_INDEX IS=min IE=max ITERations=1";tr 52
M=IM_MTP_INDEX IS=min IE=max ITERations=1;echo "done";
echo "there are 553 more memories to test.";echo "tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=max
ITERations=1";tr 52 M=ING_1588_INGRESS_CTRL IS=min IE=max ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max
ITERations=1";tr 52 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
#echo "there are 551 more memories to test.";echo "tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=0
ITERations=1";tr 52 M=ING_DEST_PORT_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 550 more memories to test.";echo "tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max
ITERations=1";tr 52 M=ING_DNAT_ADDRESS_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 52 M=ING_DVP_2_TABLE IS=min IE=max
ITERations=1";tr 52 M=ING_DVP_2_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 52 M=ING_DVP_TABLE IS=min IE=max ITERations=1";tr
52 M=ING_DVP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 547 more memories to test.";echo "tr 52 M=ING_EGRMSKBMAP IS=min IE=max
ITERations=1";tr 52 M=ING_EGRMSKBMAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 546 more memories to test.";echo "tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 52 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_ETAG_PCP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 52 M=ING_FC_HEADER_TYPE IS=min IE=max
ITERations=1";tr 52 M=ING_FC_HEADER_TYPE IS=min IE=max ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 542 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 541 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 540 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=max ITERations=1;echo
"done";
echo "there are 539 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=max ITERations=1;echo
"done";
echo "there are 538 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=max ITERations=1;echo
"done";
echo "there are 537 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 536 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=max ITERations=1";tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=max ITERations=1;echo
"done";
echo "there are 535 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_FLEX_CTR_TOS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=max ITERations=1";tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=max
ITERations=1;echo "done";
#echo "there are 521 more memories to test.";echo "tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=0 ITERations=1";tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=0 ITERations=1;echo "done";
echo "there are 520 more memories to test.";echo "tr 52 M=ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 52 M=ING_MOD_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=ING_MOD_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 518 more memories to test.";echo "tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_MPLS_EXP_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 517 more memories to test.";echo "tr 52 M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max
ITERations=1";tr 52 M=ING_MPLS_EXP_MAPPING_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 52 M=ING_NETWORK_PRUNE_CONTROL IS=min
IE=max ITERations=1";tr 52 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=max ITERations=1;echo
"done";
echo "there are 515 more memories to test.";echo "tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=max ITERations=1";tr 52 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=max ITERations=1;echo
```

```
"done";
echo "there are 514 more memories to test.";echo "tr 52
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max ITERations=1";tr
52 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 52 M=ING_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=max
ITERations=1";tr 52 M=ING_PW_TERM_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
#echo "there are 510 more memories to test.";echo "tr 52 M=ING_SER_FIFO IS=min IE=max ITERations=1";tr 52
M=ING_SER_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 509 more memories to test.";echo "tr 52 M=ING_SNAT IS=min IE=max ITERations=1";tr 52
M=ING_SNAT IS=min IE=max ITERations=1;echo "done";
echo "there are 508 more memories to test.";echo "tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=ING_SNAT_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=ING_SNAT_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 52 M=ING_SNAT_ONLY IS=min IE=max ITERations=1";tr
52 M=ING_SNAT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 52 M=ING_SVM_PKT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_SVM_PKT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 52 M=ING_SVM_PKT_RES_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_SVM_PKT_RES_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 52 M=ING_SVM_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_SVM_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 52 M=ING_SVM_PRI_CNG_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_SVM_PRI_CNG_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 52 M=ING_SVM_TOS_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_SVM_TOS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 500 more memories to test.";echo "tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 52 M=ING_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 499 more memories to test.";echo "tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=0 ITERations=1";tr 52 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=0
ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 52 M=ING_UNTAGGED_PHB IS=min IE=max
ITERations=1";tr 52 M=ING_UNTAGGED_PHB IS=min IE=max ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 52 M=ING_VFT_PRI_MAP IS=min IE=max
ITERations=1";tr 52 M=ING_VFT_PRI_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 52 M=ING_VLAN_RANGE IS=min IE=max
ITERations=1";tr 52 M=ING_VLAN_RANGE IS=min IE=max ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=max ITERations=1";tr 52 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=max ITERations=1;echo
"done";
echo "there are 494 more memories to test.";echo "tr 52 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max
ITERations=1";tr 52 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max
```

```
ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=max ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=max ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=max ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 490 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=max ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=max
ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=max ITERations=1";tr 52 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=max
ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 52 M=ING_VSAN IS=min IE=max ITERations=1";tr 52
M=ING_VSAN IS=min IE=max ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max
ITERations=1";tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1";tr
52 M=INITIAL_L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=max
ITERations=1";tr 52 M=INITIAL_L3_ECMP_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE
IS=min IE=max ITERations=1";tr 52 M=INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=max
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 52 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max
ITERations=1";tr 52 M=INITIAL_PROT_OFFSET_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=max ITERations=1";tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 479 more memories to test.";echo "tr 52 M=IP_MULTICAST_TCAM IS=min IE=max
ITERations=1";tr 52 M=IP_MULTICAST_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 52 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 477 more memories to test.";echo "tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 52 M=L2MC IS=min IE=max ITERations=1";tr 52 M=L2MC
IS=min IE=max ITERations=1;echo "done";
#echo "there are 475 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 474 more memories to test.";echo "tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
#echo "there are 473 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
```

```
#echo "there are 472 more memories to test.";echo "tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 52 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 52 M=L2_ENDPOINT_ID IS=min IE=max ITERations=1";tr
52 M=L2_ENDPOINT_ID IS=min IE=max ITERations=1;echo "done";
echo "there are 470 more memories to test.";echo "tr 52 M=L2X IS=min IE=max ITERations=1";tr 52 M=L2X
IS=min IE=max ITERations=1;echo "done";
#echo "there are 469 more memories to test.";echo "tr 52 M=L2_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 52 M=L2_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
#echo "there are 468 more memories to test.";echo "tr 52 M=L2_ENTRY_LP IS=min IE=max ITERations=1";tr 52
M=L2_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY IS=min IE=max ITERations=1";tr
52 M=L2_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 52 M=L2_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 52 M=L2_HITDA_ONLY IS=min IE=max ITERations=1";tr
52 M=L2_HITDA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 52 M=L2_HITSA_ONLY IS=min IE=max ITERations=1";tr
52 M=L2_HITSA_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 463 more memories to test.";echo "tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=0
ITERations=1";tr 52 M=L2_LEARN_INSERT_FAILURE IS=min IE=0 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 52 M=L2_MOD_FIFO IS=min IE=max ITERations=1";tr 52
M=L2_MOD_FIFO IS=min IE=max ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 52 M=L2_USER_ENTRY IS=min IE=max ITERations=1";tr
52 M=L2_USER_ENTRY IS=min IE=max ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 459 more memories to test.";echo "tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max
ITERations=1";tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 52 M=L3_DEFIP IS=min IE=max ITERations=1";tr 52
M=L3_DEFIP IS=min IE=max ITERations=1;echo "done";
#echo "there are 457 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_ECC IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_ECC IS=min IE=max ITERations=1;echo "done";
#echo "there are 456 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
#echo "there are 455 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4 IS=min IE=max ITERations=1;echo "done";
#echo "there are 454 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 453 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=max ITERations=1;echo "done";
#echo "there are 452 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=max ITERations=1;echo "done";
#echo "there are 451 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 450 more memories to test.";echo "tr 52 M=L3_DEFIP_ALPM_RAW IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_ALPM_RAW IS=min IE=max ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 448 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0
ITERations=1";tr 52 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_AUX_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 52 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1";tr
52 M=L3_DEFIP_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128 IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128 IS=min IE=max ITERations=1;echo "done";
echo "there are 442 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 441 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 52 M=L3_ECMP IS=min IE=max ITERations=1";tr 52
M=L3_ECMP IS=min IE=max ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 52 M=L3_ECMP_COUNT IS=min IE=max ITERations=1";tr
52 M=L3_ECMP_COUNT IS=min IE=max ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITERations=1;echo "done";
#echo "there are 432 more memories to test.";echo "tr 52 M=L3_ENTRY_ISS_LP IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_ISS_LP IS=min IE=max ITERations=1;echo "done";
#echo "there are 431 more memories to test.";echo "tr 52 M=L3_ENTRY_LP IS=min IE=max ITERations=1";tr 52
M=L3_ENTRY_LP IS=min IE=max ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1";tr
52 M=L3_ENTRY_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=max
ITERations=1";tr 52 M=L3_ENTRY_ONLY_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 52 M=L3_IIF IS=min IE=max ITERations=1";tr 52 M=L3_IIF
IS=min IE=max ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 52 M=L3_IIF_PROFILE IS=min IE=max ITERations=1";tr 52
M=L3_IIF_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 52 M=L3_IPMC IS=min IE=max ITERations=1";tr 52
M=L3_IPMC IS=min IE=max ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 52 M=L3_IPMC_1 IS=min IE=max ITERations=1";tr 52
M=L3_IPMC_1 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 424 more memories to test.";echo "tr 52 M=L3_IPMC_REMAP IS=min IE=max ITERations=1";tr
52 M=L3_IPMC_REMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 423 more memories to test.";echo "tr 52 M=L3_MTU_VALUES IS=min IE=max ITERations=1";tr
52 M=L3_MTU_VALUES IS=min IE=max ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 52 M=L3_TUNNEL IS=min IE=max ITERations=1";tr 52
M=L3_TUNNEL IS=min IE=max ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_TUNNEL_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 420 more memories to test.";echo "tr 52 M=L3_TUNNEL_ONLY IS=min IE=max
ITERations=1";tr 52 M=L3_TUNNEL_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 52 M=LLS_L0_CHILD_STATE1 IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 418 more memories to test.";echo "tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 417 more memories to test.";echo "tr 52 M=LLS_L0_CONFIG IS=min IE=max ITERations=1";tr 52
M=LLS_L0_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 52 M=LLS_L0_ERROR IS=min IE=max ITERations=1";tr 52
M=LLS_L0_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 52 M=LLS_L0_HEADS_TAILS_1 IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_HEADS_TAILS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 52 M=LLS_L0_HEADS_TAILS_2 IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_HEADS_TAILS_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 52 M=LLS_L0_MIN_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 52 M=LLS_L0_PARENT IS=min IE=max ITERations=1";tr
52 M=LLS_L0_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 52 M=LLS_L0_PARENT_STATE IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_PARENT_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 52 M=LLS_L0_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 52 M=LLS_L0_WERR_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L0_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 52 M=LLS_L0_XOFF IS=min IE=max ITERations=1";tr 52
M=LLS_L0_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 52 M=LLS_L1_ACT_MIN IS=min IE=max ITERations=1";tr
52 M=LLS_L1_ACT_MIN IS=min IE=max ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 52 M=LLS_L1_ACT_SHAPER IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_ACT_SHAPER IS=min IE=max ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 52 M=LLS_L1_ACT_XON IS=min IE=max ITERations=1";tr
52 M=LLS_L1_ACT_XON IS=min IE=max ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 52 M=LLS_L1_CHILD_STATE1 IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 402 more memories to test.";echo "tr 52 M=LLS_L1_CONFIG IS=min IE=max ITERations=1";tr 52
M=LLS_L1_CONFIG IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 401 more memories to test.";echo "tr 52 M=LLS_L1_ERROR IS=min IE=max ITERations=1";tr 52
M=LLS_L1_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 52 M=LLS_L1_HEADS_TAILS_1 IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_HEADS_TAILS_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 399 more memories to test.";echo "tr 52 M=LLS_L1_HEADS_TAILS_2 IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_HEADS_TAILS_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 52 M=LLS_L1_MC_XOFF IS=min IE=max ITERations=1";tr
52 M=LLS_L1_MC_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 52 M=LLS_L1_MIN_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 396 more memories to test.";echo "tr 52 M=LLS_L1_PARENT IS=min IE=max ITERations=1";tr
52 M=LLS_L1_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 52 M=LLS_L1_PARENT_STATE IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_PARENT_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 394 more memories to test.";echo "tr 52 M=LLS_L1_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 52 M=LLS_L1_WERR_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L1_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 52 M=LLS_L1_XOFF IS=min IE=max ITERations=1";tr 52
M=LLS_L1_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 391 more memories to test.";echo "tr 52 M=LLS_L2_ACT_ENQ IS=min IE=max ITERations=1";tr
52 M=LLS_L2_ACT_ENQ IS=min IE=max ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 52 M=LLS_L2_ACT_MIN IS=min IE=max ITERations=1";tr
52 M=LLS_L2_ACT_MIN IS=min IE=max ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 52 M=LLS_L2_ACT_SHAPER IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_ACT_SHAPER IS=min IE=max ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 52 M=LLS_L2_ACT_XON IS=min IE=max ITERations=1";tr
52 M=LLS_L2_ACT_XON IS=min IE=max ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 52 M=LLS_L2_CHILD_STATE1 IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_CHILD_STATE1 IS=min IE=max ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 385 more memories to test.";echo "tr 52 M=LLS_L2_ERROR IS=min IE=max ITERations=1";tr 52
M=LLS_L2_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 52 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 52 M=LLS_L2_MC_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 383 more memories to test.";echo "tr 52 M=LLS_L2_MC_XOFF IS=min IE=max ITERations=1";tr
52 M=LLS_L2_MC_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 382 more memories to test.";echo "tr 52 M=LLS_L2_MIN_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_MIN_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 52 M=LLS_L2_PARENT IS=min IE=max ITERations=1";tr
52 M=LLS_L2_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 52 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_SHAPER_STATE_MAX IS=min IE=max ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 52 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_SHAPER_STATE_MIN IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 378 more memories to test.";echo "tr 52 M=LLS_L2_WERR_NEXT IS=min IE=max
ITERations=1";tr 52 M=LLS_L2_WERR_NEXT IS=min IE=max ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 52 M=LLS_L2_XOFF IS=min IE=max ITERations=1";tr 52
M=LLS_L2_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 52 M=LLS_PORT_HEADS IS=min IE=max ITERations=1";tr
52 M=LLS_PORT_HEADS IS=min IE=max ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 52 M=LLS_PORT_SEQ_NUM IS=min IE=max
ITERations=1";tr 52 M=LLS_PORT_SEQ_NUM IS=min IE=max ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 52 M=LLS_PORT_TAILS IS=min IE=max ITERations=1";tr
52 M=LLS_PORT_TAILS IS=min IE=max ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 52 M=LLS_PORT_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 52 M=LLS_PORT_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 52 M=LLS_PORT_XOFF IS=min IE=max ITERations=1";tr
52 M=LLS_PORT_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 52 M=LLS_S1_CHILD_STATE IS=min IE=max
ITERations=1";tr 52 M=LLS_S1_CHILD_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 370 more memories to test.";echo "tr 52 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min
IE=max ITERations=1";tr 52 M=LLS_S1_CHILD_WEIGHT_CFG_CNT IS=min IE=max ITERations=1;echo
"done";
echo "there are 369 more memories to test.";echo "tr 52 M=LLS_S1_CONFIG IS=min IE=max ITERations=1";tr 52
M=LLS_S1_CONFIG IS=min IE=max ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 52 M=LLS_S1_ERROR IS=min IE=max ITERations=1";tr 52
M=LLS_S1_ERROR IS=min IE=max ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 52 M=LLS_S1_HEADS_TAILS IS=min IE=max
ITERations=1";tr 52 M=LLS_S1_HEADS_TAILS IS=min IE=max ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 52 M=LLS_S1_PARENT IS=min IE=max ITERations=1";tr
52 M=LLS_S1_PARENT IS=min IE=max ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 52 M=LLS_S1_PARENT_STATE IS=min IE=max
ITERations=1";tr 52 M=LLS_S1_PARENT_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 52 M=LLS_S1_WERR_MAX_SC IS=min IE=max
ITERations=1";tr 52 M=LLS_S1_WERR_MAX_SC IS=min IE=max ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 52 M=LLS_S1_XOFF IS=min IE=max ITERations=1";tr 52
M=LLS_S1_XOFF IS=min IE=max ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=max ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=max ITERations=1;echo
"done";
echo "there are 361 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=max ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=max
ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=max ITERations=1";tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=max
ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 52 M=LPORT_TAB IS=min IE=max ITERations=1";tr 52
M=LPORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 52 M=MAC_BLOCK IS=min IE=max ITERations=1";tr 52
M=MAC_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 52 M=MIRROR_CONTROL IS=min IE=max
ITERations=1";tr 52 M=MIRROR_CONTROL IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 355 more memories to test.";echo "tr 52 M=MMU_AGING_CTR IS=min IE=max ITERations=1";tr
52 M=MMU_AGING_CTR IS=min IE=max ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 52 M=MMU_AGING_EXP IS=min IE=max ITERations=1";tr
52 M=MMU_AGING_EXP IS=min IE=max ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 52 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 52 M=MMU_CBPData0 IS=min IE=max ITERations=1";tr 52
M=MMU_CBPData0 IS=min IE=max ITERations=1;echo "done";
echo "there are 351 more memories to test.";echo "tr 52 M=MMU_CBPData1 IS=min IE=max ITERations=1";tr 52
M=MMU_CBPData1 IS=min IE=max ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 52 M=MMU_CBPData2 IS=min IE=max ITERations=1";tr 52
M=MMU_CBPData2 IS=min IE=max ITERations=1;echo "done";
echo "there are 349 more memories to test.";echo "tr 52 M=MMU_CBPData3 IS=min IE=max ITERations=1";tr 52
M=MMU_CBPData3 IS=min IE=max ITERations=1;echo "done";
echo "there are 348 more memories to test.";echo "tr 52 M=MMU_CCP0_RESEQ_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CCP0_RESEQ_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 347 more memories to test.";echo "tr 52 M=MMU_CCP_MEM IS=min IE=max ITERations=1";tr
52 M=MMU_CCP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 52 M=MMU_CELL_LINK IS=min IE=max ITERations=1";tr
52 M=MMU_CELL_LINK IS=min IE=max ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 52 M=MMU_CFAPI0_BITMAP IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAPI0_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 52 M=MMU_CFAPI0_STACK IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAPI0_STACK IS=min IE=max ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 52 M=MMU_CFAPI1_BITMAP IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAPI1_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 52 M=MMU_CFAPI1_STACK IS=min IE=max
ITERations=1";tr 52 M=MMU_CFAPI1_STACK IS=min IE=max ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max
ITERations=1";tr 52 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 339 more memories to test.";echo "tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_ING_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 52 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=max ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 52 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=max
ITERations=1";tr 52 M=MMU_CTR_UC_DROP_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 52 M=MMU_ENQ_PBI_DB IS=min IE=max
ITERations=1";tr 52 M=MMU_ENQ_PBI_DB IS=min IE=max ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 52 M=MMU_EPRG_MEM IS=min IE=max ITERations=1";tr
52 M=MMU_EPRG_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 331 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=max ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=max ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_PFC_ST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 52 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=max ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 52 M=MMU_INTFI_S1_ST_TB IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_S1_ST_TB IS=min IE=max ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min
IE=max ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 322 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min
IE=max ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=max ITERations=1;echo
"done";
echo "there are 321 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min
IE=max ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=max ITERations=1;echo
"done";
echo "there are 320 more memories to test.";echo "tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFI_XPIPE_FC_MAP_TBS1 IS=min IE=max ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min
IE=max ITERations=1";tr 52 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=max ITERations=1;echo
"done";
echo "there are 318 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=max ITERations=1";tr 52 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=max ITERations=1;echo
"done";
echo "there are 317 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 52 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max
ITERations=1";tr 52 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=max ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 52 M=MMU_MAPPER_X_LSB IS=min IE=max
ITERations=1";tr 52 M=MMU_MAPPER_X_LSB IS=min IE=max ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 52 M=MMU_MAPPER_Y_LSB IS=min IE=max
ITERations=1";tr 52 M=MMU_MAPPER_Y_LSB IS=min IE=max ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 52 M=MMU_MCFP IS=min IE=max ITERations=1";tr 52
M=MMU_MCFP IS=min IE=max ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 52 M=MMU_MCQDB0 IS=min IE=max ITERations=1";tr 52
M=MMU_MCQDB0 IS=min IE=max ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 52 M=MMU_MCQDB1 IS=min IE=max ITERations=1";tr 52
```

```
M=MMU_MCQDB1 IS=min IE=max ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 52 M=MMU_MCQE IS=min IE=max ITERations=1";tr 52
M=MMU_MCQE IS=min IE=max ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 52 M=MMU_MCQN IS=min IE=max ITERations=1";tr 52
M=MMU_MCQN IS=min IE=max ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 304 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 303 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 300 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 298 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 297 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 52 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_BUCKET_L2_MEM_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=max ITERations=1";tr 52 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 52 M=MMU_MTRO_L0_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L0_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 52 M=MMU_MTRO_L1_MEM_1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L1_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_1 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_2 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_2 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 287 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_3 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_3 IS=min IE=max ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_4 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_4 IS=min IE=max ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_5 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_5 IS=min IE=max ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_6 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_6 IS=min IE=max ITERations=1;echo "done";
echo "there are 283 more memories to test.";echo "tr 52 M=MMU_MTRO_L2_MEM_7 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_L2_MEM_7 IS=min IE=max ITERations=1;echo "done";
echo "there are 282 more memories to test.";echo "tr 52 M=MMU_MTRO_S1_MEM_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_MTRO_S1_MEM_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 281 more memories to test.";echo "tr 52 M=MMU_PDB0 IS=min IE=max ITERations=1";tr 52
M=MMU_PDB0 IS=min IE=max ITERations=1;echo "done";
echo "there are 280 more memories to test.";echo "tr 52 M=MMU_PKTHDR IS=min IE=max ITERations=1";tr 52
M=MMU_PKTHDR IS=min IE=max ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 52 M=MMU_PKT_LINK IS=min IE=max ITERations=1";tr
52 M=MMU_PKT_LINK IS=min IE=max ITERations=1;echo "done";
echo "there are 278 more memories to test.";echo "tr 52 M=MMU_PORTCNT IS=min IE=max ITERations=1";tr 52
M=MMU_PORTCNT IS=min IE=max ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 52 M=MMU_PQE0_MEM IS=min IE=max ITERations=1";tr
52 M=MMU_PQE0_MEM IS=min IE=max ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 52 M=MMU_QCN_CNM_COUNTER IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_CNM_COUNTER IS=min IE=max ITERations=1;echo "done";
echo "there are 275 more memories to test.";echo "tr 52 M=MMU_QCN_CNM_QUEUE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_CNM_QUEUE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 52 M=MMU_QCN_CPQST_QLEN IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_CPQST_QLEN IS=min IE=max ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 52 M=MMU_QCN_CPQST_TSSLS IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_CPQST_TSSLS IS=min IE=max ITERations=1;echo "done";
echo "there are 272 more memories to test.";echo "tr 52 M=MMU_QCN_ENABLE_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_ENABLE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 52 M=MMU_QCN_QFBTB IS=min IE=max ITERations=1";tr
52 M=MMU_QCN_QFBTB IS=min IE=max ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 52 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max
ITERations=1";tr 52 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=max ITERations=1;echo "done";
echo "there are 269 more memories to test.";echo "tr 52 M=MMU_QCN_SITB IS=min IE=max ITERations=1";tr
52 M=MMU_QCN_SITB IS=min IE=max ITERations=1;echo "done";
echo "there are 268 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INFO0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_GROUP_INFO0 IS=min IE=max ITERations=1;echo "done";
echo "there are 267 more memories to test.";echo "tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=max ITERations=1";tr 52 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=max
ITERations=1;echo "done";
echo "there are 266 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 265 more memories to test.";echo "tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 264 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL IS=min IE=max
```

```
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL IS=min IE=max ITERations=1;echo "done";
echo "there are 263 more memories to test.";echo "tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 262 more memories to test.";echo "tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max
ITERations=1";tr 52 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=max ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 259 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=max ITERations=1;echo
"done";
echo "there are 258 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 257 more memories to test.";echo "tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=max ITERations=1;echo
"done";
echo "there are 256 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max
ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 254 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=max ITERations=1;echo
"done";
echo "there are 253 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 252 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=max ITERations=1;echo
"done";
echo "there are 251 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 250 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 249 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=max ITERations=1;echo
"done";
echo "there are 248 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=max ITERations=1;echo
"done";
echo "there are 247 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=max ITERations=1;echo
"done";
```

```
echo "there are 246 more memories to test.";echo "tr 52 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 245 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 244 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=max
ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 242 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 240 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 239 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=max
ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 235 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=max ITERations=1;echo
"done";
echo "there are 234 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=max
ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=max
ITERations=1;echo "done";
echo "there are 232 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=max
ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=max ITERations=1";tr 52 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=max
ITERations=1;echo "done";
```

```
echo "there are 230 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=max ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=max ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 226 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=max
ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 221 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 220 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 52 M=MMU_THDU_QGROUP_TICKET IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_QGROUP_TICKET IS=min IE=max ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 52 M=MMU_THDU_QUEUE_TICKET IS=min IE=max
ITERations=1";tr 52 M=MMU_THDU_QUEUE_TICKET IS=min IE=max ITERations=1;echo "done";
echo "there are 217 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=max ITERations=1;echo
"done";
echo "there are 216 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_PORT IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=max ITERations=1;echo
"done";
echo "there are 215 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=max ITERations=1;echo
"done";
echo "there are 214 more memories to test.";echo "tr 52 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=max ITERations=1";tr 52 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=max ITERations=1;echo
"done";
echo "there are 213 more memories to test.";echo "tr 52 M=MMU_UCQDB0 IS=min IE=max ITERations=1";tr 52
M=MMU_UCQDB0 IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 212 more memories to test.";echo "tr 52 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 52 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max
ITERations=1";tr 52 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 52 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=max ITERations=1";tr 52 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=max
ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 199 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=max ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max ITERations=1";tr 52
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=max ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 52 M=MODID_BASE_PTR IS=min IE=max ITERations=1";tr
52 M=MODID_BASE_PTR IS=min IE=max ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 52 M=MODPORT_MAP_M0 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 52 M=MODPORT_MAP_M1 IS=min IE=max
```

```
ITERations=1";tr 52 M=MODPORT_MAP_M1 IS=min IE=max ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 52 M=MODPORT_MAP_M2 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 52 M=MODPORT_MAP_M3 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_M3 IS=min IE=max ITERations=1;echo "done";
echo "there are 192 more memories to test.";echo "tr 52 M=MODPORT_MAP_MIRROR IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_MIRROR IS=min IE=max ITERations=1;echo "done";
echo "there are 191 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT IS=min IE=max ITERations=1;echo "done";
echo "there are 190 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=max ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=max ITERations=1;echo "done";
echo "there are 188 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=max ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=max ITERations=1;echo "done";
echo "there are 186 more memories to test.";echo "tr 52 M=MODPORT_MAP_SUBPORT_MIRROR IS=min
IE=max ITERations=1";tr 52 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=max ITERations=1;echo
"done";
echo "there are 185 more memories to test.";echo "tr 52 M=MODPORT_MAP_SW IS=min IE=max
ITERations=1";tr 52 M=MODPORT_MAP_SW IS=min IE=max ITERations=1;echo "done";
#echo "there are 184 more memories to test.";echo "tr 52 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0
ITERations=1";tr 52 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0 ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 52 M=MPLS_ENTRY IS=min IE=max ITERations=1";tr 52
M=MPLS_ENTRY IS=min IE=max ITERations=1;echo "done";
#echo "there are 182 more memories to test.";echo "tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 52 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 52 M=MY_STATION_TCAM IS=min IE=max
ITERations=1";tr 52 M=MY_STATION_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2 IS=min IE=max
ITERations=1";tr 52 M=MY_STATION_TCAM_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 179 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 178 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 177 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 176 more memories to test.";echo "tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=max ITERations=1";tr 52 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=max ITERations=1;echo
"done";
echo "there are 175 more memories to test.";echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=max ITERations=1";tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITERations=1;echo
"done";
echo "there are 174 more memories to test.";echo "tr 52 M=NUM_QCN_CNM_RECEIVED IS=min IE=max
```

```
ITERations=1";tr 52 M=NUM_QCN_CNM_RECEIVED IS=min IE=max ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 52 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max
ITERations=1";tr 52 M=OP_UC_QGROUP_DROP_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 52 M=OP_UC_QGROUP_MINOK IS=min IE=max
ITERations=1";tr 52 M=OP_UC_QGROUP_MINOK IS=min IE=max ITERations=1;echo "done";
echo "there are 171 more memories to test.";echo "tr 52 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max
ITERations=1";tr 52 M=OP_UC_QUEUE_DROP_STATE IS=min IE=max ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 52 M=OP_UC_QUEUE_MINOK IS=min IE=max
ITERations=1";tr 52 M=OP_UC_QUEUE_MINOK IS=min IE=max ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 52 M=PFS_PACKET_TYPE_OFFSET IS=min IE=max
ITERations=1";tr 52 M=PFS_PACKET_TYPE_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 52 M=PHB2_COS_MAP IS=min IE=max ITERations=1";tr 52
M=PHB2_COS_MAP IS=min IE=max ITERations=1;echo "done";
#echo "there are 167 more memories to test.";echo "tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 166 more memories to test.";echo "tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 52 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE IS=min IE=max ITERations=1";tr
52 M=PORT_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 164 more memories to test.";echo "tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=max
ITERations=1";tr 52 M=PORT_CBL_TABLE_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=max
ITERations=1";tr 52 M=PORT_LAG_FAILOVER_SET IS=min IE=max ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 52 M=PORT_TAB IS=min IE=max ITERations=1";tr 52
M=PORT_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 52 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=max ITERations=1";tr 52 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 160 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK0 IS=min IE=max ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=max
ITERations=1";tr 52 M=REPLICATION_FIFO_BANK1 IS=min IE=max ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 52 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1";tr
52 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1;echo "done";
echo "there are 157 more memories to test.";echo "tr 52 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=max ITERations=1";tr 52 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 52 M=RH_ECMP_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=RH_ECMP_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 52 M=RH_HGT_DROPS IS=min IE=max ITERations=1";tr
52 M=RH_HGT_DROPS IS=min IE=max ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 52 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ITERations=1";tr 52 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 52 M=RH_HGT_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=RH_HGT_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 52 M=RH_HGT_GROUP_CONTROL IS=min IE=max
ITERations=1";tr 52 M=RH_HGT_GROUP_CONTROL IS=min IE=max ITERations=1;echo "done";
```

```
#echo "there are 151 more memories to test.";echo "tr 52 M=RH_LAG_DROPS IS=min IE=0 ITERations=1";tr 52
M=RH_LAG_DROPS IS=min IE=0 ITERations=1;echo "done";
echo "there are 150 more memories to test.";echo "tr 52 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=max ITERations=1";tr 52 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=max
ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 52 M=RH_LAG_FLOWSET IS=min IE=max
ITERations=1";tr 52 M=RH_LAG_FLOWSET IS=min IE=max ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 52 M=RQE_FREE_LIST IS=min IE=max ITERations=1";tr 52
M=RQE_FREE_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 52 M=RQE_LINK_LIST IS=min IE=max ITERations=1";tr 52
M=RQE_LINK_LIST IS=min IE=max ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=max
ITERations=1";tr 52 M=RTAG7_FLOW_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=max
ITERations=1";tr 52 M=RTAG7_PORT_BASED_HASH IS=min IE=max ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=max
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max
ITERations=1";tr 52 M=RX_PROT_GROUP_TABLE_1 IS=min IE=max ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 52 M=SERVICE_COS_MAP IS=min IE=max
ITERations=1";tr 52 M=SERVICE_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 141 more memories to test.";echo "tr 52 M=SERVICE_PORT_MAP IS=min IE=max
ITERations=1";tr 52 M=SERVICE_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 140 more memories to test.";echo "tr 52 M=SERVICE_QUEUE_MAP IS=min IE=max
ITERations=1";tr 52 M=SERVICE_QUEUE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 139 more memories to test.";echo "tr 52 M=SER_ACC_TYPE_MAP IS=min IE=max
ITERations=1";tr 52 M=SER_ACC_TYPE_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 138 more memories to test.";echo "tr 52 M=SER_MEMORY IS=min IE=max ITERations=1";tr 52
M=SER_MEMORY IS=min IE=max ITERations=1;echo "done";
#echo "there are 137 more memories to test.";echo "tr 52 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 136 more memories to test.";echo "tr 52 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 52
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 135 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 134 more memories to test.";echo "tr 52 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 133 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 132 more memories to test.";echo "tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 52 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_MOD_PROXY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max
ITERations=1";tr 52 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=max ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 52 M=SOURCE_VP IS=min IE=max ITERations=1";tr 52
```

```
M=SOURCE_VP IS=min IE=max ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 52 M=SOURCE_VP_2 IS=min IE=max ITERations=1";tr 52
M=SOURCE_VP_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 52 M=SRC_MODID_EGRESS IS=min IE=max
ITERations=1";tr 52 M=SRC_MODID_EGRESS IS=min IE=max ITERations=1;echo "done";
echo "there are 125 more memories to test.";echo "tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max
ITERations=1";tr 52 M=SRC_MODID_INGRESS_BLOCK IS=min IE=max ITERations=1;echo "done";
echo "there are 124 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP IS=min IE=max
ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 123 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=max ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=max
ITERations=1;echo "done";
echo "there are 122 more memories to test.";echo "tr 52 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max
ITERations=1";tr 52 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 121 more memories to test.";echo "tr 52 M=SVM_MACROFLOW_INDEX_TABLE IS=min
IE=max ITERations=1";tr 52 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 120 more memories to test.";echo "tr 52 M=SVM_METER_COLOR_HIER_TRUTH_TABLE
IS=min IE=max ITERations=1";tr 52 M=SVM_METER_COLOR_HIER_TRUTH_TABLE IS=min IE=max
ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 52 M=SVM_METER_COLOR_TRUTH_TABLE IS=min
IE=max ITERations=1";tr 52 M=SVM_METER_COLOR_TRUTH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 118 more memories to test.";echo "tr 52
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max ITERations=1";tr 52
M=SVM_METER_HIER_COMMITTED_UPDATE_TRUTH_TABLE IS=min IE=max ITERations=1;echo
"done";
echo "there are 117 more memories to test.";echo "tr 52 M=SVM_METER_TABLE IS=min IE=max
ITERations=1";tr 52 M=SVM_METER_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 52 M=SVM_OFFSET_TABLE IS=min IE=max
ITERations=1";tr 52 M=SVM_OFFSET_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 52 M=SVM_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=SVM_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=max
ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=max ITERations=1";tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=max ITERations=1;echo
"done";
echo "there are 112 more memories to test.";echo "tr 52 M=TCP_FN IS=min IE=max ITERations=1";tr 52
M=TCP_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 52 M=THDI_PORT_PG_BST_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_BST_X IS=min IE=max ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=max ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=max ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 107 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=max ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 52 M=THDI_PORT_PG_CONFIG_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_PG_CONFIG_X IS=min IE=max ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 52 M=THDI_PORT_SP_BST_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_BST_X IS=min IE=max ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=max ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=max ITERations=1;echo "done";
echo "there are 102 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG0_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG0_X IS=min IE=max ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG1_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG1_X IS=min IE=max ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 52 M=THDI_PORT_SP_CONFIG_X IS=min IE=max
ITERations=1";tr 52 M=THDI_PORT_SP_CONFIG_X IS=min IE=max ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 52 M=TOS_FN IS=min IE=max ITERations=1";tr 52
M=TOS_FN IS=min IE=max ITERations=1;echo "done";
#echo "there are 98 more memories to test.";echo "tr 52 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1";tr
52 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 52 M=TRUNK_BITMAP IS=min IE=max ITERations=1";tr 52
M=TRUNK_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 52 M=TRUNK_CBL_TABLE IS=min IE=max
ITERations=1";tr 52 M=TRUNK_CBL_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 52 M=TRUNK_GROUP IS=min IE=max ITERations=1";tr 52
M=TRUNK_GROUP IS=min IE=max ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 52 M=TRUNK_MEMBER IS=min IE=max ITERations=1";tr
52 M=TRUNK_MEMBER IS=min IE=max ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 52 M=TTL_FN IS=min IE=max ITERations=1";tr 52
M=TTL_FN IS=min IE=max ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 52 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max
ITERations=1";tr 52 M=TX_PROT_GROUP_1_1_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 52 M=TX_PROT_GROUP_1_TABLE IS=min IE=max
ITERations=1";tr 52 M=TX_PROT_GROUP_1_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=max ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=max ITERations=1";tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=max
ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 52 M=FP_UDF_OFFSET IS=min IE=max ITERations=1";tr 52
M=FP_UDF_OFFSET IS=min IE=max ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 52 M=FP_UDF_TCAM IS=min IE=max ITERations=1";tr 52
M=FP_UDF_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=max
ITERations=1";tr 52 M=UNKNOWN_HGI_BITMAP IS=min IE=max ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 84 more memories to test.";echo "tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max
ITERations=1";tr 52 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=max ITERations=1;echo "done";
echo "there are 83 more memories to test.";echo "tr 52 M=VFI IS=min IE=max ITERations=1";tr 52 M=VFI
IS=min IE=max ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 52 M=VFI_1 IS=min IE=max ITERations=1";tr 52 M=VFI_1
IS=min IE=max ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 52 M=VFI_PROFILE IS=min IE=max ITERations=1";tr 52
M=VFI_PROFILE IS=min IE=max ITERations=1;echo "done";
echo "there are 80 more memories to test.";echo "tr 52 M=VFI_PROFILE_2 IS=min IE=max ITERations=1";tr 52
M=VFI_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 79 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min
IE=max ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=max ITERations=1;echo
"done";
echo "there are 78 more memories to test.";echo "tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min
IE=max ITERations=1";tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=max ITERations=1;echo
"done";
echo "there are 77 more memories to test.";echo "tr 52 M=VFP_POLICY_TABLE IS=min IE=max
ITERations=1";tr 52 M=VFP_POLICY_TABLE IS=min IE=max ITERations=1;echo "done";
echo "there are 76 more memories to test.";echo "tr 52 M=VFP_TCAM IS=min IE=max ITERations=1";tr 52
M=VFP_TCAM IS=min IE=max ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 52 M=VLAN_TAB IS=min IE=max ITERations=1";tr 52
M=VLAN_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 74 more memories to test.";echo "tr 52 M=VLAN_MAC IS=min IE=max ITERations=1";tr 52
M=VLAN_MAC IS=min IE=max ITERations=1;echo "done";
echo "there are 73 more memories to test.";echo "tr 52 M=VLAN_MPLS IS=min IE=max ITERations=1";tr 52
M=VLAN_MPLS IS=min IE=max ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 52 M=VLAN_PROFILE_TAB IS=min IE=max
ITERations=1";tr 52 M=VLAN_PROFILE_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 52 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1";tr
52 M=VLAN_PROFILE_2 IS=min IE=max ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL IS=min IE=max ITERations=1";tr
52 M=VLAN_PROTOCOL IS=min IE=max ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max
ITERations=1";tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max ITERations=1;echo "done";
echo "there are 68 more memories to test.";echo "tr 52 M=STG_TAB IS=min IE=max ITERations=1";tr 52
M=STG_TAB IS=min IE=max ITERations=1;echo "done";
echo "there are 67 more memories to test.";echo "tr 52 M=VLAN_SUBNET IS=min IE=max ITERations=1";tr 52
M=VLAN_SUBNET IS=min IE=max ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
ITERations=1";tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max
ITERations=1";tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 52 M=VLAN_XLATE IS=min IE=max ITERations=1";tr 52
M=VLAN_XLATE IS=min IE=max ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 52 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1";tr
52 M=VLAN_XLATE_ECC IS=min IE=max ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 52 M=VLAN_XLATE_LP IS=min IE=max ITERations=1";tr
52 M=VLAN_XLATE_LP IS=min IE=max ITERations=1;echo "done";
```

```
echo "there are 61 more memories to test.";echo "tr 52 M=VOQ_COS_MAP IS=min IE=max ITERations=1";tr 52
M=VOQ_COS_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 52 M=VOQ_MOD_MAP IS=min IE=max ITERations=1";tr 52
M=VOQ_MOD_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 52 M=VOQ_PORT_MAP IS=min IE=max ITERations=1";tr 52
M=VOQ_PORT_MAP IS=min IE=max ITERations=1;echo "done";
echo "there are 58 more memories to test.";echo "tr 52 M=VRF IS=min IE=max ITERations=1";tr 52 M=VRF
IS=min IE=max ITERations=1;echo "done";
#echo "there are 57 more memories to test.";echo "tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=max
ITERations=1";tr 52 M=XLPORT_WC_UCMEM_DATA IS=min IE=max ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 56 more memories to test.';echo 'tr 52 M=EARB_FLEX_OPCODE IS=min IE=max
ITERations=1';tr 52 M=EARB_FLEX_OPCODE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 55 more memories to test.';echo 'tr 52 M=EDB_1DBG_B IS=min IE=max ITERations=1';tr 52
M=EDB_1DBG_B IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 54 more memories to test.';echo 'tr 52 M=EINITBUF_PACKET_BUFFER0 IS=min IE=max
ITERations=1';tr 52 M=EINITBUF_PACKET_BUFFER0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 53 more memories to test.';echo 'tr 52 M=EINITBUF_PACKET_BUFFER1 IS=min IE=max
ITERations=1';tr 52 M=EINITBUF_PACKET_BUFFER1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 52 more memories to test.';echo 'tr 52 M=EINITBUF_PACKET_BUFFER2 IS=min IE=max
ITERations=1';tr 52 M=EINITBUF_PACKET_BUFFER2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 51 more memories to test.';echo 'tr 52 M=EINITBUF_PACKET_BUFFER3 IS=min IE=max
ITERations=1';tr 52 M=EINITBUF_PACKET_BUFFER3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 50 more memories to test.';echo 'tr 52 M=EINITBUF_PACKET_BUFFER4 IS=min IE=max
ITERations=1';tr 52 M=EINITBUF_PACKET_BUFFER4 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 49 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 52 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 48 more memories to test.';echo 'tr 52 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 52 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 47 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 52 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 46 more memories to test.';echo 'tr 52 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 52 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 45 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
IE=max ITERations=1';tr 52 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=max ITERations=1;echo
'done';
#echo 'there are 44 more memories to test.';echo 'tr 52 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=max
ITERations=1';tr 52 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 43 more memories to test.';echo 'tr 52 M=IARB_FLEX_OPCODE IS=min IE=max
ITERations=1';tr 52 M=IARB_FLEX_OPCODE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 42 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_0_HI IS=min IE=max
ITERations=1';tr 52 M=ING_PBI_DEBUG_0_HI IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 41 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_0_LO IS=min IE=max
ITERations=1';tr 52 M=ING_PBI_DEBUG_0_LO IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 40 more memories to test.';echo 'tr 52 M=ING_PBI_DEBUG_1 IS=min IE=max ITERations=1';tr
52 M=ING_PBI_DEBUG_1 IS=min IE=max ITERations=1;echo 'done';
```

```
#echo 'there are 39 more memories to test.';echo 'tr 52 M=ING_SERVICE_PRI_MAP IS=min IE=max
ITERations=1';tr 52 M=ING_SERVICE_PRI_MAP IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 38 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER0 IS=min IE=max
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 37 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER1 IS=min IE=max
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 36 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER2 IS=min IE=max
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 35 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER3 IS=min IE=max
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 52 M=IPARS_PACKET_BUFFER4 IS=min IE=max
ITERations=1';tr 52 M=IPARS_PACKET_BUFFER4 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 52 M=LINK_STATUS IS=min IE=max ITERations=1';tr 52
M=LINK_STATUS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 52 M=LLS_S1_L0_LOOKUP IS=min IE=max ITERations=1';tr
52 M=LLS_S1_L0_LOOKUP IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 31 more memories to test.';echo 'tr 52 M=LMEP IS=min IE=max ITERations=1';tr 52 M=LMEP
IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 30 more memories to test.';echo 'tr 52 M=LMEP_DA IS=min IE=max ITERations=1';tr 52
M=LMEP_DA IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 52 M=OAM_LM_COUNTERS IS=min IE=max
ITERations=1';tr 52 M=OAM_LM_COUNTERS IS=min IE=max ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 52 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max
ITERations=1';tr 52 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=max
ITERations=1';tr 52 M=EGR_MAX_USED_ENTRIES IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 52 M=EGR_MMU_REQUESTS IS=min IE=max
ITERations=1';tr 52 M=EGR_MMU_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 52 M=EGR_PBE_DEBUG_0 IS=min IE=max ITERations=1';tr
52 M=EGR_PBE_DEBUG_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 52 M=EGR_PORT_REQUESTS IS=min IE=max
ITERations=1';tr 52 M=EGR_PORT_REQUESTS IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 52 M=IARB_IPAD_DEBUG IS=min IE=max ITERations=1';tr
52 M=IARB_IPAD_DEBUG IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 52 M=IARB_MH_DEBUG IS=min IE=max ITERations=1';tr 52
M=IARB_MH_DEBUG IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 52 M=LLS_S1_NEXT IS=min IE=max ITERations=1';tr 52
M=LLS_S1_NEXT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 52 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min IE=max
ITERations=1';tr 52 M=MMU_MTRO_BUCKET_S1_MEM_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
IS=min IE=max ITERations=1';tr 52 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=max
ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 52 M=RDB_BANK_0_0 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_0_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 52 M=RDB_BANK_0_1 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_0_1 IS=min IE=max ITERations=1;echo 'done';
```

```
#echo 'there are 16 more memories to test.';echo 'tr 52 M=RDB_BANK_1_0 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_1_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 52 M=RDB_BANK_1_1 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_1_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 52 M=RDB_BANK_2_0 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_2_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 52 M=RDB_BANK_2_1 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_2_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 52 M=RDB_BANK_3_0 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_3_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 52 M=RDB_BANK_3_1 IS=min IE=max ITERations=1';tr 52
M=RDB_BANK_3_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 52 M=RDB_CEL IS=min IE=max ITERations=1';tr 52
M=RDB_CEL IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 52 M=RDB_CONTEXT IS=min IE=max ITERations=1';tr 52
M=RDB_CONTEXT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 52 M=RDB_CXT_AB IS=min IE=max ITERations=1';tr 52
M=RDB_CXT_AB IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 52 M=RDB_CXT_CD IS=min IE=max ITERations=1';tr 52
M=RDB_CXT_CD IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 52 M=RDB_FCP_0 IS=min IE=max ITERations=1';tr 52
M=RDB_FCP_0 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 52 M=RDB_FCP_1 IS=min IE=max ITERations=1';tr 52
M=RDB_FCP_1 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 52 M=RDB_FCP_2 IS=min IE=max ITERations=1';tr 52
M=RDB_FCP_2 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 52 M=RDB_FCP_3 IS=min IE=max ITERations=1';tr 52
M=RDB_FCP_3 IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 52 M=RDB_PKT IS=min IE=max ITERations=1';tr 52
M=RDB_PKT IS=min IE=max ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 52 M=RDB_QUEUE IS=min IE=max ITERations=1';tr 52
M=RDB_QUEUE IS=min IE=max ITERations=1;echo 'done';
echo "tr 52 done"
config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr52_bcm56560_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs1.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.h
* Purpose:     10G 802.3ae Ethernet PHY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs1.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyreg.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common PHY register definition.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define PHY register definition.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/phyreg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ctrtest.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Counter Tests
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ctrtest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_buffers.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_buffers.h
No license file was found, but licenses were detected in source scan.

```
/*
```

* $Id: sbZfFabWredTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**

* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved. Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*/
/*
* $Id: sbZfFabWredTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabWredTableEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: l3.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE2000 Internal header
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/l3.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: oam_hw_db.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:    oam_hw_db.c
* Purpose: OAM HW DB (MEP-DB, RMEP-DB, ...)
*/
/* Store local port for inner PTCH on counter_pointer field on MEPDB which is free to use in up MEPs.
                PRGE prgram will take it and paste it on the inner PTCH itself. */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/oam_hw_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_eg_encap.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_eg_filter.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_eg_encap.h
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane chipcommon serial flash interface
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sflash.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sflash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkTmApi.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkTmApi.c
* Purpose:
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkTmApi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: fe1600_mbist.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_mbist.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_qos.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_qos.h
*
* MODULE PREFIX:  soc_ppd_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_eg_qos.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: eagle_phy_1_internal.h 1457 2016-07-21 21:46:15Z cvazquez $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
```

```
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xaui.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XAUI Error monitoring features.
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/xaui.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ppe_diags_h.stg,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_ppe_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_q.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_q.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_oam_api.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_oam_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgSrcId.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgSrcId.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcastrep.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/mcastrep.c
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbG2EplibCt.h Egress Class Table Initialization Functions
*
* <pre>
* ==================================================================
* ==  sbG2Eplib.h - QE2000 Egress Class Table Initialization Functions ==
* ==================================================================
*
* WORKING REVISION: $Id: sbG2EplibCt.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibCt.h
*
* ABSTRACT:
*
*     Egress Class Table Initialization Functions
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Josh Weissman
*
* CREATION DATE:
*
*     30-March-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2EplibCt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allocator.c,v 1.20.8.1.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global resource allocator
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/allocator.c
No license file was found, but licenses were detected in source scan.

```
/**********************************************************************
*
* $Id: bcm-uk-trans.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This provides a simple implementation of a BCM C2C/NH transport driver.
* This driver uses a User/Kernel Proxy service to transmit and receive
* the data.
* This driver is compiled for both the kernel and user space.
*
**********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/bcm-uk-trans.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam.c
* Purpose: Manages L3 interface table, forwarding table, routing table
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/bfd.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/bfd_uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_int.h,v 1.28 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains aggregated definitions for Guadalupe 3 microcode
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport.c
* Purpose: This file contains the generic infrastructure code
*          for techsupport utility.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/techsupport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0AEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0AEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_cb_func.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dfe/interrupts/interrupt_handler_cb_func.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_xmod_pe_api.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/bcm_xmod_pe_api.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/bcm_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_multicast_id_map.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF MULTICAST ID MAP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/dnxf_multicast_id_map.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54xx.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       phy54xx.c
*
* The PHY drivers in this file mostly use the standard register set and
* are implemented using the phy_fe/ge driver routines, with the
* addition of a few chip-dependent register settings.
*
* If LDR is 1, then the PHY will be reset each time link down is
* detected on copper.  BCM54xx has difficulty obtaining link with
* certain other gigabit PHYs if not reset when link goes down.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54xx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcs.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  mcs.c
* Purpose:  Micro Controller Subsystem Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/mcs.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_multicast_fabric.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_cell.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_cell.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfHwQe2000QsPriLutAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfHwQe2000QsPriLutAddr.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfHwQe2000QsPriLutAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jerp_pp_kaps_xpt.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JERP/JERP_PP/jerp_pp_kaps_xpt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tasks_info.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/tasks_info.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsAlMsg.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsAlMsg.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkOsAlMsg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_gsa_api.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_gsa_api.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_QSGMIIE_SERDES.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_qsgmiie_serdes_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mirror.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom StrataSwitch Mirror API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_pm.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam_pm_pack.h
* Purpose: OAM_PM definitions common to SDK and uKernel
*
* Notes:   Definition changes should be avoided in order to
*          maintain compatibility between SDK and uKernel since
*          both images are built and loaded separately.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/oam_pm_pack.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  falcon2_madura_functions.c                                *
*  Created On    :  29/04/2013                                                *
*  Created By    :  Kiran Divakar                                             *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :  $Id: falcon2_madura_functions.c 1404 2016-04-14 22:49:19Z cvazquez $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
```

```
*  company private proprietary, and trade secret.                    *
*                                                                    *
**********************************************************************
**********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spiflash_toc.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem flash utility
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/aps/spiflash_toc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_presel.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*     Preselector support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_presel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_config.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_config.h
* Purpose:     CINT configuration
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_config.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : madura_cfg_seq.h
* Description: c functions implementing Tier1
*----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_diag_seq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_phy_1_dv_functions.c                                          *
*  Created On    :  22/05/2014                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  APIs for Serdes IPs ported over from DV                             *
*  Revision      :  $Id: eagle_phy_1_dv_functions.c 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
```

```
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
************************************************************************************
************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
#$Id: kt2sanity.soc,v 1.1.26.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana2 (BCM56450) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local CIs ci0,ci2,ci4;
local DNs 0-5;

if $?BCM56450_A0 || $?BCM56450_B0 \
   'local LIKE_BCM56450 1'

if $?BCM56248_A0 || $?BCM56248_B0 \
  'local LIKE_BCM56248 1'

if $?BCM55455_A0 || $?BCM55455_B0 \
  'local LIKE_BCM55455 1'

if $?BCM56455_A0 || $?BCM56455_B0 \
  'local LIKE_BCM56455 1; \
   local CIs ci0,ci2;\
   local DNs 0-2;'


config clear

config add bcm5645x_config=2
config bcm5645x_config=2

config add auto_polarity_flip=1
config auto_polarity_flip=1

config add auto_portgroup=1
config auto_portgroup=1
```

```
config add parity_enable=0;
config parity_enable=0;

config

# PCI override is a temporary stuff

if $?BCM56455_A0 || $?BCM56455_B0 \
  'echo "KT1 Package"; \
   config clear; \
   config add bcm5645x_config=1; \
   config add pci_override_dev=0xb455; \
   config add parity_enable=0; \
   config; \
   $done;'

if $?BCM56248_A0 || $?BCM56248_B0 || $?BCM56456_A0 || $?BCM56456_B0 || $?BCM55455_A0 ||
$?BCM55455_B0\
   'local LIKE_BCM56456 1'

if $?run_full_sanity "echo Running FullSanity" else "echo Running ScreenSanity"


# This line is used for automated sanity regression - PLEASE DO NOT REMOVE
echo "testsuite: started: sanity"

rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
#set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
```

```
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

if !$?ihost_mode \
  'echo "Running PCI Compliance ..."; \
   tr 2; \
   $done;'

if !$?ihost_mode \
  'echo "Running Register read/write ..."; \
   tr 3; \
   echo "DONE ..."; \
   $done;'

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init misc; init mmu;
kt2sanity_ecc_off.soc
#set rctest=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
```

```
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " BCAST_BLOCK_MASK";
tr 50 M=BCAST_BLOCK_MASK;
tr 51 M=BCAST_BLOCK_MASK;
tr 52 M=BCAST_BLOCK_MASK;
tr 71 M=BCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=F;
echo " COS_MAP_SEL";
tr 50 M=COS_MAP_SEL;
tr 51 M=COS_MAP_SEL;
tr 52 M=COS_MAP_SEL;
tr 71 M=COS_MAP_SEL TSE=F SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_PBM";
tr 50 M=CPU_PBM;
#tr 51 M=CPU_PBM;
#tr 52 M=CPU_PBM;
tr 71 M=CPU_PBM TSE=F SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=F;
echo " CPU_PBM_2";
```

```
tr 50 M=CPU_PBM_2;
#tr 51 M=CPU_PBM_2;
#tr 52 M=CPU_PBM_2;
tr 71 M=CPU_PBM_2 TSE=F SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " CTR_DEQ_STATUS_MEM";
tr 50 M=CTR_DEQ_STATUS_MEM;
tr 51 M=CTR_DEQ_STATUS_MEM;
tr 52 M=CTR_DEQ_STATUS_MEM;
tr 71 M=CTR_DEQ_STATUS_MEM TSE=F SLTH=T;
tr 71 M=CTR_DEQ_STATUS_MEM TSE=T SLTH=T;
tr 71 M=CTR_DEQ_STATUS_MEM TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_0";
tr 50 M=CTR_FLEX_COUNT_0;
tr 51 M=CTR_FLEX_COUNT_0;
tr 52 M=CTR_FLEX_COUNT_0;
tr 71 M=CTR_FLEX_COUNT_0 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_1";
tr 50 M=CTR_FLEX_COUNT_1;
tr 51 M=CTR_FLEX_COUNT_1;
tr 52 M=CTR_FLEX_COUNT_1;
tr 71 M=CTR_FLEX_COUNT_1 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_10";
tr 50 M=CTR_FLEX_COUNT_10;
tr 51 M=CTR_FLEX_COUNT_10;
tr 52 M=CTR_FLEX_COUNT_10;
tr 71 M=CTR_FLEX_COUNT_10 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_11";
tr 50 M=CTR_FLEX_COUNT_11;
tr 51 M=CTR_FLEX_COUNT_11;
tr 52 M=CTR_FLEX_COUNT_11;
tr 71 M=CTR_FLEX_COUNT_11 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=F;
```

```
echo " CTR_FLEX_COUNT_2";
tr 50 M=CTR_FLEX_COUNT_2;
tr 51 M=CTR_FLEX_COUNT_2;
tr 52 M=CTR_FLEX_COUNT_2;
tr 71 M=CTR_FLEX_COUNT_2 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_3";
tr 50 M=CTR_FLEX_COUNT_3;
tr 51 M=CTR_FLEX_COUNT_3;
tr 52 M=CTR_FLEX_COUNT_3;
tr 71 M=CTR_FLEX_COUNT_3 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_4";
tr 50 M=CTR_FLEX_COUNT_4;
tr 51 M=CTR_FLEX_COUNT_4;
tr 52 M=CTR_FLEX_COUNT_4;
tr 71 M=CTR_FLEX_COUNT_4 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_5";
tr 50 M=CTR_FLEX_COUNT_5;
tr 51 M=CTR_FLEX_COUNT_5;
tr 52 M=CTR_FLEX_COUNT_5;
tr 71 M=CTR_FLEX_COUNT_5 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_6";
tr 50 M=CTR_FLEX_COUNT_6;
tr 51 M=CTR_FLEX_COUNT_6;
tr 52 M=CTR_FLEX_COUNT_6;
tr 71 M=CTR_FLEX_COUNT_6 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_7";
tr 50 M=CTR_FLEX_COUNT_7;
tr 51 M=CTR_FLEX_COUNT_7;
tr 52 M=CTR_FLEX_COUNT_7;
tr 71 M=CTR_FLEX_COUNT_7 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_8";
tr 50 M=CTR_FLEX_COUNT_8;
tr 51 M=CTR_FLEX_COUNT_8;
tr 52 M=CTR_FLEX_COUNT_8;
tr 71 M=CTR_FLEX_COUNT_8 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=T;
```

```
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=F;
echo " CTR_FLEX_COUNT_9";
tr 50 M=CTR_FLEX_COUNT_9;
tr 51 M=CTR_FLEX_COUNT_9;
tr 52 M=CTR_FLEX_COUNT_9;
tr 71 M=CTR_FLEX_COUNT_9 TSE=F SLTH=T;
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=T;
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=F;
echo " DEVICE_STREAM_ID_TO_PP_PORT_MAP";
tr 50 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP;
tr 51 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP;
tr 52 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP;
tr 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=F SLTH=T;
tr 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=T SLTH=T;
tr 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
```

```
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_DVP_ATTRIBUTE";
tr 50 M=EGR_DVP_ATTRIBUTE;
tr 51 M=EGR_DVP_ATTRIBUTE;
tr 52 M=EGR_DVP_ATTRIBUTE;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=F SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
```

```
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_4";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
```

```
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_3";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_PRI_MAP";
```

```
tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_RES_MAP";
tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PORT_MAP";
tr 50 M=EGR_FLEX_CTR_PORT_MAP;
tr 51 M=EGR_FLEX_CTR_PORT_MAP;
tr 52 M=EGR_FLEX_CTR_PORT_MAP;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_TOS_MAP";
tr 50 M=EGR_FLEX_CTR_TOS_MAP;
tr 51 M=EGR_FLEX_CTR_TOS_MAP;
tr 52 M=EGR_FLEX_CTR_TOS_MAP;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_GPP_ATTRIBUTES";
tr 50 M=EGR_GPP_ATTRIBUTES;
tr 51 M=EGR_GPP_ATTRIBUTES;
tr 52 M=EGR_GPP_ATTRIBUTES;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=F SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=F;
```

```
echo " EGR_GPP_ATTRIBUTES_MODBASE";
tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
```

```
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_LM_COUNTER_CONTROL";
tr 50 M=EGR_LM_COUNTER_CONTROL;
tr 51 M=EGR_LM_COUNTER_CONTROL;
tr 52 M=EGR_LM_COUNTER_CONTROL;
tr 71 M=EGR_LM_COUNTER_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_LM_COUNTER_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_LM_COUNTER_CONTROL TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGR_MAP_MH";
tr 50 M=EGR_MAP_MH;
tr 51 M=EGR_MAP_MH;
tr 52 M=EGR_MAP_MH;
tr 71 M=EGR_MAP_MH TSE=F SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=F;
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
echo " EGR_MASK_MODBASE";
tr 50 M=EGR_MASK_MODBASE;
tr 51 M=EGR_MASK_MODBASE;
tr 52 M=EGR_MASK_MODBASE;
tr 71 M=EGR_MASK_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
```

```
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
echo " EGR_MA_INDEX";
tr 50 M=EGR_MA_INDEX;
tr 51 M=EGR_MA_INDEX;
tr 52 M=EGR_MA_INDEX;
tr 71 M=EGR_MA_INDEX TSE=F SLTH=T;
tr 71 M=EGR_MA_INDEX TSE=T SLTH=T;
tr 71 M=EGR_MA_INDEX TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_CONTROL";
tr 50 M=EGR_MIRROR_ENCAP_CONTROL;
tr 51 M=EGR_MIRROR_ENCAP_CONTROL;
tr 52 M=EGR_MIRROR_ENCAP_CONTROL;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_1";
tr 50 M=EGR_MIRROR_ENCAP_DATA_1;
tr 51 M=EGR_MIRROR_ENCAP_DATA_1;
tr 52 M=EGR_MIRROR_ENCAP_DATA_1;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_2";
tr 50 M=EGR_MIRROR_ENCAP_DATA_2;
tr 51 M=EGR_MIRROR_ENCAP_DATA_2;
tr 52 M=EGR_MIRROR_ENCAP_DATA_2;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
```

```
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_MP_GROUP";
tr 50 M=EGR_MP_GROUP;
tr 51 M=EGR_MP_GROUP;
tr 52 M=EGR_MP_GROUP;
tr 71 M=EGR_MP_GROUP TSE=F SLTH=T;
tr 71 M=EGR_MP_GROUP TSE=T SLTH=T;
tr 71 M=EGR_MP_GROUP TSE=T SLTH=F;
echo " EGR_NETWORK_PRUNE_CONTROL";
tr 50 M=EGR_NETWORK_PRUNE_CONTROL;
tr 51 M=EGR_NETWORK_PRUNE_CONTROL;
tr 52 M=EGR_NETWORK_PRUNE_CONTROL;
tr 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=T SLTH=F;
echo " EGR_OAM_DGLP_PROFILE";
tr 50 M=EGR_OAM_DGLP_PROFILE;
tr 51 M=EGR_OAM_DGLP_PROFILE;
```

```
tr 52 M=EGR_OAM_DGLP_PROFILE;
tr 71 M=EGR_OAM_DGLP_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_OAM_DGLP_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_OAM_DGLP_PROFILE TSE=T SLTH=F;
echo " EGR_OAM_FLEXIBLE_DOMAIN_CONTROL";
tr 50 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 51 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 52 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=F;
echo " EGR_OAM_LM_COUNTERS_0";
tr 50 M=EGR_OAM_LM_COUNTERS_0;
tr 51 M=EGR_OAM_LM_COUNTERS_0;
tr 52 M=EGR_OAM_LM_COUNTERS_0;
tr 71 M=EGR_OAM_LM_COUNTERS_0 TSE=F SLTH=T;
tr 71 M=EGR_OAM_LM_COUNTERS_0 TSE=T SLTH=T;
tr 71 M=EGR_OAM_LM_COUNTERS_0 TSE=T SLTH=F;
echo " EGR_OAM_LM_COUNTERS_1";
tr 50 M=EGR_OAM_LM_COUNTERS_1;
tr 51 M=EGR_OAM_LM_COUNTERS_1;
tr 52 M=EGR_OAM_LM_COUNTERS_1;
tr 71 M=EGR_OAM_LM_COUNTERS_1 TSE=F SLTH=T;
tr 71 M=EGR_OAM_LM_COUNTERS_1 TSE=T SLTH=T;
tr 71 M=EGR_OAM_LM_COUNTERS_1 TSE=T SLTH=F;
echo " EGR_OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=EGR_OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=EGR_OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=EGR_OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " EGR_OAM_OPCODE_GROUP";
tr 50 M=EGR_OAM_OPCODE_GROUP;
tr 51 M=EGR_OAM_OPCODE_GROUP;
tr 52 M=EGR_OAM_OPCODE_GROUP;
tr 71 M=EGR_OAM_OPCODE_GROUP TSE=F SLTH=T;
tr 71 M=EGR_OAM_OPCODE_GROUP TSE=T SLTH=T;
tr 71 M=EGR_OAM_OPCODE_GROUP TSE=T SLTH=F;
echo " EGR_OLP_CONFIG";
tr 50 M=EGR_OLP_CONFIG;
#tr 51 M=EGR_OLP_CONFIG;
#tr 52 M=EGR_OLP_CONFIG;
tr 71 M=EGR_OLP_CONFIG TSE=F SLTH=T;
tr 71 M=EGR_OLP_CONFIG TSE=T SLTH=T;
tr 71 M=EGR_OLP_CONFIG TSE=T SLTH=F;
echo " EGR_OLP_DGPP_CONFIG";
tr 50 M=EGR_OLP_DGPP_CONFIG;
```

```
tr 51 M=EGR_OLP_DGPP_CONFIG;
tr 52 M=EGR_OLP_DGPP_CONFIG;
tr 71 M=EGR_OLP_DGPP_CONFIG TSE=F SLTH=T;
tr 71 M=EGR_OLP_DGPP_CONFIG TSE=T SLTH=T;
tr 71 M=EGR_OLP_DGPP_CONFIG TSE=T SLTH=F;
echo " EGR_OLP_HEADER_TYPE_MAPPING";
tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING;
tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING;
tr 52 M=EGR_OLP_HEADER_TYPE_MAPPING;
tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_0";
#tr 50 M=EGR_PBE_DEBUG_0;
#tr 51 M=EGR_PBE_DEBUG_0;
#tr 52 M=EGR_PBE_DEBUG_0;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_1";
#tr 50 M=EGR_PBE_DEBUG_1;
#tr 51 M=EGR_PBE_DEBUG_1;
#tr 52 M=EGR_PBE_DEBUG_1;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=F;
echo " EGR_PCP_DE_MAPPING";
tr 50 M=EGR_PCP_DE_MAPPING;
tr 51 M=EGR_PCP_DE_MAPPING;
tr 52 M=EGR_PCP_DE_MAPPING;
tr 71 M=EGR_PCP_DE_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_PCP_DE_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_PCP_DE_MAPPING TSE=T SLTH=F;
echo " EGR_PHYSICAL_PORT";
tr 50 M=EGR_PHYSICAL_PORT;
tr 51 M=EGR_PHYSICAL_PORT;
tr 52 M=EGR_PHYSICAL_PORT;
tr 71 M=EGR_PHYSICAL_PORT TSE=F SLTH=T;
tr 71 M=EGR_PHYSICAL_PORT TSE=T SLTH=T;
tr 71 M=EGR_PHYSICAL_PORT TSE=T SLTH=F;
echo " EGR_PORT";
tr 50 M=EGR_PORT;
tr 51 M=EGR_PORT;
tr 52 M=EGR_PORT;
tr 71 M=EGR_PORT TSE=F SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
```

```
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PP_PORT_GPP_TRANSLATION_1";
tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_1;
#tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_1;
#tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_1;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=F SLTH=T;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=T;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=F;
echo " EGR_PP_PORT_GPP_TRANSLATION_2";
tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_2;
#tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_2;
#tr 52 M=EGR_PP_PORT_GPP_TRANSLATION_2;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=F SLTH=T;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=T;
tr 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_QUEUE_TO_PP_PORT_MAP";
tr 50 M=EGR_QUEUE_TO_PP_PORT_MAP;
tr 51 M=EGR_QUEUE_TO_PP_PORT_MAP;
tr 52 M=EGR_QUEUE_TO_PP_PORT_MAP;
tr 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=F SLTH=T;
tr 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=T SLTH=T;
tr 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=T SLTH=F;
echo " EGR_SERVICE_PRI_MAP";
tr 50 M=EGR_SERVICE_PRI_MAP;
tr 51 M=EGR_SERVICE_PRI_MAP;
tr 52 M=EGR_SERVICE_PRI_MAP;
tr 71 M=EGR_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_PRI_MAP TSE=T SLTH=F;
```

```
echo " EGR_SUBPORT_TAG_DOT1P_MAP";
tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP;
tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP;
tr 52 M=EGR_SUBPORT_TAG_DOT1P_MAP;
tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=F SLTH=T;
tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=T SLTH=T;
tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_OVERFLOW";
tr 50 M=EGR_VLAN_XLATE_OVERFLOW;
tr 51 M=EGR_VLAN_XLATE_OVERFLOW;
tr 52 M=EGR_VLAN_XLATE_OVERFLOW;
tr 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=T SLTH=T;
```

```
tr 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=T SLTH=F;
echo " EMIRROR_CONTROL";
tr 50 M=EMIRROR_CONTROL;
tr 51 M=EMIRROR_CONTROL;
tr 52 M=EMIRROR_CONTROL;
tr 71 M=EMIRROR_CONTROL TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=F;
echo " EMIRROR_CONTROL1";
tr 50 M=EMIRROR_CONTROL1;
tr 51 M=EMIRROR_CONTROL1;
tr 52 M=EMIRROR_CONTROL1;
tr 71 M=EMIRROR_CONTROL1 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=F;
echo " EMIRROR_CONTROL2";
tr 50 M=EMIRROR_CONTROL2;
tr 51 M=EMIRROR_CONTROL2;
tr 52 M=EMIRROR_CONTROL2;
tr 71 M=EMIRROR_CONTROL2 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=F;
echo " EMIRROR_CONTROL3";
tr 50 M=EMIRROR_CONTROL3;
tr 51 M=EMIRROR_CONTROL3;
tr 52 M=EMIRROR_CONTROL3;
tr 71 M=EMIRROR_CONTROL3 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EPC_LINK_BMAP";
tr 50 M=EPC_LINK_BMAP;
#tr 51 M=EPC_LINK_BMAP;
#tr 52 M=EPC_LINK_BMAP;
tr 71 M=EPC_LINK_BMAP TSE=F SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
```

```
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " FLOOD_LEARN_MATCH_VLANS_PORT_A";
tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_A;
tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_A;
tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_A;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=F SLTH=T;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=T SLTH=T;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=T SLTH=F;
echo " FLOOD_LEARN_MATCH_VLANS_PORT_B";
tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_B;
tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_B;
tr 52 M=FLOOD_LEARN_MATCH_VLANS_PORT_B;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=F SLTH=T;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=T SLTH=T;
tr 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_FLEX_KEY_SELECTOR";
tr 50 M=FP_FLEX_KEY_SELECTOR;
tr 51 M=FP_FLEX_KEY_SELECTOR;
tr 52 M=FP_FLEX_KEY_SELECTOR;
tr 71 M=FP_FLEX_KEY_SELECTOR TSE=F SLTH=T;
tr 71 M=FP_FLEX_KEY_SELECTOR TSE=T SLTH=T;
tr 71 M=FP_FLEX_KEY_SELECTOR TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_HG_CLASSID_SELECT";
tr 50 M=FP_HG_CLASSID_SELECT;
tr 51 M=FP_HG_CLASSID_SELECT;
tr 52 M=FP_HG_CLASSID_SELECT;
tr 71 M=FP_HG_CLASSID_SELECT TSE=F SLTH=T;
tr 71 M=FP_HG_CLASSID_SELECT TSE=T SLTH=T;
tr 71 M=FP_HG_CLASSID_SELECT TSE=T SLTH=F;
echo " FP_I2E_CLASSID_SELECT";
tr 50 M=FP_I2E_CLASSID_SELECT;
tr 51 M=FP_I2E_CLASSID_SELECT;
tr 52 M=FP_I2E_CLASSID_SELECT;
```

```
tr 71 M=FP_I2E_CLASSID_SELECT TSE=F SLTH=T;
tr 71 M=FP_I2E_CLASSID_SELECT TSE=T SLTH=T;
tr 71 M=FP_I2E_CLASSID_SELECT TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
```

```
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " FP_UDF_TCAM";
tr 50 M=FP_UDF_TCAM;
tr 51 M=FP_UDF_TCAM;
tr 52 M=FP_UDF_TCAM;
tr 71 M=FP_UDF_TCAM TSE=F SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=F;
echo " GTP_PORT_TABLE";
tr 50 M=GTP_PORT_TABLE;
tr 51 M=GTP_PORT_TABLE;
tr 52 M=GTP_PORT_TABLE;
tr 71 M=GTP_PORT_TABLE TSE=F SLTH=T;
tr 71 M=GTP_PORT_TABLE TSE=T SLTH=T;
tr 71 M=GTP_PORT_TABLE TSE=T SLTH=F;
echo " HG_TRUNK_BITMAP";
tr 50 M=HG_TRUNK_BITMAP;
tr 51 M=HG_TRUNK_BITMAP;
tr 52 M=HG_TRUNK_BITMAP;
tr 71 M=HG_TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_ENABLE";
tr 50 M=HG_TRUNK_FAILOVER_ENABLE;
```

```
#tr 51 M=HG_TRUNK_FAILOVER_ENABLE;
#tr 52 M=HG_TRUNK_FAILOVER_ENABLE;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " HG_TRUNK_GROUP";
tr 50 M=HG_TRUNK_GROUP;
tr 51 M=HG_TRUNK_GROUP;
tr 52 M=HG_TRUNK_GROUP;
tr 71 M=HG_TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=F;
echo " HG_TRUNK_MEMBER";
tr 50 M=HG_TRUNK_MEMBER;
tr 51 M=HG_TRUNK_MEMBER;
tr 52 M=HG_TRUNK_MEMBER;
tr 71 M=HG_TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=F;
echo " HIGIG_TRUNK_CONTROL";
tr 50 M=HIGIG_TRUNK_CONTROL;
#tr 51 M=HIGIG_TRUNK_CONTROL;
#tr 52 M=HIGIG_TRUNK_CONTROL;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=F SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=F;
echo " IARB_ING_PHYSICAL_PORT";
tr 50 M=IARB_ING_PHYSICAL_PORT;
tr 51 M=IARB_ING_PHYSICAL_PORT;
tr 52 M=IARB_ING_PHYSICAL_PORT;
tr 71 M=IARB_ING_PHYSICAL_PORT TSE=F SLTH=T;
tr 71 M=IARB_ING_PHYSICAL_PORT TSE=T SLTH=T;
tr 71 M=IARB_ING_PHYSICAL_PORT TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IARB_TDM_TABLE_1";
```

```
tr 50 M=IARB_TDM_TABLE_1;
tr 51 M=IARB_TDM_TABLE_1;
tr 52 M=IARB_TDM_TABLE_1;
tr 71 M=IARB_TDM_TABLE_1 TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE_1 TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE_1 TSE=T SLTH=F;
echo " ICONTROL_OPCODE_BITMAP";
tr 50 M=ICONTROL_OPCODE_BITMAP;
tr 51 M=ICONTROL_OPCODE_BITMAP;
tr 52 M=ICONTROL_OPCODE_BITMAP;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=F SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=F;
echo " IFP_COS_MAP";
tr 50 M=IFP_COS_MAP;
tr 51 M=IFP_COS_MAP;
tr 52 M=IFP_COS_MAP;
tr 71 M=IFP_COS_MAP TSE=F SLTH=T;
tr 71 M=IFP_COS_MAP TSE=T SLTH=T;
tr 71 M=IFP_COS_MAP TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IMIRROR_BITMAP";
tr 50 M=IMIRROR_BITMAP;
tr 51 M=IMIRROR_BITMAP;
tr 52 M=IMIRROR_BITMAP;
tr 71 M=IMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " INGRESS_OAM_OPCODE_GROUP";
tr 50 M=INGRESS_OAM_OPCODE_GROUP;
tr 51 M=INGRESS_OAM_OPCODE_GROUP;
tr 52 M=INGRESS_OAM_OPCODE_GROUP;
tr 71 M=INGRESS_OAM_OPCODE_GROUP TSE=F SLTH=T;
tr 71 M=INGRESS_OAM_OPCODE_GROUP TSE=T SLTH=T;
tr 71 M=INGRESS_OAM_OPCODE_GROUP TSE=T SLTH=F;
```

```
echo " ING_1588_TS_DISPOSITION_PROFILE_TABLE";
tr 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 52 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=F SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_EGRMSKBMAP";
tr 50 M=ING_EGRMSKBMAP;
tr 51 M=ING_EGRMSKBMAP;
tr 52 M=ING_EGRMSKBMAP;
tr 71 M=ING_EGRMSKBMAP TSE=F SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=F;
echo " ING_EN_EFILTER_BITMAP";
tr 50 M=ING_EN_EFILTER_BITMAP;
#tr 51 M=ING_EN_EFILTER_BITMAP;
#tr 52 M=ING_EN_EFILTER_BITMAP;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=F SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
```

```
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_4";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
```

```
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_3";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_PRI_MAP";
tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP;
```

```
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_RES_MAP";
tr 50 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 51 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 52 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PORT_MAP";
tr 50 M=ING_FLEX_CTR_PORT_MAP;
tr 51 M=ING_FLEX_CTR_PORT_MAP;
tr 52 M=ING_FLEX_CTR_PORT_MAP;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_TOS_MAP";
tr 50 M=ING_FLEX_CTR_TOS_MAP;
tr 51 M=ING_FLEX_CTR_TOS_MAP;
tr 52 M=ING_FLEX_CTR_TOS_MAP;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " ING_HIGIG_TRUNK_OVERRIDE_PROFILE";
tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=F SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
```

```
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_NETWORK_PRUNE_CONTROL";
tr 50 M=ING_NETWORK_PRUNE_CONTROL;
tr 51 M=ING_NETWORK_PRUNE_CONTROL;
tr 52 M=ING_NETWORK_PRUNE_CONTROL;
tr 71 M=ING_NETWORK_PRUNE_CONTROL TSE=F SLTH=T;
tr 71 M=ING_NETWORK_PRUNE_CONTROL TSE=T SLTH=T;
tr 71 M=ING_NETWORK_PRUNE_CONTROL TSE=T SLTH=F;
echo " ING_OAM_DGLP_PROFILE";
tr 50 M=ING_OAM_DGLP_PROFILE;
tr 51 M=ING_OAM_DGLP_PROFILE;
tr 52 M=ING_OAM_DGLP_PROFILE;
tr 71 M=ING_OAM_DGLP_PROFILE TSE=F SLTH=T;
tr 71 M=ING_OAM_DGLP_PROFILE TSE=T SLTH=T;
tr 71 M=ING_OAM_DGLP_PROFILE TSE=T SLTH=F;
echo " ING_OAM_FLEXIBLE_DOMAIN_CONTROL";
tr 50 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 51 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 52 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL;
tr 71 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=F SLTH=T;
tr 71 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=T;
tr 71 M=ING_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_0_HI";
#tr 50 M=ING_PBI_DEBUG_0_HI;
#tr 51 M=ING_PBI_DEBUG_0_HI;
#tr 52 M=ING_PBI_DEBUG_0_HI;
#tr 71 M=ING_PBI_DEBUG_0_HI TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0_HI TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0_HI TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_0_LO";
#tr 50 M=ING_PBI_DEBUG_0_LO;
#tr 51 M=ING_PBI_DEBUG_0_LO;
#tr 52 M=ING_PBI_DEBUG_0_LO;
#tr 71 M=ING_PBI_DEBUG_0_LO TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0_LO TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0_LO TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_1";
#tr 50 M=ING_PBI_DEBUG_1;
```

```
#tr 51 M=ING_PBI_DEBUG_1;
#tr 52 M=ING_PBI_DEBUG_1;
#tr 71 M=ING_PBI_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=F;
echo " ING_PHYSICAL_PORT_TABLE";
tr 50 M=ING_PHYSICAL_PORT_TABLE;
tr 51 M=ING_PHYSICAL_PORT_TABLE;
tr 52 M=ING_PHYSICAL_PORT_TABLE;
tr 71 M=ING_PHYSICAL_PORT_TABLE TSE=F SLTH=T;
tr 71 M=ING_PHYSICAL_PORT_TABLE TSE=T SLTH=T;
tr 71 M=ING_PHYSICAL_PORT_TABLE TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_QUEUE_MAP";
tr 50 M=ING_QUEUE_MAP;
tr 51 M=ING_QUEUE_MAP;
tr 52 M=ING_QUEUE_MAP;
tr 71 M=ING_QUEUE_MAP TSE=F SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=F;
echo " ING_QUEUE_OFFSET_MAPPING_TABLE";
tr 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 52 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_PRI_MAP";
```

```
tr 50 M=ING_SVM_PKT_PRI_MAP;
tr 51 M=ING_SVM_PKT_PRI_MAP;
tr 52 M=ING_SVM_PKT_PRI_MAP;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_RES_MAP";
tr 50 M=ING_SVM_PKT_RES_MAP;
tr 51 M=ING_SVM_PKT_RES_MAP;
tr 52 M=ING_SVM_PKT_RES_MAP;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=F;
echo " ING_SVM_PORT_MAP";
tr 50 M=ING_SVM_PORT_MAP;
tr 51 M=ING_SVM_PORT_MAP;
tr 52 M=ING_SVM_PORT_MAP;
tr 71 M=ING_SVM_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=F;
echo " ING_SVM_PRI_CNG_MAP";
tr 50 M=ING_SVM_PRI_CNG_MAP;
tr 51 M=ING_SVM_PRI_CNG_MAP;
tr 52 M=ING_SVM_PRI_CNG_MAP;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SVM_TOS_MAP";
tr 50 M=ING_SVM_TOS_MAP;
tr 51 M=ING_SVM_TOS_MAP;
tr 52 M=ING_SVM_TOS_MAP;
tr 71 M=ING_SVM_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=F;
echo " ING_UNTAGGED_PHB";
tr 50 M=ING_UNTAGGED_PHB;
tr 51 M=ING_UNTAGGED_PHB;
tr 52 M=ING_UNTAGGED_PHB;
tr 71 M=ING_UNTAGGED_PHB TSE=F SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
```

```
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_GROUP";
tr 50 M=INITIAL_L3_ECMP_GROUP;
tr 51 M=INITIAL_L3_ECMP_GROUP;
tr 52 M=INITIAL_L3_ECMP_GROUP;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE_1";
tr 50 M=INITIAL_PROT_NHI_TABLE_1;
tr 51 M=INITIAL_PROT_NHI_TABLE_1;
tr 52 M=INITIAL_PROT_NHI_TABLE_1;
tr 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=T SLTH=T;
```

```
tr 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE_1_DMA";
tr 50 M=INITIAL_PROT_NHI_TABLE_1_DMA;
tr 51 M=INITIAL_PROT_NHI_TABLE_1_DMA;
tr 52 M=INITIAL_PROT_NHI_TABLE_1_DMA;
tr 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " KNOWN_MCAST_BLOCK_MASK";
tr 50 M=KNOWN_MCAST_BLOCK_MASK;
tr 51 M=KNOWN_MCAST_BLOCK_MASK;
tr 52 M=KNOWN_MCAST_BLOCK_MASK;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_BULK_MATCH_DATA";
tr 50 M=L2_BULK_MATCH_DATA;
#tr 51 M=L2_BULK_MATCH_DATA;
#tr 52 M=L2_BULK_MATCH_DATA;
tr 71 M=L2_BULK_MATCH_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=F;
echo " L2_BULK_MATCH_MASK";
tr 50 M=L2_BULK_MATCH_MASK;
#tr 51 M=L2_BULK_MATCH_MASK;
#tr 52 M=L2_BULK_MATCH_MASK;
tr 71 M=L2_BULK_MATCH_MASK TSE=F SLTH=T;
```

```
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=F;
echo " L2_BULK_MATCH_VLANS_PORT_A";
tr 50 M=L2_BULK_MATCH_VLANS_PORT_A;
tr 51 M=L2_BULK_MATCH_VLANS_PORT_A;
tr 52 M=L2_BULK_MATCH_VLANS_PORT_A;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=T SLTH=F;
echo " L2_BULK_MATCH_VLANS_PORT_B";
tr 50 M=L2_BULK_MATCH_VLANS_PORT_B;
tr 51 M=L2_BULK_MATCH_VLANS_PORT_B;
tr 52 M=L2_BULK_MATCH_VLANS_PORT_B;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=T SLTH=F;
echo " L2_BULK_REPLACE_DATA";
tr 50 M=L2_BULK_REPLACE_DATA;
#tr 51 M=L2_BULK_REPLACE_DATA;
#tr 52 M=L2_BULK_REPLACE_DATA;
tr 71 M=L2_BULK_REPLACE_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=F;
echo " L2_BULK_REPLACE_MASK";
tr 50 M=L2_BULK_REPLACE_MASK;
#tr 51 M=L2_BULK_REPLACE_MASK;
#tr 52 M=L2_BULK_REPLACE_MASK;
tr 71 M=L2_BULK_REPLACE_MASK TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW;
#tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
```

```
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
if !$?LIKE_BCM55455 \
  'echo " L3_DEFIP"; \
   tr 50 M=L3_DEFIP; \
   tr 51 M=L3_DEFIP; \
   tr 52 M=L3_DEFIP; \
   tr 71 M=L3_DEFIP TSE=F SLTH=T; \
   tr 71 M=L3_DEFIP TSE=T SLTH=T; \
   tr 71 M=L3_DEFIP TSE=T SLTH=F; \
   echo " L3_DEFIP_DATA_ONLY"; \
   tr 50 M=L3_DEFIP_DATA_ONLY; \
```

```
tr 51 M=L3_DEFIP_DATA_ONLY; \
tr 52 M=L3_DEFIP_DATA_ONLY; \
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_HIT_ONLY"; \
tr 50 M=L3_DEFIP_HIT_ONLY; \
tr 51 M=L3_DEFIP_HIT_ONLY; \
tr 52 M=L3_DEFIP_HIT_ONLY; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_ONLY"; \
tr 50 M=L3_DEFIP_ONLY; \
tr 51 M=L3_DEFIP_ONLY; \
tr 52 M=L3_DEFIP_ONLY; \
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F; \
kt2sanity_ecc_off.soc \
echo " L3_DEFIP_PAIR_128"; \
tr 50 M=L3_DEFIP_PAIR_128; \
tr 51 M=L3_DEFIP_PAIR_128; \
tr 52 M=L3_DEFIP_PAIR_128; \
tr 71 M=L3_DEFIP_PAIR_128 TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=F; \
echo " L3_DEFIP_PAIR_128_DATA_ONLY"; \
tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY; \
tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY; \
tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY; \
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_PAIR_128_HIT_ONLY"; \
tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY; \
tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY; \
tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY; \
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_PAIR_128_ONLY"; \
tr 50 M=L3_DEFIP_PAIR_128_ONLY; \
tr 51 M=L3_DEFIP_PAIR_128_ONLY; \
tr 52 M=L3_DEFIP_PAIR_128_ONLY; \
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=F; \
```

```
  $done;'
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
tr 71 M=L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_2";
tr 50 M=L3_IPMC_2;
tr 51 M=L3_IPMC_2;
tr 52 M=L3_IPMC_2;
tr 71 M=L3_IPMC_2 TSE=F SLTH=T;
tr 71 M=L3_IPMC_2 TSE=T SLTH=T;
tr 71 M=L3_IPMC_2 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
```

```
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " L3_TUNNEL_DATA_ONLY";
tr 50 M=L3_TUNNEL_DATA_ONLY;
tr 51 M=L3_TUNNEL_DATA_ONLY;
tr 52 M=L3_TUNNEL_DATA_ONLY;
tr 71 M=L3_TUNNEL_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_TUNNEL_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_TUNNEL_DATA_ONLY TSE=T SLTH=F;
echo " L3_TUNNEL_ONLY";
tr 50 M=L3_TUNNEL_ONLY;
tr 51 M=L3_TUNNEL_ONLY;
tr 52 M=L3_TUNNEL_ONLY;
tr 71 M=L3_TUNNEL_ONLY TSE=F SLTH=T;
tr 71 M=L3_TUNNEL_ONLY TSE=T SLTH=T;
tr 71 M=L3_TUNNEL_ONLY TSE=T SLTH=F;
#echo " LINK_STATUS";
#tr 50 M=LINK_STATUS;
#tr 51 M=LINK_STATUS;
#tr 52 M=LINK_STATUS;
#tr 71 M=LINK_STATUS TSE=F SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=F;
echo " LLS_L0_CHILD_STATE1";
tr 50 M=LLS_L0_CHILD_STATE1;
tr 51 M=LLS_L0_CHILD_STATE1;
tr 52 M=LLS_L0_CHILD_STATE1;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L0_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L0_CONFIG";
tr 50 M=LLS_L0_CONFIG;
tr 51 M=LLS_L0_CONFIG;
```

```
tr 52 M=LLS_L0_CONFIG;
tr 71 M=LLS_L0_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=F;
echo " LLS_L0_EF_NEXT";
tr 50 M=LLS_L0_EF_NEXT;
tr 51 M=LLS_L0_EF_NEXT;
tr 52 M=LLS_L0_EF_NEXT;
tr 71 M=LLS_L0_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=F;
echo " LLS_L0_ERROR";
tr 50 M=LLS_L0_ERROR;
tr 51 M=LLS_L0_ERROR;
tr 52 M=LLS_L0_ERROR;
tr 71 M=LLS_L0_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=F;
echo " LLS_L0_ERROR_MIN";
tr 50 M=LLS_L0_ERROR_MIN;
tr 51 M=LLS_L0_ERROR_MIN;
tr 52 M=LLS_L0_ERROR_MIN;
tr 71 M=LLS_L0_ERROR_MIN TSE=F SLTH=T;
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=T;
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=F;
echo " LLS_L0_HEADS_TAILS";
tr 50 M=LLS_L0_HEADS_TAILS;
tr 51 M=LLS_L0_HEADS_TAILS;
tr 52 M=LLS_L0_HEADS_TAILS;
tr 71 M=LLS_L0_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L0_MIN_BUCKET_C";
#tr 50 M=LLS_L0_MIN_BUCKET_C;
#tr 51 M=LLS_L0_MIN_BUCKET_C;
#tr 52 M=LLS_L0_MIN_BUCKET_C;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_MIN_CONFIG_C";
tr 50 M=LLS_L0_MIN_CONFIG_C;
tr 51 M=LLS_L0_MIN_CONFIG_C;
tr 52 M=LLS_L0_MIN_CONFIG_C;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_MIN_NEXT";
tr 50 M=LLS_L0_MIN_NEXT;
```

```
tr 51 M=LLS_L0_MIN_NEXT;
tr 52 M=LLS_L0_MIN_NEXT;
tr 71 M=LLS_L0_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L0_PARENT";
tr 50 M=LLS_L0_PARENT;
tr 51 M=LLS_L0_PARENT;
tr 52 M=LLS_L0_PARENT;
tr 71 M=LLS_L0_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L0_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT TSE=T SLTH=F;
echo " LLS_L0_PARENT_STATE";
tr 50 M=LLS_L0_PARENT_STATE;
tr 51 M=LLS_L0_PARENT_STATE;
tr 52 M=LLS_L0_PARENT_STATE;
tr 71 M=LLS_L0_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_L0_SHAPER_BUCKET_C";
#tr 50 M=LLS_L0_SHAPER_BUCKET_C;
#tr 51 M=LLS_L0_SHAPER_BUCKET_C;
#tr 52 M=LLS_L0_SHAPER_BUCKET_C;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_SHAPER_CONFIG_C";
tr 50 M=LLS_L0_SHAPER_CONFIG_C;
tr 51 M=LLS_L0_SHAPER_CONFIG_C;
tr 52 M=LLS_L0_SHAPER_CONFIG_C;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_WERR_MAX_SC";
tr 50 M=LLS_L0_WERR_MAX_SC;
tr 51 M=LLS_L0_WERR_MAX_SC;
tr 52 M=LLS_L0_WERR_MAX_SC;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L0_WERR_NEXT";
tr 50 M=LLS_L0_WERR_NEXT;
tr 51 M=LLS_L0_WERR_NEXT;
tr 52 M=LLS_L0_WERR_NEXT;
tr 71 M=LLS_L0_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L0_XOFF";
```

```
#tr 50 M=LLS_L0_XOFF;
#tr 51 M=LLS_L0_XOFF;
#tr 52 M=LLS_L0_XOFF;
#tr 71 M=LLS_L0_XOFF TSE=F SLTH=T;
#tr 71 M=LLS_L0_XOFF TSE=T SLTH=T;
#tr 71 M=LLS_L0_XOFF TSE=T SLTH=F;
echo " LLS_L1_CHILD_STATE1";
#tr 50 M=LLS_L1_CHILD_STATE1;
#tr 51 M=LLS_L1_CHILD_STATE1;
#tr 52 M=LLS_L1_CHILD_STATE1;
#tr 71 M=LLS_L1_CHILD_STATE1 TSE=F SLTH=T;
#tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=T;
#tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L1_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L1_CONFIG";
tr 50 M=LLS_L1_CONFIG;
tr 51 M=LLS_L1_CONFIG;
tr 52 M=LLS_L1_CONFIG;
tr 71 M=LLS_L1_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=F;
echo " LLS_L1_EF_NEXT";
tr 50 M=LLS_L1_EF_NEXT;
tr 51 M=LLS_L1_EF_NEXT;
tr 52 M=LLS_L1_EF_NEXT;
tr 71 M=LLS_L1_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=F;
echo " LLS_L1_ERROR";
tr 50 M=LLS_L1_ERROR;
tr 51 M=LLS_L1_ERROR;
tr 52 M=LLS_L1_ERROR;
tr 71 M=LLS_L1_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=F;
echo " LLS_L1_ERROR_MIN";
tr 50 M=LLS_L1_ERROR_MIN;
tr 51 M=LLS_L1_ERROR_MIN;
tr 52 M=LLS_L1_ERROR_MIN;
tr 71 M=LLS_L1_ERROR_MIN TSE=F SLTH=T;
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=T;
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=F;
```

```
echo " LLS_L1_HEADS_TAILS";
tr 50 M=LLS_L1_HEADS_TAILS;
tr 51 M=LLS_L1_HEADS_TAILS;
tr 52 M=LLS_L1_HEADS_TAILS;
tr 71 M=LLS_L1_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L1_MIN_BUCKET_C";
#tr 50 M=LLS_L1_MIN_BUCKET_C;
#tr 51 M=LLS_L1_MIN_BUCKET_C;
#tr 52 M=LLS_L1_MIN_BUCKET_C;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_MIN_CONFIG_C";
tr 50 M=LLS_L1_MIN_CONFIG_C;
tr 51 M=LLS_L1_MIN_CONFIG_C;
tr 52 M=LLS_L1_MIN_CONFIG_C;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_MIN_NEXT";
tr 50 M=LLS_L1_MIN_NEXT;
tr 51 M=LLS_L1_MIN_NEXT;
tr 52 M=LLS_L1_MIN_NEXT;
tr 71 M=LLS_L1_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L1_PARENT";
tr 50 M=LLS_L1_PARENT;
tr 51 M=LLS_L1_PARENT;
tr 52 M=LLS_L1_PARENT;
tr 71 M=LLS_L1_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=F;
echo " LLS_L1_PARENT_STATE";
tr 50 M=LLS_L1_PARENT_STATE;
tr 51 M=LLS_L1_PARENT_STATE;
tr 52 M=LLS_L1_PARENT_STATE;
tr 71 M=LLS_L1_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_L1_SHAPER_BUCKET_C";
#tr 50 M=LLS_L1_SHAPER_BUCKET_C;
#tr 51 M=LLS_L1_SHAPER_BUCKET_C;
#tr 52 M=LLS_L1_SHAPER_BUCKET_C;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=T;
```

```
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_SHAPER_CONFIG_C";
tr 50 M=LLS_L1_SHAPER_CONFIG_C;
tr 51 M=LLS_L1_SHAPER_CONFIG_C;
tr 52 M=LLS_L1_SHAPER_CONFIG_C;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_WERR_MAX_SC";
tr 50 M=LLS_L1_WERR_MAX_SC;
tr 51 M=LLS_L1_WERR_MAX_SC;
tr 52 M=LLS_L1_WERR_MAX_SC;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L1_WERR_NEXT";
tr 50 M=LLS_L1_WERR_NEXT;
tr 51 M=LLS_L1_WERR_NEXT;
tr 52 M=LLS_L1_WERR_NEXT;
tr 71 M=LLS_L1_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L1_XOFF";
#tr 50 M=LLS_L1_XOFF;
#tr 51 M=LLS_L1_XOFF;
#tr 52 M=LLS_L1_XOFF;
#tr 71 M=LLS_L1_XOFF TSE=F SLTH=T;
#tr 71 M=LLS_L1_XOFF TSE=T SLTH=T;
#tr 71 M=LLS_L1_XOFF TSE=T SLTH=F;
echo " LLS_L2_ACT_MIN";
tr 50 M=LLS_L2_ACT_MIN;
tr 51 M=LLS_L2_ACT_MIN;
tr 52 M=LLS_L2_ACT_MIN;
tr 71 M=LLS_L2_ACT_MIN TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=F;
echo " LLS_L2_ACT_SHAPER";
tr 50 M=LLS_L2_ACT_SHAPER;
tr 51 M=LLS_L2_ACT_SHAPER;
tr 52 M=LLS_L2_ACT_SHAPER;
tr 71 M=LLS_L2_ACT_SHAPER TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=F;
echo " LLS_L2_ACT_XON";
tr 50 M=LLS_L2_ACT_XON;
tr 51 M=LLS_L2_ACT_XON;
tr 52 M=LLS_L2_ACT_XON;
tr 71 M=LLS_L2_ACT_XON TSE=F SLTH=T;
```

```
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=F;
echo " LLS_L2_CHILD_STATE1";
tr 50 M=LLS_L2_CHILD_STATE1;
tr 51 M=LLS_L2_CHILD_STATE1;
tr 52 M=LLS_L2_CHILD_STATE1;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L2_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L2_EMPTY_STATE";
tr 50 M=LLS_L2_EMPTY_STATE;
tr 51 M=LLS_L2_EMPTY_STATE;
tr 52 M=LLS_L2_EMPTY_STATE;
tr 71 M=LLS_L2_EMPTY_STATE TSE=F SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=F;
echo " LLS_L2_ERROR";
tr 50 M=LLS_L2_ERROR;
tr 51 M=LLS_L2_ERROR;
tr 52 M=LLS_L2_ERROR;
tr 71 M=LLS_L2_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=F;
echo " LLS_L2_ERROR_MIN";
tr 50 M=LLS_L2_ERROR_MIN;
tr 51 M=LLS_L2_ERROR_MIN;
tr 52 M=LLS_L2_ERROR_MIN;
tr 71 M=LLS_L2_ERROR_MIN TSE=F SLTH=T;
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=T;
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_LOWER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_UPPER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_UPPER_C;
```

```
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_LOWER_C";
tr 50 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 51 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 52 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_UPPER_C";
tr 50 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 51 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 52 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_NEXT";
tr 50 M=LLS_L2_MIN_NEXT;
tr 51 M=LLS_L2_MIN_NEXT;
tr 52 M=LLS_L2_MIN_NEXT;
tr 71 M=LLS_L2_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L2_PARENT";
tr 50 M=LLS_L2_PARENT;
tr 51 M=LLS_L2_PARENT;
tr 52 M=LLS_L2_PARENT;
tr 71 M=LLS_L2_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_LOWER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 51 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_UPPER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 51 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_LOWER";
tr 50 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 51 M=LLS_L2_SHAPER_CONFIG_LOWER;
```

```
tr 52 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_UPPER";
tr 50 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 51 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 52 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=F;
echo " LLS_L2_WERR_NEXT";
tr 50 M=LLS_L2_WERR_NEXT;
tr 51 M=LLS_L2_WERR_NEXT;
tr 52 M=LLS_L2_WERR_NEXT;
tr 71 M=LLS_L2_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=F;
#echo " LLS_L2_XOFF";
#tr 50 M=LLS_L2_XOFF;
#tr 51 M=LLS_L2_XOFF;
#tr 52 M=LLS_L2_XOFF;
#tr 71 M=LLS_L2_XOFF TSE=F SLTH=T;
#tr 71 M=LLS_L2_XOFF TSE=T SLTH=T;
#tr 71 M=LLS_L2_XOFF TSE=T SLTH=F;
echo " LLS_PORT_CONFIG";
tr 50 M=LLS_PORT_CONFIG;
tr 51 M=LLS_PORT_CONFIG;
tr 52 M=LLS_PORT_CONFIG;
tr 71 M=LLS_PORT_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=F;
echo " LLS_PORT_ERROR";
tr 50 M=LLS_PORT_ERROR;
tr 51 M=LLS_PORT_ERROR;
tr 52 M=LLS_PORT_ERROR;
tr 71 M=LLS_PORT_ERROR TSE=F SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=F;
echo " LLS_PORT_HEADS";
tr 50 M=LLS_PORT_HEADS;
tr 51 M=LLS_PORT_HEADS;
tr 52 M=LLS_PORT_HEADS;
tr 71 M=LLS_PORT_HEADS TSE=F SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=F;
echo " LLS_PORT_PARENT_STATE";
tr 50 M=LLS_PORT_PARENT_STATE;
```

```
tr 51 M=LLS_PORT_PARENT_STATE;
tr 52 M=LLS_PORT_PARENT_STATE;
tr 71 M=LLS_PORT_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_PORT_SHAPER_BUCKET_C";
#tr 50 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 51 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 52 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_PORT_SHAPER_CONFIG_C";
tr 50 M=LLS_PORT_SHAPER_CONFIG_C;
tr 51 M=LLS_PORT_SHAPER_CONFIG_C;
tr 52 M=LLS_PORT_SHAPER_CONFIG_C;
tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_PORT_TAILS";
tr 50 M=LLS_PORT_TAILS;
tr 51 M=LLS_PORT_TAILS;
tr 52 M=LLS_PORT_TAILS;
tr 71 M=LLS_PORT_TAILS TSE=F SLTH=T;
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=T;
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=F;
echo " LLS_PORT_TDM";
tr 50 M=LLS_PORT_TDM;
tr 51 M=LLS_PORT_TDM;
tr 52 M=LLS_PORT_TDM;
tr 71 M=LLS_PORT_TDM TSE=F SLTH=T;
tr 71 M=LLS_PORT_TDM TSE=T SLTH=T;
tr 71 M=LLS_PORT_TDM TSE=T SLTH=F;
echo " LLS_PORT_WERR_MAX_SC";
tr 50 M=LLS_PORT_WERR_MAX_SC;
tr 51 M=LLS_PORT_WERR_MAX_SC;
tr 52 M=LLS_PORT_WERR_MAX_SC;
tr 71 M=LLS_PORT_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_PORT_XOFF";
tr 50 M=LLS_PORT_XOFF;
#tr 51 M=LLS_PORT_XOFF;
#tr 52 M=LLS_PORT_XOFF;
tr 71 M=LLS_PORT_XOFF TSE=F SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=F;
echo " LLS_S0_ERROR";
```

```
tr 50 M=LLS_S0_ERROR;
tr 51 M=LLS_S0_ERROR;
tr 52 M=LLS_S0_ERROR;
tr 71 M=LLS_S0_ERROR TSE=F SLTH=T;
tr 71 M=LLS_S0_ERROR TSE=T SLTH=T;
tr 71 M=LLS_S0_ERROR TSE=T SLTH=F;
#echo " LLS_S0_SHAPER_BUCKET_C";
#tr 50 M=LLS_S0_SHAPER_BUCKET_C;
#tr 51 M=LLS_S0_SHAPER_BUCKET_C;
#tr 52 M=LLS_S0_SHAPER_BUCKET_C;
#tr 71 M=LLS_S0_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_S0_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_S0_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_S0_SHAPER_CONFIG_C";
tr 50 M=LLS_S0_SHAPER_CONFIG_C;
tr 51 M=LLS_S0_SHAPER_CONFIG_C;
tr 52 M=LLS_S0_SHAPER_CONFIG_C;
tr 71 M=LLS_S0_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_S0_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_S0_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_S1_CONFIG";
tr 50 M=LLS_S1_CONFIG;
tr 51 M=LLS_S1_CONFIG;
tr 52 M=LLS_S1_CONFIG;
tr 71 M=LLS_S1_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_S1_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_S1_CONFIG TSE=T SLTH=F;
echo " LLS_S1_ERROR";
tr 50 M=LLS_S1_ERROR;
tr 51 M=LLS_S1_ERROR;
tr 52 M=LLS_S1_ERROR;
tr 71 M=LLS_S1_ERROR TSE=F SLTH=T;
tr 71 M=LLS_S1_ERROR TSE=T SLTH=T;
tr 71 M=LLS_S1_ERROR TSE=T SLTH=F;
echo " LLS_S1_HEADS";
tr 50 M=LLS_S1_HEADS;
tr 51 M=LLS_S1_HEADS;
tr 52 M=LLS_S1_HEADS;
tr 71 M=LLS_S1_HEADS TSE=F SLTH=T;
tr 71 M=LLS_S1_HEADS TSE=T SLTH=T;
tr 71 M=LLS_S1_HEADS TSE=T SLTH=F;
echo " LLS_S1_PARENT_STATE";
tr 50 M=LLS_S1_PARENT_STATE;
tr 51 M=LLS_S1_PARENT_STATE;
tr 52 M=LLS_S1_PARENT_STATE;
tr 71 M=LLS_S1_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_S1_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_S1_PARENT_STATE TSE=T SLTH=F;
```

```
#echo " LLS_S1_SHAPER_BUCKET_C";
#tr 50 M=LLS_S1_SHAPER_BUCKET_C;
#tr 51 M=LLS_S1_SHAPER_BUCKET_C;
#tr 52 M=LLS_S1_SHAPER_BUCKET_C;
#tr 71 M=LLS_S1_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_S1_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_S1_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_S1_SHAPER_CONFIG_C";
tr 50 M=LLS_S1_SHAPER_CONFIG_C;
tr 51 M=LLS_S1_SHAPER_CONFIG_C;
tr 52 M=LLS_S1_SHAPER_CONFIG_C;
tr 71 M=LLS_S1_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_S1_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_S1_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_S1_TAILS";
tr 50 M=LLS_S1_TAILS;
tr 51 M=LLS_S1_TAILS;
tr 52 M=LLS_S1_TAILS;
tr 71 M=LLS_S1_TAILS TSE=F SLTH=T;
tr 71 M=LLS_S1_TAILS TSE=T SLTH=T;
tr 71 M=LLS_S1_TAILS TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_1";
tr 50 M=LMEP_1;
tr 51 M=LMEP_1;
tr 52 M=LMEP_1;
tr 71 M=LMEP_1 TSE=F SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=F;
echo " LM_COUNTER_CONTROL";
tr 50 M=LM_COUNTER_CONTROL;
tr 51 M=LM_COUNTER_CONTROL;
tr 52 M=LM_COUNTER_CONTROL;
tr 71 M=LM_COUNTER_CONTROL TSE=F SLTH=T;
tr 71 M=LM_COUNTER_CONTROL TSE=T SLTH=T;
tr 71 M=LM_COUNTER_CONTROL TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=T;
```

```
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MIRROR_CONTROL";
tr 50 M=MIRROR_CONTROL;
tr 51 M=MIRROR_CONTROL;
tr 52 M=MIRROR_CONTROL;
tr 71 M=MIRROR_CONTROL TSE=F SLTH=T;
```

```
tr 71 M=MIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=MIRROR_CONTROL TSE=T SLTH=F;
#echo " MMU_ADM_QUEUE_DB";
#tr 50 M=MMU_ADM_QUEUE_DB;
#tr 51 M=MMU_ADM_QUEUE_DB;
#tr 52 M=MMU_ADM_QUEUE_DB;
#tr 71 M=MMU_ADM_QUEUE_DB TSE=F SLTH=T;
#tr 71 M=MMU_ADM_QUEUE_DB TSE=T SLTH=T;
#tr 71 M=MMU_ADM_QUEUE_DB TSE=T SLTH=F;
echo " MMU_ADM_SRC_CTXT_DB";
tr 50 M=MMU_ADM_SRC_CTXT_DB;
tr 51 M=MMU_ADM_SRC_CTXT_DB;
tr 52 M=MMU_ADM_SRC_CTXT_DB;
tr 71 M=MMU_ADM_SRC_CTXT_DB TSE=F SLTH=T;
tr 71 M=MMU_ADM_SRC_CTXT_DB TSE=T SLTH=T;
tr 71 M=MMU_ADM_SRC_CTXT_DB TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " MMU_AGING_CTR_EXT"; \
   tr 50 M=MMU_AGING_CTR_EXT; \
   tr 51 M=MMU_AGING_CTR_EXT; \
   tr 52 M=MMU_AGING_CTR_EXT; \
   tr 71 M=MMU_AGING_CTR_EXT TSE=F SLTH=T; \
   tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=T; \
   tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=F; \
   $done;'
echo " MMU_AGING_CTR_INT";
tr 50 M=MMU_AGING_CTR_INT;
tr 51 M=MMU_AGING_CTR_INT;
tr 52 M=MMU_AGING_CTR_INT;
tr 71 M=MMU_AGING_CTR_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " MMU_AGING_EXP_EXT"; \
   tr 50 M=MMU_AGING_EXP_EXT; \
   tr 51 M=MMU_AGING_EXP_EXT; \
   tr 52 M=MMU_AGING_EXP_EXT; \
   tr 71 M=MMU_AGING_EXP_EXT TSE=F SLTH=T; \
   tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=T; \
   tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=F; \
   $done;'
echo " MMU_AGING_EXP_INT";
tr 50 M=MMU_AGING_EXP_INT;
tr 51 M=MMU_AGING_EXP_INT;
tr 52 M=MMU_AGING_EXP_INT;
tr 71 M=MMU_AGING_EXP_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=F;
```

```
echo " MMU_AGING_LMT_EXT";
tr 50 M=MMU_AGING_LMT_EXT;
tr 51 M=MMU_AGING_LMT_EXT;
tr 52 M=MMU_AGING_LMT_EXT;
tr 71 M=MMU_AGING_LMT_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=F;
echo " MMU_AGING_LMT_INT";
tr 50 M=MMU_AGING_LMT_INT;
tr 51 M=MMU_AGING_LMT_INT;
tr 52 M=MMU_AGING_LMT_INT;
tr 71 M=MMU_AGING_LMT_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=F;
echo " MMU_CBPI_0";
tr 50 M=MMU_CBPI_0;
tr 51 M=MMU_CBPI_0;
tr 52 M=MMU_CBPI_0;
tr 71 M=MMU_CBPI_0 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_0 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_0 TSE=T SLTH=F;
echo " MMU_CBPI_1";
tr 50 M=MMU_CBPI_1;
tr 51 M=MMU_CBPI_1;
tr 52 M=MMU_CBPI_1;
tr 71 M=MMU_CBPI_1 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_1 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_1 TSE=T SLTH=F;
echo " MMU_CBPI_10";
tr 50 M=MMU_CBPI_10;
tr 51 M=MMU_CBPI_10;
tr 52 M=MMU_CBPI_10;
tr 71 M=MMU_CBPI_10 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_10 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_10 TSE=T SLTH=F;
echo " MMU_CBPI_11";
tr 50 M=MMU_CBPI_11;
tr 51 M=MMU_CBPI_11;
tr 52 M=MMU_CBPI_11;
tr 71 M=MMU_CBPI_11 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_11 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_11 TSE=T SLTH=F;
echo " MMU_CBPI_2";
tr 50 M=MMU_CBPI_2;
tr 51 M=MMU_CBPI_2;
tr 52 M=MMU_CBPI_2;
tr 71 M=MMU_CBPI_2 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_2 TSE=T SLTH=T;
```

```
tr 71 M=MMU_CBPI_2 TSE=T SLTH=F;
echo " MMU_CBPI_3";
tr 50 M=MMU_CBPI_3;
tr 51 M=MMU_CBPI_3;
tr 52 M=MMU_CBPI_3;
tr 71 M=MMU_CBPI_3 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_3 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_3 TSE=T SLTH=F;
echo " MMU_CBPI_4";
tr 50 M=MMU_CBPI_4;
tr 51 M=MMU_CBPI_4;
tr 52 M=MMU_CBPI_4;
tr 71 M=MMU_CBPI_4 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_4 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_4 TSE=T SLTH=F;
echo " MMU_CBPI_5";
tr 50 M=MMU_CBPI_5;
tr 51 M=MMU_CBPI_5;
tr 52 M=MMU_CBPI_5;
tr 71 M=MMU_CBPI_5 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_5 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_5 TSE=T SLTH=F;
echo " MMU_CBPI_6";
tr 50 M=MMU_CBPI_6;
tr 51 M=MMU_CBPI_6;
tr 52 M=MMU_CBPI_6;
tr 71 M=MMU_CBPI_6 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_6 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_6 TSE=T SLTH=F;
echo " MMU_CBPI_7";
tr 50 M=MMU_CBPI_7;
tr 51 M=MMU_CBPI_7;
tr 52 M=MMU_CBPI_7;
tr 71 M=MMU_CBPI_7 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_7 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_7 TSE=T SLTH=F;
echo " MMU_CBPI_8";
tr 50 M=MMU_CBPI_8;
tr 51 M=MMU_CBPI_8;
tr 52 M=MMU_CBPI_8;
tr 71 M=MMU_CBPI_8 TSE=F SLTH=T;
tr 71 M=MMU_CBPI_8 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_8 TSE=T SLTH=F;
echo " MMU_CBPI_9";
tr 50 M=MMU_CBPI_9;
tr 51 M=MMU_CBPI_9;
tr 52 M=MMU_CBPI_9;
tr 71 M=MMU_CBPI_9 TSE=F SLTH=T;
```

```
tr 71 M=MMU_CBPI_9 TSE=T SLTH=T;
tr 71 M=MMU_CBPI_9 TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " MMU_CCPE_MEM"; \
   tr 50 M=MMU_CCPE_MEM; \
   tr 51 M=MMU_CCPE_MEM; \
   tr 52 M=MMU_CCPE_MEM; \
   tr 71 M=MMU_CCPE_MEM TSE=F SLTH=T; \
   tr 71 M=MMU_CCPE_MEM TSE=T SLTH=T; \
   tr 71 M=MMU_CCPE_MEM TSE=T SLTH=F; \
   $done;'
echo " MMU_CCPI_MEM";
tr 50 M=MMU_CCPI_MEM;
tr 51 M=MMU_CCPI_MEM;
tr 52 M=MMU_CCPI_MEM;
tr 71 M=MMU_CCPI_MEM TSE=F SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=F;
#echo " MMU_CELLLINKE";
#tr 50 M=MMU_CELLLINKE;
#tr 51 M=MMU_CELLLINKE;
#tr 52 M=MMU_CELLLINKE;
#tr 71 M=MMU_CELLLINKE TSE=F SLTH=T;
#tr 71 M=MMU_CELLLINKE TSE=T SLTH=T;
#tr 71 M=MMU_CELLLINKE TSE=T SLTH=F;
echo " MMU_CELLLINKI";
tr 50 M=MMU_CELLLINKI;
tr 51 M=MMU_CELLLINKI;
tr 52 M=MMU_CELLLINKI;
tr 71 M=MMU_CELLLINKI TSE=F SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=F;
echo " MMU_CFAPE_BITMAP";
tr 50 M=MMU_CFAPE_BITMAP;
tr 51 M=MMU_CFAPE_BITMAP;
tr 52 M=MMU_CFAPE_BITMAP;
tr 71 M=MMU_CFAPE_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPE_STACK";
tr 50 M=MMU_CFAPE_STACK;
tr 51 M=MMU_CFAPE_STACK;
tr 52 M=MMU_CFAPE_STACK;
tr 71 M=MMU_CFAPE_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=F;
echo " MMU_CFAPI_BITMAP";
tr 50 M=MMU_CFAPI_BITMAP;
```

```
tr 51 M=MMU_CFAPI_BITMAP;
tr 52 M=MMU_CFAPI_BITMAP;
tr 71 M=MMU_CFAPI_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPI_STACK";
tr 50 M=MMU_CFAPI_STACK;
tr 51 M=MMU_CFAPI_STACK;
tr 52 M=MMU_CFAPI_STACK;
tr 71 M=MMU_CFAPI_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=F;
echo " MMU_CHFC_SYSPORT_MAPPING";
tr 50 M=MMU_CHFC_SYSPORT_MAPPING;
tr 51 M=MMU_CHFC_SYSPORT_MAPPING;
tr 52 M=MMU_CHFC_SYSPORT_MAPPING;
tr 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=F SLTH=T;
tr 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=T SLTH=T;
tr 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=T SLTH=F;
echo " MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM";
tr 50 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 51 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 52 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=F SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=F;
#echo " MMU_ENQ_CBP_32B_WR_STORE_0";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_CBP_32B_WR_STORE_1";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=F;
echo " MMU_ENQ_CBP_32B_WR_STORE_2";
tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=F;
echo " MMU_ENQ_CFAPI_INTERNAL_RECYCLE";
```

```
tr 50 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE;
tr 51 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE;
tr 52 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE;
tr 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=F SLTH=T;
tr 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=T SLTH=T;
tr 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=T SLTH=F;
echo " MMU_ENQ_FAP_BITMAP";
tr 50 M=MMU_ENQ_FAP_BITMAP;
tr 51 M=MMU_ENQ_FAP_BITMAP;
tr 52 M=MMU_ENQ_FAP_BITMAP;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=F;
echo " MMU_ENQ_FAP_STACK";
tr 50 M=MMU_ENQ_FAP_STACK;
tr 51 M=MMU_ENQ_FAP_STACK;
tr 52 M=MMU_ENQ_FAP_STACK;
tr 71 M=MMU_ENQ_FAP_STACK TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=F;
echo " MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL";
tr 50 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL;
tr 51 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL;
tr 52 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL;
tr 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=F SLTH=T;
tr 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=T SLTH=T;
tr 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_0";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_1";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_2";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_2;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_2;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_2;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=F;
```

```
#echo " MMU_ENQ_RQE_WR_COMPLETE_3";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_3;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_3;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_3;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_3 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_3 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_3 TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_4";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_4;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_4;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_4;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=T SLTH=F;
echo " MMU_ENQ_RQE_WR_COMPLETE_5";
tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_5;
tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_5;
tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_5;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_5 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_5 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_5 TSE=T SLTH=F;
#echo " MMU_ENQ_SRC_PORT_STATE_0";
#tr 50 M=MMU_ENQ_SRC_PORT_STATE_0;
#tr 51 M=MMU_ENQ_SRC_PORT_STATE_0;
#tr 52 M=MMU_ENQ_SRC_PORT_STATE_0;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_SRC_PORT_STATE_1";
#tr 50 M=MMU_ENQ_SRC_PORT_STATE_1;
#tr 51 M=MMU_ENQ_SRC_PORT_STATE_1;
#tr 52 M=MMU_ENQ_SRC_PORT_STATE_1;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_SRC_PORT_STATE_1 TSE=T SLTH=F;
echo " MMU_ENQ_SRC_PORT_STATE_2";
tr 50 M=MMU_ENQ_SRC_PORT_STATE_2;
tr 51 M=MMU_ENQ_SRC_PORT_STATE_2;
tr 52 M=MMU_ENQ_SRC_PORT_STATE_2;
tr 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=T SLTH=F;
echo " MMU_ENQ_SRC_PPP_TO_S1_LOOKUP";
tr 50 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;
tr 51 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;
tr 52 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;
tr 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=F SLTH=T;
tr 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=T SLTH=T;
```

```
tr 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=T SLTH=F;
echo " MMU_EXT_MC_GROUP_MAP";
tr 50 M=MMU_EXT_MC_GROUP_MAP;
tr 51 M=MMU_EXT_MC_GROUP_MAP;
tr 52 M=MMU_EXT_MC_GROUP_MAP;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST0";
tr 50 M=MMU_EXT_MC_QUEUE_LIST0;
tr 51 M=MMU_EXT_MC_QUEUE_LIST0;
tr 52 M=MMU_EXT_MC_QUEUE_LIST0;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST1";
tr 50 M=MMU_EXT_MC_QUEUE_LIST1;
tr 51 M=MMU_EXT_MC_QUEUE_LIST1;
tr 52 M=MMU_EXT_MC_QUEUE_LIST1;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST4";
tr 50 M=MMU_EXT_MC_QUEUE_LIST4;
tr 51 M=MMU_EXT_MC_QUEUE_LIST4;
tr 52 M=MMU_EXT_MC_QUEUE_LIST4;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=F;
echo " MMU_INTFI_BASE_INDEX_TBL";
tr 50 M=MMU_INTFI_BASE_INDEX_TBL;
tr 51 M=MMU_INTFI_BASE_INDEX_TBL;
tr 52 M=MMU_INTFI_BASE_INDEX_TBL;
tr 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=T SLTH=F;
#echo " MMU_INTFI_DEBUG_MEM";
#tr 50 M=MMU_INTFI_DEBUG_MEM;
#tr 51 M=MMU_INTFI_DEBUG_MEM;
#tr 52 M=MMU_INTFI_DEBUG_MEM;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=F SLTH=T;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=T;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=F;
echo " MMU_INTFI_FC_MAP_TBL0";
tr 50 M=MMU_INTFI_FC_MAP_TBL0;
tr 51 M=MMU_INTFI_FC_MAP_TBL0;
tr 52 M=MMU_INTFI_FC_MAP_TBL0;
tr 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=F SLTH=T;
```

```
tr 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=T SLTH=F;
echo " MMU_INTFI_FC_MAP_TBL1";
tr 50 M=MMU_INTFI_FC_MAP_TBL1;
tr 51 M=MMU_INTFI_FC_MAP_TBL1;
tr 52 M=MMU_INTFI_FC_MAP_TBL1;
tr 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=T SLTH=F;
echo " MMU_INTFI_FC_MAP_TBL2";
tr 50 M=MMU_INTFI_FC_MAP_TBL2;
tr 51 M=MMU_INTFI_FC_MAP_TBL2;
tr 52 M=MMU_INTFI_FC_MAP_TBL2;
tr 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=T SLTH=F;
echo " MMU_INTFI_FC_ST_TBL0";
tr 50 M=MMU_INTFI_FC_ST_TBL0;
tr 51 M=MMU_INTFI_FC_ST_TBL0;
tr 52 M=MMU_INTFI_FC_ST_TBL0;
tr 71 M=MMU_INTFI_FC_ST_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL0 TSE=T SLTH=F;
echo " MMU_INTFI_FC_ST_TBL1";
tr 50 M=MMU_INTFI_FC_ST_TBL1;
tr 51 M=MMU_INTFI_FC_ST_TBL1;
tr 52 M=MMU_INTFI_FC_ST_TBL1;
tr 71 M=MMU_INTFI_FC_ST_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL1 TSE=T SLTH=F;
echo " MMU_INTFI_FC_ST_TBL2";
tr 50 M=MMU_INTFI_FC_ST_TBL2;
tr 51 M=MMU_INTFI_FC_ST_TBL2;
tr 52 M=MMU_INTFI_FC_ST_TBL2;
tr 71 M=MMU_INTFI_FC_ST_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_ST_TBL2 TSE=T SLTH=F;
echo " MMU_INTFI_MERGE_ST_TBL";
tr 50 M=MMU_INTFI_MERGE_ST_TBL;
tr 51 M=MMU_INTFI_MERGE_ST_TBL;
tr 52 M=MMU_INTFI_MERGE_ST_TBL;
tr 71 M=MMU_INTFI_MERGE_ST_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_MERGE_ST_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_MERGE_ST_TBL TSE=T SLTH=F;
echo " MMU_INTFI_OFFSET_MAP_TBL";
tr 50 M=MMU_INTFI_OFFSET_MAP_TBL;
tr 51 M=MMU_INTFI_OFFSET_MAP_TBL;
tr 52 M=MMU_INTFI_OFFSET_MAP_TBL;
```

```
tr 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=T SLTH=F;
#echo " MMU_INTFI_PFC_ST_TBL";
#tr 50 M=MMU_INTFI_PFC_ST_TBL;
#tr 51 M=MMU_INTFI_PFC_ST_TBL;
#tr 52 M=MMU_INTFI_PFC_ST_TBL;
#tr 71 M=MMU_INTFI_PFC_ST_TBL TSE=F SLTH=T;
#tr 71 M=MMU_INTFI_PFC_ST_TBL TSE=T SLTH=T;
#tr 71 M=MMU_INTFI_PFC_ST_TBL TSE=T SLTH=F;
echo " MMU_INTFI_ST_TRANS_TBL";
tr 50 M=MMU_INTFI_ST_TRANS_TBL;
tr 51 M=MMU_INTFI_ST_TRANS_TBL;
tr 52 M=MMU_INTFI_ST_TRANS_TBL;
tr 71 M=MMU_INTFI_ST_TRANS_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_ST_TRANS_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_ST_TRANS_TBL TSE=T SLTH=F;
echo " MMU_INTFO_TC2PRI_MAPPING";
tr 50 M=MMU_INTFO_TC2PRI_MAPPING;
tr 51 M=MMU_INTFO_TC2PRI_MAPPING;
tr 52 M=MMU_INTFO_TC2PRI_MAPPING;
tr 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=F SLTH=T;
tr 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=T SLTH=T;
tr 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=T SLTH=F;
echo " MMU_IPCTR_CTXT_COUNTER_0";
tr 50 M=MMU_IPCTR_CTXT_COUNTER_0;
tr 51 M=MMU_IPCTR_CTXT_COUNTER_0;
tr 52 M=MMU_IPCTR_CTXT_COUNTER_0;
tr 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=F SLTH=T;
tr 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=T SLTH=T;
tr 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=T SLTH=F;
echo " MMU_IPCTR_PG_COUNTER_0";
tr 50 M=MMU_IPCTR_PG_COUNTER_0;
tr 51 M=MMU_IPCTR_PG_COUNTER_0;
tr 52 M=MMU_IPCTR_PG_COUNTER_0;
tr 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=F SLTH=T;
tr 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=T SLTH=T;
tr 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=T SLTH=F;
echo " MMU_IPCTR_PG_COUNTER_1";
tr 50 M=MMU_IPCTR_PG_COUNTER_1;
tr 51 M=MMU_IPCTR_PG_COUNTER_1;
tr 52 M=MMU_IPCTR_PG_COUNTER_1;
tr 71 M=MMU_IPCTR_PG_COUNTER_1 TSE=F SLTH=T;
tr 71 M=MMU_IPCTR_PG_COUNTER_1 TSE=T SLTH=T;
tr 71 M=MMU_IPCTR_PG_COUNTER_1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL0";
tr 50 M=MMU_IPMC_GROUP_TBL0;
tr 51 M=MMU_IPMC_GROUP_TBL0;
```

```
tr 52 M=MMU_IPMC_GROUP_TBL0;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL1";
tr 50 M=MMU_IPMC_GROUP_TBL1;
tr 51 M=MMU_IPMC_GROUP_TBL1;
tr 52 M=MMU_IPMC_GROUP_TBL1;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_ITE_PACKET_PTR_STORE";
tr 50 M=MMU_ITE_PACKET_PTR_STORE;
tr 51 M=MMU_ITE_PACKET_PTR_STORE;
tr 52 M=MMU_ITE_PACKET_PTR_STORE;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=F SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=F;
echo " MMU_ITE_QMGR_FLL";
tr 50 M=MMU_ITE_QMGR_FLL;
tr 51 M=MMU_ITE_QMGR_FLL;
tr 52 M=MMU_ITE_QMGR_FLL;
tr 71 M=MMU_ITE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_ITE_QMGR_QLL";
tr 50 M=MMU_ITE_QMGR_QLL;
```

```
tr 51 M=MMU_ITE_QMGR_QLL;
tr 52 M=MMU_ITE_QMGR_QLL;
tr 71 M=MMU_ITE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_0";
#tr 50 M=MMU_ITE_WORK_QUEUE_0;
#tr 51 M=MMU_ITE_WORK_QUEUE_0;
#tr 52 M=MMU_ITE_WORK_QUEUE_0;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_1";
#tr 50 M=MMU_ITE_WORK_QUEUE_1;
#tr 51 M=MMU_ITE_WORK_QUEUE_1;
#tr 52 M=MMU_ITE_WORK_QUEUE_1;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=F;
echo " MMU_ITE_WORK_QUEUE_2";
tr 50 M=MMU_ITE_WORK_QUEUE_2;
tr 51 M=MMU_ITE_WORK_QUEUE_2;
tr 52 M=MMU_ITE_WORK_QUEUE_2;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=F SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_3";
```

```
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=F;
```

```
echo " MMU_QSTRUCT_QBLOCK_NEXT_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_4";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_5";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_6";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_7";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " MMU_QSTRUCT_QENTRY_LOWER_0"; \
   tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
   tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
   tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
   tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=F SLTH=T; \
```

```
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_1"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_2"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_3"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_4"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_5"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_6"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_7"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
```

```
  tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=F SLTH=T; \
  tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=T; \
  tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=F; \
  $done;'
echo " MMU_QSTRUCT_QENTRY_UPPER_0";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_1";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_2";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_3";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_4";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_5";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_6";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_6;
```

```
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_7";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=F;
echo " MMU_RDE_ADM_DPC_STORE_MEM";
tr 50 M=MMU_RDE_ADM_DPC_STORE_MEM;
tr 51 M=MMU_RDE_ADM_DPC_STORE_MEM;
tr 52 M=MMU_RDE_ADM_DPC_STORE_MEM;
tr 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=F SLTH=T;
tr 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=T SLTH=T;
tr 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=T SLTH=F;
echo " MMU_RDE_ITE_REL_FIFO_MEM";
tr 50 M=MMU_RDE_ITE_REL_FIFO_MEM;
tr 51 M=MMU_RDE_ITE_REL_FIFO_MEM;
tr 52 M=MMU_RDE_ITE_REL_FIFO_MEM;
tr 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=F SLTH=T;
tr 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=T SLTH=T;
tr 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=T SLTH=F;
echo " MMU_RDE_PQE_FIFO_MEM";
tr 50 M=MMU_RDE_PQE_FIFO_MEM;
tr 51 M=MMU_RDE_PQE_FIFO_MEM;
tr 52 M=MMU_RDE_PQE_FIFO_MEM;
tr 71 M=MMU_RDE_PQE_FIFO_MEM TSE=F SLTH=T;
tr 71 M=MMU_RDE_PQE_FIFO_MEM TSE=T SLTH=T;
tr 71 M=MMU_RDE_PQE_FIFO_MEM TSE=T SLTH=F;
echo " MMU_RDE_REAL_CELL_FIFO_MEM";
tr 50 M=MMU_RDE_REAL_CELL_FIFO_MEM;
tr 51 M=MMU_RDE_REAL_CELL_FIFO_MEM;
tr 52 M=MMU_RDE_REAL_CELL_FIFO_MEM;
tr 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=F SLTH=T;
tr 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=T SLTH=T;
tr 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=T SLTH=F;
echo " MMU_RDE_TXQ_FLL";
tr 50 M=MMU_RDE_TXQ_FLL;
tr 51 M=MMU_RDE_TXQ_FLL;
tr 52 M=MMU_RDE_TXQ_FLL;
tr 71 M=MMU_RDE_TXQ_FLL TSE=F SLTH=T;
tr 71 M=MMU_RDE_TXQ_FLL TSE=T SLTH=T;
tr 71 M=MMU_RDE_TXQ_FLL TSE=T SLTH=F;
echo " MMU_RDE_TXQ_QLL";
```

```
tr 50 M=MMU_RDE_TXQ_QLL;
tr 51 M=MMU_RDE_TXQ_QLL;
tr 52 M=MMU_RDE_TXQ_QLL;
tr 71 M=MMU_RDE_TXQ_QLL TSE=F SLTH=T;
tr 71 M=MMU_RDE_TXQ_QLL TSE=T SLTH=T;
tr 71 M=MMU_RDE_TXQ_QLL TSE=T SLTH=F;
echo " MMU_RDE_TXQ_STATE";
tr 50 M=MMU_RDE_TXQ_STATE;
tr 51 M=MMU_RDE_TXQ_STATE;
tr 52 M=MMU_RDE_TXQ_STATE;
tr 71 M=MMU_RDE_TXQ_STATE TSE=F SLTH=T;
tr 71 M=MMU_RDE_TXQ_STATE TSE=T SLTH=T;
tr 71 M=MMU_RDE_TXQ_STATE TSE=T SLTH=F;
echo " MMU_REPL_GRP_TBL0";
tr 50 M=MMU_REPL_GRP_TBL0;
tr 51 M=MMU_REPL_GRP_TBL0;
tr 52 M=MMU_REPL_GRP_TBL0;
tr 71 M=MMU_REPL_GRP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL0 TSE=T SLTH=F;
echo " MMU_REPL_GRP_TBL1";
tr 50 M=MMU_REPL_GRP_TBL1;
tr 51 M=MMU_REPL_GRP_TBL1;
tr 52 M=MMU_REPL_GRP_TBL1;
tr 71 M=MMU_REPL_GRP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL1 TSE=T SLTH=F;
echo " MMU_REPL_GRP_TBL2";
tr 50 M=MMU_REPL_GRP_TBL2;
tr 51 M=MMU_REPL_GRP_TBL2;
tr 52 M=MMU_REPL_GRP_TBL2;
tr 71 M=MMU_REPL_GRP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_REPL_GRP_TBL2 TSE=T SLTH=F;
echo " MMU_REPL_HEAD_TBL";
tr 50 M=MMU_REPL_HEAD_TBL;
tr 51 M=MMU_REPL_HEAD_TBL;
tr 52 M=MMU_REPL_HEAD_TBL;
tr 71 M=MMU_REPL_HEAD_TBL TSE=F SLTH=T;
tr 71 M=MMU_REPL_HEAD_TBL TSE=T SLTH=T;
tr 71 M=MMU_REPL_HEAD_TBL TSE=T SLTH=F;
echo " MMU_REPL_LIST_TBL";
tr 50 M=MMU_REPL_LIST_TBL;
tr 51 M=MMU_REPL_LIST_TBL;
tr 52 M=MMU_REPL_LIST_TBL;
tr 71 M=MMU_REPL_LIST_TBL TSE=F SLTH=T;
tr 71 M=MMU_REPL_LIST_TBL TSE=T SLTH=T;
tr 71 M=MMU_REPL_LIST_TBL TSE=T SLTH=F;
```

```
echo " MMU_REPL_MAP_TBL";
tr 50 M=MMU_REPL_MAP_TBL;
tr 51 M=MMU_REPL_MAP_TBL;
tr 52 M=MMU_REPL_MAP_TBL;
tr 71 M=MMU_REPL_MAP_TBL TSE=F SLTH=T;
tr 71 M=MMU_REPL_MAP_TBL TSE=T SLTH=T;
tr 71 M=MMU_REPL_MAP_TBL TSE=T SLTH=F;
echo " MMU_REPL_STATE_TBL";
tr 50 M=MMU_REPL_STATE_TBL;
tr 51 M=MMU_REPL_STATE_TBL;
tr 52 M=MMU_REPL_STATE_TBL;
tr 71 M=MMU_REPL_STATE_TBL TSE=F SLTH=T;
tr 71 M=MMU_REPL_STATE_TBL TSE=T SLTH=T;
tr 71 M=MMU_REPL_STATE_TBL TSE=T SLTH=F;
echo " MMU_RPFAP_BITMAP";
tr 50 M=MMU_RPFAP_BITMAP;
tr 51 M=MMU_RPFAP_BITMAP;
tr 52 M=MMU_RPFAP_BITMAP;
tr 71 M=MMU_RPFAP_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_RPFAP_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_RPFAP_BITMAP TSE=T SLTH=F;
echo " MMU_RPFAP_STACK";
tr 50 M=MMU_RPFAP_STACK;
tr 51 M=MMU_RPFAP_STACK;
tr 52 M=MMU_RPFAP_STACK;
tr 71 M=MMU_RPFAP_STACK TSE=F SLTH=T;
tr 71 M=MMU_RPFAP_STACK TSE=T SLTH=T;
tr 71 M=MMU_RPFAP_STACK TSE=T SLTH=F;
echo " MMU_RQE_QMGR_FLL";
tr 50 M=MMU_RQE_QMGR_FLL;
tr 51 M=MMU_RQE_QMGR_FLL;
tr 52 M=MMU_RQE_QMGR_FLL;
tr 71 M=MMU_RQE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_RQE_QMGR_QLL";
tr 50 M=MMU_RQE_QMGR_QLL;
tr 51 M=MMU_RQE_QMGR_QLL;
tr 52 M=MMU_RQE_QMGR_QLL;
tr 71 M=MMU_RQE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=F;
echo " MMU_RQE_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
```

```
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MMU_RQE_WORK_QUEUE";
tr 50 M=MMU_RQE_WORK_QUEUE;
tr 51 M=MMU_RQE_WORK_QUEUE;
tr 52 M=MMU_RQE_WORK_QUEUE;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=F SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=F;
echo " MMU_THDO_CTRO_UC_DTYPE";
tr 50 M=MMU_THDO_CTRO_UC_DTYPE;
tr 51 M=MMU_THDO_CTRO_UC_DTYPE;
tr 52 M=MMU_THDO_CTRO_UC_DTYPE;
tr 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=F SLTH=T;
tr 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=T SLTH=T;
tr 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=T SLTH=F;
echo " MMU_THDO_CTRO_UC_PKT_STORE";
tr 50 M=MMU_THDO_CTRO_UC_PKT_STORE;
tr 51 M=MMU_THDO_CTRO_UC_PKT_STORE;
tr 52 M=MMU_THDO_CTRO_UC_PKT_STORE;
tr 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=F SLTH=T;
tr 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=T SLTH=T;
tr 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_CELL";
tr 50 M=MMU_THDO_OPNCONFIG_CELL;
tr 51 M=MMU_THDO_OPNCONFIG_CELL;
tr 52 M=MMU_THDO_OPNCONFIG_CELL;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_QENTRY";
tr 50 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 51 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 52 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNCOUNT_CELL";
tr 50 M=MMU_THDO_OPNCOUNT_CELL;
tr 51 M=MMU_THDO_OPNCOUNT_CELL;
tr 52 M=MMU_THDO_OPNCOUNT_CELL;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_CELL";
tr 50 M=MMU_THDO_OPNOFFSET_CELL;
tr 51 M=MMU_THDO_OPNOFFSET_CELL;
tr 52 M=MMU_THDO_OPNOFFSET_CELL;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=F SLTH=T;
```

```
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_QENTRY";
tr 50 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 51 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 52 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_CELL";
tr 50 M=MMU_THDO_OPNSTATUS_CELL;
tr 51 M=MMU_THDO_OPNSTATUS_CELL;
tr 52 M=MMU_THDO_OPNSTATUS_CELL;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_QENTRY";
tr 50 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 51 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 52 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_CELL";
tr 50 M=MMU_THDO_QCONFIG_CELL;
tr 51 M=MMU_THDO_QCONFIG_CELL;
tr 52 M=MMU_THDO_QCONFIG_CELL;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_QENTRY";
tr 50 M=MMU_THDO_QCONFIG_QENTRY;
tr 51 M=MMU_THDO_QCONFIG_QENTRY;
tr 52 M=MMU_THDO_QCONFIG_QENTRY;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCOUNT_CELL_0";
tr 50 M=MMU_THDO_QCOUNT_CELL_0;
tr 51 M=MMU_THDO_QCOUNT_CELL_0;
tr 52 M=MMU_THDO_QCOUNT_CELL_0;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_CELL";
tr 50 M=MMU_THDO_QOFFSET_CELL;
tr 51 M=MMU_THDO_QOFFSET_CELL;
tr 52 M=MMU_THDO_QOFFSET_CELL;
```

```
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_QENTRY";
tr 50 M=MMU_THDO_QOFFSET_QENTRY;
tr 51 M=MMU_THDO_QOFFSET_QENTRY;
tr 52 M=MMU_THDO_QOFFSET_QENTRY;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_CELL_0";
tr 50 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 51 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 52 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_QENTRY_0";
tr 50 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 51 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 52 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=F;
echo " MMU_THDO_QSTATUS_CELL_0";
tr 50 M=MMU_THDO_QSTATUS_CELL_0;
tr 51 M=MMU_THDO_QSTATUS_CELL_0;
tr 52 M=MMU_THDO_QSTATUS_CELL_0;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QSTATUS_QENTRY_0";
tr 50 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 51 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 52 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=F;
echo " MMU_TOQ_EOPE_TBL";
tr 50 M=MMU_TOQ_EOPE_TBL;
tr 51 M=MMU_TOQ_EOPE_TBL;
tr 52 M=MMU_TOQ_EOPE_TBL;
tr 71 M=MMU_TOQ_EOPE_TBL TSE=F SLTH=T;
tr 71 M=MMU_TOQ_EOPE_TBL TSE=T SLTH=T;
tr 71 M=MMU_TOQ_EOPE_TBL TSE=T SLTH=F;
echo " MMU_TOQ_PORT_STATE_MEM";
tr 50 M=MMU_TOQ_PORT_STATE_MEM;
tr 51 M=MMU_TOQ_PORT_STATE_MEM;
```

```
tr 52 M=MMU_TOQ_PORT_STATE_MEM;
tr 71 M=MMU_TOQ_PORT_STATE_MEM TSE=F SLTH=T;
tr 71 M=MMU_TOQ_PORT_STATE_MEM TSE=T SLTH=T;
tr 71 M=MMU_TOQ_PORT_STATE_MEM TSE=T SLTH=F;
echo " MMU_TOQ_QPACK_MODE";
tr 50 M=MMU_TOQ_QPACK_MODE;
tr 51 M=MMU_TOQ_QPACK_MODE;
tr 52 M=MMU_TOQ_QPACK_MODE;
tr 71 M=MMU_TOQ_QPACK_MODE TSE=F SLTH=T;
tr 71 M=MMU_TOQ_QPACK_MODE TSE=T SLTH=T;
tr 71 M=MMU_TOQ_QPACK_MODE TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM0";
tr 50 M=MMU_TOQ_STATE_MEM0;
tr 51 M=MMU_TOQ_STATE_MEM0;
tr 52 M=MMU_TOQ_STATE_MEM0;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM1";
tr 50 M=MMU_TOQ_STATE_MEM1;
tr 51 M=MMU_TOQ_STATE_MEM1;
tr 52 M=MMU_TOQ_STATE_MEM1;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_0";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_1";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_2";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_3";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3;
```

```
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_4";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_5";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_BUFFER";
tr 50 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 51 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 52 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_QENTRY";
tr 50 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 51 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 52 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_DEQ";
```

```
tr 50 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_ENQ";
tr 50 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_BUFFER";
tr 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 52 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_QENTRY";
tr 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 52 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_DEQ";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=F;
```

```
echo " MMU_WRED_QUEUE_DROP_THD_ENQ_0";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " MMU_WRED_QUEUE_DROP_THD_ENQ_1"; \
   tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1; \
   tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1; \
   tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1; \
   tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=F SLTH=T; \
   tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=T; \
   tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=F; \
   $done;'
echo " MMU_WRED_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_M0";
tr 50 M=MODPORT_MAP_M0;
tr 51 M=MODPORT_MAP_M0;
tr 52 M=MODPORT_MAP_M0;
tr 71 M=MODPORT_MAP_M0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=F;
echo " MODPORT_MAP_M1";
tr 50 M=MODPORT_MAP_M1;
tr 51 M=MODPORT_MAP_M1;
tr 52 M=MODPORT_MAP_M1;
tr 71 M=MODPORT_MAP_M1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=F;
echo " MODPORT_MAP_M2";
tr 50 M=MODPORT_MAP_M2;
tr 51 M=MODPORT_MAP_M2;
tr 52 M=MODPORT_MAP_M2;
tr 71 M=MODPORT_MAP_M2 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=F;
echo " MODPORT_MAP_M3";
tr 50 M=MODPORT_MAP_M3;
tr 51 M=MODPORT_MAP_M3;
tr 52 M=MODPORT_MAP_M3;
```

```
tr 71 M=MODPORT_MAP_M3 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=F;
kt2sanity_ecc_off.soc
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MULTIPASS_LOOPBACK_BITMAP";
tr 50 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 51 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 52 M=MULTIPASS_LOOPBACK_BITMAP;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=F SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=F;
echo " MY_STATION_TCAM";
tr 50 M=MY_STATION_TCAM;
tr 51 M=MY_STATION_TCAM;
tr 52 M=MY_STATION_TCAM;
tr 71 M=MY_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=F;
echo " MY_STATION_TCAM_DATA_ONLY";
tr 50 M=MY_STATION_TCAM_DATA_ONLY;
tr 51 M=MY_STATION_TCAM_DATA_ONLY;
tr 52 M=MY_STATION_TCAM_DATA_ONLY;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=F;
echo " MY_STATION_TCAM_ENTRY_ONLY";
tr 50 M=MY_STATION_TCAM_ENTRY_ONLY;
```

```
tr 51 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 52 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=F;
echo " NHI_GROUP_TC_PROFILE";
tr 50 M=NHI_GROUP_TC_PROFILE;
tr 51 M=NHI_GROUP_TC_PROFILE;
tr 52 M=NHI_GROUP_TC_PROFILE;
tr 71 M=NHI_GROUP_TC_PROFILE TSE=F SLTH=T;
tr 71 M=NHI_GROUP_TC_PROFILE TSE=T SLTH=T;
tr 71 M=NHI_GROUP_TC_PROFILE TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS_0";
tr 50 M=OAM_LM_COUNTERS_0;
tr 51 M=OAM_LM_COUNTERS_0;
tr 52 M=OAM_LM_COUNTERS_0;
tr 71 M=OAM_LM_COUNTERS_0 TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS_0 TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS_0 TSE=T SLTH=F;
echo " OAM_LM_COUNTERS_1";
tr 50 M=OAM_LM_COUNTERS_1;
tr 51 M=OAM_LM_COUNTERS_1;
tr 52 M=OAM_LM_COUNTERS_1;
tr 71 M=OAM_LM_COUNTERS_1 TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS_1 TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS_1 TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PHYSICAL_PORT_BASE_QUEUE";
```

```
tr 50 M=PHYSICAL_PORT_BASE_QUEUE;
tr 51 M=PHYSICAL_PORT_BASE_QUEUE;
tr 52 M=PHYSICAL_PORT_BASE_QUEUE;
tr 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=F SLTH=T;
tr 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=T SLTH=T;
tr 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=T SLTH=F;
echo " PORT_BRIDGE_BMAP";
tr 50 M=PORT_BRIDGE_BMAP;
#tr 51 M=PORT_BRIDGE_BMAP;
#tr 52 M=PORT_BRIDGE_BMAP;
tr 71 M=PORT_BRIDGE_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=F;
echo " PORT_BRIDGE_MIRROR_BMAP";
tr 50 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 51 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 52 M=PORT_BRIDGE_MIRROR_BMAP;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " PORT_CBL_TABLE_MODBASE";
tr 50 M=PORT_CBL_TABLE_MODBASE;
tr 51 M=PORT_CBL_TABLE_MODBASE;
tr 52 M=PORT_CBL_TABLE_MODBASE;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
```

```
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
echo " PP_PORT_GPP_TRANSLATION_1";
tr 50 M=PP_PORT_GPP_TRANSLATION_1;
#tr 51 M=PP_PORT_GPP_TRANSLATION_1;
#tr 52 M=PP_PORT_GPP_TRANSLATION_1;
tr 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=F SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=F;
echo " PP_PORT_GPP_TRANSLATION_2";
tr 50 M=PP_PORT_GPP_TRANSLATION_2;
#tr 51 M=PP_PORT_GPP_TRANSLATION_2;
#tr 52 M=PP_PORT_GPP_TRANSLATION_2;
tr 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=F SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=F;
echo " PP_PORT_GPP_TRANSLATION_3";
tr 50 M=PP_PORT_GPP_TRANSLATION_3;
#tr 51 M=PP_PORT_GPP_TRANSLATION_3;
#tr 52 M=PP_PORT_GPP_TRANSLATION_3;
tr 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=F SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=T SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=T SLTH=F;
echo " PP_PORT_GPP_TRANSLATION_4";
tr 50 M=PP_PORT_GPP_TRANSLATION_4;
#tr 51 M=PP_PORT_GPP_TRANSLATION_4;
#tr 52 M=PP_PORT_GPP_TRANSLATION_4;
tr 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=F SLTH=T;
tr 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=T SLTH=T;
```

```
tr 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=T SLTH=F;
echo " PP_PORT_TO_PHYSICAL_PORT_MAP";
tr 50 M=PP_PORT_TO_PHYSICAL_PORT_MAP;
tr 51 M=PP_PORT_TO_PHYSICAL_PORT_MAP;
tr 52 M=PP_PORT_TO_PHYSICAL_PORT_MAP;
tr 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=F SLTH=T;
tr 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=T SLTH=T;
tr 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=T SLTH=F;
echo " PTP_LABEL_RANGE_PROFILE_TABLE";
tr 50 M=PTP_LABEL_RANGE_PROFILE_TABLE;
tr 51 M=PTP_LABEL_RANGE_PROFILE_TABLE;
tr 52 M=PTP_LABEL_RANGE_PROFILE_TABLE;
tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=F SLTH=T;
tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=T SLTH=T;
tr 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " RTAG7_FLOW_BASED_HASH";
tr 50 M=RTAG7_FLOW_BASED_HASH;
tr 51 M=RTAG7_FLOW_BASED_HASH;
tr 52 M=RTAG7_FLOW_BASED_HASH;
tr 71 M=RTAG7_FLOW_BASED_HASH TSE=F SLTH=T;
tr 71 M=RTAG7_FLOW_BASED_HASH TSE=T SLTH=T;
tr 71 M=RTAG7_FLOW_BASED_HASH TSE=T SLTH=F;
echo " RTAG7_PORT_BASED_HASH";
tr 50 M=RTAG7_PORT_BASED_HASH;
tr 51 M=RTAG7_PORT_BASED_HASH;
tr 52 M=RTAG7_PORT_BASED_HASH;
tr 71 M=RTAG7_PORT_BASED_HASH TSE=F SLTH=T;
tr 71 M=RTAG7_PORT_BASED_HASH TSE=T SLTH=T;
tr 71 M=RTAG7_PORT_BASED_HASH TSE=T SLTH=F;
#echo " RXLP_CHANNEL_CONTROL_BUFFER";
#tr 50 M=RXLP_CHANNEL_CONTROL_BUFFER;
#tr 51 M=RXLP_CHANNEL_CONTROL_BUFFER;
#tr 52 M=RXLP_CHANNEL_CONTROL_BUFFER;
#tr 71 M=RXLP_CHANNEL_CONTROL_BUFFER TSE=F SLTH=T;
#tr 71 M=RXLP_CHANNEL_CONTROL_BUFFER TSE=T SLTH=T;
#tr 71 M=RXLP_CHANNEL_CONTROL_BUFFER TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER0";
tr 50 M=RXLP_DEBUG_COUNTER0;
tr 51 M=RXLP_DEBUG_COUNTER0;
tr 52 M=RXLP_DEBUG_COUNTER0;
tr 71 M=RXLP_DEBUG_COUNTER0 TSE=F SLTH=T;
```

```
tr 71 M=RXLP_DEBUG_COUNTER0 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER0 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER1";
tr 50 M=RXLP_DEBUG_COUNTER1;
tr 51 M=RXLP_DEBUG_COUNTER1;
tr 52 M=RXLP_DEBUG_COUNTER1;
tr 71 M=RXLP_DEBUG_COUNTER1 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER1 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER1 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER10";
tr 50 M=RXLP_DEBUG_COUNTER10;
tr 51 M=RXLP_DEBUG_COUNTER10;
tr 52 M=RXLP_DEBUG_COUNTER10;
tr 71 M=RXLP_DEBUG_COUNTER10 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER10 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER10 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER11";
tr 50 M=RXLP_DEBUG_COUNTER11;
tr 51 M=RXLP_DEBUG_COUNTER11;
tr 52 M=RXLP_DEBUG_COUNTER11;
tr 71 M=RXLP_DEBUG_COUNTER11 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER11 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER11 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER2";
tr 50 M=RXLP_DEBUG_COUNTER2;
tr 51 M=RXLP_DEBUG_COUNTER2;
tr 52 M=RXLP_DEBUG_COUNTER2;
tr 71 M=RXLP_DEBUG_COUNTER2 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER2 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER2 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER3";
tr 50 M=RXLP_DEBUG_COUNTER3;
tr 51 M=RXLP_DEBUG_COUNTER3;
tr 52 M=RXLP_DEBUG_COUNTER3;
tr 71 M=RXLP_DEBUG_COUNTER3 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER3 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER3 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER4";
tr 50 M=RXLP_DEBUG_COUNTER4;
tr 51 M=RXLP_DEBUG_COUNTER4;
tr 52 M=RXLP_DEBUG_COUNTER4;
tr 71 M=RXLP_DEBUG_COUNTER4 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER4 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER4 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER5";
tr 50 M=RXLP_DEBUG_COUNTER5;
tr 51 M=RXLP_DEBUG_COUNTER5;
tr 52 M=RXLP_DEBUG_COUNTER5;
```

```
tr 71 M=RXLP_DEBUG_COUNTER5 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER5 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER5 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER6";
tr 50 M=RXLP_DEBUG_COUNTER6;
tr 51 M=RXLP_DEBUG_COUNTER6;
tr 52 M=RXLP_DEBUG_COUNTER6;
tr 71 M=RXLP_DEBUG_COUNTER6 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER6 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER6 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER7";
tr 50 M=RXLP_DEBUG_COUNTER7;
tr 51 M=RXLP_DEBUG_COUNTER7;
tr 52 M=RXLP_DEBUG_COUNTER7;
tr 71 M=RXLP_DEBUG_COUNTER7 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER7 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER7 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER8";
tr 50 M=RXLP_DEBUG_COUNTER8;
tr 51 M=RXLP_DEBUG_COUNTER8;
tr 52 M=RXLP_DEBUG_COUNTER8;
tr 71 M=RXLP_DEBUG_COUNTER8 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER8 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER8 TSE=T SLTH=F;
echo " RXLP_DEBUG_COUNTER9";
tr 50 M=RXLP_DEBUG_COUNTER9;
tr 51 M=RXLP_DEBUG_COUNTER9;
tr 52 M=RXLP_DEBUG_COUNTER9;
tr 71 M=RXLP_DEBUG_COUNTER9 TSE=F SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER9 TSE=T SLTH=T;
tr 71 M=RXLP_DEBUG_COUNTER9 TSE=T SLTH=F;
echo " RXLP_DFC_MSG_BIT_REMAP_PORT_0";
tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0;
tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0;
tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=F SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=T SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=T SLTH=F;
echo " RXLP_DFC_MSG_BIT_REMAP_PORT_1";
tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1;
tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1;
tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=F SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=T SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=T SLTH=F;
echo " RXLP_DFC_MSG_BIT_REMAP_PORT_2";
tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2;
tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2;
```

```
tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=F SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=T SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=T SLTH=F;
echo " RXLP_DFC_MSG_BIT_REMAP_PORT_3";
tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3;
tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3;
tr 52 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=F SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=T SLTH=T;
tr 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=T SLTH=F;
#echo " RXLP_ERROR_ACTION_MAP_DATA";
#tr 50 M=RXLP_ERROR_ACTION_MAP_DATA;
#tr 51 M=RXLP_ERROR_ACTION_MAP_DATA;
#tr 52 M=RXLP_ERROR_ACTION_MAP_DATA;
#tr 71 M=RXLP_ERROR_ACTION_MAP_DATA TSE=F SLTH=T;
#tr 71 M=RXLP_ERROR_ACTION_MAP_DATA TSE=T SLTH=T;
#tr 71 M=RXLP_ERROR_ACTION_MAP_DATA TSE=T SLTH=F;
#echo " RXLP_ERROR_ACTION_MAP_TCAM";
#tr 50 M=RXLP_ERROR_ACTION_MAP_TCAM;
#tr 51 M=RXLP_ERROR_ACTION_MAP_TCAM;
#tr 52 M=RXLP_ERROR_ACTION_MAP_TCAM;
#tr 71 M=RXLP_ERROR_ACTION_MAP_TCAM TSE=F SLTH=T;
#tr 71 M=RXLP_ERROR_ACTION_MAP_TCAM TSE=T SLTH=T;
#tr 71 M=RXLP_ERROR_ACTION_MAP_TCAM TSE=T SLTH=F;
echo " RXLP_INTERNAL_STREAM_MAP_PORT_0";
tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_0;
tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_0;
tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_0;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=F SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=T SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=T SLTH=F;
echo " RXLP_INTERNAL_STREAM_MAP_PORT_1";
tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_1;
tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_1;
tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_1;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=F SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=T SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=T SLTH=F;
echo " RXLP_INTERNAL_STREAM_MAP_PORT_2";
tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_2;
tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_2;
tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_2;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=F SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=T SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=T SLTH=F;
echo " RXLP_INTERNAL_STREAM_MAP_PORT_3";
tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_3;
```

```
tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_3;
tr 52 M=RXLP_INTERNAL_STREAM_MAP_PORT_3;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=F SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=T SLTH=T;
tr 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=T SLTH=F;
#echo " RXLP_INTR_DATA_MEM";
#tr 50 M=RXLP_INTR_DATA_MEM;
#tr 51 M=RXLP_INTR_DATA_MEM;
#tr 52 M=RXLP_INTR_DATA_MEM;
#tr 71 M=RXLP_INTR_DATA_MEM TSE=F SLTH=T;
#tr 71 M=RXLP_INTR_DATA_MEM TSE=T SLTH=T;
#tr 71 M=RXLP_INTR_DATA_MEM TSE=T SLTH=F;
echo " RXLP_MAX_FRAME_SIZE";
tr 50 M=RXLP_MAX_FRAME_SIZE;
tr 51 M=RXLP_MAX_FRAME_SIZE;
tr 52 M=RXLP_MAX_FRAME_SIZE;
tr 71 M=RXLP_MAX_FRAME_SIZE TSE=F SLTH=T;
tr 71 M=RXLP_MAX_FRAME_SIZE TSE=T SLTH=T;
tr 71 M=RXLP_MAX_FRAME_SIZE TSE=T SLTH=F;
echo " RX_PROT_GROUP_TABLE";
tr 50 M=RX_PROT_GROUP_TABLE;
tr 51 M=RX_PROT_GROUP_TABLE;
tr 52 M=RX_PROT_GROUP_TABLE;
tr 71 M=RX_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " RX_PROT_GROUP_TABLE_1";
tr 50 M=RX_PROT_GROUP_TABLE_1;
tr 51 M=RX_PROT_GROUP_TABLE_1;
tr 52 M=RX_PROT_GROUP_TABLE_1;
tr 71 M=RX_PROT_GROUP_TABLE_1 TSE=F SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_1 TSE=T SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_1 TSE=T SLTH=F;
echo " RX_PROT_GROUP_TABLE_1_DMA";
tr 50 M=RX_PROT_GROUP_TABLE_1_DMA;
tr 51 M=RX_PROT_GROUP_TABLE_1_DMA;
tr 52 M=RX_PROT_GROUP_TABLE_1_DMA;
tr 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=F SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=T SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=T SLTH=F;
echo " RX_PROT_GROUP_TABLE_DMA";
tr 50 M=RX_PROT_GROUP_TABLE_DMA;
tr 51 M=RX_PROT_GROUP_TABLE_DMA;
tr 52 M=RX_PROT_GROUP_TABLE_DMA;
tr 71 M=RX_PROT_GROUP_TABLE_DMA TSE=F SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_DMA TSE=T SLTH=T;
tr 71 M=RX_PROT_GROUP_TABLE_DMA TSE=T SLTH=F;
echo " SERVICE_COS_MAP";
```

```
tr 50 M=SERVICE_COS_MAP;
tr 51 M=SERVICE_COS_MAP;
tr 52 M=SERVICE_COS_MAP;
tr 71 M=SERVICE_COS_MAP TSE=F SLTH=T;
tr 71 M=SERVICE_COS_MAP TSE=T SLTH=T;
tr 71 M=SERVICE_COS_MAP TSE=T SLTH=F;
echo " SER_MEMORY";
tr 50 M=SER_MEMORY;
tr 51 M=SER_MEMORY;
tr 52 M=SER_MEMORY;
tr 71 M=SER_MEMORY TSE=F SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=F;
echo " SER_RESULT_0";
tr 50 M=SER_RESULT_0;
#tr 51 M=SER_RESULT_0;
#tr 52 M=SER_RESULT_0;
tr 71 M=SER_RESULT_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=F;
echo " SER_RESULT_1";
tr 50 M=SER_RESULT_1;
#tr 51 M=SER_RESULT_1;
#tr 52 M=SER_RESULT_1;
tr 71 M=SER_RESULT_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=F;
echo " SER_RESULT_DATA_0";
tr 50 M=SER_RESULT_DATA_0;
#tr 51 M=SER_RESULT_DATA_0;
#tr 52 M=SER_RESULT_DATA_0;
tr 71 M=SER_RESULT_DATA_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=F;
echo " SER_RESULT_DATA_1";
tr 50 M=SER_RESULT_DATA_1;
#tr 51 M=SER_RESULT_DATA_1;
#tr 52 M=SER_RESULT_DATA_1;
tr 71 M=SER_RESULT_DATA_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_0";
tr 50 M=SER_RESULT_EXPECTED_0;
#tr 51 M=SER_RESULT_EXPECTED_0;
#tr 52 M=SER_RESULT_EXPECTED_0;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=F;
```

```
echo " SER_RESULT_EXPECTED_1";
tr 50 M=SER_RESULT_EXPECTED_1;
#tr 51 M=SER_RESULT_EXPECTED_1;
#tr 52 M=SER_RESULT_EXPECTED_1;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY_TABLE";
tr 50 M=SOURCE_MOD_PROXY_TABLE;
tr 51 M=SOURCE_MOD_PROXY_TABLE;
tr 52 M=SOURCE_MOD_PROXY_TABLE;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_MODBASE";
tr 50 M=SOURCE_TRUNK_MAP_MODBASE;
tr 51 M=SOURCE_TRUNK_MAP_MODBASE;
tr 52 M=SOURCE_TRUNK_MAP_MODBASE;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
```

```
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SUBPORT_TAG_TO_PP_PORT_MAP";
tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP;
tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP;
tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=F SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=T SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=T SLTH=F;
echo " SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY";
tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;
tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;
tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=T SLTH=F;
echo " SUBPORT_TAG_TO_PP_PORT_MAP_ONLY";
tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;
tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;
tr 52 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=F SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=T SLTH=T;
tr 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=T SLTH=F;
echo " SVM_MACROFLOW_INDEX_TABLE";
tr 50 M=SVM_MACROFLOW_INDEX_TABLE;
tr 51 M=SVM_MACROFLOW_INDEX_TABLE;
tr 52 M=SVM_MACROFLOW_INDEX_TABLE;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=F SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=F;
echo " SVM_METER_TABLE";
tr 50 M=SVM_METER_TABLE;
tr 51 M=SVM_METER_TABLE;
tr 52 M=SVM_METER_TABLE;
tr 71 M=SVM_METER_TABLE TSE=F SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=F;
echo " SVM_OFFSET_TABLE";
tr 50 M=SVM_OFFSET_TABLE;
tr 51 M=SVM_OFFSET_TABLE;
tr 52 M=SVM_OFFSET_TABLE;
tr 71 M=SVM_OFFSET_TABLE TSE=F SLTH=T;
```

```
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=T;
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=F;
echo " SVM_POLICY_TABLE";
tr 50 M=SVM_POLICY_TABLE;
tr 51 M=SVM_POLICY_TABLE;
tr 52 M=SVM_POLICY_TABLE;
tr 71 M=SVM_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE_MODBASE";
tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
#echo " THDIEMA_THDI_PORT_PG_CNTRS";
#tr 50 M=THDIEMA_THDI_PORT_PG_CNTRS;
#tr 51 M=THDIEMA_THDI_PORT_PG_CNTRS;
#tr 52 M=THDIEMA_THDI_PORT_PG_CNTRS;
#tr 71 M=THDIEMA_THDI_PORT_PG_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_PG_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_PG_CNTRS TSE=T SLTH=F;
#echo " THDIEMA_THDI_PORT_PG_CONFIG";
#tr 50 M=THDIEMA_THDI_PORT_PG_CONFIG;
#tr 51 M=THDIEMA_THDI_PORT_PG_CONFIG;
#tr 52 M=THDIEMA_THDI_PORT_PG_CONFIG;
#tr 71 M=THDIEMA_THDI_PORT_PG_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_PG_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_PG_CONFIG TSE=T SLTH=F;
#echo " THDIEMA_THDI_PORT_SP_CNTRS";
#tr 50 M=THDIEMA_THDI_PORT_SP_CNTRS;
#tr 51 M=THDIEMA_THDI_PORT_SP_CNTRS;
#tr 52 M=THDIEMA_THDI_PORT_SP_CNTRS;
```

```
#tr 71 M=THDIEMA_THDI_PORT_SP_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_SP_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_SP_CNTRS TSE=T SLTH=F;
#echo " THDIEMA_THDI_PORT_SP_CONFIG";
#tr 50 M=THDIEMA_THDI_PORT_SP_CONFIG;
#tr 51 M=THDIEMA_THDI_PORT_SP_CONFIG;
#tr 52 M=THDIEMA_THDI_PORT_SP_CONFIG;
#tr 71 M=THDIEMA_THDI_PORT_SP_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_SP_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIEMA_THDI_PORT_SP_CONFIG TSE=T SLTH=F;
#echo " THDIEXT_THDI_PORT_PG_CNTRS";
#tr 50 M=THDIEXT_THDI_PORT_PG_CNTRS;
#tr 51 M=THDIEXT_THDI_PORT_PG_CNTRS;
#tr 52 M=THDIEXT_THDI_PORT_PG_CNTRS;
#tr 71 M=THDIEXT_THDI_PORT_PG_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_PG_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_PG_CNTRS TSE=T SLTH=F;
#echo " THDIEXT_THDI_PORT_PG_CONFIG";
#tr 50 M=THDIEXT_THDI_PORT_PG_CONFIG;
#tr 51 M=THDIEXT_THDI_PORT_PG_CONFIG;
#tr 52 M=THDIEXT_THDI_PORT_PG_CONFIG;
#tr 71 M=THDIEXT_THDI_PORT_PG_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_PG_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_PG_CONFIG TSE=T SLTH=F;
#echo " THDIEXT_THDI_PORT_SP_CNTRS";
#tr 50 M=THDIEXT_THDI_PORT_SP_CNTRS;
#tr 51 M=THDIEXT_THDI_PORT_SP_CNTRS;
#tr 52 M=THDIEXT_THDI_PORT_SP_CNTRS;
#tr 71 M=THDIEXT_THDI_PORT_SP_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_SP_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_SP_CNTRS TSE=T SLTH=F;
#echo " THDIEXT_THDI_PORT_SP_CONFIG";
#tr 50 M=THDIEXT_THDI_PORT_SP_CONFIG;
#tr 51 M=THDIEXT_THDI_PORT_SP_CONFIG;
#tr 52 M=THDIEXT_THDI_PORT_SP_CONFIG;
#tr 71 M=THDIEXT_THDI_PORT_SP_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_SP_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIEXT_THDI_PORT_SP_CONFIG TSE=T SLTH=F;
#echo " THDIQEN_THDI_PORT_PG_CNTRS";
#tr 50 M=THDIQEN_THDI_PORT_PG_CNTRS;
#tr 51 M=THDIQEN_THDI_PORT_PG_CNTRS;
#tr 52 M=THDIQEN_THDI_PORT_PG_CNTRS;
#tr 71 M=THDIQEN_THDI_PORT_PG_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_PG_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_PG_CNTRS TSE=T SLTH=F;
#echo " THDIQEN_THDI_PORT_PG_CONFIG";
#tr 50 M=THDIQEN_THDI_PORT_PG_CONFIG;
#tr 51 M=THDIQEN_THDI_PORT_PG_CONFIG;
```

```
#tr 52 M=THDIQEN_THDI_PORT_PG_CONFIG;
#tr 71 M=THDIQEN_THDI_PORT_PG_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_PG_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_PG_CONFIG TSE=T SLTH=F;
#echo " THDIQEN_THDI_PORT_SP_CNTRS";
#tr 50 M=THDIQEN_THDI_PORT_SP_CNTRS;
#tr 51 M=THDIQEN_THDI_PORT_SP_CNTRS;
#tr 52 M=THDIQEN_THDI_PORT_SP_CNTRS;
#tr 71 M=THDIQEN_THDI_PORT_SP_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_SP_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_SP_CNTRS TSE=T SLTH=F;
#echo " THDIQEN_THDI_PORT_SP_CONFIG";
#tr 50 M=THDIQEN_THDI_PORT_SP_CONFIG;
#tr 51 M=THDIQEN_THDI_PORT_SP_CONFIG;
#tr 52 M=THDIQEN_THDI_PORT_SP_CONFIG;
#tr 71 M=THDIQEN_THDI_PORT_SP_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_SP_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIQEN_THDI_PORT_SP_CONFIG TSE=T SLTH=F;
#echo " THDIRQE_THDI_PORT_PG_CNTRS";
#tr 50 M=THDIRQE_THDI_PORT_PG_CNTRS;
#tr 51 M=THDIRQE_THDI_PORT_PG_CNTRS;
#tr 52 M=THDIRQE_THDI_PORT_PG_CNTRS;
#tr 71 M=THDIRQE_THDI_PORT_PG_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_PG_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_PG_CNTRS TSE=T SLTH=F;
#echo " THDIRQE_THDI_PORT_PG_CONFIG";
#tr 50 M=THDIRQE_THDI_PORT_PG_CONFIG;
#tr 51 M=THDIRQE_THDI_PORT_PG_CONFIG;
#tr 52 M=THDIRQE_THDI_PORT_PG_CONFIG;
#tr 71 M=THDIRQE_THDI_PORT_PG_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_PG_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_PG_CONFIG TSE=T SLTH=F;
#echo " THDIRQE_THDI_PORT_SP_CNTRS";
#tr 50 M=THDIRQE_THDI_PORT_SP_CNTRS;
#tr 51 M=THDIRQE_THDI_PORT_SP_CNTRS;
#tr 52 M=THDIRQE_THDI_PORT_SP_CNTRS;
#tr 71 M=THDIRQE_THDI_PORT_SP_CNTRS TSE=F SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_SP_CNTRS TSE=T SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_SP_CNTRS TSE=T SLTH=F;
#echo " THDIRQE_THDI_PORT_SP_CONFIG";
#tr 50 M=THDIRQE_THDI_PORT_SP_CONFIG;
#tr 51 M=THDIRQE_THDI_PORT_SP_CONFIG;
#tr 52 M=THDIRQE_THDI_PORT_SP_CONFIG;
#tr 71 M=THDIRQE_THDI_PORT_SP_CONFIG TSE=F SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_SP_CONFIG TSE=T SLTH=T;
#tr 71 M=THDIRQE_THDI_PORT_SP_CONFIG TSE=T SLTH=F;
#echo " THDI_PORT_PG_CNTRS";
#tr 50 M=THDI_PORT_PG_CNTRS;
```

```
#tr 51 M=THDI_PORT_PG_CNTRS;
#tr 52 M=THDI_PORT_PG_CNTRS;
#tr 71 M=THDI_PORT_PG_CNTRS TSE=F SLTH=T;
#tr 71 M=THDI_PORT_PG_CNTRS TSE=T SLTH=T;
#tr 71 M=THDI_PORT_PG_CNTRS TSE=T SLTH=F;
#echo " THDI_PORT_PG_CONFIG";
#tr 50 M=THDI_PORT_PG_CONFIG;
#tr 51 M=THDI_PORT_PG_CONFIG;
#tr 52 M=THDI_PORT_PG_CONFIG;
#tr 71 M=THDI_PORT_PG_CONFIG TSE=F SLTH=T;
#tr 71 M=THDI_PORT_PG_CONFIG TSE=T SLTH=T;
#tr 71 M=THDI_PORT_PG_CONFIG TSE=T SLTH=F;
#echo " THDI_PORT_SP_CNTRS";
#tr 50 M=THDI_PORT_SP_CNTRS;
#tr 51 M=THDI_PORT_SP_CNTRS;
#tr 52 M=THDI_PORT_SP_CNTRS;
#tr 71 M=THDI_PORT_SP_CNTRS TSE=F SLTH=T;
#tr 71 M=THDI_PORT_SP_CNTRS TSE=T SLTH=T;
#tr 71 M=THDI_PORT_SP_CNTRS TSE=T SLTH=F;
#echo " THDI_PORT_SP_CONFIG";
#tr 50 M=THDI_PORT_SP_CONFIG;
#tr 51 M=THDI_PORT_SP_CONFIG;
#tr 52 M=THDI_PORT_SP_CONFIG;
#tr 71 M=THDI_PORT_SP_CONFIG TSE=F SLTH=T;
#tr 71 M=THDI_PORT_SP_CONFIG TSE=T SLTH=T;
#tr 71 M=THDI_PORT_SP_CONFIG TSE=T SLTH=F;
echo " THDO_OPNCOUNT_QENTRY";
tr 50 M=THDO_OPNCOUNT_QENTRY;
tr 51 M=THDO_OPNCOUNT_QENTRY;
tr 52 M=THDO_OPNCOUNT_QENTRY;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=F SLTH=T;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=T;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " THDO_QCOUNT_CELL_1"; \
   tr 50 M=THDO_QCOUNT_CELL_1; \
   tr 51 M=THDO_QCOUNT_CELL_1; \
   tr 52 M=THDO_QCOUNT_CELL_1; \
   tr 71 M=THDO_QCOUNT_CELL_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=F; \
   $done;'
echo " THDO_QCOUNT_QENTRY_0";
tr 50 M=THDO_QCOUNT_QENTRY_0;
tr 51 M=THDO_QCOUNT_QENTRY_0;
tr 52 M=THDO_QCOUNT_QENTRY_0;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=T;
```

```
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=F;
if !$?LIKE_BCM56456 \
  'echo " THDO_QCOUNT_QENTRY_1"; \
   tr 50 M=THDO_QCOUNT_QENTRY_1; \
   tr 51 M=THDO_QCOUNT_QENTRY_1; \
   tr 52 M=THDO_QCOUNT_QENTRY_1; \
   tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=F; \
   echo " THDO_QRESET_VALUE_CELL_1"; \
   tr 50 M=THDO_QRESET_VALUE_CELL_1; \
   tr 51 M=THDO_QRESET_VALUE_CELL_1; \
   tr 52 M=THDO_QRESET_VALUE_CELL_1; \
   tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=F; \
   echo " THDO_QRESET_VALUE_QENTRY_1"; \
   tr 50 M=THDO_QRESET_VALUE_QENTRY_1; \
   tr 51 M=THDO_QRESET_VALUE_QENTRY_1; \
   tr 52 M=THDO_QRESET_VALUE_QENTRY_1; \
   tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=F; \
   echo " THDO_QSTATUS_CELL_1"; \
   tr 50 M=THDO_QSTATUS_CELL_1; \
   tr 51 M=THDO_QSTATUS_CELL_1; \
   tr 52 M=THDO_QSTATUS_CELL_1; \
   tr 71 M=THDO_QSTATUS_CELL_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=F; \
   echo " THDO_QSTATUS_QENTRY_1"; \
   tr 50 M=THDO_QSTATUS_QENTRY_1; \
   tr 51 M=THDO_QSTATUS_QENTRY_1; \
   tr 52 M=THDO_QSTATUS_QENTRY_1; \
   tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=F SLTH=T; \
   tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=T; \
   tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=F; \
   done;'
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
```

```
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TRUNK_MEMBER";
tr 50 M=TRUNK_MEMBER;
tr 51 M=TRUNK_MEMBER;
tr 52 M=TRUNK_MEMBER;
tr 71 M=TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER0";
tr 50 M=TXLP_DEBUG_COUNTER0;
tr 51 M=TXLP_DEBUG_COUNTER0;
tr 52 M=TXLP_DEBUG_COUNTER0;
tr 71 M=TXLP_DEBUG_COUNTER0 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER0 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER0 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER1";
tr 50 M=TXLP_DEBUG_COUNTER1;
tr 51 M=TXLP_DEBUG_COUNTER1;
tr 52 M=TXLP_DEBUG_COUNTER1;
tr 71 M=TXLP_DEBUG_COUNTER1 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER1 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER1 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER10";
tr 50 M=TXLP_DEBUG_COUNTER10;
```

```
tr 51 M=TXLP_DEBUG_COUNTER10;
tr 52 M=TXLP_DEBUG_COUNTER10;
tr 71 M=TXLP_DEBUG_COUNTER10 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER10 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER10 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER11";
tr 50 M=TXLP_DEBUG_COUNTER11;
tr 51 M=TXLP_DEBUG_COUNTER11;
tr 52 M=TXLP_DEBUG_COUNTER11;
tr 71 M=TXLP_DEBUG_COUNTER11 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER11 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER11 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER2";
tr 50 M=TXLP_DEBUG_COUNTER2;
tr 51 M=TXLP_DEBUG_COUNTER2;
tr 52 M=TXLP_DEBUG_COUNTER2;
tr 71 M=TXLP_DEBUG_COUNTER2 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER2 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER2 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER3";
tr 50 M=TXLP_DEBUG_COUNTER3;
tr 51 M=TXLP_DEBUG_COUNTER3;
tr 52 M=TXLP_DEBUG_COUNTER3;
tr 71 M=TXLP_DEBUG_COUNTER3 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER3 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER3 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER4";
tr 50 M=TXLP_DEBUG_COUNTER4;
tr 51 M=TXLP_DEBUG_COUNTER4;
tr 52 M=TXLP_DEBUG_COUNTER4;
tr 71 M=TXLP_DEBUG_COUNTER4 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER4 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER4 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER5";
tr 50 M=TXLP_DEBUG_COUNTER5;
tr 51 M=TXLP_DEBUG_COUNTER5;
tr 52 M=TXLP_DEBUG_COUNTER5;
tr 71 M=TXLP_DEBUG_COUNTER5 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER5 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER5 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER6";
tr 50 M=TXLP_DEBUG_COUNTER6;
tr 51 M=TXLP_DEBUG_COUNTER6;
tr 52 M=TXLP_DEBUG_COUNTER6;
tr 71 M=TXLP_DEBUG_COUNTER6 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER6 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER6 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER7";
```

```
tr 50 M=TXLP_DEBUG_COUNTER7;
tr 51 M=TXLP_DEBUG_COUNTER7;
tr 52 M=TXLP_DEBUG_COUNTER7;
tr 71 M=TXLP_DEBUG_COUNTER7 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER7 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER7 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER8";
tr 50 M=TXLP_DEBUG_COUNTER8;
tr 51 M=TXLP_DEBUG_COUNTER8;
tr 52 M=TXLP_DEBUG_COUNTER8;
tr 71 M=TXLP_DEBUG_COUNTER8 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER8 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER8 TSE=T SLTH=F;
echo " TXLP_DEBUG_COUNTER9";
tr 50 M=TXLP_DEBUG_COUNTER9;
tr 51 M=TXLP_DEBUG_COUNTER9;
tr 52 M=TXLP_DEBUG_COUNTER9;
tr 71 M=TXLP_DEBUG_COUNTER9 TSE=F SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER9 TSE=T SLTH=T;
tr 71 M=TXLP_DEBUG_COUNTER9 TSE=T SLTH=F;
echo " TXLP_INT2EXT_STREAM_MAP_TABLE";
tr 50 M=TXLP_INT2EXT_STREAM_MAP_TABLE;
tr 51 M=TXLP_INT2EXT_STREAM_MAP_TABLE;
tr 52 M=TXLP_INT2EXT_STREAM_MAP_TABLE;
tr 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=F SLTH=T;
tr 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=T SLTH=T;
tr 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=T SLTH=F;
echo " TXLP_PORT_ADDR_MAP_TABLE";
tr 50 M=TXLP_PORT_ADDR_MAP_TABLE;
tr 51 M=TXLP_PORT_ADDR_MAP_TABLE;
tr 52 M=TXLP_PORT_ADDR_MAP_TABLE;
tr 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=F SLTH=T;
tr 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=T SLTH=T;
tr 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=T SLTH=F;
#echo " TXLP_PORT_MMU_REQUESTS";
#tr 50 M=TXLP_PORT_MMU_REQUESTS;
#tr 51 M=TXLP_PORT_MMU_REQUESTS;
#tr 52 M=TXLP_PORT_MMU_REQUESTS;
#tr 71 M=TXLP_PORT_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=TXLP_PORT_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=TXLP_PORT_MMU_REQUESTS TSE=T SLTH=F;
#echo " TXLP_PORT_REQUESTS";
#tr 50 M=TXLP_PORT_REQUESTS;
#tr 51 M=TXLP_PORT_REQUESTS;
#tr 52 M=TXLP_PORT_REQUESTS;
#tr 71 M=TXLP_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=TXLP_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=TXLP_PORT_REQUESTS TSE=T SLTH=F;
```

```
echo " TXLP_PORT_STREAM_BITMAP_TABLE";
tr 50 M=TXLP_PORT_STREAM_BITMAP_TABLE;
tr 51 M=TXLP_PORT_STREAM_BITMAP_TABLE;
tr 52 M=TXLP_PORT_STREAM_BITMAP_TABLE;
tr 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=F SLTH=T;
tr 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=T SLTH=T;
tr 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=T SLTH=F;
#echo " TXLP_PORT_USED_ENTRIES";
#tr 50 M=TXLP_PORT_USED_ENTRIES;
#tr 51 M=TXLP_PORT_USED_ENTRIES;
#tr 52 M=TXLP_PORT_USED_ENTRIES;
#tr 71 M=TXLP_PORT_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=TXLP_PORT_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=TXLP_PORT_USED_ENTRIES TSE=T SLTH=F;
echo " TXLP_STREAM_ADDR_MAP_TABLE";
tr 50 M=TXLP_STREAM_ADDR_MAP_TABLE;
tr 51 M=TXLP_STREAM_ADDR_MAP_TABLE;
tr 52 M=TXLP_STREAM_ADDR_MAP_TABLE;
tr 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=F SLTH=T;
tr 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=T SLTH=T;
tr 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=T SLTH=F;
#echo " TXLP_STREAM_MMU_REQUESTS";
#tr 50 M=TXLP_STREAM_MMU_REQUESTS;
#tr 51 M=TXLP_STREAM_MMU_REQUESTS;
#tr 52 M=TXLP_STREAM_MMU_REQUESTS;
#tr 71 M=TXLP_STREAM_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=TXLP_STREAM_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=TXLP_STREAM_MMU_REQUESTS TSE=T SLTH=F;
#echo " TXLP_STREAM_USED_ENTRIES";
#tr 50 M=TXLP_STREAM_USED_ENTRIES;
#tr 51 M=TXLP_STREAM_USED_ENTRIES;
#tr 52 M=TXLP_STREAM_USED_ENTRIES;
#tr 71 M=TXLP_STREAM_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=TXLP_STREAM_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=TXLP_STREAM_USED_ENTRIES TSE=T SLTH=F;
echo " UDF_CONDITIONAL_CHECK_TABLE_CAM";
tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM;
tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM;
tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_CAM;
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=F SLTH=T;
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=T SLTH=T;
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=T SLTH=F;
echo " UDF_CONDITIONAL_CHECK_TABLE_RAM";
tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM;
tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM;
tr 52 M=UDF_CONDITIONAL_CHECK_TABLE_RAM;
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=F SLTH=T;
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=T SLTH=T;
```

```
tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=T SLTH=F;
echo " UNKNOWN_HGI_BITMAP";
tr 50 M=UNKNOWN_HGI_BITMAP;
tr 51 M=UNKNOWN_HGI_BITMAP;
tr 52 M=UNKNOWN_HGI_BITMAP;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=F SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=F;
echo " UNKNOWN_MCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " UNKNOWN_UCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_HASH_FIELD_BMAP_TABLE_A";
tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A;
tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A;
tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_A;
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=F SLTH=T;
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=T SLTH=T;
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=T SLTH=F;
echo " VFP_HASH_FIELD_BMAP_TABLE_B";
tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B;
tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B;
tr 52 M=VFP_HASH_FIELD_BMAP_TABLE_B;
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=F SLTH=T;
```

```
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=T SLTH=T;
tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_OVERFLOW";
tr 50 M=VLAN_MAC_OVERFLOW;
tr 51 M=VLAN_MAC_OVERFLOW;
tr 52 M=VLAN_MAC_OVERFLOW;
tr 71 M=VLAN_MAC_OVERFLOW TSE=F SLTH=T;
tr 71 M=VLAN_MAC_OVERFLOW TSE=T SLTH=T;
tr 71 M=VLAN_MAC_OVERFLOW TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
```

```
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
```

```
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_OVERFLOW";
tr 50 M=VLAN_XLATE_OVERFLOW;
tr 51 M=VLAN_XLATE_OVERFLOW;
tr 52 M=VLAN_XLATE_OVERFLOW;
tr 71 M=VLAN_XLATE_OVERFLOW TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_OVERFLOW TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_OVERFLOW TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " XPORT_WC_UCMEM_DATA";
#tr 50 M=XPORT_WC_UCMEM_DATA;
#tr 51 M=XPORT_WC_UCMEM_DATA;
#tr 52 M=XPORT_WC_UCMEM_DATA;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rctest=true
set rcload=true
rcload rc.soc
counter off
l2mode off
linkscan off
```

```
echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

if !$?LIKE_BCM56248 \
  'echo "Running L2 hash test ..."; \
   tr 34; \
   $done; \
   echo "Running L2 delete by port test ..."; \
   tr 35; \
   $done; \
   echo "Running L2 delete by vlan test ..."; \
   tr 36; \
   $done;'

if !$?LIKE_BCM55455 && $?run_full_sanity \
  'echo "Running IPV4 overflow insert test ..."; \
   tr 87 IPMCEnable=False; \
   tr 87 IPMCEnable=True; \
   $done; \
   echo "Running IPV6 hash test ..."; \
   tr 88 IPMCEnable=False; \
   tr 88 IPMCEnable=True; \
   $done; \
   echo "Running IPV6 overflow insert test ..."; \
   tr 85 IPMCEnable=False; \
   tr 85 IPMCEnable=True; \
   $done; \
   echo "Running IPV6 hash test ..."; \
   tr 86 IPMCEnable=False; \
   tr 86 IPMCEnable=True; \
   $done;'

echo "Running VLAN translate overflow insert test ..."
tr 100;
```

```
$done;

if $?run_full_sanity \
  'echo "Running VLAN translate hash tests ..."; \
   rc; \
   tr 101 hash=0; \
   tr 101 hash=1; \
   tr 101 hash=2; \
   tr 101 hash=3; \
   tr 101 hash=4; \
   tr 101 hash=5; \
   $done;'

echo "Running Egress VLAN translate overflow insert test ..."
tr 102;
$done;

if $?run_full_sanity \
  'echo "Running Egress VLAN translate hash tests ..."; \
   rc; \
   tr 103 hash=0; \
   tr 103 hash=1; \
   tr 103 hash=2; \
   tr 103 hash=3; \
   tr 103 hash=4; \
   tr 103 hash=5; \
   $done;'

if $?run_full_sanity \
  'echo "Running MPLS overflow insert test ..."; \
   tr 104; \
   $done;'

if $?run_full_sanity \
  'echo "Running MPLS hash tests ..."; \
   tr 105 hash=0; \
   tr 105 hash=1; \
   tr 105 hash=2; \
   tr 105 hash=3; \
   tr 105 hash=4; \
   tr 105 hash=5; \
   $done;'

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

rc
```

```
if $?run_full_sanity \
  'echo "Testing CPU DMA loopback ..."; \
   tr 17 c=5; \
   $done;'

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Reload ..."; \
   tr 22; \
   $done;'

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Simple ..."; \
   tr 23; \
   $done;'

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Random ..."; \
   tr 24; \
   $done;'

#Internal snake Loopback
if $?BCM56452_B0 || $?BCM56455_B0 || $?BCM56457_B0 \
  'echo "Running internal snake on all ports, MAC loopback ..."; \
   tr 39 loopbackmode=mac snakepath=two PBM=e; \
   echo "Running internal snake on all ports, PHY loopback ..."; \
   tr 39 loopbackmode=phy snakepath=two PBM=e; \
   $done; ' \
else \
  'echo "Running internal snake on all ports, MAC loopback ..."; \
   tr 39 loopbackmode=mac snakepath=two PBM=xe; \
   echo "Running internal snake on all ports, PHY loopback ..."; \
   tr 39 loopbackmode=phy snakepath=two PBM=xe; \
   $done;'

if $?run_full_sanity \
  'echo "Running Mac loopback test case on ge port ..."; \
   tr 18 pbm=xe speed=10G; \
   $done;'

if $?run_full_sanity "local phy_mode none" else "local phy_mode ge"


echo "Running PHY External loopback test case on ge port ..."
if $?BCM56455_A0 || $?BCM56455_B0 \
  'tr 19 pbm=ge epbm=none; \
   $done; ' \
else \
```

```
  'tr 19 pbm=ge epbm=$phy_mode; \
   $done;'

if $?run_full_sanity \
  'echo "Running MAC loopback V2 on all ports ..."; \
   tr 48 pbm=e smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single; \
   $done;'

if $?run_full_sanity \
  'echo "Running PHY loopback V2 on all ports ..."; \
   tr 49 pbm=e smi=52 dmi=83 vlan=23 pi=0x01204007; \
   $done;'

#Traffic Test
if $?run_full_sanity "local ext_phy_mode MAC" else "local ext_phy_mode external"

echo "Running Traffic Test in external mode on xe port..."
if $?BCM56455_A0 || $?BCM56455_B0 \
  'tr 72 RM=$ext_phy_mode PBM=hg; \
   $done; ' \
else \
  'tr 72 RM=$ext_phy_mode PBM=xe; \
   $done; '

#SNMP
if $?run_full_sanity \
  'echo "SNMP MIB Object Test"; \
   tr 73; \
   $done;'

#Reload Test
#echo "TX Reload Test"
#tr 90
#$done

#echo "RX Reload Test"
#tr 91
#$done

echo "Running Software Error Recovery Test ..."
config add parity_enable=1
rc
linkscan off
tr 144;
$done;
config add parity_enable=0;
config parity_enable=0;
```

```
if !$?LIKE_BCM56456 \
  'echo "DDR memory Test"; \
   config add pbmp_ext_mem=0x2222; \
   rc; \
   ddrphytune $CIs plot=false ct=1 pt=1; \
   tr 140 dn=$DNs ww=255 rw=255 bna=1000000 ea=0xffffff pm=1; \
   config delete pbmp_ext_mem; \
   $done; '

set rct=t; set rcl=t;
# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/kt2sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_x.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_x.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  phy8806x_tsc_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: phy8806x_tsc_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_oam_mep_db.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/QAX_PP/qax_pp_oam_mep_db.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_rtp.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_rtp.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_mim_learn_info_set.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mim_learn_info_set.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_general_utils.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_general_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* Table that encodes the srom formats for PCI/PCIe NICs.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom_tbl.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmsrom_tbl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_531.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-5.3.1 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/compat/compat_531.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_cell.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* In-band cell configuration and Source Routed Cell.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv4Console.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv4Console.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shell.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    sh.h
* Purpose:    Types and structures for command table entires and
*        command return values for cshell commands.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/shell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84754_ucode.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84754_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name  :  merlin16_select_defns.h
*  Created On :  29 Sep 2015
*  Created By :  Brent Roberts
*  Description:  Select header files for IP-specific definitions
*  Revision   :
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  No portions of this material may be reproduced in any form without
*  the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
*  All information contained in this document is Broadcom Corporation
*  company private proprietary, and trade secret.
*
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_select_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_elements.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_elements.c
No license file was found, but licenses were detected in source scan.

```
/*
* OS Abstraction Layer for Switch Management API subsystem.
* $Id: osl_vxworks.c,v 1.3 2007/10/08 22:31:08 iakramov Exp $
```

```
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/osl_vxworks.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in Self Test for ARL, L3, and CBP memories
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/bist.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sweep_app_b.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_sweep_app_b.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: led.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/led.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVIT.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVIT.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_shim.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip to core API shim layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_shim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200NmEmapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NmEmapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200NmEmapEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1WstEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1WstEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWctEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWctEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwWctEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ports.c,v 1.230 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_ports.c
No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;
```

```
# VALID memories

local mem DLB_HGT_FLOWSET;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;                $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;                $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;   $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;   $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;   $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CCP_MEM;                          $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                        $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                           $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                         $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                          $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;

local mem MPLS_ENTRY;                           $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                     $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                     $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                         $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                          $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                          $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                     $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                              $name; $tr50;
local mem CPU_PBM_2;                            $name; $tr50;
local mem CPU_TS_MAP;                           $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                     $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                     $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                   $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                      $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                       $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                       $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_RR_SELECTION_POINTER;                    $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                    $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_FCOE_CONTROL_1;                    $name; $tr50;
#n/a - local mem EGR_FC_HEADER_TYPE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                         $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                           $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                               $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                              $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                              $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                         $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                         $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                                $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                            $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                          $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_LPORT_PROFILE;                  $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                         $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                           $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                   $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                   $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;           $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;           $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                             $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                        $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                      $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;               $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;              $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                            $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                      $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                            $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                       $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                 $name; $tr50;
#local mem EGR_SER_FIFO;                 $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;                 $name; $tr50;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                 $name; $tr50;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_PRI_MAP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                 $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                 $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                 $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                 $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                 $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                 $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                 $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                 $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;           $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                           $name; $tr50; $tr51; $tr52;
#n/a - local mem FCOE_HOP_COUNT_FN;                      $name; $tr50; $tr51; $tr52;
#n/a - local mem FC_MAP_PROFILE;                         $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                            $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                            $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                          $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                         $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                         $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                                  $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                          $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                         $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                              $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                                $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                               $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                             $name; $tr50; $tr51; $tr52;
```

```
local mem FP_PORT_METER_MAP;                    $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                       $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                 $name; $tr50;
local mem FP_SLICE_MAP;                         $name; $tr50;
local mem FP_STORM_CONTROL_METERS;              $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;            $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;            $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                              $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                       $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                      $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;             $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                       $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                      $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                  $name; $tr50;
local mem IARB_ING_PORT_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                        $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                      $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                      $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;               $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                          $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;              $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                       $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                         $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;            $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                 $name; $tr50;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;         $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_FC_HEADER_TYPE;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;        $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;        $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;        $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;        $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;      $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;        $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;      $name; $tr50; $tr51; $tr52;
```

```
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr50;
local mem ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr50;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr50;
local mem ING_UNTAGGED_PHB;                    $name; $tr50; $tr51; $tr52;
```

```
#n/a - local mem ING_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VSAN;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                    $name; $tr50;
local mem L2_BULK_MATCH_MASK;                    $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr50;
local mem L2_ENDPOINT_ID;                    $name; $tr50; $tr51; $tr52;
local mem L2X;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr50;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr50; $tr51; $tr52;'
```

```
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                    $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
```

```
local mem L3_TUNNEL_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                                  $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                                  $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                                  $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                                $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                                $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;                            $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;                             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;                            $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CCP0_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                       $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                        $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                        $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                      $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                      $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                          $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                          $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                          $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                          $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                       $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                          $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                          $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                       $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                      $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                            $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                             $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                             $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                             $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                            $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                          $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                       $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                        $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;  $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;             $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;             $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;             $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;             $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;            $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;          $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_QUEUE_RESUME_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                  $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;                         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;                        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                      $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                       $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                       $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                          $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                          $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr50;
#local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MY_STATION_TCAM_2;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                    $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_DROPS;                    $name; $tr50;
local mem RH_ECMP_DROPS_X;                    $name; $tr50;
local mem RH_ECMP_DROPS_Y;                    $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                    $name; $tr50;
local mem RH_LAG_DROPS_X;                    $name; $tr50;
local mem RH_LAG_DROPS_Y;                    $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                    $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                    $name; $tr50;
local mem SER_RESULT_1;                    $name; $tr50;
local mem SER_RESULT_DATA_0;                    $name; $tr50;
local mem SER_RESULT_DATA_1;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr50;
```

```
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                               $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                             $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                        $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;             $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;   $name; $tr50; $tr51;
$tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;        $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                     $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;             $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                      $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                      $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                      $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                      $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                   $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                                  $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                        $name; $tr50;
local mem TRILL_DROP_STATS_X;                      $name; $tr50;
local mem TRILL_DROP_STATS_Y;                      $name; $tr50;
local mem TRUNK_BITMAP;                            $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                             $name; $tr50; $tr51; $tr52;
```

```
local mem TRUNK_MEMBER; $name; $tr50; $tr51; $tr52;
local mem TTL_FN; $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE; $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM; $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM; $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET; $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM; $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP; $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK; $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK; $name; $tr50; $tr51; $tr52;
local mem VFI; $name; $tr50; $tr51; $tr52;
local mem VFI_1; $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE; $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2; $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A; $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B; $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE; $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM; $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB; $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC; $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS; $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB; $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2; $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL; $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA; $name; $tr50; $tr51; $tr52;
local mem STG_TAB; $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET; $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY; $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY; $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE; $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC; $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP; $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP; $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP; $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP; $name; $tr50; $tr51; $tr52;
local mem VRF; $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA; $name; $tr50; $tr51; $tr52;
#----------NOTEST memories----------
#local mem EDB_1DBG_B; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1; $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0; $name; $tr50; $tr51; $tr52;
```

```
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                    $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;                    $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr50; $tr51; $tr52;
#local mem RMEP;                    $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem CPU_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_CONTROL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EFP_TCAM;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                        $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FCOE_CONTROL_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FC_HEADER_TYPE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_LPORT_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem FP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM_X;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GM_FIELDS;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_TCAM;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE;                  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;                  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_FC_HEADER_TYPE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;        $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT;                         $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_DATA_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY;                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_X;               $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;               $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PARSE_CONTROL;           $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                         $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_VFT_PRI_MAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;           $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem ING_VSAN;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
```

```
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                          $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128;                              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_PAIR_128_ONLY;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_AGING_CTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CFAP_BANK12;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_MCQDB1;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDM_MCQE_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                 $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                     $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                $name; $tr71_1;
$tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SYSTEM_CONFIG_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem TRUNK_GROUP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                        $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56832_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcid.h,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pcid.h
* Purpose:     Basic include file for pcid
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/pcid.h
No license file was found, but licenses were detected in source scan.

```
/*
* local version of endian.h - byte order defines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  $Id: bcmendian.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmendian.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_multicast.c,v 1.6.34.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/l2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: typedefs.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/typedefs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell.c,v 1.13.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FIFO DMA
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fifo_dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_cmic_rcpu.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_cmic_rcpu.c
* Purpose: Example for RCPU using
* Reference: BCM88650 TM Device Driver (RCPU)
*
* Environment:
*
* The following example matches the following system configuration:
*
*                                CPU_local_port=0, CPU_RCPU_port=201.
*                                     --------
*                    in_port=13, CPU     |      |    out_port=14
```

```
*                                -------|      |-----
*                                       |      |
*                                       --------
*
* Example Packet flow:
*   1. ETH RCPU Packet inserted via in_port, assuming tm_port_header_type of in_port is ETH.
*   2. ETH forwarding to CPU_RCPU_port.
*   3. CPU_local_port transmit ETH RCPU replay.
*   4. ETH RCPU replay forward to out_port.
*
* All the configuration example is in cmic_rcpu_appl().
* Relevant soc properties configuration:
*   CPU_local_port send ETH packet (to the out_port):
*     tm_port_header_type_in_0.BCM88650=ETH
*   Define CPU_RCPU_port as CPU RCPU port:
*     rcpu_rx_pbmp=0x200000000000000000000000000000000000000000000000000
*
*
* RCPU packet format:
*   -----------------------------------------------------
*   |                  DA[47:16]                    |
*   |      DA[15:0]      |        SA[47:32]         |
*   |                  SA[31:0]                     |
*   |      TPID[15:0]    |        VLAN_TAG[15:0]    |
*   |    Ethertype[15:0] |        SIGNATURE[15:0]   |
*   | Operation[8:0] | Flags[8:0] | TransactionID[15:0] |
*   |   DataLength[15:0] |      ReplayLenagth[15:0] |
*   |                  Reserved[31:0]               |
*   -----------------------------------------------------
*
* Operation:
*  0x01 - for SCHEN request
*  0x02 - for SCHAN replay (created by cmic)
*  0x03 - for RPIO request (cmic regs)
*  0x04 - for RPIO replay (created by cmic)
*  0x10 - TOCPU_PACKET (Not Supported)
*  0x20 - FROMCPU_PACKET (Not Supported)
*
* SCHAN foramt:
*   --------------------------------------
*   | Remote Packet PIO Header (32 Bytes)|
*   | Sbus command Opcode (4 Bytes)      |
*   | Sbus command Address (4 Bytes)     |
*   | Sbus command Data (0-88)           |
*   --------------------------------------
*
* RPIO foramt:
*  The first word bits are:
```

```
*    [31]    = 0
*    [30]    = 1 for write, 0 for read
*    [29:26] = 0
*    [25:24] = "11"
*    [23:0]  = Cmic register address
*  In case of write the next 4 bytes are the data.
*
* Reserved should be set to 0x0.
*
*
* Adjust to different system configuration:
*  1. Change relevant soc properties.
*  3. Run bcm.user.
*  2. Call cmic_rcpu_appl()
*
* From BCM shell:
   cd ../../../../src/examples/dpp
   cint cint_cmic_rcpu.c
   cint
   cmic_rcpu_appl(unit);
*
*   Inject packet from in port. RCPU packet format (according to cmic_rcpu_appl()):
*     1. DA (lmac) = {0x0, 0x0, 0x0, 0x0, 0x0, 0x3}
*     2. SA (rmac) = {0x0, 0x0, 0x0, 0x0, 0x0, 0xa}
*     3. Signature = 0x5600
*     4. Ethertype = 0x8874
*     5. Vlan = 0x1
*     6. Tpid = 0x8100
*     7. payload (after Reserved word):
*         a. write eci_test_register=0x230            with 0x0000aaaa
887456000101000100 0C00040000000034000200000002300000aaaa
*         b. read  eci_test_register=0x230
887456000101000100080008000000002C0002000000023
*
*         c. write smooth_devision=0x005c0000 entry 0 with=0x20 (MEMBER_1)
887456000101000100 0C00040000000027300200005C000000000020
*         d. write smooth_devision=0x005c0000 entry 5 with=0xf0 (MEMBER_1)
887456000101000100 0C00040000000027300200005C0005000000F0
*         e. write smooth_devision=0x005c0100 entry 0x100 with=0xac
887456000101000100 0C00040000000027300200005C0100000000AC
*         f. read  smooth_devision=0x005c0000 entry 0
887456000101000100080008000000001F300200005C0000
*         g. read  smooth_devision=0x005c0000 entry 0
887456000101000100080008000000001F300200005C0005
*         h. read  smooth_devision=0x005c0000 entry 0
887456000101000100080008000000001F300200005C0100
*
*         i. write CMIC_PKT_COS_0=0x2221c             with=0x123456ff
```

```
887456000301000100080004000000004302221C123456ff
*         j. read  CMIC_PKT_COS_0=0x2221c
887456000301000100040008000000000302221C
*
*   Injecting Packet from CPU port:
*     1. additional SOC properties:
*          tm_port_header_type_out_0.BCM88650=ETH
*     2. Send CPU packet to perform SCHAN operation (write smooth_devision=0x005c0000 entry 0 with=0x20):
          tx 1 Length=100
data=0x000000000000300000000000a8100000188745600010100010000C0004000000000027300200005C0000000000
20
*
*    Excepted  result:
*      1. In write operation Register/Table changed according to Packet data value.
*         In read operation packet data field is set to register/table value.
*      2. CMIC_PKT_COUNT_SCHAN, CMIC_PKT_COUNT_SCHAN_REP increased in SCHAN operation.
*      3. CMIC_PKT_COUNT_PIO, CMIC_PKT_COUNT_PIO_REPLY in RPIO operation
*
* Remarks:
*    1. Read RCPU section in BCM88650 TM Device Driver.
*    2. By setting IRE_CPU_CHANNEL user can determine on which CPU port the RCPU replay packet will
transmitted
*         For example: if ucode_port_201.BCM88650=CPU.2 and setting IRE_CPU_CHANNEL=2,
*                    the packet will be transmitted from port 201
*    3. Since CPU ports with FC are on q-pair 192-155 and the Cmic expect q-pair 0-96 there is no FC on RCPU
ports.
*
*
* Relevant Registers/Tables:
    g CMIC_PKT_CTRL
    g CMIC_PKT_ETHER_SIG
    g CMIC_PKT_LMAC0_LO
    g CMIC_PKT_LMAC0_HI
    g CMIC_PKT_RMAC
    g CMIC_PKT_RMAC_HI
    g CMIC_PKT_VLAN
    g CMIC_PKT_PORTS_0
    g CMIC_PKT_PORTS_1
    g CMIC_PKT_PORTS_2
    g CMIC_PKT_PORTS_3
    g CMIC_PKT_COUNT_SCHAN
    g CMIC_PKT_COUNT_SCHAN_REP
    g CMIC_PKT_COUNT_PIO
    g CMIC_PKT_COUNT_PIO_REPLY

    g IRE_CPU_CHANNEL
    g CMIC_PKT_COS_0
    g CMIC_PKT_COS_1
```

```
   g CMIC_PKT_LMAC1_HI
   g CMIC_PKT_LMAC1_LO
   g CMIC_PKT_RMH0
   g CMIC_PKT_RMH1
   g CMIC_PKT_RMH2
   g CMIC_PKT_RMH3
   g CMIC_PKT_COS_QUEUES_HI
   g CMIC_PKT_COS_QUEUES_LO

   g CMIC_PKT_COUNT_FROMCPU
   g CMIC_PKT_COUNT_FROMCPU_MH
   g CMIC_PKT_COUNT_INTR
   g CMIC_PKT_COUNT_TOCPUD
   g CMIC_PKT_COUNT_TOCPUDM
   g CMIC_PKT_COUNT_TOCPUE
   g CMIC_PKT_COUNT_TOCPUEM
*
*
* Useful debug command:
   diag pp rpi
   diag pp fdt
   diag count pa nz
   l2 show
   show c

   debug +rx
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_cmic_rcpu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_polar.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/robo_polar.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchValidEntry.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchValidEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pkt.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/pkt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/pkt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: recovery.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/recovery.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_field_petra_itmh.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_petra_itmh.c
* Purpose: pmf Tm program for parsing the ITMH petra mode
*   supported only in Arad+
*   this PMF program olny parse tc, dp and dest fields
*      whitout ITMH extensions
*
* Usage:
* Enable soc property custom_feature_support_petra_itmh
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_petra_itmh.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x40g_8x10g_1xil100.h,v 1.1.2.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1x40g_8x10g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_defs.h,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_defs.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: eagle_tsc_debug_functions.h 1103 2015-08-14 16:57:21Z kirand $ *
*                                                                                        *
*  Description   :  Functions used internally and available in debug shell only         *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
```

```
*                                                                                                    *
*****************************************************************************************************
*****************************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/lif_mngr/lif_mapping.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fix_drop_counter.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_property.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_l2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_module_testing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_dsig.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/pemladrv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_integer_arithmetic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_l2.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_mgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/dnx/qos/qos.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_string_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/res_mngr/simple_bitmap_wrap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/diag_dnx_dbal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_module_testing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/mdb_em.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_physical_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_reg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/mirror/algo_mirror.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/field_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_crps.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_meminfo_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_cmodel.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_device.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/tx/diag_dnx_tx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/port/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_cmodel.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/include/bcm_iunimac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/sand_signals.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shrextend/shrextend_error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_enum_defines.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_lif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_egr_queuing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/dnx_data/dnx_data_nif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_lif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/diag_dnx_dbal_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_resource.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_remove_directExtractEntry.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/init/init_cb_wrappers.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/res_mngr/res_mngr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_snif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/diag_dnx_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/template_mngr/multi_set_template.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vlan/vlan_translate.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_prt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_nif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_utils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vlan/vlan_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_cmodel.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/cr_dma_support.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_nif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/diag_dnx_dbal_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_dev_feature_manager.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/tx/diag_dnx_tx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/mdb/mdb_lpm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/l3/algo_l3.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/drv/access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mpls/mpls.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/diag_dnx_dbal_tests.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_cmodel.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_egr_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/test_dnx_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/lif/lif_lib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/template_mngr/template_mngr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l2/l2_addr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/diag_dnx_dbal_xml_parsing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ha_shmem.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/dbx/dbx_file.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/drv/drv.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/l3_fec.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vswitch/vswitch_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/field_types.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_staggered_lookup_example.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/algo_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mirror/mirror_profile.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_lif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_framework.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_lif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_cmodel.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_l3.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_signals.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_internal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/crps/crps_mgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_crps.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/mdb_lpm_xpt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shrextend/shrextend_error.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_string_mgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_snif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dnx/init_deinit.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_nif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QUX/qux_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/port/port_tpid.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_meminfo_init.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_logical_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_meminfo_init.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/drv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_mem.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_nif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_crps.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/lif_mngr/lif_mapping.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_module_testing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_sc_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dbal/dbal_structures.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tcam_access_crash_recovery.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/l3_intf.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/rx/rx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_l3.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_l3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vlan/vlan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/jer2_a0_data_snif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/lif_mngr/lif_mngr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_property.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mirror/mirror.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/mdb_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_module_testing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/algo_gpm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_kaps.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/ARAD/arad_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_ingress_scheduler.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier2/eagle2_tsc2pll_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/l3.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_physical_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_l2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_crps.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_l3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/stg/stg_vlan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/mdb/diag_dnx_mdb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_module_testing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/switch/switch_tpid.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/init/init_cb_wrappers.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/init/init.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_snif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_tcam_access_crash_recovery.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/stk/stack.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_crps.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_ingress_scheduler.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/test_dnx_dbal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/mdb_init.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ha_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_device.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_str.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/l3_frwrd_tables.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_l3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ha.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/l3_arp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/tx/tx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/init/init_deinit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dnx_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/mdb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/lif/lif_lib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_db_init.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_cfg_api_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/jerp_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_lb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_lif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_l2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_dram_bound_thresh.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/stg/stg_stp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/port/port_pp.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/mdb_direct.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_internal_port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_logical_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shrextend/shrextend_debug.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/pemladrv_meminfo_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/lif_mngr/lif_mngr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_intr_hash.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_utils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/l3/source_address_table_allocation.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/bcm_iunimac.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/init/init.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dnx_data/dnx_data_max_port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sand/diag_sand_framework.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_l2.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/dnx_data_snif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_mpls_tp_section.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_bitstream.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaHi4Selected_0Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_0Entry.hx

No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lag.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_l3_src_bind.h
*
* MODULE PREFIX:  soc_ppc_src_bind
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_l3_src_bind.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: regex.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bregex.c
* Purpose:    Regex compiler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/regex/regex.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trill.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains TRILL definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trill.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_gen_err_ssf.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_gen_err_ssf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54680.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	phy54680.h
*
* This driver applies to both BCM54680 and BCM54680S.
* Both parts support driving Copper or SERDES interfaces.
*
* The BCM54680S also has a SERDES pass-through mode, making it possible
* to auto-select copper or fiber based on signal detects.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54680.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_diags.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == bm9600_diags.h - Polaris Diagnostics	==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/bm9600_diags.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vsq_gl_example.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vsq_gl_example.c
* Purpose: Example of usage of the Global VSQ
*
* Global VSQ holds counters on available resources per resource type.
* This is useful to trigger DP-dependent drop decisions and flow control.
* The application example shows the sequence of enabling such a trigger.

* The process of the Global VSQ application:
*  1.  Create a GL-VSQ.
*  2.  Set a specific drop trigger type and value (user provide parameters).
* Enternace point: vsq_global_example
*
* In order to test such application, user should run:
*  1.  Traffic that will go to the same drop precedence (as configured).
*  2.  See that the drop percentage is as execpted. (see example in the enternace point).
*
*
* Explanation regrading the SET and CLEAR threshold:
* ------------------------------------------------
* The goal is to stabilize the traffic load using drop thresholds.
* For example:
*  In Buffer Descriptors the threshold represent used BD's, so we want the SET above the CLEAR.
*  In Buffer Descriptors Buffers the threshold represent free BDB's, so we want the CLEAR above the SET.
*
* The idea in this example is to create 2 threshold:
*  1.  Once we are over the SET threshold, we start dropping packets.
*  2.  As a result of the dropped packets, our traffic load is lowered.
*  3.  Once we are below the CLEAR threshold, we stop dropping packets.
*  4.  As a result, our traffic load is getting higher, until we reach step 1 again.
*
* To see the results (when using the example below with BD), run the following scenario:
*  1.  Run traffic from a port to itself, and set shaper upon it.
*  2.  Set the above thresholds
*  3.  You should see that VSQ QSZ counter is between SET and CLEAR *  thresholds (+-2).
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vsq_gl_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbusdma.c,v 1.107 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: SOC SBUS-DMA and FIFO DMA driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/sbusdma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     field.c
* Purpose:  BCMX Field commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* $Copyright: (c) Broadcom Corporation
* All rights reserved $
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Author: vn-1109210841
*
* g3p1__PkgInt__initDefault(C3Asm3__PkgInt *_p)
*
* static data for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/g3p1/g3p1_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcast.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/include/tdm_th2_top.h#4 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM top header for BCM56970
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk2/tdm_th2_top.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: romInit.s,v 1.5 2011/07/21 16:14:58 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/romInit.s
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbBm9600MemWrite.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbBm9600MemWrites.c
* Purpose:     sbx commands to write bm9600 indirect mems
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbBm9600MemWrite.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spiflash.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem flash utility
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/aps/spiflash.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  eagle2_tsc2pll_pll_config.c                              *
*  Created On    :  14/07/2013                                               *
*  Created By    :  Kiran Divakar                                            *
*  Description   :  Eagle PLL Configuration API                              *
*  Revision      :  $Id: eagle2_tsc2pll_config.c 1403 2016-04-14 21:42:22Z cvazquez $ *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_pll_config_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       multicast.c
* Purpose:     Trident2Plus multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkIgmpApi.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkIgmpApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkIgmpApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/vxworks/hal.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id$
*
* $Copyright: (c) 2011 Broadcom Corporation
* All Rights Reserved.$
*/
```

This package was obtained from the following location, and was modified
for purposes of inclusion into the SOC diagnostics shell.

Removed files:
 MANIFEST Make.os9 Makefile os9.h sysos9.c testit.c unix.h

Added files:
 sysvxworks.c Makefile

Changed functionality:
 Merged unix.h into editline.h
 M-P and M-N now behave like tcsh.
 list_history(count) routine displays history
 Commented out completion
 Changed rl_complete and rl_list_possib into caller-settable
  global functions
 Don't ring bell on TAB if word is already complete

Curt McDowell, 06/02/99

Index of /afs/athena.mit.edu/contrib/sipb/src/editline

```
[     ] Name                  Last modified     Size  Description
 ---------------------------------------------------------------------------

[DIR]  Parent Directory       11-May-99 03:40      -
[   ]  MANIFEST               07-Jul-97 11:20     1k
[   ]  Make.os9               07-Jul-97 11:20     1k
[   ]  Makefile               01-Sep-97 00:34     2k
[   ]  complete.c             07-Jul-97 11:20     4k
[   ]  editline.3             07-Jul-97 11:20     5k
[   ]  editline.c             07-Jul-97 11:20    25k
[   ]  editline.h             07-Jul-97 11:20     2k
[   ]  os9.h                  07-Jul-97 11:20     1k
[   ]  sysos9.c               07-Jul-97 11:20     1k
[   ]  sysunix.c              07-Jul-97 11:20     3k
[   ]  testit.c               07-Jul-97 11:20     1k
[   ]  unix.h                 07-Jul-97 11:20     1k

 ---------------------------------------------------------------------------
```

$Revision: 1.1 $

This is a line-editing library. It can be linked into almost any
program to provide command-line editing and recall.

It is call-compatible with the FSF readline library, but it is a
fraction of the size (and offers fewer features). It does not use
standard I/O. It is distributed under a "C News-like" copyright.

Configuration is done in the Makefile. Type "make testit" to get
a small slow shell for testing.

This contains some changes since the posting to comp.sources.misc:
- Bugfix for completion on absolute pathnames.
- Better handling of M-n versus showing raw 8bit chars.
- Better signal handling.
- Now supports termios/termio/sgttyb ioctl's.
- Add M-m command to toggle how 8bit data is displayed.

The following changes, made since the last public release, come from
J.G. Vons <vons@cesar.crbca1.sinet.slb.com>:
- History-searching no longer redraws the line wrong
- Added ESC-ESC as synonym for ESC-?
- SIGQUIT (normally ^\) now sends a signal, not indicating EOF.
- Fixed some typo's and unclear wording in the manpage.
- Fixed completion when all entries shared a common prefix.
- Fixed some meta-char line-redrawing bugs.

Enjoy,
Rich $alz
<rsalz@osf.org>

Copyright 1992,1993 Simmule Turner and Rich Salz. All rights reserved.

This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it freely, subject
to the following restrictions:
1. The authors are not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.
2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.
3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/editline/README
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpTtlRange.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTtlRange.c
No license file was found, but licenses were detected in source scan.

Broadcom Proprietary and Confidential. All rights reserved.$
This program is Copyright 2005 by Hendrik Sirges. This program is free software; you can redistribute it and/or modify it under the terms of the Perl Artistic License or the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General
Public License for more details.
If you do not have a copy of the GNU General Public License write to the Free Software Foundation,

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/csrcparser.pl
No license file was found, but licenses were detected in source scan.

/*
* $Id: proxy.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Proxy definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/proxy.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ptg.c,v 1.3 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_ptg.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wcmod_main.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_main.h
No license file was found, but licenses were detected in source scan.

/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_system.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/clmac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/portmod/portmod_system.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/portmod/portmod_appl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod_common.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/xlmac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/portmod/portmod_appl.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod_system.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_chain.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/portmod/portmod_reg_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/unimac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_scan.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip data structure scanning functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_scan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    txrx.c
* Purpose: Diag shell tx (transmit) and rx (receive) commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/txrx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains switch module definitions internal to the BCM library.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x/switch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: boot.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  boot.c
* Purpose: Kernel initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/boot.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_oam.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam.c
* Purpose: Example of using OAM APIs.
*
* Usage:
*
cd ../../../../src/examples/dpp
cint utility/cint_utils_global.c
cint utility/cint_utils_multicast.c
cint utility/cint_utils_mpls_port.c
cint utility/cint_utils_oam.c
cint cint_port_tpid.c
cint cint_advanced_vlan_translation_mode.c
cint cint_l2_mact.c
cint cint_vswitch_metro_mp.c
cint utility/cint_multi_device_utils.c
cint cint_queue_tests.c
cint cint_oam.c
cint
int unit =0;
int port_1=13, port_2 = 14; port_3=15;
print oam_run_with_defaults(unit,port_1,port_2,port_3);
```

```
*
* This cint uses cint_vswitch_metro_mp_single_vlan.c to build the following vswitch:
*  ~~~
```

the pipeline.
* 3) MEP with id 4097: accellerated, mac address {0x00, 0x00, 0x00, 0x01, 0x02, 0xff}, in group 2, mdlevel 2, Down-MEP
* ---> Packets recieved on port_1 with VLAN 0xa and MD-Level 4 will be trapped by this MEP.
* 3.a) RMEP with id 0X2001001 and Name 17
* ---> CCMs with Name 17 and the above Level/Vlan will be processed by the RMEP in the OAMP.
* ---> The OAMP will transmit CCMs with with VLAN 0xa, Down MEP.
* -- For example (from the bcm shell)
* tx 1 PtchSRCport=<port_1> DATA=0000000102030000556abcde8100000a8902402b000c0000000000000000000000000000000
*
*
*
* In addition, get & delete APIs are used for testing.
*
* comments:
* 1) In order to prevent from OAMP send packets do: BCM.0> m OAMP_MODE_REGISTER TRANSMIT_ENABLE=0
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dfe_mbcm.c
* Purpose: Implementation of bcm multiplexing - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call. This file contains the basic declarations for this
* process.
*
* This code allows to use the same MBCM_DFE_DRIVER_CALL API independently of the chip type
*
*/
/*
* $Id: mbcm.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2005 Broadcom Corp.
* All Rights Reserved.$
*

```
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* This code allows to use the same MBCM_DFE_DRIVER_CALL API independently of the chip type
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_framework.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_framework.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcframework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmstring.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmstring.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BME3200 Port API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bme3200/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56624_b0.c
* Purpose:     bcm56624_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56624_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vsq_fc_examples.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File: cint_vsq_fc_examples.c
* VSQ FC (LLFC, PFC)
* Purpose: Example of how to configure FC for specific VSQs (LLFC, PFC)
*
* TM example script.
* The focus of the CINT is to show how to enable a LLFC, PFC.
* VSQ used here are from vsq group: LLFC, PFC.
*
* Application Sequence LLFC:
*  1.  Create a VSQ-LFFC.
*  2.  Set FC threshold settings to be triggered by the VSQ.
*  3.  Enable admission test of the LLFC category.
*  4.  Enable FC generation
*
* Application Sequence PFC:
*  1.  Create a VSQ-PFC.
*  2.  Set FC threshold settings to be triggered by the VSQ.
*  3.  Enable admission test of the PFC category.
*  4.  Enable FC generation
*
*  The application assumes that queue/port mappings are configured before running the examples.
*  Current parameters defined are according to diag_init application.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vsq_fc_examples.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_extra.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wc40_extra.h
* Purpose:     non-register Macro, data structures and function prototypes for WC driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_extra.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.16 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpFourBitEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpFourBitEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.tools,v 1.17 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Customize the location of your local tools below.
# Several standard flavors are auto-selected based on uname -s
# output.  If the SYSNAME environment variable is set, that overrides
# calling uname.  There are also a couple of Windows flavors that are
# selected by setting the HOSTTYPE environment variable.  These should
# convert to using SYSNAME when I can test them...
# HOSTTYPE is still set because it is used in various Makefiles in the tree

SYSOK = 0
ifneq "$(SYSNAME)" ""
SYSOK = 1  # already set from environment
endif

# non-unix types first
ifeq "$(SYSOK)" "0"
ifeq "$(HOSTTYPE)" "Windows2000PC"
SYSOK = 1
#MAKE = make
HCC ?= cl
SED = SED_NOT_DEFINED
COMPRESS = COMPRESS_NOT_DEFINED
GZIP = GZIP_NOT_DEFINED
LZMA = LZMA_NOT_DEFINED
TOUCH   = TOUCH_NOT_DEFINED
```

```
export PERL_BASE ?= c:/Perl/
ifneq "$(PERL_BASE)" ""
PERL = $(PERL_BASE)/bin/perl
else
PERL = perl
endif
endif
endif

# unix or unix-type type hosts
ifeq "$(SYSOK)" "0"
SYSNAME := $(shell uname -s)
ifeq "$(SYSNAME)" "Linux"
SYSOK = 1
HCC ?= /usr/bin/gcc
SED = /bin/sed
COMPRESS = /usr/bin/compress
GZIP = /usr/bin/gzip
LZMA = /projects/ntsw-tools/tools/bin/7za
TEST = /usr/bin/test
PERL = $(shell which perl)
LN = /bin/ln
TOUCH   = /bin/touch
HOSTTYPE= i386-linux
endif
ifeq "$(SYSNAME)" "SunOS"
SYSOK = 1
HCC ?= /tools/bin/gcc
SED = /usr/ucb/sed
COMPRESS = /bin/compress
GZIP = /usr/bin/gzip
LZMA = LZMA_NOT_DEFINED
TEST = /bin/test
PERL = $(shell which perl)
LN = /usr/bin/ln
TOUCH   = /bin/touch
HOSTTYPE= sun4
endif
ifeq "$(SYSNAME)" "NetBSD"
SYSOK = 1
HCC ?= /usr/bin/gcc
SED = /usr/bin/sed
COMPRESS = /usr/bin/compress
GZIP = /usr/bin/gzip
LZMA = LZMA_NOT_DEFINED
PERL = /usr/pkg/bin/perl
LN = /bin/ln
```

```
TOUCH   = /bin/touch
HOSTTYPE= i386-linux
endif
ifneq "$(findstring CYGWIN,$(SYSNAME))" ""
SYSOK = 1
HCC ?= /usr/bin/gcc
SED = /usr/bin/sed
COMPRESS = COMPRESS_NOT_DEFINED
GZIP = GZIP_NOT_DEFINED
LZMA = LZMA_NOT_DEFINED
PERL = /usr/bin/perl
LN = /bin/ln
TOUCH   = /bin/touch
HOSTTYPE= Windows_Cygnus
export HOSTTYPE  # systems makefiles need this
endif
ifeq "$(SYSNAME)" "Darwin"
SYSOK = 1
HCC ?= /usr/bin/gcc
SED = /usr/bin/sed
COMPRESS = /usr/bin/compress
GZIP = /usr/bin/gzip
LZMA = LZMA_NOT_DEFINED
TEST = /bin/test
PERL = $(shell which perl)
LN = /bin/ln
TOUCH   = /usr/bin/touch
HOSTTYPE= i386-linux
endif
endif


#
# Platform Independent
#
ifeq "$(HOSTTYPE)" "Windows2000PC"
MKTOOL = $(PERL) ${SDK}/tools/mktool.pl
BCM2C = $(PERL) ${SDK}/tools/bcm2c.pl
MKVERS = $(PERL) ${SDK}/tools/version.pl
RM = rm -f
CP = cp
#MKDIR = mkdir -p
MKDIR = c:/windriver/workbench-3.0/x86-win32/bin/mkdir -p
FOREACH = $(MKTOOL) -foreach
MAKEDEP = echo
ECHO = echo
#TOUCH = touch
TOUCH = c:/windriver/workbench-3.0/x86-win32/bin/touch
```

```
MKBEEP = $(MKTOOL) -beep
else
MKTOOL = $(PERL) ${SDK}/tools/mktool.pl
BCM2C = $(PERL) ${SDK}/tools/bcm2c.pl
MKVERS = $(PERL) ${SDK}/tools/version.pl
RM = /bin/rm -rf
CP = /bin/cp
MKDIR = /bin/mkdir -p
FOREACH = $(MKTOOL) -foreach
MAKEDEP = /bin/echo
ECHO = /bin/echo
MKBEEP = $(MKTOOL) -beep
endif

MKSBXHS = $(PERL) $(SDK)/tools/mksbxhs.pl

#
# You may override any of the previous decisions and assignments
# determined above by providing your own makefile to be
# included here. Just set MAKE_TOOLS_LOCAL to the path to your makefile.
#
# Don't forget to set SYSOK=1 in your local makefile if you are
# providing a brand new
# environment.
#

ifdef MAKE_TOOLS_LOCAL
include	${MAKE_TOOLS_LOCAL}
endif


ifeq "$(SYSOK)" "0"
$(error Cannot figure out system type)
endif
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.tools
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.c,v 1.167 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch driver
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_pm.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam_pm_shared.h
* Purpose: oam_pm definitions common to SDK and uKernel
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/oam_pm_shared.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    vxlan.c
* Purpose: Handle trident2plus specific vlan features.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sramscan.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* SRAM Memory Error Scan
*
* This is an optional module that can be used to detect and correct
* parity or ECC errors in certain static hardware memories (SRAM memories).
* For SRAM memory, scan or scrub is not very critical. But performing SRAM
* scan has following benefit: ensuring that entries are proactively corrected
* prior to an actual hardware/packet lookup.
* Additional CPU time is required to do the scanning.  Table DMA is
* used to reduce this overhead.  The application may choose the overall
* scan rate in entries/sec.
*
* similar to TCAM scan variables, the following configure variables will
```

* be added to support SRAM scan.
*
* ? sram_scan_chunk_size
* To specify the number of table entries to be retrieved at a time during
* SRAM memory scanning.

* ? sram_scan_enable
* To control to automatically run background SRAM memory scan.
*
* ? sram_scan_interval
* To specify the SRAM scan repeat interval.
*
* ? sram_scan_rate
* To specify the SRAM scan rate in terms of entries per pass.
*
* ? sram_scan_thread_pri
* To specify the priority of the SRAM scanning and error correction thread.
*

* File: sramscan.c
* Purpose: scan sram memories to detect parity error in the chip.
* Requires: sal/soc/shared layer
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/sramscan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_vlan_gport_add.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vlan_gport_add.c
* Purpose: Example of employing bcm_vlan_gport_add() in 4 distinct cases. Each case shows its usage of bcm_vlan_gport_add():
* For instance: Case 1 sets ingress vlan membership per port X vlan, so we employ bcm_vlan_gport_add(unit, vlan, port, flags),
* while flags == BCM_VLAN_GPORT_ADD_INGRESS_ONLY
*
* Explanation:
* The test illustrates 4 distinct usages of bcm_vlan_gport_add(). Each usage is defined in a case.
* To each case we define set-get-toggle functions. A toggle function flips the current state. For instance: If a certain port is not a member of
* a certain vlan, then employing the toggle function would flip this state, thus making this port a member of the vlan. The opposite case follows

```
* this logic too: a port that is a member of a certain vlan would lose it's membership following the toggle.
*
* Case 1: Deals with Ingress Vlan membership per Port X Vlan.
* Case 2: Deals with  Egress tagged mode per Port X Vlan
* Case 3: Deals with Egress VSI membership per Port X VSI
* Case 4: Deals with membership in egress vsi multicast group
*
* Activation of the test requires running the following instructions:
*   BCM> cint cint_vlan_gport_add.c
*   BCM> cint
*   cint> vlan_gport_basic_example();
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_gport_add.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: robo_dispatch.h
* Purpose: robo driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     l3.c
* Purpose:  BCMX L3 commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/bcmx/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_link.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_link.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_link.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#
pci_override_dev=0x38

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=48
```

```
# 4x10G on WC 0
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3

# 2xHG10 + 2x10G on WC1
# 10xGE on WC 2 lane 0
ucode_port.port5.0=clport0.hg10.1.0-1:clport1.hg126.0.4-1
ucode_port.port6.0=clport0.hg10.1.0-1:clport1.hg126.0.5-1
ucode_port.port7.0=clport0.hg10.1.0-1:clport1.hg126.0.6-1
ucode_port.port8.0=clport0.hg10.1.0-1:clport1.hg126.0.7-1
ucode_port.port9.0=clport0.hg10.1.0-1:clport1.hg126.0.8-1
ucode_port.port10.0=clport0.hg10.1.0-1:clport1.hg126.0.9-1
ucode_port.port11.0=clport0.hg10.1.0-1:clport1.hg126.0.10-1
ucode_port.port12.0=clport0.hg10.1.0-1:clport1.hg126.0.11-1
ucode_port.port13.0=clport0.hg10.1.0-1:clport1.hg126.0.12-1
ucode_port.port14.0=clport0.hg10.1.0-1:clport1.hg126.0.13-1
ucode_port.port15.0=clport0.hg10.1.1-1:clport1.hg126.0.14-1
ucode_port.port16.0=clport0.hg10.1.1-1:clport1.hg126.0.15-1
ucode_port.port17.0=clport0.hg10.1.1-1:clport1.hg126.0.16-1
ucode_port.port18.0=clport0.hg10.1.1-1:clport1.hg126.0.17-1
ucode_port.port19.0=clport0.hg10.1.1-1:clport1.hg126.0.18-1
ucode_port.port20.0=clport0.hg10.1.1-1:clport1.hg126.0.19-1
ucode_port.port21.0=clport0.hg10.1.1-1:clport1.hg126.0.20-1
ucode_port.port22.0=clport0.hg10.1.1-1:clport1.hg126.0.21-1
ucode_port.port23.0=clport0.hg10.1.1-1:clport1.hg126.0.22-1
ucode_port.port24.0=clport0.hg10.1.1-1:clport1.hg126.0.23-1
ucode_port.port25.0=clport0.xe.1.2:clport1.hg126.0.24
ucode_port.port26.0=clport0.xe.1.3:clport1.hg126.0.25

# 2x10G + 2xHG10 on WC 2
ucode_port.port27.0=clport0.xe.2.0:clport1.hg126.0.26
ucode_port.port28.0=clport0.xe.2.1:clport1.hg126.0.27
ucode_port.port29.0=clport0.hg10.2.2-1:clport1.hg126.0.28-1
ucode_port.port30.0=clport0.hg10.2.2-1:clport1.hg126.0.29-1
ucode_port.port31.0=clport0.hg10.2.2-1:clport1.hg126.0.30-1
ucode_port.port32.0=clport0.hg10.2.2-1:clport1.hg126.0.31-1
ucode_port.port33.0=clport0.hg10.2.2-1:clport1.hg126.0.32-1
ucode_port.port34.0=clport0.hg10.2.2-1:clport1.hg126.0.33-1
ucode_port.port35.0=clport0.hg10.2.2-1:clport1.hg126.0.34-1
ucode_port.port36.0=clport0.hg10.2.2-1:clport1.hg126.0.35-1
ucode_port.port37.0=clport0.hg10.2.2-1:clport1.hg126.0.36-1
ucode_port.port38.0=clport0.hg10.2.2-1:clport1.hg126.0.37-1
ucode_port.port39.0=clport0.hg10.2.3-1:clport1.hg126.0.38-1
ucode_port.port40.0=clport0.hg10.2.3-1:clport1.hg126.0.39-1
ucode_port.port41.0=clport0.hg10.2.3-1:clport1.hg126.0.40-1
ucode_port.port42.0=clport0.hg10.2.3-1:clport1.hg126.0.41-1
```

```
ucode_port.port43.0=clport0.hg10.2.3-1:clport1.hg126.0.42-1
ucode_port.port44.0=clport0.hg10.2.3-1:clport1.hg126.0.43-1
#ucode_port.port45.0=clport0.hg10.2.3-1/4/196/1:clport1.hg126.0.44-1-1/68/132/1
#ucode_port.port46.0=clport0.hg10.2.3-1/5/197/1:clport1.hg126.0.45-1-1/69/133/1
#ucode_port.port47.0=clport0.hg10.2.3-1/10/202/1:clport1.hg126.0.46-1-1/74/138/1
#ucode_port.port48.0=clport0.hg10.2.3-1/11/203/1:clport1.hg126.0.47-1-1/75/139/1
ucode_port.port45.0=clport0.hg10.2.3-1/51/243/1:clport1.hg126.0.44-1-1/115/179/1
ucode_port.port46.0=clport0.hg10.2.3-1/52/244/1:clport1.hg126.0.45-1-1/116/180/1
ucode_port.port47.0=clport0.hg10.2.3-1/53/245/1:clport1.hg126.0.46-1-1/117/181/1
ucode_port.port48.0=clport0.hg10.2.3-1/54/246/1:clport1.hg126.0.47-1-1/118/182/1

higig2_hdr_mode=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_xe6=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_hg0=0x3210
xgxs_tx_lane_map_xe6=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg10=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_hg20=0x0000
phy_xaui_rx_polarity_flip_hg30=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0000
```

```
phy_xaui_tx_polarity_flip_xe7=0x0000
phy_xaui_tx_polarity_flip_hg20=0x0001
phy_xaui_tx_polarity_flip_hg30=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c

```
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

fc_ingress_xoff_thresh=0x283c
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-8x10g_4xhg10-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
# $Id: gh_ledup.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to load Greyhound LED processor code
#

# gh_cascade.hex: BCM534x1 Opt1/2, BCM56064, BCM53456 Opt1/2, BCM53457 Opt1/2, BCM53424 Opt1/2
if  !"expr $pcidev + 0 == 0xb064" \
   "local ledcode ' \
    02 02 D2 1B 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 1A 61 E1 77 52 D2 1D 75 2A D2 1C 70 22 71 22 \
```

```
    77 28 02 1C 12 1C 61 E1 77 52 D2 1F 75 3E D2 1E \
    70 36 71 36 77 3C 02 1E 12 1E 61 E1 77 52 D2 21 \
    75 62 D2 20 70 4A 71 4A 77 50 02 20 12 20 61 E1 \
    77 52 28 60 E0 67 64 06 E0 80 16 E1 81 D1 70 02 \
    77 52 3A 38 12 A0 FE E0 05 0A 00 71 6F 77 76 22 \
    00 87 22 01 87 57 22 00 87 22 00 87 57 00 00 00'''

if  !"expr $pcidev + 0 == 0x8401" || !"expr $pcidev + 0 == 0x8411" || \
   !"expr $pcidev + 0 == 0x8456" || !"expr $pcidev + 0 == 0x8457" || \
   !"expr $pcidev + 0 == 0x8424" && \
   !"expr $bcm53400_init_port_config + 0 <= 2" \
   "local ledcode ' \
    02 02 D2 1B 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 1A 61 E1 77 52 D2 1D 75 2A D2 1C 70 22 71 22 \
    77 28 02 1C 12 1C 61 E1 77 52 D2 1F 75 3E D2 1E \
    70 36 71 36 77 3C 02 1E 12 1E 61 E1 77 52 D2 21 \
    75 62 D2 20 70 4A 71 4A 77 50 02 20 12 20 61 E1 \
    77 52 28 60 E0 67 64 06 E0 80 16 E1 81 D1 70 02 \
    77 52 3A 38 12 A0 FE E0 05 0A 00 71 6F 77 76 22 \
    00 87 22 01 87 57 22 00 87 22 00 87 57 00 00 00'''

# gh_embedded_16x10g.hex: BCM534x5, BCM56060 Opt1
if  !"expr $pcidev + 0 == 0x8405" || !"expr $pcidev + 0 == 0x8415" \
   "local ledcode ' \
    02 16 D2 26 75 26 D2 16 70 0E 71 0E 77 14 02 16 \
    12 25 61 E1 77 16 28 60 E0 67 28 06 E0 80 16 E1 \
    81 D1 70 02 77 16 3A 20 12 A0 FE E0 05 0A 00 71 \
    33 77 3A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'''

if  !"expr $pcidev + 0 == 0xb060" && \
   !"expr $bcm53400_init_port_config + 0 <= 1" \
   "local ledcode ' \
    02 16 D2 26 75 26 D2 16 70 0E 71 0E 77 14 02 16 \
    12 25 61 E1 77 16 28 60 E0 67 28 06 E0 80 16 E1 \
    81 D1 70 02 77 16 3A 20 12 A0 FE E0 05 0A 00 71 \
    33 77 3A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'''

# gh_mixed_embeded.hex: BCM534x6 Opt1/4, BCM534x8, BCM56065, BCM53454, BCM53455, BCM53426
if  !"expr $pcidev + 0 == 0x8408" || !"expr $pcidev + 0 == 0x8418" || \
   !"expr $pcidev + 0 == 0xb065" || !"expr $pcidev + 0 == 0x8454" || \
   !"expr $pcidev + 0 == 0x8455" || !"expr $pcidev + 0 == 0x8426" \
   "local ledcode ' \
    02 02 D2 06 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 05 61 E1 77 2A D2 26 75 3A D2 12 70 22 71 22 \
    77 28 02 12 12 25 61 E1 77 2A 28 60 E0 67 3C 06 \
    E0 80 16 E1 81 D1 70 02 77 2A 3A 30 12 A0 FE E0 \
```

```
    05 0A 00 71 47 77 4E 22 00 87 22 01 87 57 22 00 \
    87 22 00 87 57 00 00 00 00 00 00 00 00 00 00 00'"

if  !"expr $pcidev + 0 == 0x8406" || !"expr $pcidev + 0 == 0x8416" && \
   !"expr $bcm53400_init_port_config + 0 <= 1" \
   "local ledcode ' \
    02 02 D2 06 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 05 61 E1 77 2A D2 26 75 3A D2 12 70 22 71 22 \
    77 28 02 12 12 25 61 E1 77 2A 28 60 E0 67 3C 06 \
    E0 80 16 E1 81 D1 70 02 77 2A 3A 30 12 A0 FE E0 \
    05 0A 00 71 47 77 4E 22 00 87 22 01 87 57 22 00 \
    87 22 00 87 57 00 00 00 00 00 00 00 00 00 00 00'"

if  !"expr $pcidev + 0 == 0x8406" || !"expr $pcidev + 0 == 0x8416" && \
   !"expr $bcm53400_init_port_config + 0 == 4" \
   "local ledcode ' \
    02 02 D2 06 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 05 61 E1 77 2A D2 26 75 3A D2 12 70 22 71 22 \
    77 28 02 12 12 25 61 E1 77 2A 28 60 E0 67 3C 06 \
    E0 80 16 E1 81 D1 70 02 77 2A 3A 30 12 A0 FE E0 \
    05 0A 00 71 47 77 4E 22 00 87 22 01 87 57 22 00 \
    87 22 00 87 57 00 00 00 00 00 00 00 00 00 00 00'"

# gh_sdk53401_opt3.hex: BCM534x1 Opt3, BCM56062 Opt1/3, BCM53456 Opt3, BCM53457 Opt3, BCM53424
Opt3
if  !"expr $pcidev + 0 == 0x8401" || !"expr $pcidev + 0 == 0x8411" || \
   !"expr $pcidev + 0 == 0x8456" || !"expr $pcidev + 0 == 0x8457" || \
   !"expr $pcidev + 0 == 0x8424" || !"expr $pcidev + 0 == 0xb062" && \
   !"expr $bcm53400_init_port_config + 0 == 3" \
   "local ledcode ' \
    02 02 D2 0A 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 09 61 E1 77 2A D2 26 75 3A D2 12 70 22 71 22 \
    77 28 02 12 12 25 61 E1 77 2A 28 60 E0 67 3C 06 \
    E0 80 16 E1 81 D1 70 02 77 2A 3A 38 12 A0 FE E0 \
    05 0A 00 71 47 77 4E 22 00 87 22 01 87 57 22 00 \
    87 22 00 87 57 00 00 00 00 00 00 00 00 00 00 00'"

if  !"expr $pcidev + 0 == 0xb062" && \
   !"expr $bcm53400_init_port_config + 0 <= 1" \
   "local ledcode ' \
    02 02 D2 0A 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 09 61 E1 77 2A D2 26 75 3A D2 12 70 22 71 22 \
    77 28 02 12 12 25 61 E1 77 2A 28 60 E0 67 3C 06 \
    E0 80 16 E1 81 D1 70 02 77 2A 3A 38 12 A0 FE E0 \
    05 0A 00 71 47 77 4E 22 00 87 22 01 87 57 22 00 \
    87 22 00 87 57 00 00 00 00 00 00 00 00 00 00 00'"

# gh_sdk53402.hex: BCM534x2
```

```
if  !"expr $pcidev + 0 == 0x8402" || !"expr $pcidev + 0 == 0x8412" \
   "local ledcode ' \
    02 16 D2 1E 75 26 D2 16 70 0E 71 0E 77 14 02 16 \
    12 1D 61 E1 77 16 28 60 E0 67 28 06 E0 80 16 E1 \
    81 D1 70 02 77 16 3A 10 12 A0 FE E0 05 0A 00 71 \
    33 77 3A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'"

# gh_sdk53403.hex: BCM53403
if  !"expr $pcidev + 0 == 0x8403" \
   "local ledcode ' \
    02 02 D2 03 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 02 61 E1 77 52 D2 1F 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 1E 61 E1 77 52 D2 21 75 3E D2 20 \
    70 36 71 36 77 3C 02 20 12 20 61 E1 77 52 D2 26 \
    75 62 D2 22 70 4A 71 4A 77 50 02 22 12 25 61 E1 \
    77 52 28 60 E0 67 64 06 E0 80 16 E1 81 D1 70 02 \
    77 52 3A 26 12 A0 FE E0 05 0A 00 71 6F 77 76 22 \
    00 87 22 01 87 57 22 00 87 22 00 87 57 00 00 00'"

# gh_sdk53404.hex: BCM53404 Opt1
if  !"expr $pcidev + 0 == 0x8404" && \
   !"expr $bcm53400_init_port_config + 0 <= 1" \
   "local ledcode ' \
    02 02 D2 03 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 02 61 E1 77 3E D2 1B 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 1A 61 E1 77 3E D2 1F 75 4E D2 1E \
    70 36 71 36 77 3C 02 1E 12 1E 61 E1 77 3E 28 60 \
    E0 67 50 06 E0 80 16 E1 81 D1 70 02 77 3E 3A 16 \
    12 A0 FE E0 05 0A 00 71 5B 77 62 22 00 87 22 01 \
    87 57 22 00 87 22 00 87 57 00 00 00 00 00 00 00'"

# gh_sdk53404_opt2.hex: BCM53404 Opt2
if  !"expr $pcidev + 0 == 0x8404" && \
   !"expr $bcm53400_init_port_config + 0 == 2" \
   "local ledcode ' \
    02 02 D2 03 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 02 61 E1 77 3E D2 19 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 18 61 E1 77 3E D2 1D 75 4E D2 1A \
    70 36 71 36 77 3C 02 1A 12 1C 61 E1 77 3E 28 60 \
    E0 67 50 06 E0 80 16 E1 81 D1 70 02 77 3E 3A 16 \
    12 A0 FE E0 05 0A 00 71 5B 77 62 22 00 87 22 01 \
    87 57 22 00 87 22 00 87 57 00 00 00 00 00 00 00'"

# gh_sdk53406.hex: BCM534x6 Opt2, BCM534x6 Opt3
if  !"expr $pcidev + 0 == 0x8406" || !"expr $pcidev + 0 == 0x8416" && \
   !"expr $bcm53400_init_port_config + 0 >= 2" && !"expr $bcm53400_init_port_config + 0 <= 3" \
   "local ledcode ' \
```

```
    02 02 D2 03 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 02 61 E1 77 66 D2 13 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 12 61 E1 77 66 D2 17 75 3E D2 16 \
    70 36 71 36 77 3C 02 16 12 16 61 E1 77 66 D2 1B \
    75 52 D2 1A 70 4A 71 4A 77 50 02 1A 12 1A 61 E1 \
    77 66 D2 26 75 76 D2 1E 70 5E 71 5E 77 64 02 1E \
    12 25 61 E1 77 66 28 60 E0 67 78 06 E0 80 16 E1 \
    81 D1 70 02 77 66 3A 18 12 A0 FE E0 05 0A 00 71 \
    83 77 8A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'"

# gh_sdk56060_opt2.hex: BCM56060 Opt2
if  !"expr $pcidev + 0 == 0xb060" && \
   !"expr $bcm53400_init_port_config + 0 == 2" \
   "local ledcode ' \
    02 02 D2 03 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 02 61 E1 77 3E D2 13 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 12 61 E1 77 3E D2 24 75 4E D2 16 \
    70 36 71 36 77 3C 02 16 12 23 61 E1 77 3E 28 60 \
    E0 67 50 06 E0 80 16 E1 81 D1 70 02 77 3E 3A 20 \
    12 A0 FE E0 05 0A 00 71 5B 77 62 22 00 87 22 01 \
    87 57 22 00 87 22 00 87 57 00 00 00 00 00 00 00'"

# gh_sdk56062_opt2.hex: BCM56062 OPT2
if  !"expr $pcidev + 0 == 0xb062" && \
   !"expr $bcm53400_init_port_config + 0 == 2" \
   "local ledcode ' \
    02 02 D2 0A 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 09 61 E1 77 52 D2 1B 75 2A D2 12 70 22 71 22 \
    77 28 02 12 12 1A 61 E1 77 52 D2 1F 75 3E D2 1E \
    70 36 71 36 77 3C 02 1E 12 1E 61 E1 77 52 D2 26 \
    75 62 D2 22 70 4A 71 4A 77 50 02 22 12 25 61 E1 \
    77 52 28 60 E0 67 64 06 E0 80 16 E1 81 D1 70 02 \
    77 52 3A 2C 12 A0 FE E0 05 0A 00 71 6F 77 76 22 \
    00 87 22 01 87 57 22 00 87 22 00 87 57 00 00 00'"

# gh_sdk56063.hex: BCM56063
if  !"expr $pcidev + 0 == 0xb063" \
   "local ledcode ' \
    02 02 D2 12 75 16 D2 02 70 0E 71 0E 77 14 02 02 \
    12 11 61 E1 77 66 D2 1B 75 2A D2 1A 70 22 71 22 \
    77 28 02 1A 12 1A 61 E1 77 66 D2 1D 75 3E D2 1C \
    70 36 71 36 77 3C 02 1C 12 1C 61 E1 77 66 D2 1F \
    75 52 D2 1E 70 4A 71 4A 77 50 02 1E 12 1E 61 E1 \
    77 66 D2 21 75 76 D2 20 70 5E 71 5E 77 64 02 20 \
    12 20 61 E1 77 66 28 60 E0 67 78 06 E0 80 16 E1 \
    81 D1 70 02 77 66 3A 28 12 A0 FE E0 05 0A 00 71 \
    83 77 8A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
```

```
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'''

# gh_sdk53422.hex: BCM53422
if  !"expr $pcidev + 0 == 0x8422" \
   "local ledcode ' \
    02 12 D2 1C 75 26 D2 12 70 0E 71 0E 77 14 02 12 \
    12 1B 61 E1 77 16 28 60 E0 67 28 06 E0 80 16 E1 \
    81 D1 70 02 77 16 3A 14 12 A0 FE E0 05 0A 00 71 \
    33 77 3A 22 00 87 22 01 87 57 22 00 87 22 00 87 \
    57 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'''

# Download LED code into LED processor and enable (if applicable).
if $?feature_led_proc && $?ledcode && !$?simulator \
   "led prog $ledcode; \
    led auto on; led start"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/gh_ledup.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgPortRemapEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgPortRemapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ces_pack.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        ces_pack.h
* Purpose:     Interface to pack and unpack CES control messages.
*              This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/ces_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600LinkFailureInfoConsole.c,v 1.4 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600LinkFailureInfoConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: onu.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: onu.c
* Purpose: Tracks and manages onu chip.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/onu.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: Utils.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: Utils.c
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/Utils.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_sc_lkup_table.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_sc_lkup_table.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_flow_control.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC FLOW CONTROL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_flow_control.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-48x1g-1xhg127.bcm,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 48x1G-1xHG127 setup
#
ddr3_auto_tune=0
load_firmware=2

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_port.port48.0=xtport2.ge.0.11:clport1.hg126.0.47
ucode_port.port47.0=xtport2.ge.0.10:clport1.hg126.0.46
ucode_port.port46.0=xtport2.ge.0.9:clport1.hg126.0.45
ucode_port.port45.0=xtport2.ge.0.8:clport1.hg126.0.44
ucode_port.port44.0=xtport2.ge.0.7:clport1.hg126.0.43
ucode_port.port43.0=xtport2.ge.0.6:clport1.hg126.0.42
ucode_port.port42.0=xtport2.ge.0.5:clport1.hg126.0.41
ucode_port.port41.0=xtport2.ge.0.4:clport1.hg126.0.40
ucode_port.port40.0=xtport2.ge.0.3:clport1.hg126.0.39
ucode_port.port39.0=xtport2.ge.0.2:clport1.hg126.0.38
ucode_port.port38.0=xtport2.ge.0.1:clport1.hg126.0.37
ucode_port.port37.0=xtport2.ge.0.0:clport1.hg126.0.36
ucode_port.port36.0=xtport1.ge.0.11:clport1.hg126.0.35
ucode_port.port35.0=xtport1.ge.0.10:clport1.hg126.0.34
ucode_port.port34.0=xtport1.ge.0.9:clport1.hg126.0.33
ucode_port.port33.0=xtport1.ge.0.8:clport1.hg126.0.32
```

```
ucode_port.port32.0=xtport1.ge.0.7:clport1.hg126.0.31
ucode_port.port31.0=xtport1.ge.0.6:clport1.hg126.0.30
ucode_port.port30.0=xtport1.ge.0.5:clport1.hg126.0.29
ucode_port.port29.0=xtport1.ge.0.4:clport1.hg126.0.28
ucode_port.port28.0=xtport1.ge.0.3:clport1.hg126.0.27
ucode_port.port27.0=xtport1.ge.0.2:clport1.hg126.0.26
ucode_port.port26.0=xtport1.ge.0.1:clport1.hg126.0.25
ucode_port.port25.0=xtport1.ge.0.0:clport1.hg126.0.24
ucode_port.port24.0=xtport0.ge.0.11:clport1.hg126.0.23
ucode_port.port23.0=xtport0.ge.0.10:clport1.hg126.0.22
ucode_port.port22.0=xtport0.ge.0.9:clport1.hg126.0.21
ucode_port.port21.0=xtport0.ge.0.8:clport1.hg126.0.20
ucode_port.port20.0=xtport0.ge.0.7:clport1.hg126.0.19
ucode_port.port19.0=xtport0.ge.0.6:clport1.hg126.0.18
ucode_port.port18.0=xtport0.ge.0.5:clport1.hg126.0.17
ucode_port.port17.0=xtport0.ge.0.4:clport1.hg126.0.16
ucode_port.port16.0=xtport0.ge.0.3:clport1.hg126.0.15
ucode_port.port15.0=xtport0.ge.0.2:clport1.hg126.0.14
ucode_port.port14.0=xtport0.ge.0.1:clport1.hg126.0.13
ucode_port.port13.0=xtport0.ge.0.0:clport1.hg126.0.12
ucode_port.port12.0=clport0.ge.0.11:clport1.hg126.0.11
ucode_port.port11.0=clport0.ge.0.10:clport1.hg126.0.10
ucode_port.port10.0=clport0.ge.0.9:clport1.hg126.0.9
ucode_port.port9.0=clport0.ge.0.8:clport1.hg126.0.8
ucode_port.port8.0=clport0.ge.0.7:clport1.hg126.0.7
ucode_port.port7.0=clport0.ge.0.6:clport1.hg126.0.6
ucode_port.port6.0=clport0.ge.0.5:clport1.hg126.0.5
ucode_port.port5.0=clport0.ge.0.4:clport1.hg126.0.4
ucode_port.port4.0=clport0.ge.0.3:clport1.hg126.0.3
ucode_port.port3.0=clport0.ge.0.2:clport1.hg126.0.2
ucode_port.port2.0=clport0.ge.0.1:clport1.hg126.0.1
ucode_port.port1.0=clport0.ge.0.0:clport1.hg126.0.0
ucode_num_ports.0=48



higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg1=1



xgxs_rx_lane_map_ge0=0x1032
xgxs_rx_lane_map_ge8=0x1032
xgxs_rx_lane_map_ge16=0x3210
xgxs_rx_lane_map_ge24=0x3210
xgxs_rx_lane_map_ge32=0x1032
xgxs_rx_lane_map_ge40=0x1032

xgxs_tx_lane_map_ge0=0x3210
```

```
xgxs_tx_lane_map_ge7=0x3210
xgxs_tx_lane_map_ge16=0x1032
xgxs_tx_lane_map_ge24=0x1032
xgxs_tx_lane_map_ge32=0x3210
xgxs_tx_lane_map_ge40=0x3210

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0001
phy_xaui_rx_polarity_flip_ge11=0x0001

phy_xaui_rx_polarity_flip_ge12=0x0001
phy_xaui_rx_polarity_flip_ge13=0x0001
phy_xaui_rx_polarity_flip_ge14=0x0001
phy_xaui_rx_polarity_flip_ge15=0x0001
phy_xaui_rx_polarity_flip_ge16=0x0001
phy_xaui_rx_polarity_flip_ge17=0x0001
phy_xaui_rx_polarity_flip_ge18=0x0001
phy_xaui_rx_polarity_flip_ge19=0x0001
phy_xaui_rx_polarity_flip_ge20=0x0001
phy_xaui_rx_polarity_flip_ge21=0x0001
phy_xaui_rx_polarity_flip_ge22=0x0001
phy_xaui_rx_polarity_flip_ge23=0x0001

phy_xaui_rx_polarity_flip_ge24=0x0001
phy_xaui_rx_polarity_flip_ge25=0x0001
phy_xaui_rx_polarity_flip_ge26=0x0001
phy_xaui_rx_polarity_flip_ge27=0x0001
phy_xaui_rx_polarity_flip_ge28=0x0001
phy_xaui_rx_polarity_flip_ge29=0x0001
phy_xaui_rx_polarity_flip_ge30=0x0001
```

phy_xaui_rx_polarity_flip_ge31=0x0001
phy_xaui_rx_polarity_flip_ge32=0x0001
phy_xaui_rx_polarity_flip_ge33=0x0001
phy_xaui_rx_polarity_flip_ge34=0x0001
phy_xaui_rx_polarity_flip_ge35=0x0001

phy_xaui_rx_polarity_flip_ge36=0x0001
phy_xaui_rx_polarity_flip_ge37=0x0001
phy_xaui_rx_polarity_flip_ge38=0x0001
phy_xaui_rx_polarity_flip_ge39=0x0001
phy_xaui_rx_polarity_flip_ge40=0x0001
phy_xaui_rx_polarity_flip_ge41=0x0001
phy_xaui_rx_polarity_flip_ge42=0x0001
phy_xaui_rx_polarity_flip_ge43=0x0001
phy_xaui_rx_polarity_flip_ge44=0x0001
phy_xaui_rx_polarity_flip_ge45=0x0001
phy_xaui_rx_polarity_flip_ge46=0x0001
phy_xaui_rx_polarity_flip_ge47=0x0001

phy_fiber_pref_ge0=1
phy_fiber_pref_ge1=1

phy_fiber_pref_ge2=1
phy_fiber_pref_ge3=1
phy_fiber_pref_ge4=1
phy_fiber_pref_ge5=1
phy_fiber_pref_ge6=1
phy_fiber_pref_ge7=1
phy_fiber_pref_ge8=1
phy_fiber_pref_ge9=1
phy_fiber_pref_ge10=1
phy_fiber_pref_ge11=1
phy_fiber_pref_ge12=1
phy_fiber_pref_ge13=1
phy_fiber_pref_ge14=1
phy_fiber_pref_ge15=1
phy_fiber_pref_ge16=1
phy_fiber_pref_ge17=1
phy_fiber_pref_ge18=1
phy_fiber_pref_ge19=1
phy_fiber_pref_ge20=1
phy_fiber_pref_ge21=1
phy_fiber_pref_ge22=1
phy_fiber_pref_ge23=1
phy_fiber_pref_ge24=1
phy_fiber_pref_ge25=1
phy_fiber_pref_ge26=1

```
phy_fiber_pref_ge27=1
phy_fiber_pref_ge28=1
phy_fiber_pref_ge29=1
phy_fiber_pref_ge30=1
phy_fiber_pref_ge31=1
phy_fiber_pref_ge32=1
phy_fiber_pref_ge33=1
phy_fiber_pref_ge34=1
phy_fiber_pref_ge35=1
phy_fiber_pref_ge36=1
phy_fiber_pref_ge37=1
phy_fiber_pref_ge38=1
phy_fiber_pref_ge39=1
phy_fiber_pref_ge40=1
phy_fiber_pref_ge41=1
phy_fiber_pref_ge42=1
phy_fiber_pref_ge43=1
phy_fiber_pref_ge44=1
phy_fiber_pref_ge45=1
phy_fiber_pref_ge46=1
phy_fiber_pref_ge47=1

phy_automedium_ge1=1
phy_automedium_ge0=1
phy_automedium_ge2=1
phy_automedium_ge3=1
phy_automedium_ge4=1
phy_automedium_ge5=1
phy_automedium_ge6=1
phy_automedium_ge7=1
phy_automedium_ge8=1
phy_automedium_ge9=1
phy_automedium_ge10=1
phy_automedium_ge11=1
phy_automedium_ge12=1
phy_automedium_ge13=1
phy_automedium_ge14=1
phy_automedium_ge15=1
phy_automedium_ge16=1
phy_automedium_ge17=1
phy_automedium_ge18=1
phy_automedium_ge19=1
phy_automedium_ge20=1
phy_automedium_ge21=1
phy_automedium_ge22=1
phy_automedium_ge23=1
phy_automedium_ge24=1
phy_automedium_ge25=1
```

phy_automedium_ge26=1
phy_automedium_ge27=1
phy_automedium_ge28=1
phy_automedium_ge29=1
phy_automedium_ge30=1
phy_automedium_ge31=1
phy_automedium_ge32=1
phy_automedium_ge33=1
phy_automedium_ge34=1
phy_automedium_ge35=1
phy_automedium_ge36=1
phy_automedium_ge37=1
phy_automedium_ge38=1
phy_automedium_ge39=1
phy_automedium_ge40=1
phy_automedium_ge41=1
phy_automedium_ge42=1
phy_automedium_ge43=1
phy_automedium_ge44=1
phy_automedium_ge45=1
phy_automedium_ge46=1
phy_automedium_ge47=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004
phy_port_primary_and_offset_ge5=0x0005
phy_port_primary_and_offset_ge6=0x0006
phy_port_primary_and_offset_ge7=0x0007
phy_port_primary_and_offset_ge8=0x0800
phy_port_primary_and_offset_ge9=0x0801
phy_port_primary_and_offset_ge10=0x0802
phy_port_primary_and_offset_ge11=0x0803
phy_port_primary_and_offset_ge12=0x0804
phy_port_primary_and_offset_ge13=0x0805
phy_port_primary_and_offset_ge14=0x0806
phy_port_primary_and_offset_ge15=0x0807
phy_port_primary_and_offset_ge16=0x1000
phy_port_primary_and_offset_ge17=0x1001
phy_port_primary_and_offset_ge18=0x1002
phy_port_primary_and_offset_ge19=0x1003
phy_port_primary_and_offset_ge20=0x1004
phy_port_primary_and_offset_ge21=0x1005
phy_port_primary_and_offset_ge22=0x1006
phy_port_primary_and_offset_ge23=0x1007
phy_port_primary_and_offset_ge24=0x1800
phy_port_primary_and_offset_ge25=0x1801

```
phy_port_primary_and_offset_ge26=0x1802
phy_port_primary_and_offset_ge27=0x1803
phy_port_primary_and_offset_ge28=0x1804
phy_port_primary_and_offset_ge29=0x1805
phy_port_primary_and_offset_ge30=0x1806
phy_port_primary_and_offset_ge31=0x1807
phy_port_primary_and_offset_ge32=0x2000
phy_port_primary_and_offset_ge33=0x2001
phy_port_primary_and_offset_ge34=0x2002
phy_port_primary_and_offset_ge35=0x2003
phy_port_primary_and_offset_ge36=0x2004
phy_port_primary_and_offset_ge37=0x2005
phy_port_primary_and_offset_ge38=0x2006
phy_port_primary_and_offset_ge39=0x2007
phy_port_primary_and_offset_ge40=0x2800
phy_port_primary_and_offset_ge41=0x2801
phy_port_primary_and_offset_ge42=0x2802
phy_port_primary_and_offset_ge43=0x2803
phy_port_primary_and_offset_ge44=0x2804
phy_port_primary_and_offset_ge45=0x2805
phy_port_primary_and_offset_ge46=0x2806
phy_port_primary_and_offset_ge47=0x2807

#C3 Fabric side 2xHG[42]
#xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_hg0=0x3210
xgxs_rx_lane_map_hg1=0x3210

#xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_hg0=0x3012
xgxs_tx_lane_map_hg1=0x3210
xgxs_lcpll_xtal_refclk_ge48=25
xgxs_lcpll_xtal_refclk_ge49=25

ddr3_tune_addrc_ci14.0=0x000000b2
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_vref_ci14.0=0x000007df
ddr3_tune_rd_dqs_ci14.0=0x98989494,0x99999494
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci14.0=0x009a9b99,0x009d9f9c
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_addrc_ci12.0=0x000000af
ddr3_tune_wr_dq_wl1_ci12.0=0x92929292,0x92929292,0x92929292,0x92929292
```

ddr3_tune_wr_dq_wl0_ci12.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dqs_ci12.0=0x90909393,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x82828282,0x82828282,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_en_ci12.0=0x009a9a9a,0x00989a96
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_addrc_ci10.0=0x000000b0
ddr3_tune_wr_dq_wl1_ci10.0=0x91919191,0x91919191,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_rd_dqs_ci10.0=0x98989696,0x99999393
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10.0=0x00a3a4a3,0x009fa19d
ddr3_tune_rd_data_dly_ci10.0=0x00000505
ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000075d
ddr3_tune_rd_dqs_ci8.0=0x99999393,0x91919494
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci8.0=0x00999a98,0x009a9b9a
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b1
ddr3_tune_wr_dq_wl1_ci6.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci6.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dqs_ci6.0=0x97979393,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_en_ci6.0=0x009a9b9a,0x00999a98
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b1
ddr3_tune_wr_dq_wl1_ci4.0=0x94949494,0x94949494,0x94949494,0x94949494

```
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dqs_ci4.0=0x98989393,0x97979999
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci4.0=0x009c9d9c,0x00999a99
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci2.0=0x000000b0
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dqs_ci2.0=0x92929292,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x84848484,0x84848484,0x82828282,0x82828282
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x84848484,0x84848484,0x82828282,0x82828282
ddr3_tune_rd_en_ci2.0=0x009f9f9f,0x00a5a6a4
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_wr_dq_wl1_ci0.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_vref_ci0.0=0x0000079e
ddr3_tune_rd_dqs_ci0.0=0x98989595,0x98989797
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0.0=0x00a2a3a2,0x009fa19e
ddr3_tune_rd_data_dly_ci0.0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-48x1g-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rce.c,v 1.74.10.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    rce.c
* Purpose: Caladan3 Rule Classifier drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/rce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1xil100_48chan_1xhg127.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1xil100_channelized_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ingress_latency_measurements.c, v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ingress_latency_measurements.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_ocb_dram_buffers.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ocb_dram_buffers.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_dram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy56xxx.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdesdozen.h
* Purpose:    BCM56xxx (FB/ER) Internal Dodeca Serdes PHY Driver
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy56xxx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp.h,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_kbp_recover.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_kbp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2k.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains aggregated definitions for Guadalupe 2.x microcode
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/qe2k.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_debug.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_debug.h
* Purpose:    CINT debug interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_debug.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_kaps_xpt.c, hagayco Exp $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_kaps_xpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     BCM Layer-2 switch API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module implement a Roll-Back Journal for the SW State infrastructure layer,
*       the roll-back is needed in order to implement Crash Recovery (and generic Error Recovery)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/sw_state_journal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_journal.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_common_err_code.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: northstarplus_service.h,v 1.1.2.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/northstarplus_service.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2BEntry.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2BEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_arad_pfc_reception_mapping.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_arad_pfc_reception_mapping.c
* Purpose: Examples of how to map PFC source to port target and map PFC source to relevant priority in all ports on same interface.
*
* 1. map PFC source to port target
*
*  Example - map PFC 0 to OTM port 1 and map PFC 1 to OTM port 2
*
*  Environment:
*    - Both OTM port 1 and OTM port 2 are mapped on the same physical port 14.
*      some relevant SOC properties
*      - ucode_port_1.BCM88650=10GBase-R14.0
*      - ucode_port_2.BCM88650=10GBase-R14.0
*      - port_priorities_1.BCM88650=2
*      - port_priorities_2.BCM88650=2
*
*  Expectation:
*    1) when PFC 0 indication received, only traffic on port 1 is stopped.
*    2) when PFC 1 indication received, only traffic on port 2 is stopped.
*
*  To Activate Above Settings Run:
*    BCM> cint examples/dpp/cint_arad_pfc_reception_mapping.c
*    BCM> cint
*    cint>
*    cint> cint_pfc_mapping_port_over_pfc_set_example(unit, 1, 0);
*    cint> cint_pfc_mapping_port_over_pfc_set_example(unit, 2, 1);
*
*
* 2. map PFC source to relevant priority in all ports on same interface
*
*  Example - map PFC 0 to priority 0 in port 1 and port 2 on same interface.
*
*  Environment:
*    - Both OTM port 1 and OTM port 2 are mapped on the same physical port 14.
*      some relevant SOC properties
```

```
*      - ucode_port_1.BCM88650=10GBase-R14.0
*      - ucode_port_2.BCM88650=10GBase-R14.0
*      - port_priorities_1.BCM88650=2
*      - port_priorities_2.BCM88650=2
*
*  Expectation:
*    when PFC 0 indication received, traffic of priority 0 on port 1 and traffic of priority 0 on port 2 are stopped.
*
*  To Activate Above Settings Run:
*    BCM> cint examples/dpp/cint_arad_pfc_reception_mapping.c
*    BCM> cint
*    cint>
*    cint> cint_pfc_mapping_intf_cosq_pfc_set_example(unit, 1, 0);
*    Or
*    cint> cint_pfc_mapping_intf_cosq_pfc_set_example(unit, 2, 0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_arad_pfc_reception_mapping.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_sram.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_sram.c
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_fe_auto_ex.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_fe_auto_ex.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: The CINT demonstrates a Controlling bridge configuration as part of a Port Extender (802.BR)
application.
*
* The example below handles L3 MC traffic.
*
*
* Network diagram
*
*
*                    -------------------------------------
*                   |                            |
*                   |                            |
*                   |            ROUTER              |
*                   |                            |
*                   |  ---------            ------    |
*                   | |  VSI1   |  . . .    | VSI4 |   |
*                   |  ---------            ------    |
*                   |   |                  |      |
*                   |   | RIF1     . . .   RIF4|      |
*                   |____|___________________________|________|
*                       |                  |
*                       |                  |
*                      host1                 host4
*                    <ecid 100,vid 10>        <ecid 103,vid 13>
*
*
* SOC properties:
* 1. Configure the device to be a Control Bridge: extender_control_bridge_enable. 1: Enable, 0: Disable.
* 2. Set the number of bytes to prepend to the start of the packet: prepend_tag_bytes = 8B
* 3. Set the offset in bytes from the DA/SA in the packet from which to prepend the tag: prepend_tag_offset = 0
*
* CINT files:
* cd ../../../../src/examples/dpp
* cint cint_utils_global.c
* cint cint_utils_port.c
* cint cint_advanced_vlan_translation_mode.c
* cint cint_utils_vlan.c
* cint cint_utils_extender.c
* cint cint_port_extender_cb_l3_mc.c
* cint
*
* port_extender_cb_l3_mc__start_run(int unit, port_extender_cb_l3_mc_s *param) - param = NULL for default
params
*
* All default values could be re-written with initialization of the global structure 'g_port_extender_cb_l3_mc', before
calling the main function.
```

* In order to re-write only part of the values, call 'port_extender_cb_uc_struct_get(port_extender_cb_l3_mc_s)' function and re-write the values
* prior to calling the main function.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_extender_cb_l3_mc.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: flashSflashDrvLib.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: flashSflashDrvLib.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/flashSflashDrvLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashSflashDrvLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashSflashDrvLib.c
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The part of PCID that simulates the cmic
*
* Requires:
*
* Provides:
* soc_internal_pcic_init
* soc_internal_read
* soc_internal_write
* soc_internal_reset
* soc_internal_vlan_tab_init
* soc_internal_memory_fetch
* soc_internal_memory_store
* soc_internal_manual_hash
* soc_internal_vlan_tab_init
* soc_internal_manual_hash
* soc_internal_send_int

```
*     soc_internal_table_dma
*     soc_internal_schan_ctrl_write
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/cmicsim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_trap_mgmt.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_trap_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo.c
* Purpose:    Topology mapping, when so programmed.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/topo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmx_int.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx_int.h
* Purpose:    Internal header file for BCMX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/bcmx_int.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* Broadcom SiliconBackplane hardware register definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbconfig.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbconfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vlan_egress_membership.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of employing egress vlan membership
*
* Tests scenario:
*
* step 1:  Egress tag acceptance disabled
*         no vlan discard for all packets
*
* step 2:  Add vlan_i to to discard list of port_i
*         vlan_i tag will be removed from the header
*
* Only in advanced mode:
* step 3:  Set packet is untagged after EVE
*         A packet tagged with vlan_i will be treated as untagged and its vlan won't be discarded
*
* Example:
*
* 1. Egress tag acceptance disabled
*
*              INPUT       ___________________________        OUTPUT
*                        |                    |
*                port 200 |                    | port 201
*                vlan 100 |                    | vlan 100
*     --------------------->|                    |----------------------->
*                        |____________________________|
*
* 2. Vlan 100 in discard list
*
*              INPUT       ___________________________        OUTPUT
*                        |                    |
*                port 200 |   vlan 100 tag         | port 201
```

```
*                 vlan 100 |   is removed          | untagged
*     --------------------->|                     | ----------------------->
*                           |_____________________________|
*
* 3. Vlan 100 in discard list and packet is untagged flag is set
*
*              INPUT        ___________________________        OUTPUT
*                           |                     |
*                 port 200 |                     | port 201
*                 vlan 100 |                     | vlan 100
*     --------------------->|                     | ----------------------->
*                           |_____________________________|
*
*
* SOC properties:
* custom_feature_outer_vid_existence_class_mode = 1
* for step 3 only (Advanced Mode):
* bcm886xx_vlan_translate_mode = 1
*
* CINT files:
* cd ../../../../src/examples/dpp/
* utility/cint_utils_l2.c
* utility/cint_utils_vlan.c
* utility/cint_utils_port.c
* cint_port_tpid.c
* cint_vlan_egress_tag_acceptance.c
*
* vlan_egress_tag_acceptance__start_run(int unit, vlan_egress_membership_s *test_data) - test_data = NULL for
default params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_egress_tag_acceptance.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyecd.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyecd.c
* Purpose:     PHY ECD routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyecd.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Test Suites
*
* This framework can launch test suites to validate BSL functionality
* for correctness and backward compatibilty.
*
* Each test suite is composed of one or more reusable test cases.
*
* There are two main entries:
*
*   bsltest_run(int)   - run a test suite
*   bsltest_list()     - list all test suite
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bsltest.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ppe_diags_h.stg,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_ppe_diags.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemQCtlEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemQCtlEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: ethernet.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* From FreeBSD 2.2.7: Fundamental constants relating to ethernet.
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/proto/ethernet.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for managing loopback headers
* These are mainly used for debug purposes
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/loopback.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_drv.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
```

```
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_drv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_drv.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_general.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_general.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/cosq.c

No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: ped_h.stg,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_ped.h: Guadalupe3k V1.0 PED configuration
*
* DO NOT EDIT THIS FILE!
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_ped.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon_furia_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: falcon_furia_usr_includes.h 869 2015-01-23 00:24:44Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_usr_includes.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCfgTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredCfgTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*                                                                              *
*  Revision      :  $Id: eagle_phy_1_dependencies.h 1466 2016-07-27 15:28:10Z cvazquez $ *
*                                                                              *
*  Description   :  API Dependencies to be provided by IP user                *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                              *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                              *
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFe2000PmProfileMemory.hx,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileMemory.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_tdm_example.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tdm_example.c
* Purpose: Example shows setup configuration of TDM standard and optimize modes, with and without inner
FTMH header.
*
* These modes are for devices that are dedicated to OTN/TDM traffic only.
*
* Application Sequence:
*  1.  Set cell size constraints.
*  2.  For a TDM port, configure the port editing settings to enable the following actions:
*     o    At the ingress, the FTMH header is generated by the device itself.
*     o    At the egress, the FTMH header is removed.
*
* For Arad the CINT consists of two applications: TDM standard and TDM optimize.
*  o   TDM standard/optimize with inner FTMH header:
*     o   Set the cell size range to min_size-max_size.
*     o   Configure the port editing settings to enable the following actions:
*         o    At the ingress: appending FTMH with a unicast/multicast destination
*              (user settings) and user defined fields.
*         o    At the egress: removing FTMH.
*     o   To run application:
*         arad_tdm_example (unit,incoming_port_id, is_multicast, is_optimize_mode ,min_size, max_size)
*     o   Run traffic from the incoming port. Note that the packet is considered to be payload only,
*         since the forwarding decision is performed via the appended FTMH.
*     o   You can configure different settings for the port editing, including a different
*         destination port, multicast group settings, FTMH actions, and user defined fields.
*     Note: Before running the following TDM standard application, be sure the device is configured for
*     TDM Standard/optimize. in add config-sand:
*         o   fap_tdm_bypass.BCM88650_A0=TDM_OPTIMIZED/fap_tdm_bypass.BCM88650=TDM_STANDARD
*         o   tm_port_header_type_<incoming_port_id>.BCM88650=TDM (for example
tm_port_header_type_13.BCM88650=TDM)
*  o   TDM standard/optimize with no inner FTMH header:
*     o   Set the cell size range to min_size-max_size.
*     o   Configure the port editing settings to disable the adding and removing FTMH headers at the ingress and
egress.
*     o   To run application:
*         arad_tdm_outter_header_example (unit,incoming_port_id, is_multicast, in_size, max_size)
*     o   Run traffic from the incoming port. Note that the packet is not considered to be payload only,
*         since the forwarding decision is disabled via the appended FTMH.
*     o   the packet header should contain the appropriate data:
*             Uniticast Standard FTMH: DESTINATION_FAP_ID[3:13] OUT_FAP_PORT[33:40]
Type(UC/MC)[48:48]
*             Multicast Standard FTMH: DESTINATION_FAP_ID[3:13] OUT_FAP_PORT[49:56]
Type(UC/MC)[48:48] Internaluse[41:49] must be define to 11111111
*             Uniticast Optimize FTMH  DESTINATION_FAP_ID[13:23] OUT_FAP_PORT [24:31]
```

```
Type(UC/MC)[8:8]
*            Multicast Optimize FTMH  MC-ID[13:31] Type(UC/MC)[8:8]
*     o   You can configure different settings for the port editing, including a different
*         destination port, multicast group settings, FTMH actions, and user defined fields.
*     Note: Before running the following TDM standard application, be sure the device is configured for
*     TDM Standard/optimize. in add config-sand:
*         o   fap_tdm_bypass.BCM88650_A0=TDM_OPTIMIZED/fap_tdm_bypass.BCM88650=TDM_STANDARD
*         o   tm_port_header_type_<incoming_port_id>.BCM88650=TDM (for example
tm_port_header_type_13.BCM88650=TDM)
* For Petra the CINT consists of two applications: TDM standard and TDM optimize.
*  o   TDM standard:
*     o   Set the cell size range to 70-120.
*     o   Configure the port editing settings to enable the following actions:
*         o    At the ingress: appending FTMH with a unicast/multicast destination
*             (user settings) and user defined fields.
*         o    At the egress: removing FTMH.
*     o   To run application:
*         petra_std_tdm_example (unit, incoming_port_id, is_multicast)
*     o   Run traffic from the incoming port. Note that the packet is considered to be payload only,
*         since the forwarding decision is performed via the appended FTMH.
*     o   You can configure different settings for the port editing, including a different
*         destination port, multicast group settings, FTMH actions, and user defined fields.
*     Note: Before running the following TDM standard application, be sure the device is configured for
*     TDM Standard in dune.soc: Uncomment tdm=1
*
*  o   TDM optimize:
*     Note: Before running the following TDM optimize application, be sure the device is configured for
*     TDM Optimize in dune.soc: Uncomment tdm=1 and add fap_device_mode=TDM_OPTIMIZED.
*     o   Set the fixed cell size to 78.
*     o   Configure the port editing settings to enable the following actions:
*         o    At the ingress: appending FTMH with a unicast/multicast destination (user settings).
*         o    At the egress: removing FTMH.
*     o   To run application:
*         petra_opt_tdm_example (unit, incoming_port_id, is_mc_settings)
*     o   Run traffic from the incoming port. Note that the packet is considered payload only,
*         since the forwarding decision is performed via the appended FTMH.
*     o   You can configure different settings for the port editing, including a different incoming port,
*         destination port, multicast group settings, and FTMH actions.
*
*
*  BCM> examples/dpp/utility/cint_utils_multicast.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tdm_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Failover APIs
*
* Purpose:
*     Failover API for Dune Soc_petra using PPD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/failover.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTciDmac.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTciDmac.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allocator.h,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allocator.h
* Purpose:    Internal routines to the BCM library for allocating
*             gu2 resources.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/allocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/oam.c
```

```
* Purpose:     BCMX OAM APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/oam.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-100g.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100G setup
#

ddr3_auto_tune=0
caladan3_etu_enable=0
load_firmware=1
#lrp_bypass=1

line_pr_buffer_profile=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=1
ucode_port.port1.0=clport0.ce.0.0:clport1.hg126.0.0

xgxs_rx_lane_map_core0_ce0=0x1230
xgxs_rx_lane_map_core1_ce0=0x1032
xgxs_rx_lane_map_core2_ce0=0x1230

xgxs_tx_lane_map_core0_ce0=0x1032
xgxs_tx_lane_map_core1_ce0=0x3210
xgxs_tx_lane_map_core2_ce0=0x1032

phy_xaui_rx_polarity_flip_ce0=0x0bf9

phy_xaui_tx_polarity_flip_ce0=0x0cf3


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032
```

```
xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

higig2_hdr_mode_hg0=1

#C3 Fabric side no pority swap

#CXP to WC lane map
mld_lane_swap_lane23_ce0=5
mld_lane_swap_lane22_ce0=4
mld_lane_swap_lane21_ce0=3
mld_lane_swap_lane20_ce0=2
mld_lane_swap_lane19_ce0=1
mld_lane_swap_lane18_ce0=0
mld_lane_swap_lane17_ce0=23
mld_lane_swap_lane16_ce0=22
mld_lane_swap_lane15_ce0=13
mld_lane_swap_lane14_ce0=12
mld_lane_swap_lane13_ce0=11
mld_lane_swap_lane12_ce0=10
mld_lane_swap_lane11_ce0=9
mld_lane_swap_lane10_ce0=8
mld_lane_swap_lane9_ce0=7
mld_lane_swap_lane8_ce0=6
mld_lane_swap_lane7_ce0=21
mld_lane_swap_lane6_ce0=20
mld_lane_swap_lane5_ce0=19
mld_lane_swap_lane4_ce0=18
mld_lane_swap_lane3_ce0=17
mld_lane_swap_lane2_ce0=16
mld_lane_swap_lane1_ce0=15
mld_lane_swap_lane0_ce0=14

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
```

ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e

ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080

ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-1x100g-1xhg127.bcm

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmIngressRankerEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmIngressRankerEntry.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_dino_functions.c                                    *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs for Serdes IPs                                         *
*  Revision      :  $Id: falcon2_dino_functions.c 1404 2016-04-14 22:49:19Z cvazquez $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*     Broadcom Corporation                                                     *
*     5300 California Avenue                                                   *
*     Irvine, CA  92617                                                        *
*                                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    vlan.c
* Purpose: Handle trident2 specific vlan features:
*          Manages VP VLAN membership tables.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cos.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Trident L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_sch.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_sch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memlog.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  memlog.h
* Purpose:  Supports memlog memory leak tool
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/memlog.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_arad_pp_frwrd_ipv4_test.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_arad_pp_frwrd_ipv4_test.h
No license file was found, but licenses were detected in source scan.

```
/* $ID: cint_field_key_a.c, v 1.1 2016/01/26 skoparan$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_field_key_a.c
* Purpose: Cint for testing the usage of key-A
*
* Main functions to be called from DVAPI:
* ----------------------------------------
*  run_fg_add(int unit, int is_single, int group_id, int group_priority)
*      creates 1 field group with 1 entry.
*      if is_single set, the group will use single TCAM bank (Key-A group)
*
*  run_entry_add(int unit, int group_id, int group_priority, int num)
*      creates 1 field group with *num* entries
*      group is for key-A
*
* Cleanup functions:
* ------------------
*  field_group_destroy(int unit, int group_id)
*      destroys the group with the specified group_id
*
*  field_groups_destroy_all(int unit)
*      destroys all entries and all field groups, using traverse callback
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_key_a.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredAvQlenTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredAvQlenTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fileio.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  fileio.c
* Purpose: File I/O
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/linux/fileio.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_pll_config.c                                    *
*  Created On    :  14/07/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Merlin PLL Configuration API                           *
*  Revision      :  $Id: merlin_pll_config.c 924 2015-02-24 18:08:11Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
```

```
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_pll_config.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQ2EcEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQ2EcEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassProtocolEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassProtocolEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy82780.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy82780.c
* Purpose:     Support for Quadra28 external PHY
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82780.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_cmu_sim.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cmu_sim.c: Guadalupe2k V1.3 CMU sim
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_cmu_sim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_flow_control.c,v 1.8.24.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC FLOW CONTROL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: oam.c,v 1.0.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*  oam.c
*
* Purpose:
```

```
*  OAM implementation for trident2p family of devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPost.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*             additional components necessary for SDK.
*             Includes this file immediately after configAll.h
*             in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/configSdkPost.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sflash.c,v 1.1 2013/12/02 08:34:59 kevinwu Exp $
* $Copyright: (c) 2013 Broadcom Corp.
* All Rights Reserved.$
*
* File:    sflash.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/sflash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm3200_cmds.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bm3200_cmds.h
* Purpose:     BM-3200 diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/diag/sbx/bm3200_cmds.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: lb.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM layer LB APIs
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/lb.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: README.vxworks,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

BCM570x/SENS Driver (VxWorks 5.4.x / Tornado 2.0)

Last updated: 06/05/02 by Jimmy Blair <jblair@broadcom.com>
Previously updated: 09/10/01 by James Dougherty <jfd@broadcom.com>

I. Overview

The BCM570x END driver is ported from the b57um module for Linux 3.0.2;
the driver uses the same underlying tigon3 driver and implements the
Middle-Module (MM) to interface to the END interface defined in bcm570xEnd.

II. Configuration

In your BSP there will typically be two files that configure the
ethernet driver. They are:
  sysBcm570xEnd.c
  configNet.h

See the template files in this directory for an example configuration.

III. Build rules

Here are a couple of examples of build rules for the driver. These
came from actual working BSP Makefiles. :) You may want to integrate these
rules, or something very similar, into your own BSP Makefile.

PPC running a 5701 at 10/100:

```
# Broadcom BCM570x Gigabit Ethernet Driver

BCM570X_SRC_DIR = ../../drv/bcm570x

BCM570x_OBJS = bcm570x/bcm570xEnd.o bcm570x/tigon3.o bcm570x/autoneg.o \
            bcm570x/5701rls.o

BCM570X_FLAGS = -DINCLUDE_5701_AX_FIX=1 -DVXWORKS -DDBG=0

bcm570x/%.o : $(BCM570X_SRC_DIR)/%.c
      $(CC) -I$(BCM570X_SRC_DIR) $(CFLAGS) $(BCM570X_FLAGS) -O0 -c $< -o $@
```

You don't need to define BIG_ENDIAN_HOST in the build flags. The driver
knows what endianness you are by looking the the VxWorks headers.

##

MIPS, big endian:

```
#
#  N.B.:  BE Mips has one more define than PPC -- BIG_ENDIAN_PCI
#
BCM570X_SRC_DIR = ../../drv/bcm570x

BCM570X_FLAGS = -DINCLUDE_5701_AX_FIX=1 -DBIG_ENDIAN_PCI=1 -DDBG=0

bcm570x/%.o : $(BCM570X_SRC_DIR)/%.c
      $(CC) -I$(BCM570X_SRC_DIR) $(CFLAGS) $(BCM570X_FLAGS) -c $< -o $@
```

This driver seems to build and work OK at either -O2 or -O0. Wind River
usually builds there drivers at -O0, but you might want to take your chances.

There are plenty more flags that can be defined on the build line. See
the driver source, bcm570xEnd.c for a description.

##

Also in this directory you'll find an example Makefile. You can build the
driver here if you don't want to incorporate new build rules into your
existing Makefile. Please see the Makefile for more information before

you build. If you just type "make" in this directory, it's not going to work!

IV. Platform Specifics
---

1) This version of the END driver was tested on VxWorks 5.4.x on a Broadcom board with a PPC 8245, and another Broadcom board with an IDT RC32364. Earlier versions of this driver did not work on MIPS zero-copy transmit enabled. This has been fixed. For MIPS platforms that don't have bus snooping, make sure that the following function pointers are defined in your BSP:

```
cacheDmaFuncs.flushRtn = cacheLib.flushRtn;
cacheDmaFuncs.invalidateRtn = cacheLib.invalidateRtn;
```

2) Initial Packet Buffer pools are reserved by the driver of sizes defined in the bcm570xEnd.h header file. In particular, you may need to experiment with:

```
#define BCM570X_END_CLBUFS     512     /* Cluster Buffers */
#define BCM570X_END_CLBLKS     512     /* Total Cluster Headers */
#define BCM570X_END_MBLKS      512     /* Total Packet Headers */
#define BCM570X_END_PK_SZ     2048     /* Maximum Packet Size */
```

to find the optimal values for your platform. You may wonder why the packet size is defined much greater than the typical ethernet MTU. It needs to be big enough such that there's at least an extra cache-line's work of space at the end of each buffer. 2048 is, of course, really big. That is in there because earlier versions of the driver used netTupleGet, which only functions properly when buffer sizes are a power of 2. You may want to reduce the number of buffers -- 512 is also absurdly large. If you do, keep in mind that the number of clusters must be greater than the number of preallocated receive buffer, which is DEFAULT_STD_RCV_DESC_COUNT in tigon3.h. Also, if you aren't using zero copy transmit then you also need to allow for some transmit buffers.

Take a look at some of the macros defined in mm.h if you're having problems with endianness, zero-copy, etc.

V. From the WindShell

When properly configured, you should be able to run WindShell and use the ifShow() and muxShow() VxWorks API routines to see your driver bound to the stack and the IP configuration in use.

```
-> muxShow()
```

```
Device: bc Unit: 0
Description: Broadcom BCM570x Gigabit Ethernet SENS Driver
Protocol: Wind Debug Agent      Type: 257       Recv 0x1d58c4   Shutdown 0x0
Protocol: IP 4.4 ARP    Type: 2054      Recv 0x1e9ccc   Shutdown 0x1e9f90
Protocol: IP 4.4 TCP/IP Type: 2048      Recv 0x1e9ccc   Shutdown 0x1e9ec8
value = 0 = 0x0

-> ifShow("bc0")
bc (unit number 0):
    Flags: (0x8063) UP BROADCAST MULTICAST ARP RUNNING
    Type: ETHERNET_CSMACD
    Internet address: 172.16.41.11
    Broadcast address: 172.16.47.255
    Netmask 0xffff0000 Subnetmask 0xfffff000
    Ethernet address is 00:10:18:01:0a:94
    Metric is 0
    Maximum Transfer Unit size is 1500
    6 packets received; 7 packets sent
    1 multicast packets received
    1 multicast packets sent
    0 input errors; 0 output errors
    0 collisions; 0 dropped
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/README.vxworks
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: sbucket.h,v 1.40.12.1 Broadcom SDK $
*
* TAPS sram bucket defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/sbucket.h
No license file was found, but licenses were detected in source scan.

```
# $Id: tdsanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

if $?BCM56743_A0 || $?BCM56743_A1 || $?BCM56743_A2 || $?BCM56743_A3 || \
  $?BCM56743_A4 || $?BCM56743_B0 || $?BCM56743_B1 \
   'local titan 1'
if $?BCM56745_A0 || $?BCM56745_A1 || $?BCM56745_A2 || $?BCM56743_A5 || \
  $?BCM56745_A4 || $?BCM56745_B0 || $?BCM56745_B1 \
   'local titan 1'
if $?BCM56744_A0 || $?BCM56744_A1 \
   'local titan 1'
if $?BCM56746_A0 || $?BCM56746_A1 \
   'local titan 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'
```

```
#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';

init soc;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ARB_TDM_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
```

```
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr50;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GM_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
```

```
local mem 'IARB_MAIN_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr50;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN0'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN1'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr50;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr50;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr50;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr50;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr50;
local mem 'L2_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA52'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA53'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA54'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA55'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA56'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA60'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA61'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA62'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA63'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA64'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA65'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA66'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA67'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA68'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA69'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA70'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA71'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA72'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA73'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA74'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA75'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA76'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA77'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA78'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA79'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA80'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA81'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA82'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA83'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA84'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA85'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA86'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA87'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA88'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA89'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA90'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA91'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA92'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA93'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA94'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA95'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA96'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA97'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA98'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA99'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA100'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA101'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA102'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA103'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK2'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK3'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CPQLINK'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP1'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP2'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP3'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP4'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP5'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP6'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP7'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP8'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP9'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP10'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP11'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP12'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP13'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP14'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP15'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP16'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP17'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP18'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP19'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP20'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP21'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP22'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP23'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP24'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP25'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP26'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP27'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP28'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP29'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP30'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP31'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP32'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP33'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP34'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'IPMC_GROUP35'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP36'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP37'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP38'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP39'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP40'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP41'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP42'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP43'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP44'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP45'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP46'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP47'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP48'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP49'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP50'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP51'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP52'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP53'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP54'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP55'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP56'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP57'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP60'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP61'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP62'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP63'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP64'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_GROUP65'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO62'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO63'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO64'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO65'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_PQE_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE1'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQCFG'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_EX_1'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDO_QDRPRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QDRPRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QREDRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_EX_1'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_SP_0'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_QYELRST_SP_1'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_RP'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_DEQ1'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ0'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_DROP_THD_UC_ENQ1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr50;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_CONFIG_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_1B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_0B'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1A'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_OFFSET_EX_1B'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MAC'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VRF'; $name; $tr50; $tr51; $tr52;

init soc
init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr50; $tr51; $tr52;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';

init soc
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_PORT_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GLB_QUANTIZE_THRESHOLDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_LINK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_BASE_ADDR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ESBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GM_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_MAIN_TDM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VINTF_COUNTER_TABLE_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ISBS_PORT_TO_PIPE_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_REPLACE_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_MULTICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_UNICAST'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MULTIPASS_LOOPBACK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VLAN_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MAC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VRF'; $name; $tr71_1; $tr71_2; $tr71_3;

init misc
local mem 'FP_GLOBAL_MASK_TCAM_X'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_GLOBAL_MASK_TCAM_Y'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
if !$?titan \
  'echo "Running L2 insert/delete/lookup test ..." \
   tr 32 \
   $done'

if !$?titan \
  'echo "Running L2 overflow insert test ..." \
   tr 33 \
   $done'

if !$?titan \
  'echo "Running L2 hash test ..." \
   tr 34 \
```

```
    $done'

if !$?titan \
   'echo "Running L2 delete by port test ..." \
    tr 35 \
    $done'

if !$?titan \
   'echo "Running L2 delete by vlan test ..." \
    tr 36 \
    $done'

if !$?titan \
   'echo "Running IPV4 overflow insert test ..." \
    tr 87 IPMCEnable=False \
    tr 87 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV4 hash test ..." \
    tr 88 IPMCEnable=False \
    tr 88 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 overflow insert test ..." \
    tr 85 IPMCEnable=False \
    tr 85 IPMCEnable=True \
    $done'

if !$?titan \
   'echo "Running IPV6 hash test ..." \
    tr 86 IPMCEnable=False \
    tr 86 IPMCEnable=True \
    $done'

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 Hash=0
tr 101 Hash=1
tr 101 Hash=2
tr 101 Hash=3
tr 101 Hash=4
tr 101 Hash=5
$done
```

```
echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 Hash=0
tr 103 Hash=1
tr 103 Hash=2
tr 103 Hash=3
tr 103 Hash=4
tr 103 Hash=5
$done

echo "Running MDIO Linkscan test"
tr 60
$done

if !$?titan \
  'echo "Testing CPU DMA loopback ..." \
   tr 17 \
   $done'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=10G
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done
```

```
echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=10G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
if !$?titan \
  'echo "Running internal snake on all ports, MAC loopback ..." \
   tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe \
   $done'

if !$?titan \
  'echo "Running internal snake on all ports, PHY loopback ..." \
   tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe \
   $done'

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=xe
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56835sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_pm_pack.c,v 1.13 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       oam_pm.c
* Purpose:    OAM_PM pack and unpack routines for:
*             - OAM_PM Control messages
*             - Network Packet headers (PDUs)
*
*
* OAM_PM control messages
*
* OAM_PM messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The OAM_PM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/oam_pm_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: harrier_service.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/harrier_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.433 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_ipsec.h,v 1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    qax_ipsec.h
* Purpose: Manages IPSec block
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_ipsec.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_ppa_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_ppa_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_sch.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_sch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwAllocRateEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwAllocRateEntry.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon2_dino_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: falcon2_dino_usr_includes.h 1139 2015-09-17 23:39:05Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVRTConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVRTConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cos.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS CLI commands
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_ddr40.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR3 Memory support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shmoo_ddr40.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_dir_ext.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*     Direct extraction suppot
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_dir_ext.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_fp_fem.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_fp_fem.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_phy_1_functions.c                                    *
*  Created On    :  29/04/2013                                        *
```

```
*  Created By    :  Kiran Divakar                                    *
*  Description   :  APIs for Serdes IPs                              *
*  Revision      :  $Id: eagle_phy_1_functions.c 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                          *
*      5300 California Avenue                                        *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                    *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_functions.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_eg_encap_access.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/QAX_PP/qax_pp_eg_encap_access.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_egr_prog_editor.c,v 1.142.2.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_egr_prog_editor.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2AEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2AEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sandHalFrameHwQe2000FMVT.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sandHalFrameHwQe2000FMVT.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: stat.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stat.h
* Purpose:     stat internal definitions specific to Caladan3 BCM library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.h,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bfd.h
* Purpose: BFD definitions common to SDK and uKernel
*
* Notes:   Definition changes should be avoided in order to
*          maintain compatibility between SDK and uKernel since
*          both images are built and loaded separately.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/shared/bfd.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_trap.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_trap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     L2 CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/l2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_qos.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_eg_qos.h
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_qos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd_msg.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bfd_msg.h
* Purpose: BFD Messages definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bfd_msg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_framework.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/vswitch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_switch.c,$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file provides switch basic functionality
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: led.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       led.c
* Purpose:    LED driver support
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/led.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_e.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_e.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ref_design_petra_starter.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/ref_design_petra_starter.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ipmc.c,v 1.40 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ipmc.c
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi4Selected_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1WstEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1WstEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: higig.h,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       higig.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/higig.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_nif.h,v 1.34 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_nif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_vlan.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: VLAN APIs
*
* Purpose:
*     VLAN API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_vlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_multi_set.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* FILENAME:       dnx_sand_multi_set.c
*
* FILE DESCRIPTION:
*   The bit stream modules
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_multi_set.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       shr_occupation.h
*
* Global occupation management
*
* Provides a mechanism to allocate and manipulate bits (henceforth "items")
* in a bitmap (henceforth "map"), according to input constraints.
* After the allocation, the user can get and set the items in the map,
* referring to them only by their IDs.
*
* Allowed constraints:
*   An item may require to have a certain amount of bits.
*   An item can specify which bits may be allocated for it.
*
*
* Example and usage guidelines:
* ----------------------------
*
*   The challenge:
*     We have a "bag" of size 4 bits [0-3].
*   We want to put 3 "artifacts" in this bag:
*     - notebook: requires one bit.
*     - bottle: requires one of the two MSBs.
*               That is, only bits 2 or 3 may be allocated for the bottle.
*     - laptop: requires two bits of the three LSBs.
*
*   The Solution:
*     To solve this problem we will create a map of size 4 to represent the bag.
*         functions in use: shr_occ_map_args_init(), shr_occ_map_create.
*     Then we will add the 3 items to represent the artifcats.
*         functions in use: shr_occ_item_init(), shr_occ_map_add_item().
*     Then we can solve these constraints and allocate bits for the items in the map.
*         functions in use: shr_occ_map_solve().
*
*   This solution is not exposed for the user - the user doesn't know which bits are allocated
*   for each item. He only knows that the constrains are maintained.
*
*   Saving and Using the solution:
*         In order to save and load the solution, the user passes "save" and "load" callbacks to
*     the map_args_init function.
*         The user can then access the items and set their values from 0 to 2^(b-1),
*     where 'b' is the number of bits the item required.
*         For that he can use the provided access function: shr_occ_mgmt_item_access().
*     This function takes as argument a "bag" item that represents the current bag state (the values of its itmes).
```

```
*      Then using the item's ID in the access function, only the item-relevant part of the
*      bag will be changed (on "set") / returned (on "get").
*
*   For a code reference, you can take a look at:
*   sdk/src/soc/dpp/ARAD/ARAD_PP/arad_pp_occupation_mgmt.c
*   functions: arad_pp_occ_mgmt_init_inlif_profile(), arad_pp_occ_mgmt_app_get(),
arad_pp_occ_mgmt_app_set().
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_occupation.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.108 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Sirius Multicast API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/multicast.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ingress_scheduler.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXC CAPTURED BUFFER H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_captured_buffer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vm.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/vm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_mpls_term.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_diag.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_mymac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_lif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_mpls_term.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_mpls_term.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision     :  $Id: falcon_api_uc_common.h 1172 2015-10-06 19:34:58Z kirand $  *
*                                                                            *
*  Description   :  Defines and Enumerations required by Falcon ucode        *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*     Broadcom Corporation                                                   *
```

```
*      5300 California Avenue                                    *
*      Irvine, CA  92617                                         *
*                                                                *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident2+ Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

if $?BCM56868_A0 || $?BCM56868_A1 \
  'local titan2plus 1'

if $?xgxs_tx_lane_map_core0_ce0 && $?xgxs_tx_lane_map_core0_ce1            \
        && $?xgxs_tx_lane_map_core0_ce2 && $?xgxs_tx_lane_map_core0_ce3 \
        && $?xgxs_tx_lane_map_core0_ce4 && $?xgxs_tx_lane_map_core0_ce5 \
        && $?xgxs_tx_lane_map_core0_ce6 && $?xgxs_tx_lane_map_core0_ce7 \
        'local all_ce 1'

if !$?all_ce && $?xgxs_tx_lane_map_core0_1 && $?xgxs_tx_lane_map_core0_2 \
        && $?xgxs_tx_lane_map_core0_3 && $?xgxs_tx_lane_map_core0_4  \
        && $?xgxs_tx_lane_map_core0_5 && $?xgxs_tx_lane_map_core0_6  \
        && $?xgxs_tx_lane_map_core0_7 && $?xgxs_tx_lane_map_core0_8  \
        'local all_ce 1'

if !$?all_ce && $?xgxs_tx_lane_map_core0_1 || $?xgxs_tx_lane_map_core0_2 \
```

```
   || $?xgxs_tx_lane_map_core0_3 || $?xgxs_tx_lane_map_core0_4         \
   || $?xgxs_tx_lane_map_core0_5 || $?xgxs_tx_lane_map_core0_6         \
   || $?xgxs_tx_lane_map_core0_7 || $?xgxs_tx_lane_map_core0_8         \
   'local ce_pbm 1'

if !$?all_ce && $?xgxs_tx_lane_map_core0_ce0 || $?xgxs_tx_lane_map_core0_ce1 \
   || $?xgxs_tx_lane_map_core0_ce2 || $?xgxs_tx_lane_map_core0_ce3         \
   || $?xgxs_tx_lane_map_core0_ce4 || $?xgxs_tx_lane_map_core0_ce5         \
   || $?xgxs_tx_lane_map_core0_ce6 || $?xgxs_tx_lane_map_core0_ce7         \
   'local ce_pbm 1'

echo "testsuite: started: sanity"
time 'rcload rc.soc'
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init soc
local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done


echo "Running Register reset defaults ..."
tr 1
$done

init soc
init misc
```

```
echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running CPU Benchmarks ..."
tr 21
$done

set rct=false
echo "Running memory tests ..."
if $?BCM56866_A0 || $?BCM56866_A1 \
   'rcload trall_bcm56866_a0.soc'

if $?BCM56860_A0 || $?BCM56861_A0 \
   || $?BCM56862_A0 || $?BCM56864_A0 \
   || $?BCM56865_A0 || $?BCM56860_A1 || $?BCM56861_A1 \
   || $?BCM56862_A1 || $?BCM56864_A1 || $?BCM56865_A1 \
   'rcload trall_bcm56860_a0.soc'

if $?BCM56867_A0 || $?BCM56867_A1 \
   'rcload trall_bcm56867_a0.soc'

if $?BCM56833_A0 || $?BCM56833_A1 \
   'rcload trall_bcm56833_a0.soc'

if $?BCM56832_A0 || $?BCM56832_A1 \
   'rcload trall_bcm56832_a0.soc'

if $?BCM56836_A0 || $?BCM56836_A1 \
   'rcload trall_bcm56836_a0.soc'

if $?BCM56868_A0 || $?BCM56868_A1 \
   'rcload trall_bcm56868_a0.soc'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off
```

```
echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
#$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
#$done

#MAC Loopback
if !$?titan2plus && !$?all_ce                    \
  'echo "Testing MAC Loopback - 10 Gb/s all XE ports"' \
  'tr 18 PortBitMap=xe Speed=10G'                \
  '$done'

if $?all_ce || $?ce_pbm                          \
  'echo "Testing MAC Loopback - 100 Gb/s all CE ports"' \
  'tr 18 PortBitMap=ce Speed=100G'               \
  '$done'

if !$?all_ce                                     \
  'echo "Testing MAC Loopback - 106 Gb/s all HG ports"' \
  'tr 18 PortBitMap=hg Speed=106G'               \
  '$done'                                        \
```

```
#PHY Loopback
if !$?titan2plus && !$?all_ce                    \
   'echo "Testing PHY Loopback - 10 Gb/s all XE ports"' \
   'tr 19 PortBitMap=xe Speed=10G'                \
   '$done'

if $?all_ce || $?ce_pbm                          \
   'echo "Testing PHY Loopback - 100 Gb/s all CE ports"' \
   'tr 19 PortBitMap=ce Speed=100G'               \
   '$done'

if !$?all_ce                                     \
   'echo "Testing PHY Loopback - 106 Gb/s all HG ports"' \
   'tr 19 PortBitMap=hg Speed=106G'               \
   '$done'

echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
if !$?titan2plus && !$?all_ce                    \
   'echo "Running internal snake on all XE, MAC loopback ..."' \
   'tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe'    \
   '$done'

if !$?titan2plus && !$?all_ce                    \
   'echo "Running internal snake on all XE, PHY loopback ..."' \
   'tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe'    \
   '$done'

if !$?titan2plus && $?all_ce || $?ce_pbm                 \
   'echo "Running internal snake on all CE ports, MAC loopback ..."' \
   'tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ce'          \
   '$done'

if !$?titan2plus && $?all_ce || $?ce_pbm                 \
   'echo "Running internal snake on all CE ports, PHY loopback ..."' \
   'tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce'          \
   '$done'

if $?titan2plus                                  \
   'echo "Running internal snake on all HG ports, MAC loopback ..."' \
   'tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=hg'          \
```

```
  '$done'

if $?titan2plus                                          \
  'echo "Running internal snake on all HG ports, PHY loopback ..."' \
  'tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=hg'         \
  '$done'

#Traffic Test
if !$?all_ce && !$?titan2plus                            \
  'echo "Running Traffic Test in MAC mode on XE ports..."' \
  'tr 72 RunMode=MAC PortBitMap=xe'                        \
  '$done'

if !$?all_ce && !$?titan2plus                            \
  'echo "Running Traffic Test in PHY mode on XE ports..."' \
  'tr 72 RunMode=PHY PortBitMap=xe'                        \
  '$done'

if $?all_ce || $?ce_pbm                                  \
  'echo "Running Traffic Test in MAC mode on CE ports..."' \
  'tr 72 RunMode=MAC PortBitMap=ce'                        \
  '$done'

if $?all_ce || $?ce_pbm                                  \
  'echo "Running Traffic Test in PHY mode on CE ports..."' \
  'tr 72 RunMode=PHY PortBitMap=ce'                        \
  '$done'

if !$?all_ce                                             \
  'echo "Running Traffic Test in MAC mode on HG ports..."' \
  'tr 72 RunMode=MAC PortBitMap=hg'                        \
  '$done'

if !$?all_ce                                             \
  'echo "Running Traffic Test in PHY mode on HG ports..."' \
  'tr 72 RunMode=PHY PortBitMap=hg'                        \
  '$done'

echo "Running Software Error Recovery Test ..."
linkscan off
tr 144

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
```

```
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/td2p_sanity.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwQlopEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQlopEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwQlopEntry.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: bcm-uk-rtrans.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This provides a simple implementation of a BCM C2C/NH transport driver.
* This driver uses a User/Kernel Proxy service to transmit and receive the
* data.
* This driver is compiled for both the kernel and user space.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/shared/bcm-uk-rtrans.c
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------
# * $Id: prbs_10g.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
```

```
# *-----------------------------------------------------------------------
# * File       : prbs_10g.soc
# * Description: prbs_10g
# *-----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
local lane 0
phy raw sbus $port 0.0 0x9010 0x0000

phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.$lane 0xd0f4 0x2271
phy raw sbus $port 1.$lane 0xd0f4


# osr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.$lane 0xd080 0x8000
phy raw sbus $port 1.$lane 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.$lane 0xd127 0x000a
phy raw sbus $port 1.$lane 0xd127


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.$lane 0x9000 0x6400
phy raw sbus $port 0.$lane 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
```

```
phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


phy raw sbus $port 1.0 0xd0d1 0xb
phy raw sbus $port 1.0 0xd0e1 0xb

# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.$lane 0xc050 0x001c
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x011c
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 0.0 0xc154 # pcs live link status

sleep 5;
phy raw sbus 0xb1 1.0 0xd0d9
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/prbs_10g.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ppe.c
* Purpose: Caladan3 Packet Parsing Engine drivers
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/ppe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: soc_ser_log.h
* Purpose: SER logging using a circular buffer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/soc_ser_log.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: acl.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       acl.h
*
* Purpose:
*     Access Control Lists (ACL) Macros, type definitions,
*     and API prototypes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/acl/acl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbQe2000MemWrite.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbQe2000MemWrites.c
* Purpose:    sbx commands to write fe2000 indirect mems
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/sbx/sbQe2000MemWrite.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_end2end.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_end2end.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_hashtable.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* NAME:
*     dnx_sand_hash_table_tests
* TYPE:
*   PROC
* DATE:
*   Mar  6 2008
* FUNCTION:
*     Tests the hash table module
*
*INPUT:
*  DNX_SAND_IN  int     unit -
*    Identifier of the device to access.
*  DNX_SAND_DIRECT:
*    DNX_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  DNX_SAND_INDIRECT:
*    None.
*OUTPUT:
*  DNX_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  DNX_SAND_INDIRECT:
*    NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
```

* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_hashtable.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_link.c
* Purpose: Hardware Linkscan module
*
* These routines will be called by the linkscan module,
* so they need to be defined and return SOC_E_NONE.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_link.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: brd_sbx.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: brd_sbx.c
* Purpose: Board support for SBX reference boards
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/brd_sbx.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fcoe.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: fcoe.c
* Purpose: Trident2 FCoE functions

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/fcoe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Policer management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/policer.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: katana.h,v 1.20 Broadcom SDK $
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       katana.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/katana.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_fem_tag.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_low_level_fem_tag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom RoboSwitch SNMP Statistics API.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains port module definitions internal to
* the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x/port.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_eg_encap_access.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_eg_encap_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tpacket.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet tests that use the BCM api.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/tpacket.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53101_a0.c
* Purpose: bcm53101_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53101_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_fc_arad.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fc_arad.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_dram.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_dram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_mem.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN MEM
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_mem.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: merlin_koi_internal.h 1075 2015-07-02 22:59:52Z kirand $ *
*                                                                           *
*  Description :  Internal API functions                                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpBfPriTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls_lm_dm_sdk_msg.h
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mpls_lm_dm_sdk_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_oam_hlm.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_hlm.c
* Purpose: Example of using OAM Hierarchical loss measurement.
*
* Usage:
*
cd ../../../../src/examples/dpp
cint utility/cint_utils_global.c
cint utility/cint_utils_multicast.c
cint utility/cint_utils_mpls_port.c
cint utility/cint_utils_oam.c
cint cint_port_tpid.c
cint cint_advanced_vlan_translation_mode.c
cint cint_l2_mact.c
cint cint_vswitch_metro_mp.c
cint utility/cint_multi_device_utils.c
cint cint_queue_tests.c
cint cint_oam.c
cint cint_oam_hlm.c
cint
int unit = 0;
int port_1 = 13, port_2 = 14;
print oam_hierarchical_lm_example(unit,port_1,port_2);
*
* This CINT creates two vlan ports and cross-connect them.
* 2 Down MMEPs of level 1 and 3 will be configured on P1
* 2 Up MMEPs of level 4 and 6 will be configured on P2
*
*    Down MEPs                    Up MEPs
*      (1)    +----+          +----+    (4)
*      (3)    | P1 |------------| P2 |    (6)
*             +----+          +----+
*
* Two counter engines are configured. MEPs on the same LIF will have
* counter pointers from a differenet counter engine.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/examples/dpp/cint_oam_hlm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: warmboot.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sh.h
* Purpose: Types and structures for command table entires and
*  command return values for cshell commands.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/warmboot.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.106 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTSingle.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibPCTSingle.h
*
* <pre>
*
*
==============================================================================
==
* ==  sbZfSbQe2000ElibPCTSingle.h - Port Counter Table Single Class ZFrame  ==
*
==============================================================================
==
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibPCTSingle.hx,v 1.4 Broadcom SDK $
```

```
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibPCTSingle.zf
*
* ABSTRACT:
*
*     Port Counter Table ZFrame Definition
*     An entry in the port count table is 16 counts
*     That is, a per-class count for one port.  This Zframe
*     represents a per-class count.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     10-June-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTSingle.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_acc.c,v 1.1.2.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/core/phymod_acc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: latency.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:      latency.c
* Purpose:   Switch Latency Bypass feature support for Tomahawk SKUs
* Requires:  soc/tomahawk.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/latency.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_FAP20M.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_FAP20M.h
No license file was found, but licenses were detected in source scan.

```
# $Id: fsanity.soc,v 1.43 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

if $?BCM56504_B0 || $?BCM56504_B1 'setenv firebolt15 1'

if $?BCM56514_A0 || $?BCM56324_A0 'setenv firebolt2 1'
```

```
# Avoid link messages while testing
linkscan off

# Use expected COS configuration for test
#config add bcm_num_cos=4

init
init misc

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Deselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc;
#Clean up after register read/write test.

echo "Running CPU Benchmarks ..."
tr 21
```

```
$done

echo "Running Switching Memory tests ..."
#Test L2_ENTRY before aging fired off, aging is enabled in_init_ above
echo "  L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
echo "  L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
echo "  L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
echo "  L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;

if $?firebolt15 || $?helix15 || $?felix15 || $?firebolt2 '\
echo "  EGR_DSCP_ECN_MAP"; \
tr 50 M=EGR_DSCP_ECN_MAP; \
tr 51 M=EGR_DSCP_ECN_MAP; \
tr 52 M=EGR_DSCP_ECN_MAP; \
echo "  IPV6_PROXY_ENABLE"; \
tr 50 M=IPV6_PROXY_ENABLE; \
tr 51 M=IPV6_PROXY_ENABLE; \
tr 52 M=IPV6_PROXY_ENABLE; \
echo "  LPORT"; \
tr 50 M=LPORT; \
tr 51 M=LPORT; \
tr 52 M=LPORT; \
echo "  IFP_PORT_FIELD_SEL"; \
tr 50 M=IFP_PORT_FIELD_SEL; \
tr 51 M=IFP_PORT_FIELD_SEL; \
tr 52 M=IFP_PORT_FIELD_SEL; \
'
if $?helix || $?felix || $?firebolt15 || $?helix15 \
      || $?felix15 || $?firebolt2  '\
echo "  ALTERNATE_EMIRROR_BITMAP"; \
tr 50 M=ALTERNATE_EMIRROR_BITMAP; \
tr 51 M=ALTERNATE_EMIRROR_BITMAP; \
tr 52 M=ALTERNATE_EMIRROR_BITMAP; \
echo "  SRC_MODID_BLOCK"; \
tr 50 M=SRC_MODID_BLOCK; \
tr 51 M=SRC_MODID_BLOCK; \
```

```
tr 52 M=SRC_MODID_BLOCK; \
'
if !$?firebolt2 '\
echo "  FP_TCAM_PLUS_POLICY"; \
tr 50 M=FP_TCAM_PLUS_POLICY; \
tr 51 M=FP_TCAM_PLUS_POLICY; \
tr 52 M=FP_TCAM_PLUS_POLICY; \
'
if $?firebolt2 '\
echo "  EFP_COUNTER_TABLE"; \
tr 50 M=EFP_COUNTER_TABLE; \
tr 51 M=EFP_COUNTER_TABLE; \
tr 52 M=EFP_COUNTER_TABLE; \
echo "  EFP_METER_TABLE"; \
tr 50 M=EFP_METER_TABLE; \
tr 51 M=EFP_METER_TABLE; \
tr 52 M=EFP_METER_TABLE; \
echo "  EFP_POLICY_TABLE"; \
tr 50 M=EFP_POLICY_TABLE; \
tr 51 M=EFP_POLICY_TABLE; \
tr 52 M=EFP_POLICY_TABLE; \
echo "  EFP_TCAM"; \
tr 50 M=EFP_TCAM; \
tr 51 M=EFP_TCAM; \
tr 52 M=EFP_TCAM; \
echo "  EGR_PRI_CNG_MAP"; \
tr 50 M=EGR_PRI_CNG_MAP; \
tr 51 M=EGR_PRI_CNG_MAP; \
tr 52 M=EGR_PRI_CNG_MAP; \
echo "  FP_SLICE_MAP"; \
tr 50 M=FP_SLICE_MAP; \
echo "  ING_PRI_CNG_MAP"; \
tr 50 M=ING_PRI_CNG_MAP; \
tr 51 M=ING_PRI_CNG_MAP; \
tr 52 M=ING_PRI_CNG_MAP; \
echo "  INITIAL_ING_L3_NEXT_HOP"; \
tr 50 M=INITIAL_ING_L3_NEXT_HOP; \
tr 51 M=INITIAL_ING_L3_NEXT_HOP; \
tr 52 M=INITIAL_ING_L3_NEXT_HOP; \
echo "  INITIAL_L3_ECMP"; \
tr 50 M=INITIAL_L3_ECMP; \
tr 51 M=INITIAL_L3_ECMP; \
tr 52 M=INITIAL_L3_ECMP; \
echo "  IPV4_IN_IPV6_PREFIX_MATCH"; \
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH; \
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH; \
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH; \
echo "  MMU_MAX_BUCKET_GPORT"; \
```

```
tr 50 M=MMU_MAX_BUCKET_GPORT; \
tr 51 M=MMU_MAX_BUCKET_GPORT; \
tr 52 M=MMU_MAX_BUCKET_GPORT; \
echo "  MMU_MIN_BUCKET_GPORT"; \
tr 50 M=MMU_MIN_BUCKET_GPORT; \
tr 51 M=MMU_MIN_BUCKET_GPORT; \
tr 52 M=MMU_MIN_BUCKET_GPORT; \
echo "  MODPORT_MAP_EM"; \
tr 50 M=MODPORT_MAP_EM; \
tr 51 M=MODPORT_MAP_EM; \
tr 52 M=MODPORT_MAP_EM; \
echo "  MODPORT_MAP_IM"; \
tr 50 M=MODPORT_MAP_IM; \
tr 51 M=MODPORT_MAP_IM; \
tr 52 M=MODPORT_MAP_IM; \
echo "  MODPORT_MAP_SW"; \
tr 50 M=MODPORT_MAP_SW; \
tr 51 M=MODPORT_MAP_SW; \
tr 52 M=MODPORT_MAP_SW; \
echo "  VFP_POLICY_TABLE"; \
tr 50 M=VFP_POLICY_TABLE; \
tr 51 M=VFP_POLICY_TABLE; \
tr 52 M=VFP_POLICY_TABLE; \
echo "  VFP_TCAM"; \
tr 50 M=VFP_TCAM; \
tr 51 M=VFP_TCAM; \
tr 52 M=VFP_TCAM; \
echo "  VLAN_PROFILE"; \
tr 50 M=VLAN_PROFILE; \
tr 51 M=VLAN_PROFILE; \
tr 52 M=VLAN_PROFILE; \
'


echo "  DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
echo "  E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
echo "  EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
echo "  EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
```

```
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
echo "  EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
echo "  EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
echo "  EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
echo "  EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
echo "  EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
echo "  EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
echo "  EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
echo "  EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
echo "  EGR_VLAN_XLATE_DATA_ONLY";
tr 50 M=EGR_VLAN_XLATE_DATA_ONLY;
tr 51 M=EGR_VLAN_XLATE_DATA_ONLY;
tr 52 M=EGR_VLAN_XLATE_DATA_ONLY;
echo "  EGR_VLAN_XLATE_ONLY";
tr 50 M=EGR_VLAN_XLATE_ONLY;
tr 51 M=EGR_VLAN_XLATE_ONLY;
tr 52 M=EGR_VLAN_XLATE_ONLY;
echo "  EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
echo "  FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
```

```
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
echo "  FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
echo "  FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
echo "  FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
echo "  FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
echo "  FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
echo "  IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
echo "  ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
echo "  IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
echo "  L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
echo "  L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
echo "  L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
echo "  L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
```

```
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
echo "  L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
echo "  L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
echo "  L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
echo "  L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
echo "  L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
echo "  L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
echo "  L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
echo "  L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
echo "  L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
echo "  L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
echo "  L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
echo "  L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
```

```
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
echo "  L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
echo "  L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
echo "  L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
echo "  PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
echo "  AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
echo "  AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
echo "  CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
echo "  CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
echo "  CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
echo "  CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
echo "  CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
echo "  CBPDATA4";
tr 50 M=CBPDATA4;
```

```
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
echo "  CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
echo "  CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
echo "  CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
echo "  CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
echo "  CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
echo "  CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
echo "  CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
echo "  CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
echo "  CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
echo "  CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
echo "  CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
echo "  CBPPKTHEADER0";
tr 50 M=CBPPKTHEADER0;
```

```
tr 51 M=CBPPKTHEADER0;
tr 52 M=CBPPKTHEADER0;
echo "  CBPPKTHEADER1";
tr 50 M=CBPPKTHEADER1;
tr 51 M=CBPPKTHEADER1;
tr 52 M=CBPPKTHEADER1;
echo "  CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
echo "  CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
echo "  IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
echo "  IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
echo "  IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
echo "  IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
echo "  IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
echo "  IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
echo "  IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
echo "  IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
echo "  IPMC_VLAN";
tr 50 M=IPMC_VLAN;
```

```
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
echo "  XQ0";
tr 50 M=XQ0;
tr 51 M=XQ0;
tr 52 M=XQ0;
echo "  XQ1";
tr 50 M=XQ1;
tr 51 M=XQ1;
tr 52 M=XQ1;
echo "  XQ2";
tr 50 M=XQ2;
tr 51 M=XQ2;
tr 52 M=XQ2;
echo "  XQ3";
tr 50 M=XQ3;
tr 51 M=XQ3;
tr 52 M=XQ3;
echo "  XQ4";
tr 50 M=XQ4;
tr 51 M=XQ4;
tr 52 M=XQ4;
echo "  XQ5";
tr 50 M=XQ5;
tr 51 M=XQ5;
tr 52 M=XQ5;
echo "  XQ6";
tr 50 M=XQ6;
tr 51 M=XQ6;
tr 52 M=XQ6;
echo "  XQ7";
tr 50 M=XQ7;
tr 51 M=XQ7;
tr 52 M=XQ7;
echo "  XQ8";
tr 50 M=XQ8;
tr 51 M=XQ8;
tr 52 M=XQ8;
echo "  XQ9";
tr 50 M=XQ9;
tr 51 M=XQ9;
tr 52 M=XQ9;
echo "  XQ10";
tr 50 M=XQ10;
tr 51 M=XQ10;
tr 52 M=XQ10;
echo "  XQ11";
tr 50 M=XQ11;
```

```
tr 51 M=XQ11;
tr 52 M=XQ11;
echo "  XQ12";
tr 50 M=XQ12;
tr 51 M=XQ12;
tr 52 M=XQ12;
echo "  XQ13";
tr 50 M=XQ13;
tr 51 M=XQ13;
tr 52 M=XQ13;
echo "  XQ14";
tr 50 M=XQ14;
tr 51 M=XQ14;
tr 52 M=XQ14;
echo "  XQ15";
tr 50 M=XQ15;
tr 51 M=XQ15;
tr 52 M=XQ15;
echo "  XQ16";
tr 50 M=XQ16;
tr 51 M=XQ16;
tr 52 M=XQ16;
echo "  XQ17";
tr 50 M=XQ17;
tr 51 M=XQ17;
tr 52 M=XQ17;
echo "  XQ18";
tr 50 M=XQ18;
tr 51 M=XQ18;
tr 52 M=XQ18;
echo "  XQ19";
tr 50 M=XQ19;
tr 51 M=XQ19;
tr 52 M=XQ19;
echo "  XQ20";
tr 50 M=XQ20;
tr 51 M=XQ20;
tr 52 M=XQ20;
echo "  XQ21";
tr 50 M=XQ21;
tr 51 M=XQ21;
tr 52 M=XQ21;
echo "  XQ22";
tr 50 M=XQ22;
tr 51 M=XQ22;
tr 52 M=XQ22;
echo "  XQ23";
tr 50 M=XQ23;
```

```
tr 51 M=XQ23;
tr 52 M=XQ23;
echo "  XQ24";
tr 50 M=XQ24;
tr 51 M=XQ24;
tr 52 M=XQ24;
echo "  XQ25";
tr 50 M=XQ25;
tr 51 M=XQ25;
tr 52 M=XQ25;
echo "  XQ26";
tr 50 M=XQ26;
tr 51 M=XQ26;
tr 52 M=XQ26;
echo "  XQ27";
tr 50 M=XQ27;
tr 51 M=XQ27;
tr 52 M=XQ27;
echo "  XQ28";
tr 50 M=XQ28;
tr 51 M=XQ28;
tr 52 M=XQ28;
echo "  MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
echo "  NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
echo "  PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
echo "  SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
echo "  VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
echo "  TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
echo "  PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
```

```
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
echo "  TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
echo "  UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
echo "  VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
echo "  VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
echo "  VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
echo "  VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
echo "  VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
echo "  VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
echo "  VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
echo "  VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
echo "  VLAN_XLATE_DATA_ONLY";
tr 50 M=VLAN_XLATE_DATA_ONLY;
tr 51 M=VLAN_XLATE_DATA_ONLY;
tr 52 M=VLAN_XLATE_DATA_ONLY;
echo "  VLAN_XLATE_ONLY";
tr 50 M=VLAN_XLATE_ONLY;
```

```
tr 51 M=VLAN_XLATE_ONLY;
tr 52 M=VLAN_XLATE_ONLY;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
if $?firebolt15 || $?helix15 || $?felix15 || $?firebolt2 '\
echo "  EGR_DSCP_ECN_MAP" ; \
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=F ;  \
echo "  IPV6_PROXY_ENABLE" ; \
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=F ;  \
echo "  LPORT" ; \
tr 71 M=LPORT S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=F ;  \
echo "  IFP_PORT_FIELD_SEL" ; \
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F ;  \
'
if $?helix || $?felix || $?firebolt15 || $?helix15 \
      || $?felix15 || $?firebolt2 '\
echo "  ALTERNATE_EMIRROR_BITMAP"; \
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F ;  \
echo "  SRC_MODID_BLOCK"; \
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=F ;  \
'
if !$?firebolt2 '\
echo "  FP_TCAM_PLUS_POLICY";  \
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=F SLTH=T;  \
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=T SLTH=T;  \
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=T SLTH=F;  \
'
if $?firebolt2 '\
echo "  EFP_COUNTER_TABLE" ;  \
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F ;  \
echo "  EFP_METER_TABLE" ;  \
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=F SLTH=T ;  \
```

```
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=F ;  \
echo "  EFP_POLICY_TABLE" ;  \
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F ;  \
echo "  EFP_TCAM" ;  \
tr 71 M=EFP_TCAM S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=F ;  \
echo "  EGR_PRI_CNG_MAP" ;  \
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F ;  \
echo "  ING_PRI_CNG_MAP" ;  \
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F ;  \
echo "  INITIAL_ING_L3_NEXT_HOP" ;  \
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F ;  \
echo "  INITIAL_L3_ECMP" ;  \
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=F ;  \
echo "  IPV4_IN_IPV6_PREFIX_MATCH" ;  \
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=F ;  \
echo "  MMU_MAX_BUCKET_GPORT" ;  \
tr 71 M=MMU_MAX_BUCKET_GPORT S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=MMU_MAX_BUCKET_GPORT S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=MMU_MAX_BUCKET_GPORT S=0 C=0 TSE=T SLTH=F ;  \
echo "  MMU_MIN_BUCKET_GPORT" ;  \
tr 71 M=MMU_MIN_BUCKET_GPORT S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=MMU_MIN_BUCKET_GPORT S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=MMU_MIN_BUCKET_GPORT S=0 C=0 TSE=T SLTH=F ;  \
echo "  MODPORT_MAP_EM" ;  \
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=F ;  \
echo "  MODPORT_MAP_IM" ;  \
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=F ;  \
echo "  MODPORT_MAP_SW" ;  \
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=F SLTH=T ;  \
```

```
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=F ;  \
echo "  VFP_POLICY_TABLE" ;  \
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F ;  \
echo "  VFP_TCAM" ;  \
tr 71 M=VFP_TCAM S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=F ;  \
echo "  VLAN_PROFILE" ;  \
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=F SLTH=T ;  \
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=T ;  \
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=F ;  \
'
echo "  DSCP_TABLE"
tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F

echo "  E2E_HOL_STATUS"
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F

echo "  EGR_DSCP_TABLE"
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=F

echo "  EGR_EM_MTP_INDEX"
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F

echo "  EGR_IM_MTP_INDEX"
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F

echo "  EGR_IP_TUNNEL"
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=F

echo "  EGR_L3_INTF"
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=F

echo "  EGR_L3_NEXT_HOP"
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F

echo "  EGRESS_MASK"
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F

echo "  EGR_VLAN"
tr 71 M=EGR_VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=F

echo "  EGR_VLAN_STG"
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=F

echo "  EGR_VLAN_XLATE"
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F

echo "  EGR_VLAN_XLATE_DATA_ONLY"
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  EGR_VLAN_XLATE_ONLY"
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=F

echo "  EM_MTP_INDEX"
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F

echo "  FP_COUNTER_TABLE"
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F

echo "  FP_METER_TABLE"
```

```
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=F

echo "  FP_POLICY_TABLE"
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F

echo "  FP_PORT_FIELD_SEL"
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F

echo "  FP_RANGE_CHECK"
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F

echo "  FP_TCAM"
tr 71 M=FP_TCAM S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=F

echo "  IM_MTP_INDEX"
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F

echo "  ING_L3_NEXT_HOP"
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F

echo "  IPORT_TABLE"
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F

echo "  L2MC"
tr 71 M=L2MC S=0 C=0 TSE=F SLTH=T
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=T
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=F

echo "  L2_ENTRY"
tr 71 M=L2_ENTRY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=F
```

```
echo "  L2_ENTRY_ONLY"
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L2_HITDA_ONLY"
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L2_HITSA_ONLY"
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L2_MOD_FIFO"
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F

echo "  L2_USER_ENTRY"
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F

echo "  L2_USER_ENTRY_DATA_ONLY"
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L2_USER_ENTRY_ONLY"
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_DEFIP"
tr 71 M=L3_DEFIP S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=F

echo "  L3_DEFIP_DATA_ONLY"
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_DEFIP_HIT_ONLY"
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=F SLTH=T
```

```
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_DEFIP_ONLY"
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_ECMP"
tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_HIT_ONLY"
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_IPV4_MULTICAST"
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_IPV4_UNICAST"
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_IPV6_MULTICAST"
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_IPV6_UNICAST"
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_ONLY"
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F

echo "  L3_ENTRY_VALID_ONLY"
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=F
```

```
echo "  L3_IPMC"
tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F

echo "  L3_TUNNEL"
tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F

echo "  PORT_MAC_BLOCK"
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=F

echo "  AGING_CTR"
tr 71 M=AGING_CTR S=0 C=0 TSE=F SLTH=T
tr 71 M=AGING_CTR S=0 C=0 TSE=T SLTH=T
tr 71 M=AGING_CTR S=0 C=0 TSE=T SLTH=F

echo "  AGING_EXP"
tr 71 M=AGING_EXP S=0 C=0 TSE=F SLTH=T
tr 71 M=AGING_EXP S=0 C=0 TSE=T SLTH=T
tr 71 M=AGING_EXP S=0 C=0 TSE=T SLTH=F

echo "  CBPCELLHEADER"
tr 71 M=CBPCELLHEADER S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPCELLHEADER S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPCELLHEADER S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA0"
tr 71 M=CBPDATA0 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA0 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA0 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA1"
tr 71 M=CBPDATA1 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA1 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA1 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA2"
tr 71 M=CBPDATA2 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA2 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA2 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA3"
tr 71 M=CBPDATA3 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA3 S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=CBPDATA3 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA4"
tr 71 M=CBPDATA4 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA4 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA4 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA5"
tr 71 M=CBPDATA5 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA5 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA5 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA6"
tr 71 M=CBPDATA6 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA6 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA6 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA7"
tr 71 M=CBPDATA7 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA7 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA7 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA8"
tr 71 M=CBPDATA8 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA8 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA8 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA9"
tr 71 M=CBPDATA9 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA9 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA9 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA10"
tr 71 M=CBPDATA10 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA10 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA10 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA11"
tr 71 M=CBPDATA11 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA11 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA11 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA12"
tr 71 M=CBPDATA12 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA12 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA12 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA13"
```

```
tr 71 M=CBPDATA13 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA13 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA13 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA14"
tr 71 M=CBPDATA14 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA14 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA14 S=0 C=0 TSE=T SLTH=F

echo "  CBPDATA15"
tr 71 M=CBPDATA15 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPDATA15 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPDATA15 S=0 C=0 TSE=T SLTH=F

echo "  CBPPKTHEADER0"
tr 71 M=CBPPKTHEADER0 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPPKTHEADER0 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPPKTHEADER0 S=0 C=0 TSE=T SLTH=F

echo "  CBPPKTHEADER1"
tr 71 M=CBPPKTHEADER1 S=0 C=0 TSE=F SLTH=T
tr 71 M=CBPPKTHEADER1 S=0 C=0 TSE=T SLTH=T
tr 71 M=CBPPKTHEADER1 S=0 C=0 TSE=T SLTH=F

echo "  CCP"
tr 71 M=CCP S=0 C=0 TSE=F SLTH=T
tr 71 M=CCP S=0 C=0 TSE=T SLTH=T
tr 71 M=CCP S=0 C=0 TSE=T SLTH=F

echo "  CFAP"
tr 71 M=CFAP S=0 C=0 TSE=F SLTH=T
tr 71 M=CFAP S=0 C=0 TSE=T SLTH=T
tr 71 M=CFAP S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP0"
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP1"
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP2"
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=T SLTH=F
```

```
echo "  IPMC_GROUP3"
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP4"
tr 71 M=IPMC_GROUP4 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP4 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP4 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP5"
tr 71 M=IPMC_GROUP5 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP5 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP5 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP6"
tr 71 M=IPMC_GROUP6 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP6 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP6 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_GROUP7"
tr 71 M=IPMC_GROUP7 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP7 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP7 S=0 C=0 TSE=T SLTH=F

echo "  IPMC_VLAN"
tr 71 M=IPMC_VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_VLAN S=0 C=0 TSE=T SLTH=F

echo "  XQ0"
tr 71 M=XQ0 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ0 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ0 S=0 C=0 TSE=T SLTH=F

echo "  XQ1"
tr 71 M=XQ1 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ1 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ1 S=0 C=0 TSE=T SLTH=F

echo "  XQ2"
tr 71 M=XQ2 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ2 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ2 S=0 C=0 TSE=T SLTH=F

echo "  XQ3"
tr 71 M=XQ3 S=0 C=0 TSE=F SLTH=T
```

```
tr 71 M=XQ3 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ3 S=0 C=0 TSE=T SLTH=F

echo "  XQ4"
tr 71 M=XQ4 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ4 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ4 S=0 C=0 TSE=T SLTH=F

echo "  XQ5"
tr 71 M=XQ5 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ5 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ5 S=0 C=0 TSE=T SLTH=F

echo "  XQ6"
tr 71 M=XQ6 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ6 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ6 S=0 C=0 TSE=T SLTH=F

echo "  XQ7"
tr 71 M=XQ7 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ7 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ7 S=0 C=0 TSE=T SLTH=F

echo "  XQ8"
tr 71 M=XQ8 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ8 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ8 S=0 C=0 TSE=T SLTH=F

echo "  XQ9"
tr 71 M=XQ9 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ9 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ9 S=0 C=0 TSE=T SLTH=F

echo "  XQ10"
tr 71 M=XQ10 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ10 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ10 S=0 C=0 TSE=T SLTH=F

echo "  XQ11"
tr 71 M=XQ11 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ11 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ11 S=0 C=0 TSE=T SLTH=F

echo "  XQ12"
tr 71 M=XQ12 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ12 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ12 S=0 C=0 TSE=T SLTH=F
```

```
echo "  XQ13"
tr 71 M=XQ13 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ13 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ13 S=0 C=0 TSE=T SLTH=F

echo "  XQ14"
tr 71 M=XQ14 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ14 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ14 S=0 C=0 TSE=T SLTH=F

echo "  XQ15"
tr 71 M=XQ15 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ15 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ15 S=0 C=0 TSE=T SLTH=F

echo "  XQ16"
tr 71 M=XQ16 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ16 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ16 S=0 C=0 TSE=T SLTH=F

echo "  XQ17"
tr 71 M=XQ17 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ17 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ17 S=0 C=0 TSE=T SLTH=F

echo "  XQ18"
tr 71 M=XQ18 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ18 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ18 S=0 C=0 TSE=T SLTH=F

echo "  XQ19"
tr 71 M=XQ19 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ19 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ19 S=0 C=0 TSE=T SLTH=F

echo "  XQ20"
tr 71 M=XQ20 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ20 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ20 S=0 C=0 TSE=T SLTH=F

echo "  XQ21"
tr 71 M=XQ21 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ21 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ21 S=0 C=0 TSE=T SLTH=F

echo "  XQ22"
tr 71 M=XQ22 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ22 S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=XQ22 S=0 C=0 TSE=T SLTH=F

echo "  XQ23"
tr 71 M=XQ23 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ23 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ23 S=0 C=0 TSE=T SLTH=F

echo "  XQ24"
tr 71 M=XQ24 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ24 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ24 S=0 C=0 TSE=T SLTH=F

echo "  XQ25"
tr 71 M=XQ25 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ25 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ25 S=0 C=0 TSE=T SLTH=F

echo "  XQ26"
tr 71 M=XQ26 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ26 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ26 S=0 C=0 TSE=T SLTH=F

echo "  XQ27"
tr 71 M=XQ27 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ27 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ27 S=0 C=0 TSE=T SLTH=F

echo "  XQ28"
tr 71 M=XQ28 S=0 C=0 TSE=F SLTH=T
tr 71 M=XQ28 S=0 C=0 TSE=T SLTH=T
tr 71 M=XQ28 S=0 C=0 TSE=T SLTH=F

echo "  MODPORT_MAP"
tr 71 M=MODPORT_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=F

echo "  NONUCAST_TRUNK_BLOCK_MASK"
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=F

echo "  PORT"
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F

echo "  SOURCE_TRUNK_MAP"
```

```
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F

echo "  VLAN_STG"
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F

echo "  TRUNK_BITMAP"
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F

echo "  PORT_TRUNK_EGRESS"
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F

echo "  TRUNK_GROUP"
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F

echo "  UDF_OFFSET"
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F

echo "  VLAN"
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F

echo "  VLAN_MAC"
tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F

echo "  VLAN_PROTOCOL"
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=F

echo "  VLAN_PROTOCOL_DATA"
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=F
```

```
echo "  VLAN_SUBNET"
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F

echo "  VLAN_SUBNET_DATA_ONLY"
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  VLAN_SUBNET_ONLY"
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=F

echo "  VLAN_XLATE"
tr 71 M=VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=F

echo "  VLAN_XLATE_DATA_ONLY"
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=F

echo "  VLAN_XLATE_ONLY"
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=F

#echo "Running BSAFE Self test"
#tr 65
#$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
```

```
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV4 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

echo "Testing CPU DMA loopback ..."
```

```
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

local lbpbm "ge"
if $?felix '\
   local lbpbm "fe,ge" ; \
'
#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all $lbpbm ports"
tr 18 pbm=$lbpbm speed=10

echo "Testing MAC Loopback - 100 Mb/s all $lbpbm ports"
tr 18 pbm=$lbpbm speed=100

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000

echo "Testing MAC Loopback - 2500/10000 Mb/s all XE ports"
tr 18 pbm=xe speed=MAXimum

echo "Testing MAC Loopback - 2500/10000/12000 Mb/s all HG ports"
tr 18 pbm=hg speed=MAXimum
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all $lbpbm ports"
tr 19 pbm=$lbpbm speed=10

echo "Testing PHY Loopback - 100 Mb/s all $lbpbm ports"
tr 19 pbm=$lbpbm speed=100

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000

echo "Testing PHY Loopback - 2500/10000 Mb/s all XE ports"
tr 19 pbm=xe speed=MAXimum
```

```
echo "Testing PHY Loopback - 2500/10000/12000 Mb/s all HG ports"
tr 19 pbm=hg speed=MAXimum
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10, 11-12
#       13-14, 15-16, 17-18, 19-20, 21-22 23-24
#       25-26, 27-28
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv ext10G  1
# or
#       setenv extall  1
#External Loopback on GE port
local fwd 0x555555
local bwd 0xaaaaaa
if $?felix '\
   local fwd 0x1555555 ; \
```

```
  local bwd 0x2aaaaaa ; \
  '

if $?extall \
     "local ext10 1; local ext100 1; local ext1000 1; local ext10G 1"

if $?ext10 \
     "echo Testing External Loopback - 10 MB/s forward; \
          tr 20 tpbm=$fwd di=1 speed=10 count=10; \
      echo Testing External Loopback - 10 MB/s reverse; \
          tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
     "echo Testing External Loopback - 100 MB/s forward; \
          tr 20 tpbm=$fwd di=1 speed=100 count=10; \
      echo Testing External Loopback - 100 MB/s reverse; \
          tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if  $?felix '\
  local fwd 0x4000000 ; \
  local bwd 0x8000000 ; \
  '
if $?ext1000 \
     "echo Testing External Loopback - 1000 MB/s forward; \
          tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
      echo Testing External Loopback - 1000 MB/s reverse; \
          tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

#External Loopback on XE port
config add pbmp_xport_xe=0xf000000
local fwd 0x5000000
local bwd 0xa000000
if $?felix '\
  local fwd 0x4000000 ; \
  local bwd 0x8000000 ; \
  config add pbmp_xport_xe=0xc000000 ; \
  '
rcload rc.soc
if $?ext10G \
     "echo Testing External Loopback - 10 GB/s forward; \
          tr 20 tpbm=$fwd di=1 speed=10G count=10; \
      echo Testing External Loopback - 10 GB/s reverse; \
          tr 20 tpbm=$bwd di=-1 speed=10G count=10"
config delete pbmp_xport_xe
rcload rc.soc

#External Loopback on HG port
```

```
# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
if $?BCM56504_B0 || $?BCM56504_B1 'setenv firebolt15'
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/fsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* ! \file bcm_int/dnx/mirror/mirror.h Internal DNX MIRROR APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/mirror/mirror.h
No license file was found, but licenses were detected in source scan.

```
/** \file res_mngr_api.h
*
* Internal DNX resource manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/res_mngr/res_mngr_api.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/res_mngr/res_mngr_callbacks.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idxres_mdb.c,v 1.13 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Indexed Resource management, MDB model
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/idxres_mdb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     stg.c
* Purpose:  BCMX STG CLI
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_gre_with_lb_tunnel_encap.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of GRE with LB key tunnel encapsulation
*
* Configuration Steps:
*       Create GRE4 with LB key (GRE8) tunnel
*       Add IPv4_1, IPv6_1 and MPLS_1 routes to GRE8 tunnel
*       Create MPLSoGRE8 tunnel using previously created GRE8 tunnel
*       Add IPv4_2 and IPv6_2 routes to MPLSoGRE8 tunnel
*
* Test scenario:
* step 1: GRE8 Tunnel Encapsulation
*         Send IPv4_1 packet, Receive IPv4_1oGRE8
*         Send IPv6_1 packet, Receive IPv6_1oGRE8
*         Send MPLS_1 packet, Receive MPLS_1oGRE8
*
* step 2: MPLS_2oGRE8 Tunnel Encapsulation
*         Send IPv4_2 packet, Receive IPv4_2oMPLS_2oGRE8
*         Send IPv6_2 packet, Receive IPv6_2oMPLS_2oGRE8
```

```
*
* Example:
*
*     INPUT, port 200    _____________________________      OUTPUT, port 201
*                   |                  __________|
*                   |                 |         |
*       IPv4_1 ------> |------------------->| GRE8     | ------> IPv4_1oGRE8
*       IPv6_1 ------> |------------------->| Tunnel   | ------> IPv6_1oGRE8
*       MPLS_1 ------> |------------------->| Encap.   | ------> MPLS_1oGRE8
*                   |  __________      |         |
*                   | |         |    |         |
*       IPv4_2 ------> |->| MPLS     |---->|         | ------> IPv4_2oMPLS_2oGRE8
*                   | | Tunnel   |     |         |
*       IPv6_2 ------> |->| Encap.   |---->|__________| ------> IPv6_2oMPLS_2oGRE8
*                   | |__________|              |
*                   |_____________________________|
*
* SOC properties:
* system_ftmh_load_balancing_ext_mode=ENABLED
*
* CINT files:
* cd ../../../../src/examples/dpp/
* utility/cint_utils_l3.c
* utility/cint_utils_vlan.c
* utility/cint_tunnel_utils.c
*
* gre_with_lb_tunnel_encap__start_run(int unit, udp_tunnel_encap_s *test_data) - test_data = NULL for default
params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_gre_with_lb_tunnel_encap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: taps.c,v 1.96.6.1.6.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    taps.c
* Purpose: Caladan3 TAPS driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/taps.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_tunnel_mapping.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_tunnel_mapping.c
* Purpose: An example of how to map tunnel_ID to PP port of PON application and set different properties (VTT lookup mode and VLAN range) per LLID profile.
*	The following CINT provides a calling sequence example to set the different tunnel_id to be mapped to different LLID profile and bring up one main PON services 1:1 Model.
*	ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers 0-7).
*	Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service (ONU), and class of service.
*	Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link Identification (LLID), i.e., service or ONU#.
*	We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is prepended to the VLAN-Tag stack (as the outermost tag).
*	Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
*	When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
*	When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
*  1. Add the following port configureations to config-sand.bcm
*       ucode_port_129.BCM88650=10GBase-R15
*       ucode_port_5.BCM88650=10GBase-R14
*  2. Add the following PON application enabling configureations to config-sand.bcm
*       pon_application_support_enabled_5.BCM88650=TRUE
*       vlan_match_criteria_mode=PON_PCP_ETHERTYPE
*  3. Create PON PP port with different PON tunnel profile id 0.
*       - call bcm_port_pon_tunnel_add()
*  4. Map tunnel id 1000 to PON PP port 5 (indirectly mapped to PON tunnel profile id 0).
*       - call bcm_port_pon_tunnel_map_set()
*  5. Set TPIDs of PON pp port 5.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  6. Set VLAN domain of PON pp port 5 to 5.
*       - call bcm_port_class_set()
*  7. Enable additional port tunnel lookup in PON PP port 5.
*       - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable
*  8. Create PON PP port with different PON tunnel profile id 1.
*       - call bcm_port_pon_tunnel_add()
```

```
*  9. Map tunnel id 1001 to PON PP port 13 (indirectly mapped to PON tunnel profile id 1).
*       - call bcm_port_pon_tunnel_map_set()
*  10. Set TPIDs of PON pp port 13.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  11. Set VLAN domain of PON pp port 13 to 13.
*       - call bcm_port_class_set()
*  12. Enable ingore inner VLAN tag lookup in PON PP port 13.
*       - call bcm_vlan_control_port_set() with bcmVlanPortIgnoreInnerPktTag
*  13. Set TPIDs of NNI port 129.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  14. Remove Ports from VLAN 1.
*       - call bcm_vlan_gport_delete_all()
*  15. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).
*       - call bcm_port_vlan_member_set()
*
* 1:1 Service:
* Set up sequence:
*  1. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*  2. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN
*  3. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  4. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  5. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  6. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete VLAN range info from PON PP port if necessary.
*       - Call bcm_vlan_translate_action_range_delete()
*  3. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  4. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
```

```
* 1:1 Service:
*    N(1) PON Port 5  <----------------------------  CrossConnect  ------------> 1 NNI Port 129
*    Tunnel-ID 1000 SVLAN 20 PON_PP_PORT 5 <------------------------------------> SVLAN 200
*    Tunnel-ID 1000 SVLAN 20 CVLAN 21 PON_PP_PORT 5 <------------------------_--> SVLAN 20 CVLAN 21
*    Tunnel-ID 1000 SVLAN range 50~60  <----------------------------------------> SVLAN 70
*    Tunnel-ID 1001 SVLAN 30 PON_PP_PORT 13 <-----------------------------------> SVLAN 300
*    Tunnel-ID 1001 SVLAN 30 CVLAN 31 PON_PP_PORT 13 <--------------------------> SVLAN 30 CVLAN 31
*    Tunnel-ID 1001 SVLAN range 80~90  <----------------------------------------> SVLAN 100
*    Tunnel-ID 1002 CVLAN 40 PON_PP_PORT 5 <------------------------------------> SVLAN 400
*
* Traffic:
*  1. PON Port 5 Tunnel-ID 1000 SVLAN 20 <-CrossConnect-> NNI Port 129 SVLAN 200
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 20
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 200
*
*  2. PON Port 5 Tunnel-ID 1000 SVLAN 20 CVLAN 21 <-CrossConnect-> NNI Port 129 SVLAN 20 CVLAN 21
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*  3. PON Port 5 Tunnel-ID 1000 SVLAN range 50~60 <-CrossConnect-> NNI Port 129 SVLAN 70
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 55
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 70
*
*  4. PON Port 5 Tunnel-ID 1001 SVLAN 30 <-CrossConnect-> NNI Port 129 SVLAN 300
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1001
*          -  VLAN tag: VLAN tag type 0x8100, VID = 30
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 300
*
*  5. PON Port 5 Tunnel-ID 1001 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129 SVLAN 30 CVLAN 31
*    - Upstream is matched by Port 5 Tunnel-ID 1001 SVLAN 30 --CrossConnect--> NNI Port 129 SVLAN 300,
```

casue LLID profile ingore 2nd VLAN tag.
* - Packets received in NNI port have outer VLAN 300.
* - From PON port:
* - ethernet header with any DA, SA
* - Tunnel ID:1001
* - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
* - Downstrean is macthed by NNI Port 129 SVLAN 30 CVLAN 31 --CrossConnect--> Port 5 Tunnel-ID 1001 SVLAN 30 CVLAN 31.
* - Packets received in PON port have outer VLAN 30, inner VLAN 31.
* - From NNI port:
* - ethernet header with any DA, SA
* - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
* 6. PON Port 5 Tunnel-ID 1001 SVLAN range 80~90 <-CrossConnect-> NNI Port 129 SVLAN 100
* - From PON port:
* - ethernet header with any DA, SA
* - Tunnel ID:1001
* - VLAN tag: VLAN tag type 0x8100, VID = 85
* - From NNI port:
* - ethernet header with any DA, SA
* - VLAN tag: VLAN tag type 0x8100, VID = 100
*
* 7. PON Port 5 Tunnel-ID 1002 SVLAN 40 <-CrossConnect-> NNI Port 129 SVLAN 400
* - From PON port:
* - ethernet header with any DA, SA
* - Tunnel ID:1002
* - VLAN tag: VLAN tag type 0x8100, VID = 40
*
* To Activate Above Settings Run:
* BCM> cint examples/dpp/cint_port_tpid.c
* BCM> cint examples/dpp/cint_pon_application.c
* BCM> cint
* cint> pon_tunnel_mapping_init(unit, pon_port, nni_port);
* cint> pon_tunnel_mapping_1_1_service(unit);
* cint> pon_tunnel_mapping_1_1_service_cleanup(unit);
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_tunnel_mapping.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: virtual.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: virtual.h
* Purpose: Function declarations for VP / VFI resource management

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/virtual.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ref_design_starter.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/ref_design_starter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: smbus.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SMB driver interface for I2C controller operating in master mode
* onboard the CMIC.
* Some devices use the SMBus (System Management Bus) protocol, which
* is a subset of commands from the I2C protocol. Fortunately, many
* devices use the same subset, which makes it possible to derive
* the following SMBus operations/commands.
*
* This module provides for SMB r/w byte and word commands based on
* top of the bus driver module. Note that locking is performed in
* this module, such that all drivers which use SMB commands are
* automatically MT-safe.
*
* When possible, try to use the SMB commands for developing your I2C
* device driver, as this will simplify debugging and development.
*
* Below is a list of SMBus commands, all of the commands are based
* on I2C protocol concepts.
*
* Key to symbols
* ==============
*
* S     (1 bit) : Start bit
* P     (1 bit) : Stop bit
* Rd/Wr (1 bit) : Read/Write bit. Rd equals 1, Wr equals 0.
* A, NA (1 bit) : ACK and Not ACK (NACK)  bit.
* Addr  (7 bits): I2C 7 bit address. Note that this can be expanded
```

```
*               as usual to get a 10 bit I2C address.
* Comm  (8 bits): Command byte, a data byte which often selects
*               a register or function on  the device.
* Data  (8 bits): A plain data byte. Sometimes, I write DataLow,
*               DataHigh for 16 bit data.
* Count (8 bits): A data byte containing the length of a block
*               operation.
*
* [..]: Data sent by I2C device, as opposed to data sent by the
*       host adapter.
*
* See also: bus.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/smbus.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_sbusdma_desc.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_sbusdma_desc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x100g_1xil100.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1x100g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56344sanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Helix4 BCM56344 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
```

```
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#10xF.QSGMII + 3xFlex[4x10]

local pbmmgmt 0x2000000000000
local pbmge 0x3fffffffffe
local pbmhg 0x3c0000000000
local pbmxe 0x3fc00000000000
local pbmport 0x3ffffffffffffe

if $?BCM56345_A0 \
'local pbmge 0x3ffffffffffe; \
local pbmhg 0x3fc000000000000; \
local pbmxe 0x3fc00000000000;'

if $?BCM56346_A0 \
'local pbmge 0x200001fffffe; \
local pbmhg 0x3c0000000000000; \
local pbmxe 0x3c000000000000;'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: Helix4 sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
```

```
local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

if !$?ihost_mode \
   'echo "Running PCI S-Channel Buf ...";\
    tr 4;\
    $done;'

init soc
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

hx4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
```

```
tr 31
$done

#Hashing tests
echo "Running hash mem test ..."
tr 55
$done

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

ps

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

# tr 48 does not work with mix of port types
```

```
echo "Running MAC loopback V2 on GE ports..."
tr 48 pbm=$pbmge speed=1000
$done

echo "Running MAC loopback V2 on XE ports ..."
tr 48 pbm=$pbmxe speed=10G
$done

echo "Running MAC loopback V2 on HG ports ..."
tr 48 pbm=$pbmhg speed=11G
$done

# tr 49 does not work with mix of port types
echo "Running PHY loopback V2 on GE ports ..."
tr 49 pbm=$pbmge speed=1000
$done

echo "Running PHY loopback V2 on XE ports ..."
tr 49 pbm=$pbmxe speed=10G
$done

echo "Running PHY loopback V2 on HG ports ..."
tr 49 pbm=$pbmhg speed=11G
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
```

```
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=11G
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=11G
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56344sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.46 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Stack Control Implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_sal.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_sal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    stack.c
* Purpose:    BCM level APIs for stacking applications
*
* Note : Not for RoboSwitch currently.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* ================================================
* ==  sbQe2000ElibVlan.c - elib VLAN Management  ==
* ================================================
*
* WORKING REVISION: $Id: sbQe2000ElibVlan.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000ElibVlan.c
*
* ABSTRACT:
*
```

```
*     elib public API for VLAN Management
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     21-June-2005
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbQe2000ElibVlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcrep.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mcrep.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: gsa_api_multicast2.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/gsa_api_multicast2.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_tdm.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
```

```
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_tdm.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56314_a0.c
* Purpose:     bcm56314_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56314_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
* Purpose: Provide low-level access to Hercules VLAN resources
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/vlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_code_hamming.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_code_hamming.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_code_hamming.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* portctrl soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/portctrl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2p/portctrl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/portctrl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound/portctrl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/portctrl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: internal_stack.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    internal_stack.c
*
* Purpose:
*
* Functions:
```

```
*     _bcm_kt_ptp_hw_init
*     _bcm_ptp_internal_stack_create
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/internal_stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_h.stg,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_tmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_tmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfHwQe2000QsPriLutEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfHwQe2000QsPriLutEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfHwQe2000QsPriLutEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1BagEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1BagEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_tbl_access.c,v 1.186 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_tbl_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_generic.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/stat_generic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/stat_generic.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/stat_ge.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/stat_ge.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysTimer.c,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sysTimer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: evlog.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       evlog.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/evlog.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vswitch.c,v 1.86 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/vswitch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_ofp_rates.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tnl_term.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tnl_term.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sweep_utilities.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/sweep/Utils/sweep_utilities.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_53118.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird/robo_bb.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field_presel_mgmt_advanced_mode.c
* Purpose: Example of how to use presel management Advanced mode .
*
* In order to enable presels managemnt advanced mode, it is necessary
* to set a soc property to indicate it.
* When configuring a program selection with src port qualifier and entry with specific DA and drop action for that field group, it is expected
* that frame which ingress the device in that source port and have that DA will be dropped.
* Vlan Editing commands for that Inlif will be performed.
*
* CINT Usage:
*
*  1. Set soc property:
*     field_presel_mgmt_advanced_mode=1
```

```
*
*  2. Run:
*      cint cint_field_presel_mgmt_advanced_mode.c
*      cint
*      field_presels_example(int unit, ,int stage, int single_presel , int in_port, int out_port);
*
*      where if stage==0 : ingress stage, else egress stage
*            if single_presel==1 => configure single presel
*
*  3. In order to verify presel was commited correctly to HW,
*     send packet with DA address in entry, from ingress port.
*     Packet should be dropped.
*
*  4. destroy presel by running : presel_destroy(int unit , int presel_id)
*
*  5. In order to verify presel was removed correctly from HW,
*     send packet with DA address in entry, from ingress port.
*     Packet should pass and received by egress port.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_presel_mgmt_advanced_mode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dbx_xml.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    dbx_xml.c
* Purpose:    Routines for handling XML data
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/dbx/dbx_xml.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.h,v 1.5.134.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: DMA command manager
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXC FABRIC PORTH
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_port.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pmf_trill_2pass_snoop.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_pmf_trill_2pass_snoop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x100g_1xhg127.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1x100g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mgr.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mgr.h
* Purpose:    Board manager shared declarations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/manager/mgr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_sim_em_block.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_sim_em_block.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: eagle.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: profile_mem.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Routines for managing HW profile tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/profile_mem.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_diag.h,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type29.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type29.h
* Purpose:    Define dma control block (DCB) format for a type29 DCB
*             used by the 56450 (Katana-2)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type29.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: et_dbg.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Minimal debug/trace/assert driver definitions for
* Broadcom Home Networking Division 10/100 Mbit/s Ethernet
* Device Driver.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/et_dbg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_property.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE PROPERTY H
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dfe/cmn/dfe_property.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: interrupt_handler.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/appl/dcmn/interrupts/interrupt_handler.h
No license file was found, but licenses were detected in source scan.

/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

        VxWorks BSP for NSX (BCM1125) Card
   Broadcom Corp 6/10/2004

This directory contains the VxWorks BSP for running VxWorks on the
BCM1125 processor card.  This BSP was originally derived from
the SiByte SWARM BSP for BCM1250.

Broadcom Common Firmware Environment (CFE) is used as the boot ROM
to boot VxWorks image directly from on board flash or over network.
CFE is modified to emulate VxWorks boot ROM.

Simple flash filesystem based on DOSFS 2.0, with 15 MB usable space
on the "flash:" device, CLI commands are provided for common file
operations.

            * * * * * * *

This file documents BSP interface changes from previous software or
hardware versions, and notifies the user of serious caveats that
must be noted before using this BSP.  Additionally, the target
board's manual page entry (e.g., man bcm1250) provides board-specific
information necessary to run VxWorks.  The target manual page should
```

be read fully before this BSP is used.

RELEASE 1.0/0

Released from Wind River for Tornado 2.1, VxWorks 5.4 and Tornado
2.2, VxWorks 5.5

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/README
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/README
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON WARM BOOT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_warm_boot.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600XbXcfgRemapEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600XbXcfgRemapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_reset.c, v1 21/09/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_reset.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_chip_defines.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_chip_defines.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :   *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/srds_api_enum_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/common/srds_api_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/public/srds_api_enum_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_enum.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_header_parsing_utils.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_header_parsing_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: work_queue.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    work_queue.c
* Purpose: Caladan3 work queue library (for now, designed for TAPS only)
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/work_queue.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk2_tdm.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tomahawk2_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linux-user-bde.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/user/kernel/linux-user-bde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_diags.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qe2000_diags.c
* Purpose:    QE2000-specific diagnostics tests
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/qe2000_diags.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_ce.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_low_level_ce.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ddrc16.c
* Purpose: PHY info for ddrc16
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ddrc16_regs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dos.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/dos.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: atp_int.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: atp_int.h
* Purpose: Internal ATP function headers
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/atp_int.h
No license file was found, but licenses were detected in source scan.

/*
* BCM44XX Ethernet Windows device driver custom OID definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etioctl.h,v 1.2 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etioctl.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etioctl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mux_drv.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/eth/mux_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_generic.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/portmod_stat.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_generic.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mmuerr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Error Handlers
*
* NOTE: These handlers are triggered by interrupts, but happen in their own
*      contexts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/mmuerr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* $Id: c3_2x10g_32x1g_1xhg127.h ,v 1.1.2.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_2x10g_32x1g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_sand.h
* Purpose:    Conversion between BCM and SOC_SAND types, and common macros/function for
*             handling Dune's code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Fundamental types and constants relating to 802.1D
*
* $Id: 802.1d.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/proto/802.1d.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counters.c,v 1.93 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: internal counter processor work
*
* Purpose:
*     Access to counters hosted by Soc_petra counter processors
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/counters.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/clmac.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/unimac.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/xlmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200WredDataTableEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200WredDataTableEntry.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200WredDataTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_fid_demo.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_tm_copy_lag_lb_key_after_itmh.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: visibility.h Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/visibility.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemFifoParamEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemFifoParamEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC memory access implementation for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk_sw_db.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk_sw_db.c
* Purpose: software database action to manage Trunk
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/trunk_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils_arad_card.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       utils_arad_card.c
* Purpose:     arad card Utilities.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_arad_card.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: The CINT demonstrates a Controlling bridge configuration as part of a Port Extender (802.BR) application.
*
* 1. The basic example handles L2 MC traffic.
*
*                                   ______________________
*            __________                |                |                __________
*     LIF 1  __|        |                |      CB      |                |        |__ LIF 3
*            __|  Port  | <------------------->|<------------------> |------------------------->|  Port   |__
*            __|        |     Cascaded-Port 1  |                |     Cascaded-Port 2   |        |__
*     LIF 2  __| Extender |                |                |                | Extender |__
*            |__________|                |                |                |__________|
*                                   |______________________|
*
* SOC properties:
* 1. Configure the device to be a Control Bridge: extender_control_bridge_enable. 1: Enable, 0: Disable.
* 2. Set the number of bytes to prepend to the start of the packet: prepend_tag_bytes = 8B
* 3. Set the offset in bytes from the DA/SA in the packet from which to prepend the tag: prepend_tag_offset = 0
*
* CINT files:
* cd ../../../../src/examples/dpp
* cint cint_utils_global.c
* cint cint_utils_port.c
* cint cint_utils_l2.c
* cint cint_utils_vlan.c
* cint cint_utils_extender.c
* cint cint_port_extender_cb_l2_mc.c
```

```
* cint
*
* port_extender_cb_l2_mc__start_run(int unit, port_extender_cb_l2_mc_s *param) - param = NULL for default
params
*
* All default values could be re-written with initialization of the global structure 'g_port_extender_cb_l2_mc', before
calling the main function.
* In order to re-write only part of the values, call 'port_extender_cb_uc_struct_get(port_extender_cb_l2_mc_s)'
function and re-write the values
* prior to calling the main function.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_extender_cb_l2_mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c $
*
* File:       ipmc.c
* Purpose:    Handle Trident2plus specific IPMC implementation
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_k.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_k.i

No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.133 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:    BCM56640 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: olp_pkt.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       olp_pkt.h
* Purpose:    olp Packet Format definitions
*             common to SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/olp_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: heap.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    heap.c
* Purpose: Caladan3 heap library (for now, designed for TAPS only)
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/heap.c
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------
**
** $Id: sbTypes.h,v 1.16 Broadcom SDK $
**
```

** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbTypes.h: basic types on which all Sandburst code depends
**
** ----------*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbTypes.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: wb_db_policer.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: POLICER warmboot APIs
*
* Purpose:
* POLICER API for Caladan3 Packet Processor devices
* Warm boot support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_policer.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: rate.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/rate.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/rate.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: diag.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       diag.h
* Purpose:     Device diagnostics commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_oam_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_oam_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif_ing_vlan_edit.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_lif_ing_vlan_edit.c
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_lif_ing_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_dhrp_api.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_dhrp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_j.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_j.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:           Generated on         Mon Aug  4 16:50:49 2014
*                MD5 Checksum         90bd96eb3324eedf6ffb8c4b8edcb595
```

```
*
* Compiled with:  RDB Utility         5.0
*               RDB Parser          3.0
*               rdb2macro.pm        4.0
*               Perl Interpreter    5.014001
*               Operating System    linux
*
* Spec Versions:  DDR34_RL3_PHY_ADDR_CTL   04
*               DDR34_RL3_PHY_BYTE_LANE  04
*
* RDB Files:  /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_top_blockdef.rdb
*           /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_addr_ctl.rdb
*           /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_regtypes.rdb
*           /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_byte_lane.rdb
*           /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_regtypes.rdb
*           /projects/ntsw_ddr/users/mbasoglu/RL3_PHY_Regs_File/ddr34_phy_byte_lane_regtypes.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/ddr34_rl3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1BagEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1BagEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm_ces_sal.h,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ces/include_bcm/bcm_ces_sal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyxehg.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyxehg.c
* Purpose:     Defines common PHY driver routines for Broadcom 10G PHYs.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyxehg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linkscan.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/linkscan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_api_eg_encap.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_eg_encap.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod_device.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
```

```
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*  Description: define enumerators
*-----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_device.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra28_types.h 2014/04/02 aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_types.h
No license file was found, but licenses were detected in source scan.

```
/*
  $Id$
  $Copyright: (c) 2016 Broadcom.
  Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* Skeleton implementation for Bison's Yacc-like parsers in C

     Copyright (C) 1984, 1989-1990, 2000-2006, 2009-2010 Free Software
  Foundation, Inc.

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.
```

```
  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */
/* As a special exception, you may create a larger work that contains
  part or all of the Bison parser skeleton and distribute that work
  under terms of your choice, so long as that work isn't itself a
  parser generator using the skeleton or a modified version thereof
  as a parser skeleton.  Alternatively, if you modify or redistribute
  the parser skeleton itself, you may (at your option) remove this
  special exception, which will cause the skeleton and the resulting
  Bison output files to be licensed under the GNU General Public
  License without this special exception.

  This special exception was added by the Free Software Foundation in
  version 2.2 of Bison.  */
/*
* $Id: cint_grammar.y,v 1.35 Broadcom SDK $
* $Copyright: (c) 2009 Broadcom Corp.
* All Rights Reserved.$
*
* File:       cint_grammar.y
* Purpose:     CINT C Parser
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_c.tab.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xasync_run.c
* Purpose: Async BCMX - execute a request
* Generator: mkdispatch 1.54
* Generated: Thu Feb 21 13:03:48 2013
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/async_run.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_field_access.c                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs to access Serdes IP Registers and Reg fields            *
*  Revision      :  $Id: falcon_furia_field_access.c 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $id cint_utils_field.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Different field processor utility functions and constants
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_field.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_multicast_fabric.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_multicast_fabric.h
*
* MODULE PREFIX:  soc_tmcmult_fabric
*
* FILE DESCRIPTION: In the Fabric-Multicast scheme,
*                   the packets/cells are replicated at the FE stage.
*                   This file holds the API functions and Structures
*                   which implement the Fabric Multicast.
*                   The file contains the standard get/set, clear and print
*                   for configuration.
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: timesource.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    timesource.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_tod_input_sources_set
*     bcm_common_ptp_tod_input_sources_get
*     bcm_common_ptp_tod_output_set
*     bcm_common_ptp_tod_output_remove
*     bcm_common_ptp_tod_output_get
*     bcm_common_ptp_timesource_input_status_get
*     bcm_common_ptp_input_channel_precedence_mode_set
*     bcm_common_ptp_input_channel_switching_mode_set
*     bcm_common_ptp_input_channels_get
```

```
*      bcm_common_ptp_input_channels_set
*      bcm_common_ptp_synce_output_set
*      bcm_common_ptp_synce_output_get
*      bcm_common_ptp_signal_output_get
*      bcm_common_ptp_signal_output_remove
*      bcm_common_ptp_signal_output_set
*      bcm_common_ptp_sync_phy
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/timesource.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/sc_field_defines.h#1 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : sc_field_defines.h
* Description:
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/sc_field_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_cell_snake_test.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC CELL SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_cell_snake_test.c

No license file was found, but licenses were detected in source scan.

```
/*
* BCM43XX PCI core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: pci_core.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/pci_core.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_multicast_fabric.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=40

# 4x10G on WC 0
ucode_port.port1.0=clport0.xe.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xe.0.1:il1.il100.0.1
ucode_port.port3.0=clport0.xe.0.2:il1.il100.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il100.0.3
```

```
# 2xHG10 + 2x10G on WC1
ucode_port.port5.0=clport0.hg10.1.0-1:il1.il100.0.4-1
ucode_port.port6.0=clport0.hg10.1.0-1:il1.il100.0.5-1
ucode_port.port7.0=clport0.hg10.1.0-1:il1.il100.0.6-1
ucode_port.port8.0=clport0.hg10.1.0-1:il1.il100.0.7-1
ucode_port.port9.0=clport0.hg10.1.0-1:il1.il100.0.8-1
ucode_port.port10.0=clport0.hg10.1.0-1:il1.il100.0.9-1
ucode_port.port11.0=clport0.hg10.1.0-1:il1.il100.0.10-1
ucode_port.port12.0=clport0.hg10.1.0-1:il1.il100.0.11-1

ucode_port.port13.0=clport0.hg10.1.1-1:il1.il100.0.12-1
ucode_port.port14.0=clport0.hg10.1.1-1:il1.il100.0.13-1
ucode_port.port15.0=clport0.hg10.1.1-1:il1.il100.0.14-1
ucode_port.port16.0=clport0.hg10.1.1-1:il1.il100.0.15-1
ucode_port.port17.0=clport0.hg10.1.1-1:il1.il100.0.16-1
ucode_port.port18.0=clport0.hg10.1.1-1:il1.il100.0.17-1
ucode_port.port19.0=clport0.hg10.1.1-1:il1.il100.0.18-1
ucode_port.port20.0=clport0.hg10.1.1-1:il1.il100.0.19-1

ucode_port.port21.0=clport0.xe.1.2:il1.il100.0.20
ucode_port.port22.0=clport0.xe.1.3:il1.il100.0.21

# 2x10G + 2xHG10 on WC 2
ucode_port.port23.0=clport0.xe.2.0:il1.il100.0.22
ucode_port.port24.0=clport0.xe.2.1:il1.il100.0.23
ucode_port.port25.0=clport0.hg10.2.2-1:il1.il100.0.24-1
ucode_port.port26.0=clport0.hg10.2.2-1:il1.il100.0.25-1
ucode_port.port27.0=clport0.hg10.2.2-1:il1.il100.0.26-1
ucode_port.port28.0=clport0.hg10.2.2-1:il1.il100.0.27-1
ucode_port.port29.0=clport0.hg10.2.2-1:il1.il100.0.28-1
ucode_port.port30.0=clport0.hg10.2.2-1:il1.il100.0.29-1
ucode_port.port31.0=clport0.hg10.2.2-1:il1.il100.0.30-1
ucode_port.port32.0=clport0.hg10.2.2-1:il1.il100.0.31-1

ucode_port.port33.0=clport0.hg10.2.3-1:il1.il100.0.32-1
ucode_port.port34.0=clport0.hg10.2.3-1:il1.il100.0.33-1
ucode_port.port35.0=clport0.hg10.2.3-1:il1.il100.0.34-1
ucode_port.port36.0=clport0.hg10.2.3-1:il1.il100.0.35-1
ucode_port.port37.0=clport0.hg10.2.3-1:il1.il100.0.36-1
ucode_port.port38.0=clport0.hg10.2.3-1:il1.il100.0.37-1
ucode_port.port39.0=clport0.hg10.2.3-1:il1.il100.0.38-1
ucode_port.port40.0=clport0.hg10.2.3-1:il1.il100.0.39-1


higig2_hdr_mode=1

diag_emulator_partial_init=0
```

```
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_xe6=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_hg0=0x3210
xgxs_tx_lane_map_xe6=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg8=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_hg16=0x0000
phy_xaui_rx_polarity_flip_hg24=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg8=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0000
phy_xaui_tx_polarity_flip_xe7=0x0000
phy_xaui_tx_polarity_flip_hg16=0x0001
phy_xaui_tx_polarity_flip_hg24=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032
```

```
port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

```
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-8x10g_4xhg10-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision      :  $Id: phy8806x_tsc_enum.h 925 2015-02-24 23:23:58Z kirand $ *
*                                                                             *
*  Description   :  Enum types used by Serdes API functions                   *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndRecord.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpVlanIndRecord.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       prbs.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/prbs.h
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88750sanity.soc,v 1.7 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Fe1600 (BCM88750) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

local done 'echo "   Done"'

# Avoid link messages while testing
linkscan off
counter off
deinit rx_los
deinit interrupt

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*
```

```
#Clear test statistics
tc *

#Display some useful information
date



#Start Test

echo "Running tr 2 - PCI Compliance"
tr 2
$done

echo "Running tr 9 - Broadcast Blocks"
tr 9
$done

echo "Running tr 3 - Register read/write"
tr 3
$done

echo "Running tr 5 - BIST Test"
tr 5
$done

echo "Running tr 6 - Memories Test"
tr 6
$done

echo "Running tr 7- Memories WR First Last Test"
tr 7
$done

echo "Running tr 50 - Memory Fill/Verify"

echo "RTP_MCLBTP"
tr 50 m=RTP_MCLBTP

echo "RTP_MCLBTS"
tr 50 m=RTP_MCLBTS

echo "RTP_MCT"
tr 50 m=RTP_MCT

echo "RTP_MULTI_TB"
tr 50 m=RTP_MULTI_TB
```

```
echo "RTP_RCGLBT"
tr 50 m=RTP_RCGLBT

echo "RTP_SCTINC"
tr 50 m=RTP_SCTINC

echo "RTP_SLSCT"
tr 50 m=RTP_SLSCT

echo "RTP_TOTSF"
tr 50 m=RTP_TOTSF

$done

echo "Running tr 51 - Memory Random Addr/Data"

echo "RTP_MCLBTP"
tr 51 m=RTP_MCLBTP

echo "RTP_MCLBTS"
tr 51 m=RTP_MCLBTS

echo "RTP_MCT"
tr 51 m=RTP_MCT

echo "RTP_MULTI_TB"
tr 51 m=RTP_MULTI_TB

echo "RTP_RCGLBT"
tr 51 m=RTP_RCGLBT

echo "RTP_SCTINC"
tr 51 m=RTP_SCTINC

echo "RTP_SLSCT"
tr 51 m=RTP_SLSCT

echo "RTP_TOTSF"
tr 51 m=RTP_TOTSF

$done

echo "Running tr 52 - Rand Mem Addr, write all"

echo "RTP_MCLBTP"
tr 52 m=RTP_MCLBTP
```

```
echo "RTP_MCLBTS"
tr 52 m=RTP_MCLBTS

echo "RTP_MCT"
tr 52 m=RTP_MCT

echo "RTP_MULTI_TB"
tr 52 m=RTP_MULTI_TB

echo "RTP_RCGLBT"
tr 52 m=RTP_RCGLBT

echo "RTP_SCTINC"
tr 52 m=RTP_SCTINC

echo "RTP_SLSCT"
tr 52 m=RTP_SLSCT

echo "RTP_TOTSF"
tr 52 m=RTP_TOTSF

$done


echo "Running tr 71 - Table DMA"

echo "RTP_MCLBTP"
tr 71 m=RTP_MCLBTP

echo "RTP_MCLBTS"
tr 71 m=RTP_MCLBTS

echo "RTP_MCT"
tr 71 m=RTP_MCT

echo "RTP_MULTI_TB"
tr 71 m=RTP_MULTI_TB

echo "RTP_RCGLBT"
tr 71 m=RTP_RCGLBT

echo "RTP_SCTINC"
tr 71 m=RTP_SCTINC

echo "RTP_SLSCT"
tr 71 m=RTP_SLSCT

echo "RTP_TOTSF"
```

```
tr 71 m=RTP_TOTSF

$done

echo "Running tr 60 - Linkscan MDIO"
tr 60
$done

echo "Running tr 141 - DEINT INIT (SOC BCM)"
counter on
init interrupt
init rx_los
tr 141
deinit rx_los
deinit interrupt
counter off
$done


echo "Running tr 141 - WARMBOOT test"
counter on
init interrupt
init rx_los
tr 141 Warmboot=1
deinit rx_los
deinit interrupt
counter off
$done


echo "Running tr 1 - Register reset defaults"
tr 1
$done

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88750sanity.soc
No license file was found, but licenses were detected in source scan.

```
# $Id: BCM953022K.bcm,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
```

```
pbmp_valid=0x11f
# internal GPHY
phy_sys_interface_ge4.0=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM953022K.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/rx.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy53xxx.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	serdes.c
* Purpose:
* Fiber driver for 53xxx using internal QuadSerdes PHY.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy53xxx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbutils.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/sbutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	tx.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tx.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cmu.c,v 1.20.24.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    cmu.c
* Purpose: Caladan3 CMU drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/cmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibFMVT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibFMVT.h
*
* <pre>
*
* ==============================================================================
* ==  sbZfSbQe2000ElibFMVT.h - Multicast Vector Table Entry ZFrame ==
* ==============================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibFMVT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibFMVT.h
*
* ABSTRACT:
```

```
*
*     Multicast Vector Table Entry ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     2-March-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibFMVT.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: fsanitypcid.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

if !@?1 "local 1 fsanitylog.txt"
set rctest=f
set rcerror=f

log file=@1 append=yes on

date
ver
soc

rc.soc

counter i=1000000 dma=f pbm=all
sleep 10
counter i=1000000 dma=t pbm=all
sleep 10
counter i=0

tc *
```

```
echo "Register reset defaults "
tr 1
echo "Done"

echo "Register read/write"
tr 3
echo "Done"

# The following tests are shortened for PLI mode.

echo "XGS L2 Ins/Lookup/Del"
if $?plisim "tr 32 count=4"
if !$?plisim "tr 32"

echo "Done"

echo "XGS L2 Overflow Ins"
if $?plisim "tr 33 count=4"
if !$?plisim "tr 33"
echo "Done"

echo "XGS L2 Hashing"
if $?plisim "tr 34 count=256"
if !$?plisim "tr 34"
echo "Done"

echo "XGS L3 IPV6 Ins/Lookup/Del"
if $?plisim "tr 85 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=t; \
        tr 85 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
        "
if !$?plisim "tr 85"
echo "Done"

echo "XGS L3 IPV6 Overflow Ins"
if $?plisim "tr 86 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
        tr 86 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
       "
if !$?plisim "tr 86"

echo "Done"
echo "XGS L3 IPV4 Ins/Lookup/Del"
if $?plisim "tr 87 count=4"
if !$?plisim "tr 87"
```

```
echo "Done"

echo "XGS L3 IPV4 Overflow Ins"
if $?plisim "tr 88 count=4"
if !$?plisim "tr 88"
echo "Done"

if !$?plisim "\
   echo 'XGS L2 Delete by Port'; \
   tr 35; \
   echo 'Done'; \
\
   echo 'XGS L2 Delete by VLAN'; \
   tr 36; \
   echo 'Done'; \
\
   echo 'Memory Fill/Verify'; \
   tr50fb.soc; \
   echo 'Done'"

echo "Memory Random Addr/Data"
tr51fb.soc
echo "Done"

echo "CPU Benchmarks"
tr 21
echo "Done"

echo "Counter widths"
tr 30
echo "Done"

echo "Counter read/write"
tr 31
echo "Done"

echo "Table DMA"
tdmafb.soc
echo "Done"

echo "Linkscan MDIO"
#5 for PCID/QT. Make it 10000 for chip
if $?plisim "tr 60 R=5"
if !$?plisim "tr 60"
echo "Done"

testmode +override
set rctest=t
```

```
echo "MAC loopback on Ethernet ports"
tr 18 pbm=e PPC=2 C=2 dmi=1
echo "Done"

echo "MAC loopback on HG ports"
tr 18 pbm=hg PPC=2 C=2 dmi=1
echo "Done"

if !$?plisim "\
   echo 'PHY loopback on Ethernet ports'; \
   tr 19 pbm=e PPC=2 C=1; \
   echo 'Done'; \
    \
   echo 'PHY loopback on HG ports'; \
   tr 19 pbm=hg PPC=2 C=1; \
   echo 'Done'"

echo 'CPU S/G, Reload'
tr 22 LE=512 LI=192 DI=3 C=1
echo 'Done'

echo 'CPU S/G, Simple'
tr 23 LE=512 LI=192 PPCI=3 DPPI=4 C=1
echo 'Done'

echo 'CPU S/G, Random'
tr 24 LE=512 LI=192 PPCI=3 DVI=3 DI=3 C=1
echo 'Done'

echo "MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single

echo "PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

if !$?plisim "\
   echo 'Running Traffic test on all ports for one minute in MAC Mode ...'; \
   tr 72 TIS=60 CPI=5 RM=Phy SP=MAX L=1500 PBM=e; \
   echo 'Running Traffic test on all ports for one minute in PHY Mode ...'; \
   tr 72 TIS=60 CPI=5 RM=Phy SP=MAX L=1500 PBM=e; \
   echo 'Running internal snake on all ports, MAC loopback ...'; \
   tr 39 loopbackmode=mac snakepath=two; \
   echo 'Done'; \
   echo 'Running internal snake on all ports, PHY loopback ...'; \
   tr 39 loopbackmode=phy snakepath=two; \
   echo 'Done'"

date
```

```
#Print the final summary information
tl

log off
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/fsanitypcid.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_indirect.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_indirect.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sal_cint_data.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sal_cint_data.c
*
* Hand-coded support for a few SAL core routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/sal_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccm_pack.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ccm_pack.c
* Purpose:    CCM pack and unpack routines for:
*             - CCM Control messages
*
* CCM control messages
*
* CCM messages between the Host CPU and uController are sent
```

```
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The CCM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/ccm_pack.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Metrolite Sanity
#
# Script to run all available tests.
# For testing basic sanity of new drivers, simulators, chips, etc.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'

counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

local beagle 0;
if $?BCM53460_A0 || $?BCM53461_A0 \
'local beagle 1;'

# Avoid link messages while testing
linkscan off
```

```
init soc
local done 'echo "Test Completed"'

#Display some useful information
date
ver
soc
config show
show portmap
show params
phy info


#Start Test
date
echo "Running PCI Compliance Test ..."
tr 2
$done

date
echo "Running PCI S-Channel Buffer Test ..."
tr 4
$done

date
echo "Running Register Reset Defaults Test..."
tr 1
$done

date
echo "Running Register Read/Write Test..."
tr 3 mask64
$done
date

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

date
echo "Running CPU Benchmarks Test..."
tr 21
$done

if !$beagle \
```

```
'date ;\
echo "Running XGS L2 Delete by Port Test..." ;\
tr 35 Reset=False;'

if !$beagle \
'date;\
echo "Running XGS L2 Delete by VLAN Test...";\
tr 36 Reset=False Count=50;'

date
echo "Running BCM Packet Send Test..."
tr 40

date
echo "Running BCM Packet Receive Test..."
tr 41

date
echo "Running Memory Tests..."
rcload trall_bcm56270_a0.soc
$done
date

# Re-initialize to clean up of various read/writes to MMU memories
set rct=true
counter off
l2mode off
linkscan off
memscan off

date
echo "Running Counter Width Verification Test..."
tr 30
$done

date
echo "Running Counter Read/Write Test..."
tr 31
$done

date
echo "Running XGS L2 Ins/Lookup/Del Test..."
tr 32
$done

if !$beagle \
'date; \
echo "Running XGS L2 Overflow Ins Test...";\
```

```
tr 33;\
$done;'

if !$beagle \
'date;\
echo "Running XGS L2 Hashing Test...";\
tr 34;\
$done ;'

date
set rct=true

echo "Running MDIO Linkscan Test..."
tr 60
$done

date
echo "Running CPU DMA Loopback Test..."
tr 17
$done

date
echo "Running CPU DMA, Scatter/Gather Reload Test..."
tr 22
$done

date
echo "Running CPU DMA, Scatter/Gather Simple Test..."
tr 23 PacketsPerChainEnd=1
$done

date
echo "Running CPU DMA, Scatter/Gather Random Test..."
tr 24 PacketsPerChainEnd=1
$done

#MAC Loopback
date
echo "Running MAC Loopback Test - all ports..."
tr 18 PortBitMap=ge,xe Speed=max
$done

#PHY Loopback
date
echo "Running PHY Loopback Test - all ports..."
tr 19 PortBitMap=ge,xe Speed=max
$done
```

```
echo "Running MAC Loopback V2 Test - all ports..."
tr 48 PortBitMap=ge,xe
$done

echo "Running PHY Loopback V2 Test - all ports..."
tr 49 PortBitMap=ge,xe
$done

#Internal snake Loopback
date
echo "Running Internal Snake Test - all ports, MAC Loopback..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ge,xe Count=1
$done

echo "Running Internal Snake Test - all ports, PHY Loopback..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ge,xe Count=1
$done


#Traffic Test
date
echo "Running Traffic Test in MAC mode on ports..."
tr 72 RunMode=MAC PortBitMap=ge,xe TimeInSeconds=3
$done

echo "Running Traffic Test in PHY mode on ports..."
tr 72 RunMode=PHY PortBitMap=ge,xe TimeInSeconds=3
$done

#enable when external connections are present
#echo "Running Traffic Test in EXTERNAL mode on XE ports with AutoNeg disabled..."
#tr 72 RunMode=EXTERNAL AutoNeg=False PortBitMap=xe
#$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
# For BCM56272 following pairing should be present
#    ge0-ge4, ge1-ge5, ge2-ge6, ge3-ge7
#if $?BCM56272_A0 \
#    'tr 72 rm=external pbm=ge0,ge4 an=f sp=1000; \
#     tr 72 rm=external pbm=ge1,ge5 an=f sp=1000; \
#     tr 72 rm=external pbm=ge2,ge6 an=f sp=1000; \
#     tr 72 rm=external pbm=ge3,ge7 an=f sp=1000;' \
#else \
#    'tr 72 rm=external pbm=xe0,xe4 an=f sp=10g; \
#     tr 72 rm=external pbm=xe1,xe5 an=f sp=10g; \
#     tr 72 rm=external pbm=xe2,xe6 an=f sp=10g; \
```

```
#     tr 72 rm=external pbm=xe3,xe7 an=f sp=10g;'


# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
# For BCM56272 following pairing should be present
#    ge0-ge4, ge1-ge5, ge2-ge6, ge3-ge7
#echo "Running external loopback ..."
#if $?BCM56272_A0 \
#'tr 20 tpbm=ge0-ge3 di=4 an=f s=1000' \
#else \
#'tr 20 tpbm=xe0-xe3 di=4 an=f s=10g'
#$done


date
echo "Running SNMP MIB Object Test..."
tr 73
$done

date
echo "Running TX Reload Test..."
tr 90
$done

date
echo "Running RX Reload Test..."
tr 91
$done
date

set rct=false
init soc
init misc

if !$beagle \
'date; \
echo "Running VLAN Xlate Overflow Insert Test...";\
tr 100;\
$done;'

if !$beagle \
'date;\
echo "Running VLAN Xlate Hashing Test...";\
tr 101 DualHash=0 Count=1024;\
tr 101 DualHash=1 Count=1024;\
tr 101 DualHash=2 Count=1024;\
tr 101 DualHash=3 Count=1024;\
```

```
tr 101 DualHash=4 Count=1024;\
tr 101 DualHash=5 Count=1024;\
$done;'

if !$beagle \
'date;\
echo "Running Egress VLAN Xlate Overfloew Insert Test...";\
tr 102;\
$done;'

if !$beagle \
'date;\
echo "Running Egress VLAN Xlate Hashing Test...";\
tr 103 DualEnable=1 DualHash=0 Count=1024;\
tr 103 DualEnable=1 DualHash=1 Count=1024;\
tr 103 DualEnable=1 DualHash=2 Count=1024;\
tr 103 DualEnable=1 DualHash=3 Count=1024;\
tr 103 DualEnable=1 DualHash=4 Count=1024;\
tr 103 DualEnable=1 DualHash=5 Count=1024;\
$done;'

if !$beagle \
'date;\
echo "Running MPLS Overflow Insert Test...";\
tr 104;\
$done ;'

if !$beagle \
'date;\
echo "Running MPLS Hashing Test...";\
tr 105 DualEnable=1 DualHash=0 Count=1024;\
tr 105 DualEnable=1 DualHash=1 Count=1024;\
tr 105 DualEnable=1 DualHash=2 Count=1024;\
tr 105 DualEnable=1 DualHash=3 Count=1024;\
tr 105 DualEnable=1 DualHash=4 Count=1024;\
tr 105 DualEnable=1 DualHash=5 Count=1024;\
$done;'

# Show status
date
tl
local returnCode $?

echo "Tests Complete.  Reinitializing ..."
config refresh
rcload rc.soc
counter off
l2mode off
```

```
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/metrolitesanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macutil.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MAC driver support utilities.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/macutil.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod16_cfg_seq.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : temod16_cfg_seq.c
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: merlin_sesto_fields.h 661 2014-08-14 23:20:49Z kirand $ *
```

```
*                                                                    *
*  Description   :  Register access macros for MERLIN_SESTO                    *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 - Broadcom StrataSwitch Layer-2 switch API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_builtins.c,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_builtins.c
* Purpose:     CINT building function handlers
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_builtins.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_c.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_c.i
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_x.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_x.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_pcp_api.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_pcp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemFifoParamEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemFifoParamEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* ! \file bcm_int/dnx/l3/l3.h Internal DNX L3 APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/l3/l3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fec_allocation.h,v 1.312 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fec_allocation.h
* Purpose:    fec allocation managament
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/FecAllocation/fec_allocation.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/FecAllocation/fec_allocation.c
No license file was found, but licenses were detected in source scan.

```
/*
* NVRAM variable manipulation
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmnvram.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmnvram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueByteAdjEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueByteAdjEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaSrManualDeskewEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaSrManualDeskewEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmutils.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Misc useful os-independent macros and functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tksdiag.c,v 1.88 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tksdiag.c
* Purpose:    CPU transport, CPU DB, and Stacking functions
* Requires:
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/diag/tksdiag.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibCRT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibCRT.h
*
* <pre>
*
* ====================================================================
* ==  sbZfSbQe2000ElibCRT.h - Class Resolution Table ZFrame  ==
* ====================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibCRT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibCRT.h
*
* ABSTRACT:
*
*     Class Resolution Table ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
```

```
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-November-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibCRT.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls_roo.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_vpls_roo.c
* Purpose: Example of Open Multi-Point VPLS service with PWE-ECMP configuration,
*          Routing over PWE and Bridging over PWE (using the same HW objects)
*          The attached ports can be attachment circuits or PWEs.
* BCM88660 supports only Bridging over PWE
* BCM88675 supports both Bridging over PWE and Routing over PWE
*
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                          connect from access side.
*
* For this service, multiple logical ports can be attached where each logical port can be:
*
*
~~~
```

```
* |          . .    . .      .   /\/    +-------------+    \/\ \/\   .    . +--------+ . .  .   |
* |   . .  .   +----+    .  +---------+ <---| - - - - - -|---- +---------+   .  |Routec |      .   |
* | .    .    |UNIa|--------|        | ----| - - - - - -|---> |        |----- +--------+ +----+ .   |
* | .  +------+ +----+    . |   PE1   |    |    MPLS    |    |   PE2   |----------------|UNId|   . |
* |   . |Routeb| ---------------|  OEBR   | <---| - TUNNEL- -|---- |   OEBR  |--- +----+      +----+   . |
* | .   +------+          .  +---------+ ----| - - - - - -|---> +---------+  . |UNIe|            .   |
* |.          Native      .     .    . .  +-------------+            . .  +----+   Native   .    |
* | .    .      .    . . .       . .    .     .     .    .    .    .     .    .  |
* |  . .  . . .  . .                  . . .  . . .  . . . .     . . .  . . .  . .    |
* |                                                                                  |
* |     +---------------------+    +-------------------------------------+  +-----------------+       |
* |     |  Ethr   | IP | Data |    | Ethr | MPLS | PWE | Ethr | IP | Data |  | Ethr |IP | Data |       |
* |     +---------------------+    +-------------------------------------+  +-----------------+       |
* |                                                                                  |
* |                  +~~~
```

```
* ~~~
```

```
*
* Access side packets:
*
*   ~~~
```

```
* Routing into overlay:
*
* Send through port 202 IPv4oETH into core. Route into core with IPv4oETHoMPLSoMPLSoETH on port 203.
*
*   ----------->
*
*   ~~~
```

```
*                           EGRESS_ONLY configures the egress onject (encapsulation)
*                           FORWARDING_GROUP configured the FEC
*                           mpls_port_id must be the same for ingress and egress so that split horizon filter will work.
*       - PWE egress interface is egress object created above.
*       - After creating several forwarding groups, connect them into one ecmp object.
*       -   Packet routed to above interface is tunneled into PWE ECMP, where tunnels are set according to
*           load balancing to the values 1000-1010 and 1500-1510. (these will be created later)
* -   Set up MPLS tunnels. Refer to mpls_tunnels_config().
*     -   Set MPLS L2 termination (on ingress).
*         -   MPLS packets arriving with DA 00:00:00:00:00:11 and VID 100 causes L2 termination.
*         -   Calls bcm_l2_tunnel_add().
*     -   Add pop entries to MPLS switch.
*         -   MPLS packet arriving from the MPLS network side with labels 1000-1010 or 1500-1510 the label/s
*             are popped (refer to mpls_add_pop_entry).
*         -   Calls bcm_mpls_tunnel_switch_create().
*         -   Create MPLS L3 interface (on egress).
*         -   Packet routed to this L3 interface is set with this MAC.
*         -   Calls bcm_l3_intf_create().
*     -   Create MPLS tunnels pointed by the MPLS-ports.
*         -   Tunnel inteface of the MPLS label is created on the same entry as the mpls_port.
*         -   Calls bcm_mpls_tunnel_initiator_get() and then bcm_mpls_tunnel_initiator_create().
* -   Create multipoint VSI #6202 (refer to mpls_port__vswitch_vpls_vpn_create__set).
*     -   calling bcm_mpls_vpn_id_create().
*         -   You has to supply VPN ID and multicast groups. For this purpose, the following flags have
*             to be present BCM_MPLS_VPN_VPLS|BCM_MPLS_VPN_WITH_ID.
*         Note that uc/mc/bc group have the same value as VSI. Another option is to set uc_group = VSI,
*         and mc = uc + 4k, and bc = mc + 4k.
*     -   Use open_ingress_mc_group() to open multicast group for flooding.
*         -   Multicast group ID is equal to VPN ID.
* -   Create Native Routing Interface (for routing over PWE only)
*     -   create_l3_intf create native routing interface.
*     -   create_l3_egress create fec for native routing. (hierarchical fec: point to MPLS tunnel FEC):
*         Build native ethernet link layer with vlan 700
*
* Traffic:
*  Flooding packets incoming from MPLS network:
*  Send the following packet, where the DA of the inner Ethernet is unknown on VSI.
*
*  Flooding Packets Incoming from MPLS Network same as Packets Received from PWE1, see Figure 15
*
* -   Packet is flooded (as DA is not known):
*     -   Packet is received.
*         -   In access P1: physical port P1 with VLAN tag1: VID =10, VLAN tag2: VLAN ID = 20.
*         Note that the packet is not received on PWE1 due to split-horizon filtering.
*         A packet received from HUB is not flooded back to HUB.
* -   The SA of the packet is learned 6202.
*     -   Call l2_print_mact(unit) to print MAC table content.
*
```

```
*  Flooding packets incoming access side.
*  -   Send Ethernet packet from access-P1:
*      -   Any SA
*      -   Unknown DA
*      -   VLAN tag1: VLAN tag type 0x8100, VID =10
*      -   VLAN tag2: VLAN tag type 0x9100, VID =20
*
*  Flooding Packets from Incoming Access Side same as Packets Received/Transmitted
*  on Access Port 1, see Figure 18.
*
*  -   Packet is flooded (as DA is not known).
*      -   Packet is received:
*          -   On physical port P1:
*              -  PWE1: With VC label. MPLS tunnels in multicast come from only one ECMP entry, in this case the
first {1000,1500},
*              as configured by the multicast table configuration.
*          Note that the packet is not received on access P1, as packet was injected
*          from this logical port, that is, hair-pin filtering.
*  -   The SA of the packet is learned on VSI 6202.
*      -   Call l2_print_mact(unit) to print MAC table content.
*
* Sending to known DA
*  -   Send Ethernet packet from any logical interface PWE or Access port with known DA on VSI 6202
*      the packet will be forwarded to the specific logical port with required editing.
*
*  Sending IPv4oETHoMPLSoMPLSoETH, route out of overlay with IPv4oETH:
*  Send packet through port 203. PWE (2010) + MPLS (1002) labels will be processed, packet will route with
*  SIP == 171.17.17.17, DIP == 160.161.161.161.
*
*  Sending IPv4oETH, route into overlay with IPv4oETHoMPLSoMPLSoETH:
*  Send packet through port 202 with SIP == 171.17.17.18, DIP == 160.161.161.162. DIP will be processed, the
result of which
*  is an encapsulation of PWE (1982) + MPLS (1001).
*
* Remarks:
*  -   For this application at least two ports are needed, one for access side and one for MPLS network side
*  -   User can statically add entry to the MACT pointing to a gport using
*      vswitch_add_l2_addr_to_gport(unit, gport_id)
*  -   Set verbose = 1/0 to show/hide informative prints
*  -   Calling vswitch_vpls_roo_run() as is more than one time would fail because this call will try open same
*      VPN twice,  to avoid this user should set vswitch_vpls_info_1.vpn_id different value in order to
*      open new service.
*
* To Activate Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_global.c
*   BCM> cint examples/dpp/utility/cint_utils_vlan.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
```

```
*   BCM> cint examples/dpp/utility/cint_utils_l3.c
*      BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/utility/cint_utils_roo.c
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*      BCM> cint examples/dpp/cint_qos.c
*      BCM> cint examples/dpp/cint_mpls_lsr.c
*      BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*      BCM> cint examples/dpp/cint_vswitch_vpls.c
*      BCM> cint examples/dpp/cint_vswitch_vpls_roo.c
*      BCM> cint examples/dpp/cint_system_vswitch_encoding.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = vswitch_vpls_roo_run_with_defaults(unit);
*
* Script adjustment:
*  User can adjust the following attribute of the application
*  -   vpn_id:            VPN id to create
*  -   ac_in_port:        accesss port: physical port connect to customer
*  -   pwe_in_port:       network port: physical port connect to MPLs network (for incoming packets)
*  -   pwe_out_port:      network port: physical port connect to MPLs network (for outgoing packets)
*  -   in_vc_label:       incomming VC label
*  -   eg_vc_label:       egress VC label
*  -   in_tunnel_label:       inner tunnel label
*  -   ecmp_size:         number of members in ECMP
*  -   out_to_core_vlan:   vlan on the PWE outgoing packets
*  -   enable_routing_over_pwe: enable routing over pwe. If disabled, bridging over pwe. To enable from Jericho
devices.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls_roo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/mbcm.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.h,v 1.73 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/mbcm.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/mbcm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DPP eeprom utils
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2.c,v 1.298 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* File: trident2.c
* Purpose:
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_clport_based_common_mode_ilkn50.h.h, Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_clport_based_common_mode_ilkn50.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEbMvtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEbMvtEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: trunk.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Triumph3 LAG dynamic load balancing
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/trunk.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_mim_p2p.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mim_p2p.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_sorted_list.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_sorted_list.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:soc_dnx_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dnx_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trill.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Trident L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_multicast.c,v 1.10 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Service meters(global meters) definitions internal
* to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/policer.h
No license file was found, but licenses were detected in source scan.

```
# $Id: rcr.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Reload script
#
# A system reload is when the software is restarted from scratch
# *without* the hardware being reset in any way.  The software
# will read the current state out of the hardware and resume as if
# nothing had happened.
#
# This script is the reload counterpart to the rc.soc script.
# It calls all the steps needed during the reload process to
# restore each subsystem.
#
# To use reload mode, the boot flag must be set to indicate reload.
# In this mode, the BCM command monitor will attach all devices
# and come to the prompt non-destructively.  Then this script is
# run to bring all the software modules through reload initialization.
#
# Assumes the same board configuration config variables are set
# that rc.soc uses.
```

```
if $?1 "echo reload: arguments not supported; exit"

local echo echo

echo "reload: unit $unit device $devname"

#reload show

# Set convenience local variables

if $?quickturn || $?plisim \
 "local simulator 1"

# Chip-related

if $?drac || $?drac15 \
 "local drac_any 1"

# Set software's wait for S-Channel response to 3 seconds for QuickTurn
# (Recommend at least 10 seconds if the ARL is 100% busy with inserts.)
if $?quickturn "stimeout 3000000"
if $?plisim "stimeout 60000000"

# Direct phy led programming: 5464 activity led becomes link/activity
if $?lancelot && $?drac_any \
 "config add phy_led_ctrl=0x18"

# Direct phy led programming: 5464 led4 becomes energy/link
if $?magnum \
 "config add phy_led4_mode_ge=0xc"

#
# The following commands each do reinitialization instead of
# initialization when the unit is in reload mode.
#

# Reinitialize SOC
init soc

# Reinitialize miscellaneous chip registers
init misc

# Reinitialize the StrataSwitch MMU registers
init mmu

#
# Init CLI and BCM API
#
```

```
# This must be done after the raw register writes to avoid having state
# clobbered.  NOTE: Tables are cleared by "init bcm" below.  If
# table modifications are required, put them after "init bcm".  Some
# registers might also be affected.
#

init bcm
$echo rc: BCM driver reinitialized

# Resume mirroring of hardware ARL operations into software ARL table.
# The ARL table will be reloaded from hardware.

if $?feature_arl_sorted \
 "arlmode intr_dma; \
  $echo rc: ARL DMA shadowing enabled"

if $?feature_arl_hashed && !$?simulator \
 "l2mode interval=3000000; \
  $echo rc: L2 Table shadowing enabled"

# If running BCM library, resume linkscan task

linkscan interval=250000 spbm=e,hg

# At this point the reload is completed.

echo "Use the command 'reload done' to exit reload mode."

# Restart statistics collection (zeroed)

if $?plisim "local dma false"
if !$?plisim "local dma true"

counter Interval=1000 Pbm=all Dma=$dma

# Resynchronize the saved values kept by the 'show counter' command.
if !$?simulator "counter sync"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/rcr.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lag.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_lag.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*                                                                              *
*  Revision      :  $Id: falcon_furia_common.h 869 2015-01-23 00:24:44Z kirand $ *
*                                                                              *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                              *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                              *
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC_JER2_JER_REG_ACCESS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm84756_ucode.c,v 1.4 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Firmware version : 0xD105  (A0)
* Firmware version : 0x0132  (B0/C0)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bcm84756_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeMaxBurstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeMaxBurstEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_multi_set.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_multi_set.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_appl_intr_corr_act_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implement header correction action functions for jericho interrupts.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_intr_corr_act_func.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: shmoo_and28.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 28nm PHY Support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shmoo_and28.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: time.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: time.c
* Purpose: Time management
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/time.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/time.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbx_drv.h,v 1.280.8.1.4.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the

* individual driver files don't have to include as much.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbx_drv.h
No license file was found, but licenses were detected in source scan.

/* $Id: soc_dpp_i2c.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_i2c.h
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
****
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND

WITH
ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/
/*
* $Id: nlmrangemgr_refapp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2007 Broadcom Corp.
* All Rights Reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp/nlmrangemgr_refapp.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wcmod_enum_defines.h,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_tpid.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_port_tpid.c
* Purpose: Example of how to set the tag protocol identifiers (TPID) to identify in a given port
*
* Default settings:
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    By default, learning is managed by device without interference from the CPU.
*  o    By default, aging is disabled.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
* Note: Without running diag_init, ports are not associated with any TPID,
*       and thus all packets would be considered as untagged.
*       Besides, only untagged packets are accepted.
*
* Examples:
*  o    port_tpid_init(2,1,1): defines two TPIDs on port 2, 0x8100 as outer and 0x9100 as inner TPID.
*  o    port_tpid_set(0): Commits the above setting on unit 0.
*
* Note: You can also use this cint on a remote device by calling the functions with the remote unit id.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_tpid.c
No license file was found, but licenses were detected in source scan.

```
# $Id: trsanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56620_A0 || $?BCM56620_A1 || $?BCM56620_B0 || $?BCM56620_B1 \
   'local BCM56620 1'
if $?BCM56624_A0 || $?BCM56624_A1 || $?BCM56624_B0 || $?BCM56624_B1 \
   'local BCM56624 1'
if $?BCM56626_A0 || $?BCM56626_A1 || $?BCM56626_B0 || $?BCM56626_B1 \
```

```
   'local BCM56626 1'
if $?BCM56628_A0 || $?BCM56628_A1 || $?BCM56628_B0 || $?BCM56628_B1 \
   'local BCM56628 1'
if $?BCM56629_A1 || $?BCM56629_B0 || $?BCM56629_B1 \
   'local BCM56629 1'
if $?BCM56680_A0 || $?BCM56680_A1 || $?BCM56680_B0 || $?BCM56680_B1 \
   'local BCM56680 1'
if $?BCM56684_A0 || $?BCM56684_A1 || $?BCM56684_B0 || $?BCM56684_B1 \
   'local BCM56684 1'
if $?BCM56686_B0 || $?BCM56686_B1 \
   'local BCM56686 1'

if $?BCM56680 || $?BCM56684 || $?BCM56686 \
   'echo "Please use vsanity.soc instead for Valkyrie!!"; \
    echo " "; \
    quit'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
```

```
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."
echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
```

```
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
```

```
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
```

```
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
```

```
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
```

```
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
```

```
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
echo " ING_L3_NEXT_HOP_A";
tr 50 M=ING_L3_NEXT_HOP_A;
```

```
tr 51 M=ING_L3_NEXT_HOP_A;
tr 52 M=ING_L3_NEXT_HOP_A;
echo " ING_L3_NEXT_HOP_B";
tr 50 M=ING_L3_NEXT_HOP_B;
tr 51 M=ING_L3_NEXT_HOP_B;
tr 52 M=ING_L3_NEXT_HOP_B;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
echo " ING_PW_TERM_COUNTERS";
tr 50 M=ING_PW_TERM_COUNTERS;
tr 51 M=ING_PW_TERM_COUNTERS;
tr 52 M=ING_PW_TERM_COUNTERS;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
```

```
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
echo " IPV6_PROXY_ENABLE";
tr 50 M=IPV6_PROXY_ENABLE;
tr 51 M=IPV6_PROXY_ENABLE;
tr 52 M=IPV6_PROXY_ENABLE;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
```

```
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
```

```
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
```

```
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
echo " CBPDATA0";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA0 $entry_cmd;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0 $iter_cmd;
echo " CBPDATA1";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA1 $entry_cmd;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1 $iter_cmd;
echo " CBPDATA2";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
```

```
tr 50 M=CBPDATA2 $entry_cmd;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2 $iter_cmd;
echo " CBPDATA3";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA3 $entry_cmd;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3 $iter_cmd;
echo " CBPDATA4";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA4 $entry_cmd;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4 $iter_cmd;
echo " CBPDATA5";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA5 $entry_cmd;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5 $iter_cmd;
echo " CBPDATA6";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA6 $entry_cmd;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6 $iter_cmd;
echo " CBPDATA7";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA7 $entry_cmd;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7 $iter_cmd;
echo " CBPDATA8";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA8 $entry_cmd;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8 $iter_cmd;
echo " CBPDATA9";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
```

```
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA9 $entry_cmd;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9 $iter_cmd;
echo " CBPDATA10";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA10 $entry_cmd;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10 $iter_cmd;
echo " CBPDATA11";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA11 $entry_cmd;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11 $iter_cmd;
echo " CBPDATA12";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA12 $entry_cmd;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12 $iter_cmd;
echo " CBPDATA13";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA13 $entry_cmd;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13 $iter_cmd;
echo " CBPDATA14";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA14 $entry_cmd;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14 $iter_cmd;
echo " CBPDATA15";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA15 $entry_cmd;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15 $iter_cmd;
echo " CBPDATA16";
if !$?full_test \
```

```
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA16 $entry_cmd;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16 $iter_cmd;
echo " CBPDATA17";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA17 $entry_cmd;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17 $iter_cmd;
echo " CBPDATA18";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA18 $entry_cmd;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18 $iter_cmd;
echo " CBPDATA19";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA19 $entry_cmd;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19 $iter_cmd;
echo " CBPDATA20";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA20 $entry_cmd;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20 $iter_cmd;
echo " CBPDATA21";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA21 $entry_cmd;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21 $iter_cmd;
echo " CBPDATA22";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA22 $entry_cmd;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22 $iter_cmd;
echo " CBPDATA23";
```

```
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA23 $entry_cmd;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23 $iter_cmd;
echo " CBPDATA24";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA24 $entry_cmd;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24 $iter_cmd;
echo " CBPDATA25";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA25 $entry_cmd;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25 $iter_cmd;
echo " CBPDATA26";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA26 $entry_cmd;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26 $iter_cmd;
echo " CBPDATA27";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA27 $entry_cmd;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27 $iter_cmd;
echo " CBPDATA28";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA28 $entry_cmd;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28 $iter_cmd;
echo " CBPDATA29";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA29 $entry_cmd;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29 $iter_cmd;
```

```
echo " CBPDATA30";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA30 $entry_cmd;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30 $iter_cmd;
echo " CBPDATA31";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA31 $entry_cmd;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31 $iter_cmd;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
echo " CBPPKTHEADERCPU";
tr 50 M=CBPPKTHEADERCPU;
tr 51 M=CBPPKTHEADERCPU;
tr 52 M=CBPPKTHEADERCPU;
echo " CCP";
tr 50 M=CCP;
```

```
tr 51 M=CCP;
tr 52 M=CCP;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
```

```
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
```

```
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
```

```
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
```

```
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
```

```
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
```

```
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
```

```
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
```

```
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
echo " VFI";
tr 50 M=VFI;
```

```
tr 51 M=VFI;
tr 52 M=VFI;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
```

```
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
if !$?BCM56620 \
  'echo " EXT_L2_MOD_FIFO"; \
   tr 50 M=EXT_L2_MOD_FIFO; \
   tr 51 M=EXT_L2_MOD_FIFO; \
   tr 52 M=EXT_L2_MOD_FIFO;'
if !$?full_test \
  "local iter_cmd 'ITER=4' "
if $?ext_ip4c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV4"; \
   tr 50 M=EXT_ACL144_TCAM_IPV4; \
   tr 51 M=EXT_ACL144_TCAM_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 50 M=EXT_ACL144_TCAM_IPV6; \
   tr 51 M=EXT_ACL144_TCAM_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 50 M=EXT_ACL144_TCAM_L2; \
   tr 51 M=EXT_ACL144_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
   tr 50 M=EXT_ACL288_TCAM_IPV4; \
   tr 51 M=EXT_ACL288_TCAM_IPV4 $iter_cmd; \
```

```
    tr 52 M=EXT_ACL288_TCAM_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_ACL288_TCAM_L2"; \
    tr 50 M=EXT_ACL288_TCAM_L2; \
    tr 51 M=EXT_ACL288_TCAM_L2 $iter_cmd; \
    tr 52 M=EXT_ACL288_TCAM_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
    tr 50 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT; \
    tr 51 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_ACL360_TCAM_MASK (tr 50 only)"; \
    tr 50 M=EXT_ACL360_TCAM_MASK;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_IPV6_LONG; \
    tr 51 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV4; \
    tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
    tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV6; \
    tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_MASK (tr 50 only)"; \
    tr 50 M=EXT_ACL432_TCAM_MASK;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV4"; \
    tr 50 M=EXT_DEFIP_DATA_IPV4; \
    tr 51 M=EXT_DEFIP_DATA_IPV4 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_64"; \
    tr 50 M=EXT_DEFIP_DATA_IPV6_64; \
    tr 51 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_128"; \
    tr 50 M=EXT_DEFIP_DATA_IPV6_128; \
    tr 51 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd;'
```

```
if $?ext_ip4_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV4"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV4; \
   tr 51 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV6_64"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV6_64; \
   tr 51 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV6_128"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV6_128; \
   tr 51 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_L2"; \
   tr 50 M=EXT_DST_HIT_BITS_L2; \
   tr 51 M=EXT_DST_HIT_BITS_L2 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_L2 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_IPV4"; \
   tr 50 M=EXT_FP_CNTR_ACL144_IPV4; \
   tr 51 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_IPV6"; \
   tr 50 M=EXT_FP_CNTR_ACL144_IPV6; \
   tr 51 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_L2"; \
   tr 50 M=EXT_FP_CNTR_ACL144_L2; \
   tr 51 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_IPV4"; \
   tr 50 M=EXT_FP_CNTR_ACL288_IPV4; \
   tr 51 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_L2"; \
   tr 50 M=EXT_FP_CNTR_ACL288_L2; \
   tr 51 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_CNTR_ACL360_IPV6_SHORT; \
```

```
    tr 51 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
    tr 50 M=EXT_FP_CNTR_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_IPV6"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_IPV6; \
    tr 51 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_L2"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_L2; \
    tr 51 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL288_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL288_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL288_L2"; \
    tr 50 M=EXT_FP_CNTR8_ACL288_L2; \
    tr 51 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
```

```
  'echo " EXT_FP_CNTR8_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_CNTR8_ACL432_IPV6_LONG; \
   tr 51 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL432_L2_IPV4"; \
   tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV4; \
   tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL432_L2_IPV6"; \
   tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV6; \
   tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV4"; \
   tr 50 M=EXT_FP_POLICY_ACL144_IPV4; \
   tr 51 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV6"; \
   tr 50 M=EXT_FP_POLICY_ACL144_IPV6; \
   tr 51 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_L2"; \
   tr 50 M=EXT_FP_POLICY_ACL144_L2; \
   tr 51 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_POLICY_ACL288_IPV4"; \
   tr 50 M=EXT_FP_POLICY_ACL288_IPV4; \
   tr 51 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_POLICY_ACL288_L2"; \
   tr 50 M=EXT_FP_POLICY_ACL288_L2; \
   tr 51 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_POLICY_ACL360_IPV6_SHORT; \
   tr 51 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_POLICY_ACL432_IPV6_LONG; \
   tr 51 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd; \
```

```
    tr 52 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP"; \
    tr 50 M=EXT_IPV4_DEFIP; \
    tr 51 M=EXT_IPV4_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV4_DEFIP $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV4_DEFIP_TCAM; \
    tr 51 M=EXT_IPV4_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV4_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP"; \
    tr 50 M=EXT_IPV6_128_DEFIP; \
    tr 51 M=EXT_IPV6_128_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV6_128_DEFIP $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV6_128_DEFIP_TCAM; \
    tr 51 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP"; \
    tr 50 M=EXT_IPV6_64_DEFIP; \
    tr 51 M=EXT_IPV6_64_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV6_64_DEFIP_TCAM; \
    tr 51 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
    tr 50 M=EXT_L2_ENTRY_DATA; \
    tr 51 M=EXT_L2_ENTRY_DATA $iter_cmd; \
    tr 52 M=EXT_L2_ENTRY_DATA $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_TCAM"; \
```

```
    tr 50 M=EXT_L2_ENTRY_TCAM; \
    tr 51 M=EXT_L2_ENTRY_TCAM $iter_cmd; \
    tr 52 M=EXT_L2_ENTRY_TCAM $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV4; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_64; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_128; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 50 M=EXT_SRC_HIT_BITS_L2; \
    tr 51 M=EXT_SRC_HIT_BITS_L2 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_L2 $iter_cmd;'
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
echo " ALTERNATE_EMIRROR_BITMAP";
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=F;
echo " DSCP_TABLE";
```

```
tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_TCAM";
tr 71 M=EFP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
```

```
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPMC";
tr 71 M=EGR_IPMC S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
```

```
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN";
tr 71 M=EGR_VLAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_STG";
```

```
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
```

```
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=F;
echo " FP_TCAM";
tr 71 M=FP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
```

```
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP_A";
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP_B";
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=T SLTH=F;
echo " ING_MOD_MAP";
```

```
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F;
echo " ING_PW_TERM_COUNTERS";
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE";
```

```
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=F;
echo " L2MC";
tr 71 M=L2MC S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY";
tr 71 M=L2_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP";
```

```
tr 71 M=L3_DEFIP S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ECMP";
tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
```

```
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_IIF";
tr 71 M=L3_IIF S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_IIF S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_IIF S=0 C=0 TSE=T SLTH=F;
echo " L3_IPMC";
tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=T SLTH=F;
echo " L3_TUNNEL";
```

```
tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F;
echo " LPORT";
tr 71 M=LPORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " COS_MAP";
tr 71 M=COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
```

```
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=T SLTH=F;
echo " PORT";
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F;
echo " SOURCE_VP";
tr 71 M=SOURCE_VP S=0 C=0 TSE=F SLTH=T;
tr 71 M=SOURCE_VP S=0 C=0 TSE=T SLTH=T;
tr 71 M=SOURCE_VP S=0 C=0 TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " VLAN_STG";
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TCP_FN";
tr 71 M=TCP_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=F;
echo " TOS_FN";
tr 71 M=TOS_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
```

```
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F;
echo " TTL_FN";
tr 71 M=TTL_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=F;
echo " VFI";
tr 71 M=VFI S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFI S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFI S=0 C=0 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " VFP_TCAM";
tr 71 M=VFP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " VLAN_MAC";
tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
```

```
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=F;
echo " VLAN";
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 71 M=VLAN_XLATE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F;
if !$?BCM56620 \
```

```
  'echo " EXT_L2_MOD_FIFO"; \
   tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV4"; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
  'echo " EXT_ACL288_TCAM_L2"; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_MASK"; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
   'echo " EXT_ACL432_TCAM_MASK"; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV4"; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_64"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_128"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV4"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
```

```
  'echo " EXT_FP_CNTR_ACL144_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_IPV6"; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_L2"; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_L2"; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV4"; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV6"; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_L2"; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_L2"; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP"; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP_TCAM"; \
```

```
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP"; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP"; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_TCAM"; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
```

```
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done
```

```
echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
```

```
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
```

```
$done

if $?BCM56624 || $?BCM56626 || $?BCM56628 || $?BCM56629_A1 \
   'echo "Testing MAC Loopback - 16000 Mb/s all HG ports" \
    tr 18 pbm=hg speed=16G \
    $done '

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

if $?BCM56624 || $?BCM56626 || $?BCM56628 || $?BCM56629_A1 \
   'echo "Testing PHY Loopback - 16 Gb/s all HG ports"; \
    tr 19 pbm=hg speed=16G; \
    $done'

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
```

```
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=ge
$done

#External Loopback
# If you have external loopback cables connected as follows
# GE ports:  2-3   4-5   6-7  18-19  8-9  10-11
#          12-13 20-21 14-15 16-17 22-23 24-25
#          37-38 39-40 26-32 33-34 41-42 48-49
#          50-51 52-53 35-36 46-47 27-43 44-45
# Front panel XE ports: 2-14 26-27
# Back panel HG ports: 28-29 30-31
#
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv extf10G 1
#       setenv extf12G 1
#       setenv extb10G 1
#       setenv extb12G 1
#       setenv extb16G 1
# or
#       setenv extall  1

#External Loopback on GE port
local ge_fwd 0x0
local ge_bwd 0x0
if $?BCM56624 \
   'local ge_fwd 0x2aaaaa05555554; \
    local ge_bwd 0x1555550aaaaaa8'
if $?BCM56626 || $?BCM56629_A1 \
   'local ge_fwd 0x00055554; \
    local ge_bwd 0x000aaaa8'
if $?BCM56620 \
   'local ge_fwd 0x00501504054054; \
```

```
    local ge_bwd 0x00a80a080a80a8'
if $?BCM56629_B0 \
   'local ge_fwd 0x1502a001501500; \
    local ge_bwd 0x2a054002a02a00'

#External Loopback on front panel XE port
local xe_fwd 0x0
local xe_bwd 0x0
if $?BCM56626 || $?BCM56629_A1 \
   'local xe_fwd 0x04000000; \
    local xe_bwd 0x08000000'
if $?BCM56628 || $?BCM56629_B0 \
   'local xe_fwd 0x04000004; \
    local xe_bwd 0x08004000'

#External Loopback on back panel HG port
local hg_fwd 0x50000000
local hg_bwd 0xa0000000

if $?extall \
   "local ext10 1; local ext100 1; local ext1000 1; \
    local extf10G 1; local extb10G 1"

if $?ext10 \
   "echo Testing GE ports External Loopback - 10 MB/s forward; \
    tr 20 tpbm=$ge_fwd di=1 speed=10 count=10; \
    echo Testing GE ports External Loopback - 10 MB/s reverse; \
    tr 20 tpbm=$ge_bwd di=-1 speed=10 count=10"

if $?ext100 \
   "echo Testing GE ports External Loopback - 100 MB/s forward; \
    tr 20 tpbm=$ge_fwd di=1 speed=100 count=10; \
    echo Testing GE ports External Loopback - 100 MB/s reverse; \
    tr 20 tpbm=$ge_bwd di=-1 speed=100 count=10"

if $?ext1000 \
   "echo Testing GE ports External Loopback - 1000 MB/s forward; \
    tr 20 tpbm=$ge_fwd di=1 speed=1000 count=10; \
    echo Testing GE ports External Loopback - 1000 MB/s reverse; \
    tr 20 tpbm=$ge_bwd di=-1 speed=1000 count=10"

if $?extf10G \
   "echo Testing Front Panel 10G ports External Loopback - 10 GB/s forward; \
    tr 20 tpbm=$xe_fwd di=1 speed=10G count=10; \
    echo Testing Front Panel 10G ports External Loopback - 10 GB/s reverse; \
    tr 20 tpbm=$xe_bwd di=-1 speed=10G count=10"

if $?extf12G \
```

```
   "echo Testing Front Panel 10G ports External Loopback - 12 GB/s forward; \
    tr 20 tpbm=$xe_fwd di=1 speed=12G count=10; \
    echo Testing Front Panel 10G ports External Loopback - 12 GB/s reverse; \
    tr 20 tpbm=$xe_bwd di=-1 speed=12G count=10"

if $?extb10G \
   "echo Testing Back Panel 10G ports External Loopback - 10 GB/s forward; \
    tr 20 tpbm=$hg_fwd di=1 speed=10G count=10; \
    echo Testing Back Panel 10G ports External Loopback - 10 GB/s reverse; \
    tr 20 tpbm=$hg_bwd di=-1 speed=10G count=10"

if $?extb12G \
   "echo Testing Back Panel 10G ports External Loopback - 12 GB/s forward; \
    tr 20 tpbm=$hg_fwd di=1 speed=12G count=10; \
    echo Testing Back Panel 10G ports External Loopback - 12 GB/s reverse; \
    tr 20 tpbm=$hg_bwd di=-1 speed=12G count=10"

if $?extb16G \
   "echo Testing Back Panel 10G ports External Loopback - 16 GB/s forward; \
    tr 20 tpbm=$hg_fwd di=1 speed=16G count=10; \
    echo Testing Back Panel 10G ports External Loopback - 16 GB/s reverse; \
    tr 20 tpbm=$hg_bwd di=-1 speed=16G count=10"

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_q.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_q.i
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: merlin_sesto_common.h 869 2015-01-23 00:24:44Z kirand $ *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_appl_intr.c, v1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implements application interrupt lists for JERICHO.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/jerp_intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVITConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVITConsole.c
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
#* $Id: xfi_10g_pmd_gloop_10p3125.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*----------------------------------------------------------------------
#* File       : xfi_10g_pmd_gloop_10p3125.soc
#* Description: xfi_10g_pmd_gloop_10p3125
#*----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xad
phy raw sbus $port 0.0 0x9010 0x0000

sleep 1;
phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010
```

```
# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.0 0xd081 0x0002
phy raw sbus $port 1.0 0xd081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.0 0xd0f4 0x2271
phy raw sbus $port 1.0 0xd0f4


# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.0 0xd080 0x8000
phy raw sbus $port 1.0 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x000a
phy raw sbus $port 1.0 0xd127


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc113 0x01cb
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.0 0xc050 0x001c
phy raw sbus $port 0.0 0xc050
```

```
phy raw sbus $port 0.0 0xc050 0x011c
phy raw sbus $port 0.0 0xc050

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd0d2
phy raw sbus $port 1.0 0xd0d2 0x7

phy raw sbus $port 0.0 0xc154 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_10g_pmd_gloop_10p3125.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs16g.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs16g.h
* Purpose:     16G 802.3ae Ethernet PHY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs16g.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2mod.c,v 1.89 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/l2mod.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredDropNPart1Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart1Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/arl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: assert.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/assert.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File: async.c
* Purpose: Asynchronous BCM API routines
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/async.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_trigger.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_trigger.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_trigger.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idents.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       idents.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/idents.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:     PORT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/port.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_cell.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pkt.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/pkt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fifo.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic FIFO allocation and maintenance
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/fifo.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_element_converts.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_element_converts.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
  'arad_pp_frwrd_ipv4_lpm_mngr.c' Obfuscated by COBF (Version 1.06 2006-01-07 by BB) at Tue Jun 09 11:54:42
2015
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4_lpm_mngr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ecn.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ECN - Broadcom StrataSwitch ECN API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ecn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgTmePortRemapAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgTmePortRemapAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PSTATS - Broadcom StrataSwitch PSTATS API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/common/pstats.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_655.h,v 1.0 2016/10/20
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-6.5.5 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/compat/compat_655.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_init.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: INIT APIs
*
* Purpose:
*     INIT API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/bcm_sw_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_init.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_petra_pp_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_petra_pp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alpm_trie.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
* File: trie.c
* Purpose: Custom Trie Data structure (Leveraged from Caladan3)
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/alpm_trie.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mpool.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/shared/mpool.c
No license file was found, but licenses were detected in source scan.

/*
*
* $Id: eagle.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
/*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Id
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_cfg_seq.c
No license file was found, but licenses were detected in source scan.

; Broadcom Proprietary and Confidential. All rights reserved.$

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56629.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56102.asm

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56680.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56626.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56460.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/guenevere5670.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/galahad.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm48p56504.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56685.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk5650.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53401_opt3.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/ex3.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56504.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56601.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88030xeup0.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53403.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/pong-wk.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/ex4.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm12pcx456501.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm953300p24ref.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56636.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56524.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/hurricane3/bcm953446r.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk8806x.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_lrplearn.asm

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88025.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lancelot.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_notmu.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_noetu.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56602.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_lt16ddrs.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/generic8led.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_norce.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/poe48p56504.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/ex1.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56504ref.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88650.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk56062_opt3.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk56060_opt2.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/hurricane3/bcm956160r_opt6.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm48p5695.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56840.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_embedded_16x10g.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk5675.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm956024r50t.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk5690.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/hurricane3/bcm956160r_opt6a.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56820.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56850.asm

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56860.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56580.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm48p56504_50.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56628.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/magnum_sdk.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk5665.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88030ceup1.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56970.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56800.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_cascade.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56638.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56639.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53406_opt2.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/merlin5670.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56270.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/tuc24_ref.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/felix48.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/knigget.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk56063.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88030geup1.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53422.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/testasm.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm956024p48ref.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm953314p24ref.asm

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88030geup0.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88670.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56960_mt2.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm956820r24xg.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/ex2.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56624.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_mixed_embeded.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/wk5670.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/ex5.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm5690.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm956314p24ref.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56800c.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/k12-5690.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56634.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/merlin5690.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/bcm953314k24.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56334.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/herculynx.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53402.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53403_opt2.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56700.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/gh_sdk53404.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56960.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/hurricane3/bcm956160k.asm

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56018.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm48p5695_10.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk5670.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56214.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/mirror.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/magnum.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk88030ceup0.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/lm12p56802.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56560.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/sdk56450.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/guenevere5673.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/wk5690.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/twolynx.asm
No license file was found, but licenses were detected in source scan.

/* $Id: jer_pp_metering.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_metering.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_fifos.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE configure FIFOs example:
*
* The test generate four types of fifo_type,
* it configure thresholds for each type and attach links

* to the fifo_types
*
* At the end the test validate configuration
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_fifos.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: apache.h,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: apache.h
* Purpose: Function declarations for apache Internal functions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/apache.h
No license file was found, but licenses were detected in source scan.

/* $Id: soc_sand_trigger.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_trigger.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Id
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/furia_doc.h
No license file was found, but licenses were detected in source scan.

/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: portctrl.h
* Purpose: SDK Port Control Glue Layer
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/portctrl.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: caladan3.h,v 1.21.22.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 (BCM88030) SOC Initialization
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3.h
No license file was found, but licenses were detected in source scan.

/**********

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
  flow

File Name:
  flow_types.h

File Description:
 flow types

$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 17/4/2001 Initial Creation

**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/flow/flow_types.h

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: pack.c
* Purpose: BCM API Type Packers
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: 5701rls.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/5701rls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_decls_drv.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM function prototypes for core scheduler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/core/tdm_methods.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_cos.c,v 1.17 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84756.c
* Purpose:    SDK PHY driver for BCM84756 (FCMAP)
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports    Media                        MAC Interface
*     84756    4       4 10G SFP+                     XFI
*     84757    4       4 10G SFP+/8(4/2) FC           XFI
*     84759    4       4 10G SFP+                     XFI
*
*             OUI        Model   Revision
*  BCM84756    18-C0-86    100111  00xx
*  BCM84757    18-C0-86    100111  10xx
*  BCM84759    18-C0-86    100111  01xx
*
*
* Workarounds:
*
* References:
*
* Notes:
*/
/*
* $Id$
* $Copyright: (c) 2005 Broadcom Corp.
* All Rights Reserved.$
*
* File:       phy84740.c
* Purpose:    Phys Driver support for Broadcom 84740 40Gig
*             transceiver :XLAUI system side and PPI Line interface.
* Note:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756_fcmap.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: merlin_koi_fields_public.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                        *
*  Description   :  Register access macros for MERLIN_KOI                                *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/public/merlin_koi_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2gre.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2gre.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84793.c,v 1.7.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84793.c
* Purpose:    Phys Driver support for Broadcom 84793 100Gig
```

```
*           gearbox.
* Note:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84793.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_quadra28_fields.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for MERLIN_QUADRA28                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*     Broadcom Corporation                                                         *
*     5300 California Avenue                                                       *
*     Irvine, CA  92617                                                            *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_fields.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_multicast_fabric.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_cells_buffer.c,v 1.4 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 CELLS BUFFER
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_cells_buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_flow_control.c,v 1.8.24.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC FLOW CONTROL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.1 2013/12/02 03:56:10 kevinwu Exp $
* $Copyright: (c) 2013 Broadcom Corp.
* All Rights Reserved.$
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: range.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        range.h
* Purpose:     Internal Range module data structure definitions for the
*              BCM library.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/range.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_mmu.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_mmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_multicast.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkMsg.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkMsg.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkMsg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_vid_assign.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_vid_assign.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_vid_assign.c
No license file was found, but licenses were detected in source scan.

```
/*
* Required functions exported by the port-specific (os-dependent) driver
* to common (os-independent) driver code.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: et_export.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/et_export.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_tsc_pll_config.c                                    *
*  Created On    :  23/12/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Falcon TSC PLL Configuration API                           *
*  Revision      :  $Id: falcon_tsc_pll_config.c 996 2015-03-30 22:39:03Z kirand $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
```

```
*      Broadcom Corporation                                    *
*      5300 California Avenue                                  *
*      Irvine, CA  92617                                     *
*                                                            *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                            *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_pll_config_c.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

#Ports 0-1 configuration
set rcerror=F
vlan destroy 10
vlan destroy 20

port ge0 LB=PHY AF=F EN=T
port ge1 LB=PHY AF=F EN=T

s epc_link 0xffffffff
m config tag_en=1

vlan create 10 PBM=ge0 UBM=none
modify pvlan 0 1 vlan_tag=10 port_bitmap=1 ut_port_bitmap=0 sp_st=3 cml=2

l2 add PBM=ge0 MAC=00:00:00:00:00:01 V=10 ST=T

tx 1 PBM=0x1 UBM=none L=68 VL=10 P=0x12345678 PI=1 SM=00:00:00:00:00:02 SMI=0
DM=00:00:00:00:00:01 DMI=0 COS=0 CRC=Recompute

loop * "show counters"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/swirl_ge_uc.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600LinkFailureInfo.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600LinkFailureInfo.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv4TosEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassIPv4TosEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/subport.c
* Purpose:    BCMX Subport Configuration APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8750.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8750.c
* Purpose:    Phys Driver support for Broadcom 8750 Serial 10Gig
*             transceiver :XFI system side and SFI Line interface.
* Note:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8750.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5421S.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5421S.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5421S.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proxy-service.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/proxy-service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DCMN CAPTURED BUFFER H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_captured_buffer.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_stat_if.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_stat_if.h
*
```

```
* MODULE PREFIX:  soc_tmcstat
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_stat_if.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_eyescan.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/dfe_eyescan.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  merlin_koi_usr_includes.h                                    *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: merlin_koi_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
```

```
*                                                                                *
**********************************************************************************
**********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/**********************************************************************************
**********************************************************************************
*  File Name     :  falcon_furia_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: falcon_furia_dv_functions.c 1020 2015-04-27 14:20:30Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                   *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
**********************************************************************************
**********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/**********************************************************************************
*****
**********************************************************************************
*****
*                                                                                *
*  Revision      :  $Id: eagle_merlin_api_uc_vars_rdwr_defns.h 1139 2015-09-17 23:39:05Z kirand $ *
*                                                                                *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                   *
*  No portions of this material may be reproduced in any form without            *
```

```
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                  *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                  *
*                                                                  *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56689sanity.soc,v 1.1.204.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
```

```
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
```

```
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
```

```
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
```

```
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
```

```
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
```

```
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
```

```
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
```

```
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
```

```
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
```

```
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
```

```
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
```

```
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
```

```
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
```

```
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
```

```
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
```

```
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
```

```
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
```

```
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
```

```
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
```

```
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
```

```
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
```

```
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
```

```
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
```

```
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
```

```
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
```

```
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
```

```
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
```

```
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
```

```
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
```

```
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
```

```
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
```

```
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
```

```
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
```

```
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
```

```
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
```

```
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
```

```
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
```

```
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
```

```
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
```

```
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
```

```
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
```

```
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
```

```
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
```

```
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
```

```
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
```

```
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
```

```
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
```

```
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
```

```
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
```

```
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM is=0 ie=127;
tr 50 M=VFP_TCAM is=256 ie=383;
tr 50 M=VFP_TCAM is=512 ie=639;
tr 50 M=VFP_TCAM is=768 ie=895;
tr 50 M=VFP_TCAM is=1024 ie=1151;
tr 50 M=VFP_TCAM is=1280 ie=1407;
tr 50 M=VFP_TCAM is=1536 ie=1663;
tr 50 M=VFP_TCAM is=1792 ie=1919;
tr 51 M=VFP_TCAM is=0 ie=127;
tr 51 M=VFP_TCAM is=256 ie=383;
tr 51 M=VFP_TCAM is=512 ie=639;
tr 51 M=VFP_TCAM is=768 ie=895;
tr 51 M=VFP_TCAM is=1024 ie=1151;
tr 51 M=VFP_TCAM is=1280 ie=1407;
```

```
tr 51 M=VFP_TCAM is=1536 ie=1663;
tr 51 M=VFP_TCAM is=1792 ie=1919;
tr 52 M=VFP_TCAM is=0 ie=127;
tr 52 M=VFP_TCAM is=256 ie=383;
tr 52 M=VFP_TCAM is=512 ie=639;
tr 52 M=VFP_TCAM is=768 ie=895;
tr 52 M=VFP_TCAM is=1024 ie=1151;
tr 52 M=VFP_TCAM is=1280 ie=1407;
tr 52 M=VFP_TCAM is=1536 ie=1663;
tr 52 M=VFP_TCAM is=1792 ie=1919;
tr 71 S=0 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
```

```
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
```

```
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
```

```
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
```

```
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
```

```
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
```

```
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
```

```
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
```

```
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
```

```
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
```

```
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
```

```
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56689sanity.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_warmboot_utilities.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_warmboot_utilities.c
* Purpose: Example of how to save and restore Software Databases
*
* Provides the following functionalities
*
* - Sync device state
*   Application can sync the state. Useful for providing software upgrade functionality.
*   Entire device state is synched.
*
* - Setup device in a mode to sync relevant state only on configuration changes.
*   This mode will provide the path to recovery from system crashes.
*
* - Release all driver resources (device continues to operate)
*   Primarily useful for managed software upgrades.
*   Could also be used by test scripts that do not cleanup the previous state
*   (although this is not the primariy purpose of this API. It just aids in
*   overcoming test limitation on cleanup).
*
* The following SOC propreties need to be setup warmboot/coldboot
*  - stable_location=3
*  - stable_filename=./warmboot_data
*  - stable_size=1000000
*  - stable_flags=0
*
* The following environment variable needs to be setup for warmboot
*  - setenv SOC_BOOT_FLAGS 0x200000
*
* The following environment variable needs to be setup for coldboot
*  - setenv SOC_BOOT_FLAGS 0x000000
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_warmboot_utilities.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_hash_tbl.c$
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sw_state_hash_tbl.c
*
* Overview:
* Provides a generic hash table interface with default hash
* and key compare functions.
*
* Memory is pre-allocated at hash table creation based on max number of entries allowed.
*
* Collisions are handled by creating a linked list per hash index and
* a linear search is performed within the list to find an entry.  The list is
* not sorted.
*
* The caller defined KEY is *copied* and stored in the variable sized hash
* table entry for comparison. the caller defined DATA is  also *copied* and
* stored.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_hash_tbl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_interrupt.c,v 1.32 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE INTERRUPT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_interrupt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: disc.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       disc.c
* Purpose:     Broadcom Discovery Algorithm
* Requires:
*
* The discovery procedure is run using next hop transmit only.
```

```
* It builds a local database with static variables, so it is
* not re-entrant.
*
* This version of discovery runs in the callers thread of
* execution.  No async option is provided.
*
* We assume that a full probe packet can be sent in a packet
* that is returned by RX.  Each probe entry takes less than 20 bytes,
* so a 1K buffer can hold 50 entries.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/discover/disc.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon_tsc_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: falcon_tsc_usr_includes.h 869 2015-01-23 00:24:44Z kirand $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                 *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robotxrx.c,v 1.3 2011/06/01 10:32:21 jimhuang Exp $
* $Copyright: (c) 2011 Broadcom Corp.
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/robotxrx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$


Network diagram

We configure RB1
                              host30
                            o  host31
                            |
                            | V1,P4,S3
                        ....|.....................................
                        :   |                    TRILL Network  :
                        : +-----+       /\-/\-/\-/\-/\            :
                    +V1,P1-| RB1 |DV3,P3/---+-----+    \            :
                    |   : +-----+    /     | RB3 |    \            :
                    |   :   |      /      +-----+     \           :
                  +-----+ :   V1,P2   /      Transit     \    +-----+ :
     host10---S1 o--| SW1 | :   SW2-S2 |       RBridges     |---| RB4 |---o V1,S4---host40
     host11         +-----+ :    |      \      Campus      /    +-----+ :           host41
     host12            |    :  DV2       \                /           :           host42
     host13            |    : +-----+    \               /            :           host43
                    +------| RB2 |-----\             /             :
                        : +-----+      \/\-/\-/\-/\-/              :
                        :                                       :
                         ........................................


Hosts connected to S2: host20
                    host21
                    host22
                    host23


Traffic RBv <-> RB4:

   #Ingress trill uc: using RBv. S1.host19 to S4.host40
  #purpose: - check RBv nickname is used as ingress nickname instead of RB1 nickname.
  #         - use MACT static entry: host40_mac
   #         - Learn how to reach host19: use port1
```

```
Send:
        ----------------------------------
    eth: |    DA     |     SA      | VLAN |
        ----------------------------------
        | host40_mac | host19_mac |  v1  |
        ----------------------------------
Recv:
        -----------------------------------------------------
    eth: |    DA          |     SA  | VLAN  |   ET          |
        -----------------------------------------------------
        | remote_mac_rb4 | mac_rb1 |  dv3  | trill_ethertype |
        -----------------------------------------------------

            ----------------------------------------------------------------
        trill: | multi | hop count |       eRB nickname  | iRB nickname     |
            ----------------------------------------------------------------
            |   0   | hopcount  |  remote_nickname_rb4 | virtual_nickname |
            ----------------------------------------------------------------

                ----------------------------------
            eth: |    DA      |     SA     | VLAN |
                ----------------------------------
                | host40_mac | host19_mac |  v1  |
                ----------------------------------


#Egress trill uc: using RBv. S4.host40 to S1.host19.
#purpose: - check RBv nickname is used to terminate trill header.
#         - use MACT dynamic entry: "host19 learning"

send:
        ----------------------------------------------------------------
    eth: |    DA    |     SA         | VLAN         |         ET      |
        ----------------------------------------------------------------
        |  mac_rb1 | remote_mac_rb4 |  vid_3_desig | trill_ethertype |
        ----------------------------------------------------------------

            ----------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname       | iRB nickname        |
            ----------------------------------------------------------------
            |   0   | hopcount  | virtual_nickname     | remote_nickname_rb4 |
            ----------------------------------------------------------------

                ----------------------------------
            eth: |    DA     |     SA      | VLAN |
                ----------------------------------
                | host19_mac | host40_mac |  v1  |
                ----------------------------------
```

```
  Recv:
          ----------------------------------
      eth: |    DA     |     SA      | VLAN |
          ----------------------------------
          | host19_mac | host40_mac |  v1  |
          ----------------------------------


#Egress trill uc: using RBv. S4.host49 to S1.host10.
#purpose: - check RBv nickname is used to terminate trill header.
#         - use MACT static entry: host10_mac
  #         - Learn how to reach host49: use trill tunnel: local_nickname_rb1 -> remote_nickname_rb4

  send:
          ----------------------------------------------------------------
      eth: |    DA    |     SA         | VLAN         |         ET      |
          ----------------------------------------------------------------
          |  mac_rb1 | remote_mac_rb4 |  vid_3_desig | trill_ethertype |
          ----------------------------------------------------------------


              ------------------------------------------------------------------
          trill: | multi | hop count |   eRB nickname       | iRB nickname        |
              ------------------------------------------------------------------
              |   0   | hopcount  | virtual_nickname     | remote_nickname_rb4 |
              ------------------------------------------------------------------


                  ----------------------------------
              eth: |    DA     |     SA      | VLAN |
                  ----------------------------------
                  | host10_mac | host49_mac |  v1  |
                  ----------------------------------
  Recv:
          ----------------------------------
      eth: |    DA     |     SA      | VLAN |
          ----------------------------------
          | host19_mac | host40_mac |  v1  |
          ----------------------------------


#Ingress trill MC (flooding): using RBv. S1.host10 to unknown host
#purpose: - check RBv nickname is used as ingress nickname instead of RB1 nickname for trill tunnel
#         - use distribution tree nickname as egress nickname for trill tunnel

  Send:
          ----------------------------------------
      eth: |    DA            |     SA     | VLAN |
          ----------------------------------------
          | host_unknown_mac | host10_mac |  v1  |
```

```
        ----------------------------------------

  Recv 2 packets:
        ----------------------------------------------------
    eth: |   DA        |    SA  | VLAN  |   ET         |
        ----------------------------------------------------
        | remote_mac_rb4 | mac_rb1 |  dv3  | trill_ethertype |
        ----------------------------------------------------

            ---------------------------------------------------------------
        trill: | multi | hop count |     eRB nickname  | iRB nickname     |
            ---------------------------------------------------------------
            |   1   | hopcount  | dist_tree_nickname | virtual_nickname |
            ---------------------------------------------------------------

                ----------------------------------------
            eth: |   DA          |    SA     | VLAN |
                ----------------------------------------
                | host_unknown_mac | host10_mac |  v1  |
                ----------------------------------------

        ----------------------------------------
    eth: |   DA          |    SA     | VLAN |
        ----------------------------------------
        | host_unknown_mac | host10_mac  |  v1  |
        ----------------------------------------

#Egress trill UC (L2 flooding): using RBv. S4.host40 to unknown host
#purpose: - check RBv nickname is used to terminate trill header.
#         - check we are sending to all RBv members

  send:
        ----------------------------------------------------------------
    eth: |   DA   |    SA        | VLAN        |        ET     |
        ----------------------------------------------------------------
        |  mac_rb1 | remote_mac_rb4 |  vid_3_desig | trill_ethertype |
        ----------------------------------------------------------------

            ----------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname       | iRB nickname        |
            ----------------------------------------------------------------
            |   0   | hopcount  | virtual_nickname     | remote_nickname_rb4 |
            ----------------------------------------------------------------

                ----------------------------------------
            eth: |   DA          |    SA     | VLAN |
                ----------------------------------------
                | host_unknown_mac | host49_mac  |  v1  |
```

```
                    ----------------------------------------
Recv:
        ----------------------------------------
    eth: |    DA            |     SA      | VLAN |
        ----------------------------------------
        | host_unknown_mac | host49_mac  |  v1  |
        ----------------------------------------


#Ingress trill MC (registered multicast): using RBv. s1.host10 to 'registered MC' mac address
#purpose: - check RBv nickname is used as ingress nickname instead of RB1 nickname for trill tunnel
#         - use distribution tree nickname as egress nickname for trill tunnel
#         - check packet is replicated to all flooding MC members



#Egress trill MC (registered multicast): using RBv. S4.host40 to 'registered MC' mac address
#purpose: - check RBv nickname is used to terminate trill header.
#         - check packet is replicated to all flooding MC members

send:
        ----------------------------------------------------------------
    eth: |    DA    |     SA        | VLAN        |        ET      |
        ----------------------------------------------------------------
        |  mac_rb1 | remote_mac_rb4 |  vid_3_desig | trill_ethertype |
        ----------------------------------------------------------------

            ----------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname       | iRB nickname        |
            ----------------------------------------------------------------
            |   0   | hopcount  | virtual_nickname     | remote_nickname_rb4 |
            ----------------------------------------------------------------

                ----------------------------------------
            eth: |    DA            |     SA      | VLAN |
                ----------------------------------------
                | register_mc_mac  | host49_mac  |  v1  |
                ----------------------------------------
Recv 2 packets:
        ----------------------------------------
    eth: |    DA            |     SA      | VLAN |   (port1)
        ----------------------------------------
        | host_unknown_mac | host49_mac  |  v1  |
        ----------------------------------------

        ----------------------------------------
    eth: |    DA            |     SA      | VLAN |   (port2)
        ----------------------------------------
```

```
| host_unknown_mac | host49_mac  |  v1  |
 ----------------------------------------
```

Traffic RB1 <-> RB4:

```
#Ingress trill uc: using RB1. S2.host29 to S4.host41
#purpose: - check trill is still working: use RB1 ingress nickname
#         - use MACT static entry: host41_mac
#         - Learn how to reach host29: use port2

  Send:
         ----------------------------------
     eth: |    DA      |     SA     | VLAN |
         ----------------------------------
         | host41_mac | host29_mac |  v1  |
         ----------------------------------
  Recv:
         -------------------------------------------------------
     eth: |    DA          |     SA  | VLAN  |     ET          |
         -------------------------------------------------------
         | remote_mac_rb3 | mac_rb1 |  dv3  | trill_ethertype |
         -------------------------------------------------------

              ------------------------------------------------------------------
         trill: | multi | hop count |       eRB nickname  | iRB nickname       |
              ------------------------------------------------------------------
              |   0   | hopcount  |  remote_nickname_rb4 | local_nickname_rb1 |
              ------------------------------------------------------------------

                 ----------------------------------
              eth: |    DA      |     SA     | VLAN |
                 ----------------------------------
                 | host41_mac | host29_mac |  v1  |
                 ----------------------------------


#Egress trill uc: using RB1. S4.host41 to S2.host29
#purpose: - check trill is still working: terminate with RB1 nickname
#          - use MACT dynamic entry: "host29 learning"

  send:
         ------------------------------------------------------------
     eth: |    DA   |     SA        | VLAN       |        ET      |
         ------------------------------------------------------------
         | mac_rb1 | remote_mac_rb4 | vid_3_desig | trill_ethertype |
         ------------------------------------------------------------
```

```
            ----------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname     | iRB nickname        |
            ----------------------------------------------------------------
            |   0   | hopcount  | local_nickname_rb1 | remote_nickname_rb4 |
            ----------------------------------------------------------------

                ------------------------------------
            eth: |    DA     |     SA      | VLAN |
                ------------------------------------
                | host29_mac | host41_mac |  v1  |
                ------------------------------------

  Recv:
        ------------------------------------
    eth: |    DA     |     SA      | VLAN |
        ------------------------------------
        | host29_mac | host41_mac |  v1  |
        ------------------------------------


#Egress trill uc: using RB1. S4.host48 to S2.host20
#purpose: - check trill is still working: terminate with RB1 nickname
#         - use MACT static entry: host20_mac
#         - Learn how to reach host48: use trill tunnel: local_nickname_rb1 -> remote_nickname_rb4

  send:
        ------------------------------------------------------------
    eth: |    DA   |     SA        | VLAN        |        ET      |
        ------------------------------------------------------------
        | mac_rb1 | remote_mac_rb4 | vid_3_desig | trill_ethertype |
        ------------------------------------------------------------

            ----------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname     | iRB nickname        |
            ----------------------------------------------------------------
            |   0   | hopcount  | local_nickname_rb1 | remote_nickname_rb4 |
            ----------------------------------------------------------------

                ------------------------------------
            eth: |    DA     |     SA      | VLAN |
                ------------------------------------
                | host20_mac | host48_mac |  v1  |
                ------------------------------------

  Recv:
        ------------------------------------
    eth: |    DA     |     SA      | VLAN |
```

```
        ----------------------------------
        | host20_mac | host48_mac |  v1  |
        ----------------------------------


#Ingress trill uc: using RB1. S2.host20 to S4.host48
#purpose: - check trill is still working: use RB1 ingress nickname to build trill tunnel
#         - use MACT dynamic entry: "host48 learning"

  Send:
        ----------------------------------
     eth: |    DA      |     SA     | VLAN |
        ----------------------------------
        | host48_mac | host20_mac |  v1  |
        ----------------------------------
  Recv:
        -------------------------------------------------------
     eth: |    DA          |     SA  | VLAN  |     ET          |
        -------------------------------------------------------
        | remote_mac_rb3 | mac_rb1 |  dv3  | trill_ethertype |
        -------------------------------------------------------

            ------------------------------------------------------------------
        trill: | multi | hop count |       eRB nickname  | iRB nickname       |
            ------------------------------------------------------------------
            |   0   | hopcount  |  remote_nickname_rb4 | local_nickname_rb1 |
            ------------------------------------------------------------------

                ----------------------------------
            eth: |    DA      |     SA     | VLAN |
                ----------------------------------
                | host48_mac | host20_mac |  v1  |
                ----------------------------------


#Ingress trill MC (flooding):  using RB1. S2.host20 to unknown host
#purpose: - check trill is still working: use RB1 ingress nickname to build trill tunnel
  #         - use distribution tree nickname as egress nickname for trill tunnel

  Send:
        ----------------------------------------
     eth: |    DA            |     SA     | VLAN |
        ----------------------------------------
        | host_unknown_mac | host20_mac |  v1  |
        ----------------------------------------

  Recv 2 packets:
        -------------------------------------------------------
```

```
    eth: |    DA          |     SA  | VLAN |     ET         |
        -----------------------------------------------------
        | remote_mac_rb3 | mac_rb1 |  dv3  | trill_ethertype |
        -----------------------------------------------------

            -------------------------------------------------------------------
        trill: | multi | hop count |       eRB nickname  | iRB nickname       |
            -------------------------------------------------------------------
            |   1   | hopcount  |  dist_tree_nickname  | local_nickname_rb1 |
            -------------------------------------------------------------------

                ----------------------------------------
            eth: |    DA            |     SA     | VLAN |
                ----------------------------------------
                | host_unknown_mac | host20_mac |  v1  |
                ----------------------------------------

        ----------------------------------------
    eth: |    DA            |     SA     | VLAN |
        ----------------------------------------
        | host_unknown_mac | host20_mac |  v1  |
        ----------------------------------------


#Egress trill UC (L2 flooding): using RB1. S4.host40 to unknown host
  #purpose: - check RBv nickname is used to terminate trill header.
  #         - check we are sending to all RB1 members

  send:
        -------------------------------------------------------------
    eth: |    DA   |     SA         | VLAN        |         ET      |
        -------------------------------------------------------------
        | mac_rb1 | remote_mac_rb4 | vid_3_desig | trill_ethertype |
        -------------------------------------------------------------

            -------------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname     | iRB nickname        |
            -------------------------------------------------------------------
            |   0   | hopcount  | local_nickname_rb1 | remote_nickname_rb4 |
            -------------------------------------------------------------------

                ----------------------------------------
            eth: |    DA            |     SA     | VLAN |
                ----------------------------------------
                | host_unknown_mac | host40_mac |  v1  |
                ----------------------------------------

   Recv:
```

```
        ----------------------------------------
    eth: |    DA            |     SA     | VLAN |
        ----------------------------------------
        | host_unknown_mac | host40_mac |  v1  |
        ----------------------------------------
```

- bridging : host2 to host1
  purpose: - check bridging is still working
  - use MACT dynamic entry: "host1 learning"

Send:

```
        ---------------------------------
    eth: |    DA     |     SA    | VLAN |
        ---------------------------------
        | host1_mac | host2_mac |  v1  |
        ---------------------------------
```

Recv:

```
        ---------------------------------
    eth: |    DA     |     SA    | VLAN |
        ---------------------------------
        | host1_mac | host2_mac |  v1  |
        ---------------------------------
```

- bridging : host1 to host2
  purpose: - check bridging is still working
  - use MACT static entry

Send:

```
        ---------------------------------
    eth: |    DA     |     SA    | VLAN |
        ---------------------------------
        | host2_mac | host1_mac |  v1  |
        ---------------------------------
```

Recv:

```
        ---------------------------------
    eth: |    DA     |     SA    | VLAN |
        ---------------------------------
```

```
| host2_mac | host1_mac |  v1  |
-------------------------------
```

- Ingress scenario 2: MC Flooding using RBv TO FIX.....

Send:

```
-------------------------------------
eth: |    DA          |     SA    | VLAN |
-------------------------------------
| c_unknown_dmac | c_s1_smac |  v1  |
-------------------------------------
```

Recv 2 packets:

Recv1 (bridging):

```
-------------------------------------
eth: |    DA          |     SA    | VLAN |
-------------------------------------
| c_unknown_dmac | c_s1_smac |  v1  |
-------------------------------------
```

Recv2 (trill):

```
-------------------------------------------------
eth: |    DA     |     SA   | VLAN  |        ET      |
-------------------------------------------------
| rb3_dmac  | rb1_smac |  dv3  | trill_ethertype |
-------------------------------------------------

    ----------------------------------------------------------------
trill: | multi | hop count | eRB nickname  | iRB nickname            |
    ----------------------------------------------------------------
    |   1   | hopcount  |  remote_nickname_rb4 | virtual_nickname |
    ----------------------------------------------------------------

        -------------------------------------
    eth: |    DA          |     SA    | VLAN |
        -------------------------------------
        | c_unknown_dmac | c_s1_smac |  v1  |
        -------------------------------------
```

Egress scenario 2: UC using RBv: unknown native DA TO FIX**********

send:

```
        ----------------------------------------------------
    eth: |    DA      |     SA    | VLAN |        ET      |
        ----------------------------------------------------
        |  rb1_smac  |  rbx_dmac |  dv3  | trill_ethertype |
        ----------------------------------------------------

            ------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname   | iRB nickname     |
            ------------------------------------------------------------
            |   0   | hopcount  | virtual_nickname |   nickname_rbx   |
            ------------------------------------------------------------

                --------------------------------------
            eth: |    DA         |     SA    | VLAN |
                --------------------------------------
                | c_unknown_dmac | c_sx_dmac |  v1  |
                --------------------------------------
```

Recv: Trapped packet

#Learning
#1st packet Egress trill UC : from RBv(S2.host1a) to S3.host30
#2nd packet Flooding UC: from S3.host30 to host1a
#purpose: - to check case when we receive packet from RBv - learning should be disable

#1st packet
send(port2):

```
        ------------------------------------------------------------
    eth: |    DA   |     SA        | VLAN        |        ET      |
        ------------------------------------------------------------
        | mac_rb1 | remote_mac_rb2 | vid_2_desig | trill_ethertype |
        ------------------------------------------------------------

            ------------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname     | iRB nickname        |
            ------------------------------------------------------------------
            |   0   | hopcount  | local_nickname_rb1 | virtual_nickname    |
            ------------------------------------------------------------------

                -----------------------------------
            eth: |    DA     |     SA      | VLAN |
                -----------------------------------
                | host30_mac | host1a_mac |  v1  |
                -----------------------------------
```

Recv(port4):

```
        -----------------------------------
    eth: |    DA     |     SA      | VLAN |
        -----------------------------------
        | host30_mac | host1a_mac |  v1  |
        -----------------------------------
```

2nd packet
send(port4):

```
        -----------------------------------
    eth: |    DA     |     SA      | VLAN |
        -----------------------------------
        | host1a_mac | host30_mac |  v1  |
        -----------------------------------
```

Recv#1(port3):

```
        -------------------------------------------------------
    eth: |      DA       |  SA | VLAN        |         ET      |
        -------------------------------------------------------
        | remote_mac_rb4 | rb1 | vid_3_desig | trill_ethertype |
        ------------------------------ -------------------------

            -------------------------------------------------------------
        trill: | multi | hop count |   eRB nickname     | iRB nickname        |
            -------------------------------------------------------------
            |   0   | hopcount  | dist_tree_nickname | local_nickname_rb1  |
            -------------------------------------------------------------

                -----------------------------------
            eth: |    DA     |     SA      | VLAN |
                -----------------------------------
                | host30_mac | host1a_mac |  v1  |
                -----------------------------------
```

Recv#2(port2):

```
        -----------------------------------
    eth: |    DA     |     SA      | VLAN |
        -----------------------------------
        | host30_mac | host1a_mac |  v1  |
        -----------------------------------
```

Recv#3(port1):

```
        -----------------------------------
    eth: |    DA     |     SA      | VLAN |
        -----------------------------------
        | host30_mac | host1a_mac |  v1  |
        -----------------------------------
```

How to run:

```
BCM> cint ../../../../src/examples/dpp/cint_pmf_trill_2pass_snoop.c
BCM> cint ../../../../src/examples/dpp/cint_pmf_2pass_snoop.c
BCM> cint ../../../../src/examples/dpp/cint_trill.c
BCM> cint ../../../../src/examples/dpp/cint_trill_multi_homing
BCM> trill_multi_homing(unit);


*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trill_multi_homing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabQe2000BwPortConfigEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**

* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*/
/*
* $Id: sbZfFabQe2000BwPortConfigEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabQe2000BwPortConfigEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cpu_i2c_cmds.c,v 1.4 Broadcom SDK $
```

```
*
* I2C specific commands for use in CPU driven mode.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cpu_i2c_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmFbLineConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmFbLineConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    Tracks and manages ports.
*             P-VLAN table is managed directly.
*             MAC/PHY interfaces are managed through respective drivers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeThreshLutEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsAgeThreshLutEntry.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c.h,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Constants and defines for the Broadcom StrataSwitch (BCM56xx) I2C
* Bus Driver interface controller operating in master mode.
*
* See also: Broadcom StrataSwitch (TM) Register Reference Guide
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/i2c.h
No license file was found, but licenses were detected in source scan.

```
/*
* BCM43XX PCI/E core sw API definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nicpci.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/nicpci.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OOB Flow Control and OOB Stats
* Purpose: API to set different OOB Flow Control registers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/oob.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: chassis.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Chassis support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/chassis.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idxres_afl.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Aligned Indexed resource management, using banked lists
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/idxres_afl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_mpls.c 2016/09/14 1:01:00 patild Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_mpls.c
* Purpose: Maintains all the debug information for mpls
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mpls/tomahawk_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaRandomNumGenEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaRandomNumGenEntry.hx

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54682.c,v 1.95 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54682.c
* Purpose:     PHY driver for BCM54682
*
* Supported BCM54682 PHY device:
*
*      Device  Ports   Media                        MAC Interface
*      54682   8       Copper/Serdes Combo          QSGMII
*
* Workarounds:
*
* References:
* 54682-DS00-RDS.pdf        BCM54682 Data Sheet
*
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54682.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_multicast.c,v 1.7.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cpudb.h,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cpudb.h
```

* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cpudb/cpudb.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_sw_db.h,v 1.102 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_sw_db.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: drc_combo28.h,v 1.1.2.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains DPP DRC main structure and routine declarations for the Dram operation using PHY Combo28.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/DRC/drc_combo28.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: timesync.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch port control API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/timesync.c
No license file was found, but licenses were detected in source scan.

$Id:$

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 7x10g_1xhg10_2x1g-ilkn50
# $Id: Broadcom SDK $
# Note A-D

pci_override_dev=0x34

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# Use the common mode baseline TDM for this specific TDM instance
bcm88030_config.0=44

#
# ucode ports definition
#
ucode_num_port_override.0=1
ucode_num_ports.0=19


# ======================================================
# WC 0
# ======================================================
# Lane 0 (not being used in this use-case; phantom for proper initilization of WC)
#
ucode_port.port1.0=clport0.xe.0.0:il1.il50n.0.0

# Lane 1
# (uses 8 Qs)
ucode_port.port2.0=clport0.hg10.0.1-1:il1.il50n.0.1
ucode_port.port3.0=clport0.hg10.0.1-1:il1.il50n.0.2
ucode_port.port4.0=clport0.hg10.0.1-1:il1.il50n.0.3
ucode_port.port5.0=clport0.hg10.0.1-1:il1.il50n.0.4
ucode_port.port6.0=clport0.hg10.0.1-1:il1.il50n.0.5
ucode_port.port7.0=clport0.hg10.0.1-1:il1.il50n.0.6
ucode_port.port8.0=clport0.hg10.0.1-1:il1.il50n.0.7
ucode_port.port9.0=clport0.hg10.0.1-1:il1.il50n.0.8

# Lane 2
#
ucode_port.port10.0=clport0.ge.0.2:il1.il50n.0.9

# Lane 3
#
ucode_port.port11.0=clport0.ge.0.3:il1.il50n.0.10
```

```
# ====================================================
# WC 1
# ====================================================
ucode_port.port12.0=clport0.xe.1.0:il1.il50n.0.11
ucode_port.port13.0=clport0.xe.1.1:il1.il50n.0.12
ucode_port.port14.0=clport0.xe.1.2:il1.il50n.0.13

ucode_port.port15.0=clport0.xe.1.3:il1.il50n.0.14

# ====================================================
# WC 2
# ====================================================
# Lane 0,1,2,3

ucode_port.port16.0=clport0.xe.2.0:il1.il50n.0.15
ucode_port.port17.0=clport0.xe.2.1:il1.il50n.0.16
ucode_port.port18.0=clport0.xe.2.2:il1.il50n.0.17

ucode_port.port19.0=clport0.xe.2.3:il1.il50n.0.18

#==========================================================================


# Required so phy comes up in SGMII and NOT QSGMII
serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2


diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032
xgxs_rx_lane_map_xe4=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210
xgxs_tx_lane_map_xe4=0x1032

phy_xaui_rx_polarity_flip_xe0=0x0001

phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
```

```
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0000
phy_xaui_rx_polarity_flip_xe7=0x0001


phy_xaui_tx_polarity_flip_xe0=0x0001

phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001

phy_xaui_tx_polarity_flip_xe4=0x0000
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001


phy_fiber_pref_ge=1
phy_automedium_ge=1


#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
#XXXTBD
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312


higig2_hdr_mode_hg0=1



# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1
```

```
#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0


# System .21
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x95959797,0x99999797
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10.0=0x00a1a3a0,0x009ea19b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci10.0=0x99999292,0x98989494
ddr3_tune_rd_en_ci2.0=0x009b9b9c,0x009fa19d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000ae
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a999b,0x00979a95
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x92929898,0x97979393
ddr3_tune_rd_dqs_ci0.0=0x91919696,0x96969797
ddr3_tune_rd_en_ci4.0=0x00999999,0x00959694
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
```

ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_vref_ci14.0=0x0000075d
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989899,0x009a9e97
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci14.0=0x95959999,0x99999292
ddr3_tune_rd_dqs_ci2.0=0x91919797,0x96969696
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000ae
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_wl0_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci4.0=0x97979191,0x97979898
ddr3_tune_rd_en_ci8.0=0x00959596,0x009a9c98
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989

```
ddr3_tune_rd_dqs_ci6.0=0x90909393,0x99999898
ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x009d9d9e,0x009a9c98
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x91919191,0x91919191
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-7x10g_1xhg10_2x1g-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_framework.c,v 1.123 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_framework.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_kbp_entry_mgmt.h
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ARAD/ARAD_PP/include/arad_pp_kbp_entry_mgmt.h
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_kbp_entry_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_lotus.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/lotus/robo_lotus.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_bfd_ipv6_max_sessions.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

* SOC Properties:
* #==============================
* # OAM SOC
* oam_enable=1
* num_oamp_ports=1
* tm_port_header_type_out_232.BCM88650=CPU
* tm_port_header_type_out_0.BCM88650=CPU
* ucode_port_40.BCM88650=RCY.0
* oam_rcy_port=40
* tm_port_header_type_in_40.BCM88650=TM
* tm_port_header_type_out_40.BCM88650=ETH
* counter_engine_source_0.BCM88650=INGRESS_OAM
* counter_engine_source_1.BCM88650=EGRESS_OAM
* counter_engine_statistics_0.BCM88650=ALL
* counter_engine_statistics_1.BCM88650=ALL
* counter_engine_format_0.BCM88650=PACKETS
* counter_engine_format_1.BCM88650=PACKETS
* phy_1588_dpll_frequency_lock.BCM88650=1
* phy_1588_dpll_phase_initial_lo.BCM88650=0x40000000
* phy_1588_dpll_phase_initial_hi.BCM88650=0x10000000
* bcm886xx_next_hop_mac_extension_enable.BCM88650=0
* mplstp_g8113_channel_type=0x8902
* bcm886xx_ipv6_tunnel_enable=0
*
* #---------------------
* # BFD IPv6 SOC
* bfd_enable=1
```

```
* mcs_load_uc0=1
* bfd_ipv6_enable=1
* bfd_ipv6_trap_port=204
* num_queues_pci=16
* num_queues_uc0=8
* bfd_simple_password_keys=8
* bfd_sha1_keys=8
* port_priorities_13.BCM88650=2
* port_priorities_14.BCM88650=2
* port_priorities_204.BCM88650=8
* ucode_port_204.BCM88650=CPU.16:core_0.204
* tm_port_header_type_in_204.BCM88650=INJECTED_2_PP
* tm_port_header_type_out_204.BCM88650=CPU
* bfd_num_sessions=1001
* bfd_echo_enabled=1
*
* Test Environment:
*     Unit 1 port 14 ------ Unit 2 port 13
*
*
*   cd ../../../../
*   cint src/examples/dpp/utility/cint_utils_global.c
*   cint src/examples/dpp/utility/cint_utils_mpls.c
*   cint src/examples/dpp/utility/cint_utils_l3.c
*   cint src/examples/dpp/utility/cint_utils_vlan.c
*   cint src/examples/dpp/cint_ip_route.c
*   cint src/examples/dpp/cint_bfd_ipv6.c
*   cint src/examples/dpp/cint_field_bfd_ipv6_single_hop.c
*   cint src/examples/dpp/cint_bfd_ipv6_max_sessions.c
*   c
*
* Test 64@3.3ms + 256@10ms
*  on unit 1:
*   print execute_on_unit1(unit,64,256,14,1,1,0,0,bcmBFDAuthTypeKeyedSHA1,3);
*  on unit 2:
*   print execute_on_unit2(unit,64,256,13,1,1,0,0,bcmBFDAuthTypeKeyedSHA1,3);
*
* Test 120 session @ 3.3ms
*  on unit 1:
*   print
sessions_create_unit1(unit,120,14,1,1,0,0,10,5010,bcmBFDAuthTypeSimplePassword,3300,3300,50000,3,0,0);
*  on unit 2:
*   print
sessions_create_unit2(unit,120,13,1,1,0,0,5010,10,bcmBFDAuthTypeSimplePassword,3300,3300,50000,3,0,0);
*
* Enable BFD Event Register
*   print bfd_ipv6_event_register(unit);
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_bfd_ipv6_max_sessions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     Apache SOC Port driver.
*
*             Contains information and interfaces for the
*             physical port in the device.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_allocator.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global resource allocator
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_allocator.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu.h,v 1.8.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    cmu.h
* Purpose: Caladan3 CMU defines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/caladan3/cmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_c.stg,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_tmu.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_tmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.36 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/metrolite/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/saber2/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmtwolevelgp.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmtwolevelgp.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_sesto_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: merlin_sesto_field_access.h 754 2014-10-29 22:29:05Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_field_access.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbx-polaris.bcm,v 1.32 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX systems.
# config-sbx-polaris.bcm
#

os=unix

# Maximum number of COSes
bcm_num_cos=8

# if fabric card - BCM988130, ie not ipass card, uncomment next line
# force_brdtype=5

# example setup for egress ptr fifo sizes on QE2000
#egress_mcast_ef_desc_sz=0
#egress_mcast_nef_desc_sz.port0=5
```

```
#egress_mcast_nef_desc_sz.port1=5
#egress_mcast_nef_desc_sz.port2=5
#egress_mcast_nef_desc_sz.port3=5

# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# The maximum number of consecutive timeslots a QE can hold
# priority for transmitting packets which cross timeslots.
hold_pri_num_timeslots=1

# Maximum number of modules in the system (number of QEs)
num_modules=8

# Polaris 000 Board 57 and 22 are SCI0 links
#port_is_sci.port58.4=1
#port_is_sci.port23.4=1
# this is now added by sbx.soc
# this is valid only for old/initial rev of PL linecard

# Polaris 010 Board 27 and 24 are SCI0 links
#port_is_sci.port28.4=1
#port_is_sci.port25.4=1
# this is now added by sbx.soc

#Polaris 010 node remap
#sci_port_modid.port25.4=10000
#sci_port_modid.port28.4=10001
# this is now added by sbx.soc

# By default, run in standalone mode
# When running in chassis, set this to 1
diag_chassis=0

# Logging can be pointed to a file:
#diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
qe_spi_0=14
qe_spi_1=14

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
```

```
qe_spi_1_subport_speed.port13.0=10000

# Default microcode is G2P3
# Note that QE type needs to be set because RX reason codes are
# microcode dependent
#
# bcm88020_ucode.0=g2p3
# bcm88020_ucode.1=g2p3

# Default microcode for BCM88025 is c2_g2p3
# bcm88025_ucode.0=c2_g2p3
# bcm88025_ucode.1=c2_g2p3

# QE Egress Route header format
# Used to select the QE EP microcode on QE2K device
# 0 : C2-QE2K native G2P3 (default)
# 1 : C2-Sirius header format
# 2 : C2-QE2K-Sirius interop header format
qe_erh_type=0

# BCM88025 only:
# Turns on and off IPv4 capabilities (uni and mc).
# 0 = V4 off
# 1 = V4 on (default)
#l3_enable=1
#
# turn optimize on to enable device memory
# (singleton) optimization on l3 compiler
#l3_optimize=1

# This property must be present for ucode_port properties to be used
# Otherwise, a default front panel to ucode to system port mapping is used
#ucode_num_ports.1=1

# The FE-2000 ucode port property values have the form:
#       fport:sysport
# Where ports are of the form:
#       gex.y      GbE ports, x=0,1, y=0-11
#       xex.y      XG/HG ports, x=0,1, y=0
#       spix.y     SPI-4.2 ports, x=0-1, y=0-63
#       pcix       CPU port, x=0
#
# The `fport' is the front-side port, and the `sysport' is the
# system-side port.
# Most system configurations use a QE-2000 CPU port,
# so the PCI port is typically not mapped to a microcode port.
#
# Note that an attached QE-2000 SPI port mapping must be
```

```
# `synchronized' with the FE-2000 SPI port mapping to ensure
# consistent SPI port calendars.  If SPI training fails, this
# is typically because the FE & QE have different calendar
# lengths.
#
# Here is an example configuration with 4 front-side ports
#
#qe_spi_0.0=4
#qe_spi_1.0=0
#ucode_num_ports.1=4
#ucode_port.port1.1=ge0.0:spi0.0
#ucode_port.port2.1=xe0.0:spi0.1
#ucode_port.port3.1=spi1.0:spi0.2
#ucode_port.port4.1=pci0:spi0.3

# To map a microcode port to HG port
#ucode_port.port5.1=hg0:spi0.13

# FE PCI does not deliver an ERH on receive
rx_parse_erh.1=0

# Set these to indicate the FE-2000 wide memory ports are
# connected to 2 x18 RAMs.  Otherwise they are assumed to
# connect to 1 x 36 RAM
# Broadcom MetroCore FE-2000 reference design uses 2 x18 RAMs
wide_sram0_x18=0
wide_sram1_x18=0

# Needed for sbx diags.
# FE2k reference design uses 4M parts but are only addressable to 2M
# np, 4Mx18 will look like 2Mx36 (FE reads 36 bits (2x18) in one cycle)
# wp, 2(4Mx18) will look like 2Mx72 (FE reads 72 (2x36) bits in one cycle)
wp_addr_width=20
wp_data_width=36
np0_data_width=18
np0_addr_width=21
np1_data_width=18
np1_addr_width=21

# To have both XEs as HiGig use
# remove this line or pbmp_xport_xe 0x0
pbmp_xport_xe=0x3000000

# This is needed only for 12G HiGig
#xgxs_lcpll_12gbps=1

#can control which units should come up
#diag_unit_mask=0x1f
```

```
#diag_disable_interrupts=0
#qe_tme_mode=0

# System (fabric) configuration
# 0 : BM32 + QE2K
# 1 : BM96 + Sirius
# 2 : BM96 + QE2K
# 3 : BM96 + QE2K + Sirius
fabric_configuration=2

bme_num_esets=128
diag_cosq_init=1
diag_serdes_mask=0x3ffff

# SFP+ modules (eng samples) require this
phy_pcs_tx_polarity_flip.1=1

# Swap the Xaui rx lanes to work with latest 8706 driver.
# This should not be required with rev B1 of PHY, but can not loop traffic back
# at IXIA without this. (Get coding and missing /E char errors).
phy_xaui_rx_lane_swap.1=1

# turn on OAM. Turns on PPE rules to detect incoming OAM packets.
oam_rx_enable=1
# Turns on bubble timer to start generating bubbles.
oam_tx_enable=1

# serdes speed and encoding
# if not set, default speed and encoding are used
# For 6.5G use 6500, for 3.125G use 3125
# default encoding is 8B10B (TRUE); for 64B66B, use FALSE

# backplane_serdes_speed=0
# backplane_serdes_encoding=0

# needed for gsanity.soc
sbx=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-polaris.bcm
No license file was found, but licenses were detected in source scan.

```
/*$Id: cint_field_data_qualifier.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_data_qualifier.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_appl_intr_corr_act_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header correction action functions for jer2_jericho interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_intr_corr_act_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macsec_cmn.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/macsec_cmn.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_multicast.c,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pfc_deadlock.h $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PFC Deadlock Detection & Recovery
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/pfc_deadlock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwRepErrInfo.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwRepErrInfo.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwRepErrInfo.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* ====================================================================
* ==  sbG2EplibTable.c - Logical Access to tables in IP memory
* ====================================================================
*
* WORKING REVISION: $Id: sbG2EplibTable.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibTable.c
*
* ABSTRACT:
*
*     Logical Access to tables in IP memory
*
* LANGUAGE:
*
*     C
```

```
*
* AUTHORS:
*
*     Josh Weissman
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-March-2005
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbG2EplibTable.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code_public.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/public/srds_api_err_code_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lag.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_cell_snake_test.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC CELL SNAKE TEST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
# $Id: th_memtest.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk Sanity Memory tests
#
# Script to run all available memory tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

#IPIPE regular mems.
local mem 'AGM_MONITOR_TABLE';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'ALTERNATE_EMIRROR_BITMAP';                    $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK';                            $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING';                        $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP';                                     $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL';                                 $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY';                       $name; $tr50; $tr51; $tr52;
local mem 'CPU_TS_MAP';                                  $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP';                           $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE';                                  $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY';                   $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE0';             $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE1';             $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE2';             $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE3';             $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK';                                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE';                            $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE';                             $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'EH_MASK_PROFILE_PIPE3';                       $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL';                             $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1';                            $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2';                            $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3';                            $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX';                                $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE';                  $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY';                  $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK';                    $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY';  $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';  $name; $tr50; $tr51;
```

```
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';    $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE';                $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'FAST_TRUNK_GROUP';                       $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE';                         $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP';                        $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_SET';                  $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP';                         $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT';                $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER';                        $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MODE';                          $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP';                 $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0';                $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_HG_CLASSID_SELECT';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_I2E_CLASSID_SELECT';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY';          $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';    $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';    $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';    $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';    $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE';                             $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_METER_TABLE_PIPE3';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE';                            $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE0';                      $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE1';                      $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE2';                      $name; $tr50; $tr51; $tr52;
local mem 'IFP_POLICY_TABLE_PIPE3';                      $name; $tr50; $tr51; $tr52;
local mem 'IFP_PORT_METER_MAP';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK';                             $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_RANGE_CHECK_PIPE3';                       $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_STORM_CONTROL_METERS';                    $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP';                              $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX';                                $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL';                       $name; $tr50; $tr51; $tr52;
local mem 'ING_ACTIVE_L3_IIF_PROFILE';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_DNAT_ADDRESS_TYPE';                       $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE';                             $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE';                               $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP';                              $name; $tr50; $tr51; $tr52;
local mem 'ING_ETAG_PCP_MAPPING';                        $name; $tr50; $tr51; $tr52;
local mem 'ING_FC_HEADER_TYPE';                          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1';                $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10';               $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1';         $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19';              $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0';         $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9';          $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0';         $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1';         $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10';         $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11';         $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12';         $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_16';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_17';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_18';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_19';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE';          $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE0';    $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE1';    $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE2';    $name; $tr50; $tr51; $tr52;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE3';    $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_A';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_B';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_A';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_B';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PRI_CNG_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_DATA_ONLY';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_TUNNEL_ECN_DECAP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_TUNNEL_ECN_DECAP_2';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_UNTAGGED_PHB';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_VP_VLAN_MEMBERSHIP';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_ACTION_TABLE_A';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_ACTION_TABLE_B';                   $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_REMAP_TABLE_A';                    $name; $tr50; $tr51; $tr52;
local mem 'ING_VXLT_REMAP_TABLE_B';                    $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP';                   $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP';                           $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP';                     $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'INT_CN_TO_MMUIF_MAPPING';                   $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH';                 $name; $tr50; $tr51; $tr52;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE';           $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP';                              $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE0';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE1';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE2';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_PROTO_MAP_PIPE3';                        $name; $tr50; $tr51; $tr52;
local mem 'IP_TO_INT_CN_MAPPING';                      $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'IS_TDM_CALENDAR1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK';                    $name; $tr50; $tr51; $tr52;
local mem 'L2MC';                                      $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK';                                   $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY';                                  $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_LP';                               $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_ONLY_ECC';                         $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_ONLY_TILE';                        $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_TILE';                             $name; $tr50; $tr51; $tr52;
local mem 'L2_HITDA_ONLY';                             $name; $tr50; $tr51; $tr52;
local mem 'L2_HITSA_ONLY';                             $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO';                               $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY';                   $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE';                $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_AUX_TABLE';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY';                        $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY';                         $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP';                                   $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP';                             $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT';                    $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE2';              $name; $tr50; $tr51; $tr52;
```

```
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_HIT_ONLY';                               $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_MULTICAST';                         $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV4_UNICAST';                           $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_MULTICAST';                         $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_IPV6_UNICAST';                           $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_LP';                                     $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY';                                   $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_ONLY_ECC';                               $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF';                                          $name; $tr50; $tr51; $tr52;
local mem 'L3_IIF_PROFILE';                                  $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC';                                         $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP';                                   $name; $tr50; $tr51; $tr52;
local mem 'L3_MTU_VALUES';                                   $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_DATA_ONLY';                             $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM';                    $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR';               $name; $tr50; $tr51; $tr52;
local mem 'LPORT';                                           $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL';                                  $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0';                                  $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1';                                  $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2';                                  $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3';                                  $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR';                              $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW';                                  $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY';                                      $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_ECC';                                  $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY';                       $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK';                       $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP';                                    $name; $tr50; $tr51; $tr52;
local mem 'PORT';                                            $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE';                                  $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE';                          $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET';                           $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK';                                  $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1';                         $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2';                         $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'RANDOM_RRLB_HG_TRUNK_MEMBER';                     $name; $tr50; $tr51; $tr52;
local mem 'RESPONSIVE_PROTOCOL_MATCH';                       $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_FLOW_BASED_HASH';                           $name; $tr50; $tr51; $tr52;
```

```
local mem 'RTAG7_PORT_BASED_HASH';                    $name; $tr50; $tr51; $tr52;
local mem 'SFLOW_ING_DATA_SOURCE';                    $name; $tr50; $tr51; $tr52;
local mem 'SFLOW_ING_FLEX_DATA_SOURCE';               $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY';                         $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP';                         $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE';                 $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP';                                $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_2';                              $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY';                $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS';                         $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK';                  $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE';                      $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG';                                 $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY';                    $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL';                            $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA';                       $name; $tr50; $tr51; $tr52;

local mem 'SER_ACC_TYPE_MAP';                         $name; $tr50; $tr51; $tr52;
local mem 'SER_MEMORY';                               $name; $tr50; $tr51; $tr52;

#IPIPE TCAMs
local mem 'CPU_COS_MAP';                              $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY';                         $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION';                          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY';                $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT';         $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY';   $name; $tr50; $tr51; $tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';   $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';   $name; $tr50; $tr51;
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';   $name; $tr50; $tr51;
```

```
$tr52;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';     $name; $tr50; $tr51;
$tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT';                        $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY';              $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM';                                $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE1';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE2';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_PIPE3';                          $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE';                           $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE0';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE1';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE2';                     $name; $tr50; $tr51; $tr52;
local mem 'IFP_TCAM_WIDE_PIPE3';                     $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT';                                $name; $tr50; $tr51; $tr52;
local mem 'ING_SNAT_ONLY';                           $name; $tr50; $tr51; $tr52;
local mem 'IP_MULTICAST_TCAM';                       $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY';                           $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY';                      $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP';                                $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY';                           $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL';                               $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL_ONLY';                          $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM';                         $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY';              $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION';                         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY';               $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM';         $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM';                                $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE0';                          $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE1';                          $name; $tr50; $tr51; $tr52;
```

```
local mem 'UDF_TCAM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM';                          $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'VFP_TCAM_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET';                       $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY';                  $name; $tr50; $tr51; $tr52;

#IPIPE conditional mems
#L2_ENTRY_ISS_LP
#L3_ENTRY_ISS_LP
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2';                  $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4';                  $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY';             $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE0';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE1';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE2';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE3';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE0';            $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE1';            $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE2';            $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE3';            $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY';             $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE0';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE1';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE2';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE3';       $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE0';            $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
```

```
  'local mem 'EXACT_MATCH_4_PIPE1';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE2';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE3';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?fpem_mem_entries \
  'local mem 'FPEM_LP';                          $name; $tr50; $tr51; $tr52;'
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY';                    $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128';                    $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_ONLY';                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'

#IPIPE single/limited entry mems
local mem 'CPU_PBM';                          $name; $tr50;
local mem 'CPU_PBM_2';                          $name; $tr50;
local mem 'DEVICE_LOOPBACK_PORTS_BITMAP';                    $name; $tr50;
local mem 'EPC_LINK_BMAP';                    $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_ENABLE';                    $name; $tr50;
local mem 'HIGIG_TRUNK_CONTROL';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT0_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT1_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2';                    $name; $tr50;
```

```
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM0_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
```

```
local mem 'IDB_OBM1_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM1_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
```

```
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM2_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
```

```
local mem 'IDB_OBM3_PRI_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE0';                $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE1';                $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE2';                $name; $tr50;
local mem 'IDB_OBM3_PRI_MAP_PORT3_PIPE3';                $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0';                   $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE0';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE1';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE2';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT0_PIPE3';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1';                   $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE0';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE1';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE2';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT1_PIPE3';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2';                   $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE0';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE1';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE2';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT2_PIPE3';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3';                   $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE0';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE1';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE2';                 $name; $tr50;
local mem 'IDB_OBM4_ETAG_MAP_PORT3_PIPE3';                 $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE0';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE1';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE2';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT0_PIPE3';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1';                    $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE0';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE1';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE2';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT1_PIPE3';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2';                    $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE0';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE1';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE2';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT2_PIPE3';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE0';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE1';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE2';                $name; $tr50;
local mem 'IDB_OBM4_PRI_MAP_PORT3_PIPE3';                $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0';                   $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE0';                 $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE1';                 $name; $tr50;
```

```
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM5_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2';          $name; $tr50;
```

```
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_ETAG_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE2';          $name; $tr50;
local mem 'IDB_OBM6_PRI_MAP_PORT3_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT0_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT1_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE2';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT2_PIPE3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE0';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE1';          $name; $tr50;
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE2';          $name; $tr50;
```

```
local mem 'IDB_OBM7_ETAG_MAP_PORT3_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT0_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT1_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT2_PIPE3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE0';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE1';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE2';                    $name; $tr50;
local mem 'IDB_OBM7_PRI_MAP_PORT3_PIPE3';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2';                    $name; $tr50;
local mem 'IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3';                    $name; $tr50;
local mem 'ING_EN_EFILTER_BITMAP';                    $name; $tr50;
local mem 'ING_IPV6_MC_RESERVED_ADDRESS';                    $name; $tr50;
local mem 'ING_TRILL_PARSE_CONTROL';                    $name; $tr50;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL';                    $name; $tr50;
local mem 'INSTRUMENTATION_TRIGGERS_ENABLE';                    $name; $tr50;
local mem 'L2_LEARN_INSERT_FAILURE';                    $name; $tr50;
local mem 'L3_DEFIP_AUX_SCRATCH';                    $name; $tr50;
local mem 'LINK_STATUS';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE0';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE1';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE2';                    $name; $tr50;
local mem 'MULTIPASS_LOOPBACK_BITMAP_PIPE3';                    $name; $tr50;
local mem 'PORT_BRIDGE_BMAP';                    $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE0';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE1';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE2';                    $name; $tr50;
local mem 'PTR_RESULTS_BUFFER_IVP_PIPE3';                    $name; $tr50;

#EPIPE regular mems.
```

```
local mem 'EFP_COUNTER_TABLE';                    $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE';                      $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE';                     $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1';                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE';                           $name; $tr50; $tr51; $tr52;
local mem 'EGR_ETAG_PCP_MAPPING';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COS_MAP';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0';         $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1';         $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2';         $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3';         $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3';   $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0';          $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1';          $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2';          $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3';          $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP';             $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_FLEX_CTR_PKT_RES_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE';                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX';                            $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT';                                $name; $tr50; $tr51; $tr52;
local mem 'EGR_INT_CN_TO_IP_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_INT_CN_UPDATE';                           $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC';                                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_CUT_THRU_CLASS';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TO_INT_CN_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL';                               $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF';                                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_MACDA_OUI_PROFILE';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH';                                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_CONTROL';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2';                     $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP';                                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1';                      $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2';                      $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE';            $name; $tr50; $tr51; $tr52;
local mem 'EGR_NAT_PACKET_EDIT_INFO';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS';        $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'EGR_PER_PORT_BUFFER_SFT_RESET';               $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT';                                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT_CREDIT_RESET';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE0';                  $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_PW_INIT_COUNTERS_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES';                   $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_TUNNEL_ECN_ENCAP';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI';                                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN';                                      $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG';                                  $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE';                   $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE';                                $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE_ECC';                            $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_XLATE_LP';                             $name; $tr50; $tr51; $tr52;
local mem 'EGR_VNTAG_ETAG_PROFILE';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_GROUP';                               $name; $tr50; $tr51; $tr52;
local mem 'EGR_VPLAG_MEMBER';                              $name; $tr50; $tr51; $tr52;
local mem 'EGR_VP_VLAN_MEMBERSHIP';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_ACTION_TABLE_A';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_ACTION_TABLE_B';                       $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_REMAP_TABLE_A';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_VXLT_REMAP_TABLE_B';                        $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT';                          $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'EGR_XMIT_START_COUNT_PIPE3';                    $name; $tr50; $tr51; $tr52;

#EPIPE TCAMs
local mem 'EFP_TCAM';                                      $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE0';                                $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE1';                                $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE2';                                $name; $tr50; $tr51; $tr52;
local mem 'EFP_TCAM_PIPE3';                                $name; $tr50; $tr51; $tr52;

#EPIPE single/limited entry mems
local mem 'EGR_TRILL_PARSE_CONTROL';                       $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2';                     $name; $tr50;

#MMU regular mems - Global
local mem 'INTFO_TC2PRI_MAPPING';                          $name; $tr50; $tr51; $tr52;
local mem 'STATS_INTF_QUEUE_LIST';                         $name; $tr50; $tr51; $tr52;
local mem 'STATS_INTF_SERVPOOL_LIST';                      $name; $tr50; $tr51; $tr52;

#MMU regular mems - SC
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3';               $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_ENQS_CT_FIFO_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_CT_FIFO_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_STATE_TBL_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE0';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE1';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE2';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_LIST_TBL_PIPE3';                 $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE0';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE1';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE2';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_HEAD_TBL_PIPE3';                  $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L1_MEM_PIPE3';                   $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE0';                   $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE1';                   $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE2';                   $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR1_PIPE3';                   $name; $tr50; $tr51; $tr52;
```

```
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_L0_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'TDM_CALENDAR0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE3';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData35_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData35_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData11_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4_XPE3';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE0';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE1';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE2';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12_XPE3';                       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData3_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData4_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData34_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData58_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData24_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData18_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData45_XPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData10_XPE3';                    $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData52_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData52_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData7_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData26_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData5_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData27_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData53_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_Y_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData44_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData20_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData31_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData36_XPE3';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK2_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_A_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_Y_B_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData28_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData50_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData6_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData16_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData21_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData8_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData47_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11_XPE3';       $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData41_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData41_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData51_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData46_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9_XPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_PKT_LINK_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_PKT_LINK_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_PKT_LINK_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_PKT_LINK_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData9_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData30_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData49_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQE_XPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CELL_LINK_XPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CELL_LINK_XPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CELL_LINK_XPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CELL_LINK_XPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData40_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0_XPE3';             $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_MCQDB_X_B_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_B_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData0_XPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData55_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData14_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData38_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData22_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_X_XPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCFP_XPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData54_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQN_XPE3';               $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_UCQDB_X_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_UCQDB_X_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData17_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData1_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData37_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13_XPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData29_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData23_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData32_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData25_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData59_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10_XPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData43_XPE3';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CBPData57_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData57_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData48_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE0';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE1';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE2';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7_XPE3';             $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_PDB_Y_XPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData13_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData19_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_MCQDB_X_A_XPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData42_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData56_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData12_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData39_XPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData2_XPE3';           $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CFAP_BANK1_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6_XPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData33_XPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_CBPData15_XPE3';         $name; $tr50; $tr51; $tr52;

#MMU regular mems - XPE
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE1';         $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1';                $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE1';            $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_RESUME_PORT_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT0_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT1_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_PORT2_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE0';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE1';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE2';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE3';              $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE0';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE1';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE2';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE3';               $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE1';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE2';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE3';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE0';            $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE1';            $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0';     $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1';     $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2';     $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3';     $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0';     $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1';     $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3';           $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE1';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE2';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE3';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE0';        $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE1';        $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE0';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE1';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0';      $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1';      $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3';          $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3';       $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3'; $name; $tr50;
$tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2';         $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3';         $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG0_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE1';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE2';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG1_PIPE3';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE0';               $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE1';               $name; $tr50; $tr51; $tr52;
```

```
local mem 'THDI_PORT_SP_CONFIG2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG2_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE0';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE3';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE1';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE2';                    $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1';                $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2';                $name; $tr50; $tr51; $tr52;

$done

#Table DMA/Table SLAM (Count=0 means get and use max automatically)
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';

#IPIPE regular mems.
local mem 'AGM_MONITOR_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ALTERNATE_EMIRROR_BITMAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CHFC_SYSPORT_MAPPING';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_DATA_ONLY_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE0';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE1';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE2';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EH_MASK_PROFILE_PIPE3';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_ACTION_PROFILE_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_DEFAULT_POLICY_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_MASK_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FAST_TRUNK_GROUP';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP_RRLB_CNT_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MODE';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM0_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT1_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM1_DSCP_MAP_PORT3_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT0_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT1_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM2_DSCP_MAP_PORT3_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT0_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT1_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT2_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3';      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM3_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM4_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM5_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IDB_OBM6_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM6_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IDB_OBM7_DSCP_MAP_PORT3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_HG_CLASSID_SELECT';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_I2E_CLASSID_SELECT';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_METER_TABLE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_POLICY_TABLE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_PORT_METER_MAP';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_RANGE_CHECK_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_STORM_CONTROL_METERS';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ACTIVE_L3_IIF_PROFILE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DNAT_ADDRESS_TYPE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ETAG_PCP_MAPPING';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FC_HEADER_TYPE';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_10';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_11';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_12';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_13';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_14';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_15';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_16';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_17';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_OFFSET_TABLE_18';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_19';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_8';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_9';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE';     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE0';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE1';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE2';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_IDB_TO_DEVICE_PORT_NUMBER_MAPPING_TABLE_PIPE3';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_L3_NEXT_HOP';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP';                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_A';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_ACTION_TABLE_B';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_A';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_ENTRY_REMAP_TABLE_B';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE0';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE1';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE2';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM_PIPE3';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_DATA_ONLY';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_HIT_ONLY';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TUNNEL_ECN_DECAP';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TUNNEL_ECN_DECAP_2';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE';                     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_VP_VLAN_MEMBERSHIP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_ACTION_TABLE_A';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_ACTION_TABLE_B';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_REMAP_TABLE_A';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VXLT_REMAP_TABLE_B';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INT_CN_TO_MMUIF_MAPPING';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_OPTION_CONTROL_PROFILE_TABLE';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE0';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE1';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE2';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_PROTO_MAP_PIPE3';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_TO_INT_CN_MAPPING';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IS_TDM_CALENDAR1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC';                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK';                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_LP';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY_ECC';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_ONLY_TILE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_TILE';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITDA_ONLY';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_HITSA_ONLY';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_AUX_HITBIT_UPDATE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_AUX_TABLE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP';                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'L3_ECMP_GROUP_RRLB_CNT_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_MULTICAST';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV4_UNICAST';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_MULTICAST';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_IPV6_UNICAST';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_LP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_ONLY_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF_PROFILE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_MTU_VALUES';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTR_RESULTS_BUFFER_ISW2_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RANDOM_RRLB_HG_TRUNK_MEMBER';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RESPONSIVE_PROTOCOL_MATCH';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'RTAG7_PORT_BASED_HASH';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SFLOW_ING_DATA_SOURCE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SFLOW_ING_FLEX_DATA_SOURCE';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP';                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_2';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_DATA_ONLY_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA';                       $name; $tr71_1; $tr71_2; $tr71_3;

local mem 'SER_ACC_TYPE_MAP';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SER_MEMORY';                               $name; $tr71_1; $tr71_2; $tr71_3;

#IPIPE TCAMs
local mem 'CPU_COS_MAP';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DST_COMPRESSION_TCAM_ONLY_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3';   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';   $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_PIPE3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0';    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1';    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2';    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3';    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE0';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE1';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE2';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_PIPE3';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE0';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE1';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE2';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_TCAM_WIDE_PIPE3';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SNAT_ONLY';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IP_MULTICAST_TCAM';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL';                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL_ONLY';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE0';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE1';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE2';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_PIPE3';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_COMPRESSION_TCAM_ONLY_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_CONDITIONAL_CHECK_TABLE_CAM';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM';                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE0';                              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'UDF_TCAM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_TCAM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;

#IPIPE conditional mems
#L2_ENTRY_ISS_LP
#L3_ENTRY_ISS_LP
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_ENTRY_ONLY_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_2_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_ENTRY_ONLY_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;'
```

```
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_4_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'EXACT_MATCH_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?fpem_mem_entries \
  'local mem 'FPEM_LP';                          $name; $tr71_1; $tr71_2; $tr71_3;'
#local mem 'L3_DEFIP_PAIR_128_DATA_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128';                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'

#EPIPE regular mems.
local mem 'EFP_COUNTER_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_DSCP_TABLE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ETAG_PCP_MAPPING';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COS_MAP';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_INT_CN_TO_IP_MAPPING';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_INT_CN_UPDATE';                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC';                                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_IP_CUT_THRU_CLASS';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TO_INT_CN_MAPPING';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL';                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MACDA_OUI_PROFILE';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH';                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP';                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_NAT_PACKET_EDIT_INFO';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS';     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS_PIPE3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PER_PORT_BUFFER_SFT_RESET';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT_CREDIT_RESET';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TUNNEL_ECN_ENCAP';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI';                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN';                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG';                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE';                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE_ECC';                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_XLATE_LP';                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VNTAG_ETAG_PROFILE';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_GROUP';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VPLAG_MEMBER';                         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_VP_VLAN_MEMBERSHIP';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_ACTION_TABLE_A';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_ACTION_TABLE_B';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_REMAP_TABLE_A';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VXLT_REMAP_TABLE_B';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_XMIT_START_COUNT_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;

#EPIPE TCAMs
local mem 'EFP_TCAM';                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_TCAM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;

#MMU regular mems - Global
local mem 'INTFO_TC2PRI_MAPPING';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'STATS_INTF_QUEUE_LIST';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'STATS_INTF_SERVPOOL_LIST';          $name; $tr71_1; $tr71_2; $tr71_3;

#MMU regular mems - SC
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_CT_FIFO_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3';      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_STATE_TBL_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L2_CREDIT_MEM_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_REPL_LIST_TBL_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_LIST_TBL_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE0';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE1';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE2';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_HEAD_TBL_PIPE3';                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L1_MEM_PIPE3';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_CREDIT_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_REPL_GROUP_INFO_TBL_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_CREDIT_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR1_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L1_MEM_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE0';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE1';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE2';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_L0_MEM_PIPE3';                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L1_WEIGHT_MEM_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'Q_SCHED_L0_WEIGHT_MEM_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_BUCKET_L0_MEM_PIPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TDM_CALENDAR0_PIPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC0_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_ENQS_PBI_DB_SC1_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE0';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE1';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE2';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData35_XPE3';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE0';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE1';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE2';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData11_XPE3';                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK4_XPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CFAP_BANK12_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK12_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData3_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData4_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData34_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData58_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData24_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData18_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData45_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData10_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData52_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData7_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData26_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData5_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData5_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData27_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData53_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_Y_XPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData44_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData20_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK14_XPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData31_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData36_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK2_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_A_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK5_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_MCQDB_Y_B_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_Y_B_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData28_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData50_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData6_XPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData16_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData21_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData8_XPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData47_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK11_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData41_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData51_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData46_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CFAP_BANK9_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK9_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PKT_LINK_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PKT_LINK_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PKT_LINK_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PKT_LINK_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData9_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData30_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData49_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE0';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE1';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE2';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQE_XPE3';              $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CELL_LINK_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CELL_LINK_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CELL_LINK_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CELL_LINK_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData40_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK0_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_B_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData0_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData55_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData14_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData14_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData38_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData22_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_X_XPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK8_XPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCFP_XPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK3_XPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData54_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQN_XPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_UCQDB_X_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData17_XPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData1_XPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData37_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData37_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK13_XPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData29_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData23_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData32_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData25_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData59_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK10_XPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData43_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData57_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData48_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK7_XPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_PDB_Y_XPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_PDB_Y_XPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData13_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData19_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_MCQDB_X_A_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData42_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData56_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData12_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData39_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData2_XPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK1_XPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE0';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE1';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE2';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CFAP_BANK6_XPE3';               $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData33_XPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CBPData15_XPE0';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE1';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE2';                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CBPData15_XPE3';                    $name; $tr71_1; $tr71_2; $tr71_3;

#MMU regular mems - XPE
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_OFFSET_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_PORT1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QGROUP1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_CONFIG_QUEUE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QGROUP1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE0_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_OFFSET_QUEUE1_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE1';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE2';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_Q_TO_QGRP_MAP2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE0';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE1';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE2';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT_PIPE3';             $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT0_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE2';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT1_PIPE3';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE0';            $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE1';            $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDU_RESUME_PORT2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_PORT2_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_CONFIG_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CCP_RESEQ_MEM_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_COLOR_DROP_MEM_XPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_ING_DROP_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_MC_DROP_MEM_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_UC_DROP_MEM_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3';         $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3';       $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0';        $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1';        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_PORT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_BST_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_PORT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QGROUP_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_THDU_RESUME_QUEUE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_AVG_QSIZE_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3';        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0'; $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3'; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3';          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE0';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE1';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE2';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG_PIPE3';                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG0_PIPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG1_PIPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE0';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE1';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE2';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CONFIG2_PIPE3';                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE0_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE0';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE1_PIPE3';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE2_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE1';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_BST_XPE3_PIPE2';                $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0';           $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3';           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1';          $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2';          $name; $tr71_1; $tr71_2; $tr71_3;

##config parity_enable=1;
config delete parity_enable

$done
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/th_memtest.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsSync.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsDataTxRx.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOsSync.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ramon_link.c
* Purpose:     Hardware Linkscan module
*
* These routines will be called by the linkscan module,
```

```
* so they need to be defined and return SOC_E_NONE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ref_design_petra_starter.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/ref_design_petra_starter.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: falcon_tsc_common.h 1266 2015-11-20 13:18:43Z kirand $ *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for BCM88200 (SBX FE-2000 + Guadalupe-2000)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueByteAdjEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueByteAdjEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_tables_c.stg,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_ppe_tables.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains PORT definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: default.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       default.c
* Purpose:     default board driver
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/default.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sysconf.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-core/sysconf.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_callback.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_callback.h
```

```
*
* MODULE PREFIX:  soc_tmccallback
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_callback.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_table.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_table.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464robo.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5464.h
*
* This driver applies to both BCM5464 and BCM5464S.
* Both parts support driving Copper or SERDES interfaces.
*
* The BCM5464S also has a SERDES pass-through mode, making it possible
* to auto-select copper or fiber based on signal detects.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5464robo.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88470_b0.c
* Purpose:    bcm88470_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88470_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_ing_protection.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_ing_protection.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: gu2.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       register.h
* Purpose:    Base definitions for SBX register types
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/gu2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dnx_implemenation_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
```

*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/soc_dnx_jericho_2_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/soc_dnx_jericho_2_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_config_imp_defs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsE2QEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsE2QEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpPortVridSmacTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpPortVridSmacTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sysconf.c,v 1.77 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sysconf.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: stat.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     stat.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/common/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pbmp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Port Bitmap helper functions
* Only used if _SHR_DEFINE_PBMP_FUNCTIONS is set in <shared/pbmp.h>
* (everything is done inline in <shared/pbmp.h> otherwise)
*
* Well, actually _shr_pbmp_format() is always available
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/pbmp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_qax_tbls.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_tbls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.43 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       counter.c
* Purpose:     Software Counter Collection module.
*
*/
/*
* Function:
*     soc_sbx_counter_get
*     soc_sbx_counter_get_zero
* Purpose:
*     Get the software-accumulated counter value.
*     The software-accumulated counter value is zeroed for the _zero()
*     version.
* Parameters:
*     unit    - Device number
*     block   - Counter block
*     set     - Counter set in given block
*     counter - Counter in given set to get value for
*     val     - (OUT) 64-bit counter value
* Returns:
*     SOC_E_NONE - Success
*     SOC_E_XXX  - Failure
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmRateDeltaMaxTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/qe2k/sbZfKaQmRateDeltaMaxTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPortRemapEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaPortRemapEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :                                                            *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes ucode         *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/public/srds_api_uc_common_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*****
```

```
*****************************************************************************************
*****
*                                                                                       *
*  Revision     :  $Id: eagle_merlin_api_uc_vars_rdwr_defns.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                                       *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                  *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/eagle_merlin_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_cnm.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_cnm.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_cnm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TR2 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/failover.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_u64.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_u64.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_u64.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     Field Processor module routines specific to BCM56960
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field_wb.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
```

```
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: merlin_quadra28_internal.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                           *
*  Description :  Internal API functions                                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
*****************************************************************************
Copyright 2009-2017 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.
```

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/kbp_portable.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/portability/kbp_portable.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/xpt_12k.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/kbp_portable.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/xpt_12k.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/kbp_legacy.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/kbp_legacy.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/src/soc/kbp/alg_kbp/portability/kbp_portable.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/xpt_kaps.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/xpt_kaps.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linux-uk-proxy.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/linux-uk-proxy.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/debug.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_defs.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JERICHO_PLUS DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JERP/jerp_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
#     #####
#   # #   #      #####  ####  #####  #####
#   # #   #      #   # #   # #   #   #
#   #  #####  #####  #   # #   # #   #   #
#######  #   #      #####  #   # #####   #
   # #   #      #    #   # # #   #
   #  #####      #    ####  #   #   #
```

Curt McDowell, Broadcom Corp. 05-23-01
Last Updated: 02-28-02

---

1) Boot Flag

The VxWorks boot flag 0x40000 must always be set for the 48-port board. In the future, this will be taken care of by board ID; however some early 48-port boards do not have a board ID.

To set the boot flag, reset the system and press RETURN while it is counting down. Then use the 'p' command to display the current setting of flags. If the flags do not include bit 18 (0x40000) then use the 'c' command to add 0x40000 to the current value of flags.

Another useful boot flag is 0x1000. If this flag is set, the rc.soc will not be loaded on either unit when the system boots. rc.soc can then be run manually on a single unit using the command "0:rc" or "1:rc", or on both units using the command "*:rc".

2) Config Settings

The cross-linked Gig ports are Unit 0 port ge0 and Unit 1 port ge1. Persistent configuration variables should be set in the config.bcm file telling the driver which ports are cross-linked. These ports do not have a PHY. The configuration variables tell the driver to select the null PHY driver.

Boot the system to the "BCM.0>" prompt and use the "config" command to display the current configuration settings. If the required settings are not there, use the following commands to add them:

```
BCM.0> config add phy_null_port25.0=1
BCM.0> config add phy_null_port26.1=1
BCM.0> config save      # Make it permanent (writes flash:config.bcm)
```

```
BCM.0> *:rc            # Changes can take effect without rebooting
```

The inter-packet gap parameter for the Turbo port must be lowered so that 64-byte untagged packets can be switched at line rate on all ports through the Turbo port. The IPG parameters (GMACC2.IPGT) currently cannot differ between the Turbo and non-Turbo GE ports using the 'ifg' command, however configuration properties have been added to support unique values per port. Verify that the config parameters are set to 8 as follows:

```
BCM.0> config add ipg_ge_fd_port25.0=8
BCM.0> config add ipg_ge_fd_port26.1=8
BCM.0> config save      # Make it permanent (writes flash:config.bcm)
BCM.0> *:rc            # Changes can take effect without rebooting
```

3) rc script

When the boot flag 0x40000 is set, the @p48 variable is automatically set in the BCM diagnostics. If the rc.soc detects this variable, it performs additional 48-port initialization such as assigning module IDs for stacking and enabling turbo mode on the cross links.

The rc.soc in $SDK/rc/rc.soc is set up to perform 48-port initialization if running on a 48-port board. This file should be copied to flash:rc.soc if it is not already there.

When booting, the rc.soc is automatically run first on unit 0, and then on unit 1. When loading on unit 0, the variable @unit0 is set, and when loading on unit 1, the variable @unit1 is set. This way rc.soc can detect which unit it is running on and perform slightly different functions. Please refer to rc.soc for initialization examples.

4) Software Multiple-Unit Access

When running on the 48-port board, there are two BCM56xx units found. These are unit 0 and unit 1. By default, both units will be attached and the default rc.soc will be run on both units.

The current "default" unit shows up in the BCM prompt, e.g.:

```
BCM.0>
```

There are two ways to run commands on a specified unit. The first is to make it the default unit and simply run the command. The default unit can be set by entering the unit number followed by a colon. For example:

```
BCM.0> rc
```

```
BCM.0> 1:
BCM.1> rc
BCM.1> 0:
BCM.0>
```

The second is to precede any command with a unit number and colon prefix. This executes the command on the specified unit without changing the default. For example:

```
BCM.0> rc
BCM.0> 1:rc
BCM.0>
```

There is a shortcut to run a command on all attached units, which is to prefix a command by an asterisk and colon prefix. For example:

```
BCM.0> *:rc
BCM.0> *:getreg config.g0
BCM.0>
```

5) Turbo-Specific Features

For setting Turbo mode:

```
BCM.0> 0:m config2.g0 turbo=1
BCM.0> 1:m config2.g1 turbo=1
```

The BCM5617 is an earlier chip which requires additional configuration. For setting DDR and clock driver strengths properly for high speed (required only on transmitting side and only on port ge1):

```
BCM.0> 1:m config2.g1 phase_ctl=1
```

Example commands for setting drive strengths for transmitting side:

```
BCM.0> 0:m config2.g0 clk_drv=X tds_drv=Y
BCM.0> 1:m config2.g1 clk_drv=X tds_drv=Y
```

For permanently setting Turbo mode

```
BCM.0> config add turbo_port25.0=1
BCM.0> config add turbo_port26.1=1
BCM.0> config save
BCM.0> rc.soc
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/48-port.txt

No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: dino_ucode.c 2015/12/14 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* This software simulator can emulate basic register access for the
* TSC/Eagle SerDes PHY.
*
* The simulator suppor both IEEE clause 22/45 access and Broadcom
* proprietary SBUS access.
*
* Clause 22 address format:
*   Bits [4:0]   : Clause 22 register address
*   Bits [31:5]  : Unused
*
* Clause 45 address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [20:16] : Clause 45 DEVAD
*   Bits [23:21] : Clause 45 indicator (001b)
*   Bits [31:24] : Unused
*
* SBUS address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [18:16] : Lane control
*   Bits [26:19] : Lane multicast (old format)
*   Bits [31:27] : Clause 45 DEVAD
*
* The upper 16 bits if the SBUS address format is identical to the
* Broadcom Address Extension Register (AER) format.
*
```

```
* The clause 45 indicator serves two purposes which is to ensure that
* the upper 16 bits are never zero for a clause 45 address, but it
* also makes it possible for the PHY bus driver to distinguish
* between a clause 45 DEVAD and the old AER multicast format.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/tscf16_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/tscf_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/falcon_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/eagle_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/tsce_sim.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: phy8806x_tsc_dependencies.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: fe1600_bcm88754_mbist.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_bcm88754_mbist.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sysconf.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sysconf.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpBfPriTableAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpBfPriTableAddr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: link.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Link module definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/link.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer_pp_metering.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_metering.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_field_range_pktlen_demo.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_range_vport_demo.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_range_pktlen_demo.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56840_b0.c
* Purpose:     bcm56840_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56840_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_general_anti_spoofing.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_general_anti_spoofing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_field_router_over_ac.c,v 1.1 2016/2/29 06:36:55 xfei Exp $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_field_router_over_ac.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_qos.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_qos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ll.h,v 1.52 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ll.h
* Purpose:    Link Layer interface (MAC and PHY)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ll.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_rce.c,v 1.9.30.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_rce.c
* Purpose: Caladan3 RCE test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_rce.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: techsupport_pstat.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_pstat.c
* Purpose: This file implements techsupport utility for
*          pstat.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/pstat/techsupport_pstat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.h,v 1.1.2.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STG definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/stg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hercules.h,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hercules.h
* Purpose:     Function declarations for Hercules bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/hercules.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_cint.stg,v 1.6 Broadcom SDK $
*
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
*
* g3p1_ppe_cint_data.c: Guadalupe2k V1.3 C-Interpreter functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated by Asm3 tools.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_ppe_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_bitstream.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_bitstream.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_bitstream.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision     :  $Id: srds_api_uc_common_public.h 1131 2015-09-11 18:51:06Z brentrob $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/eagle/tier1/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_defs.h,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmFullStatusEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmFullStatusEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX support code for some chipcommon facilities (uart, jtagm)
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndchipc.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndchipc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_util.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX utility macros and other useful accessor routines
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbx_util.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: eagle_phy_1_debug_functions.h 316 2014-02-18 01:31:43Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stack.h
* Purpose:     public stack interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/stack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_soc_init.c,v 1.100 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 SOC Initialization implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/bm9600_soc_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_cmds.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       t3p1_cmds.c
* Purpose:     Caladan3 diag shell commands commands for ucode objects
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8747_ucode.c yiwenz Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8747_ucode.c
* Purpose:    Firmware used by BCM8747 device's micro-Controller. Revision 0x0511
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8747_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueParamEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQueueParamEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_a.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_a.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ltm.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/ltm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane2.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane.h
* Purpose:    Function declarations for Hurricane  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/hurricane2.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ipmc.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Trident2 PIM-BIDIR implementation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbpci.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM47XX Sonics SiliconBackplane PCI core hardware definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbpci.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_diags_h.stg,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_cop_diags.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_mgmt.h,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_port.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_element_converts.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_element_converts.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_w.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_w.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_ser_correction.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_dev_feature_manager.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_ser_correction.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_dev_feature_manager.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_fabric.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_fabric.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_parse.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_parse.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
```

```
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_parse.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_element_converts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_element_converts.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cM41T81Clock.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2cM41T81Clock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* This code allows to use the same MBCM_DNXF_DRIVER_CALL API independently of the chip type
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
```

```
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/mbcm.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_TSCF_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tscf_xgxs_sym.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tscf_xgxs_gen2_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* OS Abstraction Layer for Switch Management API subsystem.
* $Id: osl_vxworks.c,v 1.1 2004/02/24 07:47:00 csm Exp $
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/osl_vxworks.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcoe.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fcoe.c
* Purpose:     ESW FCOE functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/fcoe.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_EAGLE_XGXS.
* This file provides all basic definitions required to program the BCMI_EAGLE_XGXS.
*
* This file is autogenerated. Please do not edit.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_eagle_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: management.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    management.c
*
* Purpose:
*
* Functions:
*      _bcm_ptp_management_init
```

```
*     _bcm_ptp_management_detach
*     _bcm_ptp_management_stack_create
*     _bcm_ptp_external_transport_init
*     _bcm_ptp_external_transport_terminate
*     _bcm_ptp_internal_transport_init
*     _bcm_ptp_internal_transport_terminate
*     _bcm_ptp_management_clock_create
*     _bcm_ptp_management_message_send
*     _bcm_ptp_tunnel_message_to_top
*     _bcm_ptp_tunnel_message_to_world
*     _bcm_ptp_external_tx
*     _bcm_ptp_external_tx_completion
*     _bcm_ptp_internal_tx
*     _bcm_ptp_internal_tx_completion
*     _bcm_ptp_unicast_slave_subscribe
*     _bcm_ptp_management_domain_get
*     _bcm_ptp_management_domain_set
*     _bcm_ptp_management_message_create
*     _bcm_ptp_management_message_macaddr_set
*     _bcm_ptp_management_message_vlantag_set
*     _bcm_ptp_management_message_ipaddr_set
*     _bcm_ptp_management_message_ipv4hdr_checksum_set
*     _bcm_ptp_management_message_port_set
*     _bcm_ptp_management_message_domain_set
*     _bcm_ptp_management_rfc791_checksum
*     _bcm_ptp_rfc791_checksum_add_word
*     _bcm_ptp_construct_udp_packet
*     _bcm_ptp_construct_signaling_msg
*     _bcm_ptp_construct_signaling_request_tlv
*     _bcm_ptp_construct_signaling_cancel_tlv
*     _bcm_ptp_construct_signaling_grant_tlv
*     _bcm_ptp_construct_signaling_ack_cancel_tlv
*     _bcm_ptp_signaling_message_append_tlv
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/management.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enet.c,v 1.32.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 Ethernet OAM functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/enet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hash.c
* Purpose:    Greyhound2 hash table calculation routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound2/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vlan_vsi_membership.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* CINT files:
* utility/cint_utils_vlan.c
*
*
* Purpose: Example of employing vlan vsi membership
*
*
* Tests scenario:
*
*
* case 1: Ingress vlan membership filter with drop packet trap
*
* 1. Configure bcmRxTrapPortNotVlanMember drop packet trap
* 2. Use bcm_vlan_gport_add in order to add vlan to port filtering (the vlan will not be filtered)
* 3. Enable port filtering with bcm_port_vlan_member_set (if disable, filter won't work)
*
* Send packet : vlan id 20
*             in_port 200
*             - check with diag pp fdt that it's accepted
* Send packet : vlan id 16
*             in_port 200
*             - check with diag pp fdt that it's dropped
```

```
*
*
*
* case 2: Ingress vlan membership filter with send to cpu packet trap
*
* 1. Configure bcmRxTrapPortNotVlanMember send to cpu packet trap
* 2. Use bcm_vlan_gport_add in order to add vlan to port filtering (the vlan will not be filtered)
* 3. Enable port filtering with bcm_port_vlan_member_set (if disable, filter won't work)
*
* Send packet : vlan id 20
*             in_port 200
*             - check with diag pp fdt that it's accepted
* Send packet : vlan id 16
*             in_port 200
*             - check with diag pp fdt that it's dropped
*
*
*
* case 3: Egress vsi membership filter - enable
*
* -----------
* The test won't work after cases 1&2 because of TrapPortNotVlanMember configuration
* In order to work, you can use:
* bcm_vlan_gport_add(0,16,200,BCM_VLAN_GPORT_ADD_INGRESS_ONLY);
* bcm_vlan_gport_add(0,20,200,BCM_VLAN_GPORT_ADD_INGRESS_ONLY);
* -----------
*
* 1. Configure mac entries
* 2. Use bcm_vlan_gport_add in order to add vsi to port filtering (the vlan will not be filtered)
* 3. Enable port filtering with bcm_port_vlan_member_set (if disable, filter won't work)
*
* Send packet : vlan id 20
*             in_port 200
*             dst mac A600000000e1
*             - check with Debug rx verb that it's accepted
* Send packet : vlan id 16
*             in_port 200
*             dst mac A600000000e1
*             - check with Debug rx verb that it's dropped
*
*
*
* case 4: Egress vsi membership filter - disable
*
* 1. Disable port filtering with bcm_port_vlan_member_set (filter won't work)
*
* This case should run after case 2 in order to see the affects
*
```

```
* Send packet : vlan id 20
*             in_port 200
*             dst mac A600000000e1
* Send packet : vlan id 16
*             in_port 200
*             dst mac A600000000e1
* -- Check with Debug rx verb both packets accepted
*
*
*
* Ingress:
* port 200 vlan membership filter
*
*              INPUT        ___________________________        OUTPUT
*                      |                    |
*                  200 |                    |
*               vlan=20 |                    |mc
*     ---------------------->|                    |------------------------->
*                      |____________________________|
*
*                       ___________________________
*                  200 |                    |
*               vlan=16 |      /             |
*     ---------------------->|------/--------> drop   |
*                      |    /               |
*                      |____________________________|
*
*
*
* Egress:
* port 201 vsi membership filter
*             INPUT        ___________________________        OUTPUT
*                      |                    |
*                  200 |                    | 201
*                      |                    | vsi=20
*     ---------------------->|                    |------------------------->
*                      |____________________________|
*
*                       ___________________________
*                  200 |                    | 201      /
*                      |                    | vsi=16  /
*     ---------------------->|                    |--------/---------> drop
*                      |                    |      /
*                      |____________________________|      /
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_vsi_membership.c
No license file was found, but licenses were detected in source scan.

/* $Id: dffs_low.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/dffs_low.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmBaaCfgTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmBaaCfgTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/mirror.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/xgs4.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/sec.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/rate.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/dino16_service.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/robo_northstar.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/trunk.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/mac_adr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/mstp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/trap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/mstp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/robo_dino16.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/dino16_service.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/storm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs6.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs6.c
* Purpose:    Broadcom 10/100/1000/2500/10000/12000/13000/16000 SerDes
*             (SerDes-XGXS6/Unicore)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs6.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_init.c,v 1.309 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_init.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.24 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF RX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag.c
* Purpose:     Device diagnostics commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_pp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/fp_oam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.171 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* Field Processor related CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/field.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfG2EplibMvtEntryConsole.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbZfG2EplibMvtEntryConsole.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_frwrd_fcf.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_fcf.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: rce.c,v 1.74.10.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: rce.c
* Purpose: Caladan3 Rule Classifier drivers warm boot support
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/wb_db_rce.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: socdiag.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_llp_parse.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_llist.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip linked list methods
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_llist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws_test3.c,v 1.4.30.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws_test3.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* ========================================
* ==  sbQe2000Elib.c - elib main module  ==
* ========================================
*
* WORKING REVISION: $Id: sbQe2000Elib.c,v 1.18 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000Elib.c
*
* ABSTRACT:
*
*     elib public API
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     David R. Pickett
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     20-August-2004
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbQe2000Elib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pp_mac.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       soc_sand_pp_mac.c
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
```

```
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_pp_mac.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane embedded ram core
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbsocram.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbsocram.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     BCM56860 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/field.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_EAGLE_DPLL_XGXS.
* This file provides all basic definitions required to program the BCMI_EAGLE_DPLL_XGXS.
*
* This file is autogenerated. Please do not edit.
```

```
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_eagle_dpll_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_tbls.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_tbls.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_ipv6.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_ipv6.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_ipv6.h
No license file was found, but licenses were detected in source scan.

```
/*
* dict.c: dictionary of reusable strings, just used to avoid allocation
*         and freeing operations.
*
* Copyright (C) 2003 Daniel Veillard.
```

```
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
* Author: daniel@veillard.com
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/libxml/dict.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_multicast.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkExtSwitchApi.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkExtSwitchApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkExtSwitchApi.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfKaEgMemFifoParamEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemFifoParamEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_dir_ext_counter_inlif.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_dir_ext_counter_inlif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_port_resequence_up.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mmu_port_resequence_up.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: warmboot.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       warmboot.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/warmboot.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* BCM43XX PCI/E core sw API definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nicpci.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/nicpci.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  phy8806x_tsc_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: phy8806x_tsc_functions.h 1282 2015-12-04 12:20:52Z eroes $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rcpu.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/rcpu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Saber2 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/saber2/failover.c
No license file was found, but licenses were detected in source scan.

```
/*  Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.            */
/*  All Rights Reserved                                                      */
/*  company private proprietary, and trade secret.                           */
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_inc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_source_routed_cell.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* DFE FABRIC SOURCE ROUTED CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_fabric_source_routed_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: circ_cmd_buffer.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Purpose: Thread safe circular buffer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/circ_cmd_buffer.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_sa_auth.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_sa_auth.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* *
* File:    bfd_sdk_msg.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/bfd_sdk_msg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bfd_sdk_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius.c,v 1.476.18.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SIRIUS SOC Initialization implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sirius.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sat.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    sat.h
* Purpose: SAT definitions common to SDK
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/sat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: srcell.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       srcell.c
* Purpose:     Source Route Cell command
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/srcell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g+2xhg10_1xil100.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g+2xhg10_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc.h
* Purpose:     Device diagnostics commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF PORT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkIgmpApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkIgmpApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkIgmpApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.88 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     Functions to support CLI port commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_default_section.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_default_section.h
*
* MODULE PREFIX:  soc_tmcdefault
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
```

**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_default_section.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ptp.h,v 1.40.16.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/ptp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpPortVridSmacTableEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPortVridSmacTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe1600_property.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 PROPERTY
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_property.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nat.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* NAT - Broadcom StrataSwitch NAT API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/nat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port_sw_db.h,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC NIF PORT SW DB H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/port_sw_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/port_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: memregs.h
* Purpose: Memory entry declarations, memory and register macros
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
```

```
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/memregs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_mgmt.c,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bs.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bs.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56224_b0.c
* Purpose:     bcm56224_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56224_b0.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/rate.h
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_ma_auto_ex.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ma_auto_ex.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpBfPriTableAddrConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88650_b0.c
* Purpose:     bcm88650_b0 chip specific information (register, memories, etc)
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88650_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_port_up_sequence.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mmu_port_up_sequence.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
* FILENAME:       utils_eeprom.c
* $Id: dcmn_utils_eeprom.c,v 1.7 Broadcom SDK $
*
* MODULE PREFIX:  $prefix$
*
* SYSTEM:         Broadcom LTD Proprietary information
*
* CREATION DATE:  $date$
*
* LAST CHANGED:   $date$
*
* REVISION:       $revision$
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_utils_eeprom.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  phy8806x_tsc_pll_config.c                                  *
*  Created On    :  02/24/2015                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Falcon2 MT2 PLL Configuration API                          *
*  Revision      :  $Id: phy8806x_tsc_pll_config.c 1138 2015-09-17 20:58:34Z kirand $  *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_pll_config_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Driver utility routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/bcm_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: Vxlan.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* VXLAN initializers
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPolicePortQMapEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPolicePortQMapEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_diag_utils.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       g3p1_diag_utils.c
* Purpose:     Caladan3 diag shell utilities
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_diag_utils.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: eagle2_tsc2pll_dependencies.h 1466 2016-07-27 15:28:10Z cvazquez $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
```

```
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_egr_queuing.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_sch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_egr_queuing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_init.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: higig.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for managing Higig headers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/higig.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_pll_synce_init.c, v1 17/09/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_pll_synce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_exec.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_exec.c
* Purpose:     API mode CINT execution interface
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/cint_exec.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchSumEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchSumEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* bcmalloccache.c
*
* Implements a working set model for objects alloced. The objects should be of same size.
* The size of the working set is controlled by using trim level and
* periodically calling reclaim function.
* If an object is not found in working set, it's allocated using MALLOC and reclaim will
```

```
* free it using MFREE
* The locking and timer is application's responsibility.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmallocache.c,v 1.2 Broadcom SDK $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmallocache.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linux-uk-proxy.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/uk-proxy/linux-uk-proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_test_data.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_test_data.c
* Purpose:    CINT test data
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_test_data.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56648sanity.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56640 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
```

```
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x3ffdfffffffe
local pbmxe 0x3c000000000000
local pbmhg 0xc0000000000000
local pbmport 0xffffdfffffffe

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

tr3_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
#tr 17
$done
```

```
#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

if "expr $pbmxe + 0" \
      'echo "Testing MAC Loopback - 10 Gb/s all XE ports"; \
       tr 18 PortBitMap=$pbmxe Speed=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Testing MAC Loopback - 42 Gb/s all HG ports"; \
       tr 18 PortBitMap=$pbmhg Speed=42G; $done'

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

if "expr $pbmxe + 0" \
      'echo "Testing PHY Loopback - 10 Gb/s all XE ports"; \
       tr 19 PortBitMap=$pbmxe Speed=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Testing PHY Loopback - 42 Gb/s all HG ports"; \
       tr 19 PortBitMap=$pbmhg Speed=42G; $done'

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
```

```
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

if "expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, MAC loopback ..."; \
       tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe; $done'

if "expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, PHY loopback ..."; \
       tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe; $done'

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

if "expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G; $done'

if "expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=42G; $done'

if "expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=42G; $done'

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56648sanity.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       txrx.c
* Purpose:     First cut at some sbx commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/txrx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ilm.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ARAD/ARAD_PP/include/arad_pp_frwrd_ilm.h
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ilm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_cint.stg,v 1.6 Broadcom SDK $
*
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*
* t3p1_ppe_cint_data.c: Guadalupe2k V1.3 C-Interpreter functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated by Asm3 tools.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/t3p1_ppe_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_api_cnm.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_cnm.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi.cx,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_rom_defi.cx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* trie IPv6 data structure
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/alpm_trie_v6.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmdevmgr_dump.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr/nlmdevmgr_dump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: 5701rls.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/5701rls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_oam_ccm_extended.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/caladan3_oam_ccm_extended.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: testlist.c,v 1.131 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       testlist.c
* Purpose:     Defines list of tests and their associated
*              functions.
*
* Notes:       Fields defined as follows:
```

```
*
*     Test # - Indicates the test number, all commands hat operate on tests
*            can use either the test name or #. The # is intended to be the
*            DV Test number, but is arbitrary. If the test number is
*            negative, then the test is not selected by default; otherwise
*            it is.
*     Flags - See appl/diag/test.h for explanation
*            TS88xxx- Test is supported on the specified chip.
*     Test Name - The name of the test.
*     Init Func - A routine called before the test is run to perform any
*            setup required, may be NULL if no initialization required.
*     Cleanup Func - Function called after test has run to reset any state
*            etc, may be NULL if not required.
*     Test Function - actual test function, called "Loop Count" times.
*     Loop Count - Number of times to call "Test Function".
*     Default Args - Default argument string passed into test.
*
* Order of a normal test execution is:
*
*     [1] Load TEST_RC file (if required)
*     [2] Call "Init Func"
*     [3] Call "Test Func" Loop times
*     [4] Call "Cleanup Func"
*
* All external declarations for functions are found in testlist.h.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sand_testlist.c
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common inline defs for reg spec for chip c2
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id: hal_c2_inline.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_c2_inline.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: bfcmap_stat.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap_stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsAlDataInOut.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsAlDataInOut.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkOsAlDataInOut.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: phymod_definitions.h,v 1.2.2.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* Phymod external definitions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_definitions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_custom_config.h,v 1.1.2.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System interface definitions for Switch SDK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/phymod_custom_config.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/libonly/phymod_custom_config.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_egr_queuing.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_v.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_v.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmdebug.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmdebug.h
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2000, 2001, 2002
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license and may be used and copied only
* in accordance with the following terms and conditions.  Subject to these
* conditions, you may download, copy, install, use, modify and distribute
* modified or unmodified copies of this software in source and/or binary
* form. No title or ownership is transferred hereby.
*
* 1) Any source code used, modified or distributed must reproduce and
*    retain this copyright notice and list of conditions as they appear in
*    the source file.
*
* 2) No right is granted to use any trade name, trademark, or logo of
*    Broadcom Corporation.  The "Broadcom Corporation" name may not be
*    used to endorse or promote products derived from this software
*    without the prior written permission of Broadcom Corporation.
*
* 3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR IMPLIED
*    WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF
*    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
*    NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL BROADCOM BE LIABLE
*    FOR ANY DAMAGES WHATSOEVER, AND IN PARTICULAR, BROADCOM SHALL NOT BE
*    LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
*    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
*    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
*    BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
*    WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
*    OR OTHERWISE), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/cfe_api_int.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/cfe_api.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/cfe_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_vsi.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_vsi.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_vsi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_fp_fem.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_fp_fem.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       bcm56340_a0.c
* Purpose:     bcm56340_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56340_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module : Switch
*
* Purpose:
* Aggregation Monitor Management.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/switch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: pciConfigLib.c,v 1.4 2011/07/21 16:14:28 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/pciConfigLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_mxq.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/stat_mxq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_cross_connect_p2p_multi_device.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpws_tagged.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_general.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c24LC128Eeprom.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2c24LC128Eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_intr.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_intr.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_parse.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_parse.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_mymac.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_mymac.h
*
* MODULE PREFIX:  soc_ppd_mymac
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_mymac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: thread.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  thread.c
* Purpose: Defines SAL routines for Unix threads
*
* Thread Abstraction
*
* POSIX does not keep thread names.  The keep the names, we have a
```

```
* linked list of all threads we create.  If your OS has the ability to
* retrieve the thread name, most of this code can be deleted.  If you
* don't care about thread names, you may just have sal_thread_name
* always return the empty string.
*
* The most important use for thread names is in sal/appl/xxx/console.c,
* where the console output of background tasks can be prefixed by the
* task name.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/thread.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ingress_scheduler.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ingress_scheduler.c
*
* MODULE PREFIX:  soc_jer2_tmcingress_scheduler
*
* FILE DESCRIPTION:  in the H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2_dgm.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk2_dgm.c
* Purpose: Maintains all the debug information for dgm
*          feature for tomahawk2.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/dgm/tomahawk2_dgm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls_lm_dm_msg.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls_lm_dm_msg.h
* Purpose: MPLS_LM_DM Messages definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mpls_lm_dm_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.h
* Purpose:     L2 internal definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/l2.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: arad.soc,v 1.90 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Load DRAM tuning properties from local File. RcLoad will not fail if file not found, and will not show errors of missing file.
set RCError=off
debug appl shell warn
```

```
rcload /home/negev/bcm88650_dram_tune.soc
debug appl shell =
set RCError=on

debug info
debug appl rcload warn
debug appl symtab warn
debug bcm rx,tx,link,attach warn
debug soc tests warn
debug soc rx,phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,ddr warn
debug soc common err
debug sys verinet warn

rcload arad_dram.soc

# Set modid:
# If diag_chassis is enabled (two line cards), and 'slot' is defined (slot is defined only when
# working without a management card) - set modid to be 0 for slot 0, and 2 for slot 2
# Otherwise (single line card, or management card), set modid to be 0 for unit 0, and 2 for unit 2
# If module_id is set, then set modid to have module_id value
if $?diag_chassis && $?slot "\
 local modid $slot" \
else "\
 local modid $unit"
expr $modid==1; if $? "local modid 2"

if $?module_id " \
 local modid $module_id"

echo "$unit: modid=$modid"

# Set base_modid:
# Id base_module_id is set, then set base_modid to have base_module_id value.
# Otherwise, set base_modid to be 0.
if $?base_module_id " \
 local base_modid $base_module_id" \
else " \
 local base_modid 0"

expr $base_modid > 0
if $? " \
 echo '$unit: base_modid=$base_modid'"

# Set nof_devices:
# If diag_chassis is enabled (mgmt card) - set nof_devices to be 2.
# Otherwise, set nof_devices to be 1.
# If n_devices is set, then set nof_devices to have n_devices value.
if $?diag_chassis " \
```

```
 local nof_devices 2" \
else "\
 local nof_devices 1"

if $?n_devices " \
 local nof_devices $n_devices"

expr $nof_devices > 1
if $? " \
 echo '$unit: nof_devices=$nof_devices'"

if $?mng_cpu " \
 echo '$unit:management card - polling is set on'; \
 config add polled_irq_mode.BCM88650=1; \
 config add schan_intr_enable.BCM88650=0; \
 config add tdma_intr_enable.BCM88650=0; \
 config add tslam_intr_enable.BCM88650=0; \
 config add miim_intr_enable.BCM88650=0; \
 config add polled_irq_mode.BCM88750=1; \
 config add schan_intr_enable.BCM88750=0; \
 config add tdma_intr_enable.BCM88750=0; \
 config add tslam_intr_enable.BCM88750=0; \
 config add miim_intr_enable.BCM88750=0; "

#default values in a case which these parameters are not exist
if !$?diag_cosq_disable "\
 local diag_cosq_disable 0"
if !$?warmboot "\
 local warmboot 0"
if !$?diag_disable "\
 local diag_disable 0"
if !$?diag_no_appl_stk "\
 local diag_no_appl_stk 0"
if !$?diag_no_itmh_prog_mode "\
 local diag_no_itmh_prog_mode 0"
if !$?l2_mode "\
 local l2_mode 0"

INIT_DNX ModID=$modid BaseModID=$base_modid NofDevices=$nof_devices
CosqDisable=$diag_cosq_disable NoAppl=$diag_disable Warmboot=$warmboot NoApplStk=$diag_no_appl_stk
NoItmhProgMode=$diag_no_itmh_prog_mode L2Mode=$l2_mode

#LED support section start
local ledcode '02 0D 67 31 67 1C 02 0E 67 31 67 1C 02 0F 67 31\
67 1C 02 10 67 31 67 1C 86 E0 3A 08 67 37 75 3E\
28 32 00 32 01 B7 97 75 3E 16 E0 CA 05 70 42 77\
3E 67 37 75 3E 77 42 12 A0 F8 15 1A 00 57 32 0E\
87 57 32 0F 87 57' #sdk88650.hex
```

```
# Download LED code into LED processor and enable (if applicable).
if $?feature_led_proc && $?ledcode && !$?simulator \
   "led prog $ledcode; \
    led auto on; led start"

# If loading multiple rc.soc, upon loading the last unit, restart
# all LED processors so any common blinking is in sync.
# if !"expr $?feature_led_proc && !$?simulator && $unit == $units - 1" \
#    "*:led stop; *:led start"
#LED support section end

echo "arad.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/arad.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdebug.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cmdebug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    range.c
* Purpose: Manages RANGE_CHECKER (IFP_RANGE_CHECK)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwAllocCfgBaseEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwAllocCfgBaseEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_resmgr.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allocator.h
* Purpose:    Internal routines to the BCM library for allocating
*             gu2 resources.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_resmgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pci_common.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SAL PCI abstraction common to all platforms
* See also: vxworks/pci.c, unix/pci.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/pci_common.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etu_fifo.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    etu.c
* Purpose: Caladan3 External TCAM driver Read/Write interface manager
*          For CLI and NL XPT driver for Caladan3 ETU
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/etu/etu_fifo.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_l3_vrrp.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint VRRP Setup example code
*
*
* Run script:
*
* cd ../../../src/examples/dpp
* cint utility/cint_utils_global.c
* cint utility/cint_utils_l3.c
* cint cint_ip_route.c
* cint cint_l3_vrrp.c
* cint
* l3_vrrp_test(unit, <is_arad>, <max_nof_vlans>, <ipv6_distinct>);
* traffic_example(unit, <in_port>, <out_port>, <max_nof_vlans>, <ipv6_distinct>);
*
* for Soc_petra-B:
* max_nof_vlans must be 4096 (and therefore ipv6_distinct must be 0).
*
* In ARADPLUS and above:
*
* There are two relevant max_nof_vlans in aradplus. The first is 4096 which allows you to have a total of 8 different vrids between 0-255.
* The second is 256 which allows you to have 16 different vrids between 0-255 and works identically to vrrp in arad.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l3_vrrp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_ptp.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_ptp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR0WdtEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR0WdtEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_init.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counters.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: internal counter processor work
*
* Purpose:
*     Access to counters hosted by Soc_petra counter processors
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/counters.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_csys.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_csys.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_ppa_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_ppa_api.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: vxbsp.h,v 1.1 2004/02/24 07:47:01 csm Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/vxbsp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell_snake_test.h,v 1.6.106.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC CELL SNAKE TEST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56260_a0.c
* Purpose:     bcm56260_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56260_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.75 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stack.c
* Purpose:     BCM level APIs for stacking applications
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/stack.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

This directory contains the zframes related to the BM3200/QE2000. These are generated and put in this directory.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/readme
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ip_tcam.c,v 1.52 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ip_tcam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     mpls.c
* Purpose:  Manages MPLS functionality at a system level
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_field_bfd_ipv4_single_hop.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_bfd_ipv4_single_hop.c
* Purpose: pmf stage in bfd single hop extended solution.
*   stamp the trap qualifier to be the oam_id
*   stamp the oam offset to be equal to the start of BFD header
*
* Usage:
* Enable soc property ipv4_single_hop_enabled (together with all other oam soc properties)
*
* Add PMF rule using cint: cint_field_bfd_ipv4_single_hop.c function:bfd_ipv4_single_hop_field_action
*
* Add bfd endpoint by calling bcm_bfd_endpoint_create with:
* type= bcmBFDTunnelTypeUdp
* flags |= BCM_BFD_ENDPOINT_IN_HW
* without BCM_BFD_ENDPOINT_MULTIHOP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_bfd_ipv4_single_hop.c
No license file was found, but licenses were detected in source scan.

```
# $Id: dfe.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#Debug level
debug info
debug soc tests warn
debug appl rcload warn
debug appl symtab warn
debug soc phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,physim warn
debug sys verinet warn
debug bcm attach warn


# Shutdown threads if system is already running
counter off
linkscan off

#board related configuration
if $?BCM88750_A0 || $?BCM88750_B0 || $?BCM88752_A0 || $?BCM88752_B0 ||  $?BCM88755_B0 ||
$?BCM88754_A0\
  'rcload bcm88750_board.soc;'
if $?BCM88770_A1 || $?BCM88773_A1 || $?BCM88774_A1 || $?BCM88775_A1 || $?BCM88776_A1 ||
$?BCM88950_A0 || $?BCM88950_A1 || $?BCM88953_A1 || $?BCM88954_A1 || $?BCM88955_A1 ||
$?BCM88956_A1 || $?BCM88772_A1 || $?BCM88952_A0 || $?BCM88952_A1\
  'rcload bcm88950_board.soc;'

if !$?warmboot "\
 local warmboot 0"

INIT_DNX ModID=5 Warmboot=$warmboot


echo "dfe.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/dfe.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv6Console.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv6Console.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: dpp_dbal.c, v 1.95 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_flp_dbal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_dbal.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53242_a0.c
* Purpose: bcm53242_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53242_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g2p3.h,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       g2p3.h
* Purpose:    g2p3 internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/g2p3.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sat.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM layer SAT APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/sat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr.c,v 1.312 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr.c
* Purpose:     Resource allocation manager for SOC_SAND chips.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr_lif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr_cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcOam.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcOam.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcOam.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: tdm_parse.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core parsing functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_parse.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_scan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_tsfm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_math.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_16x1g_8x10g_1xhg127.h,v 1.1.2.2 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_16x1g_8x10g_1xhg127.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: extender.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* extender structure initializers
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/extender.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/l2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_module_management.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*********************************************************************
*
* FILENAME:       dnx_sand_module_management.h
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
* The module management is a set of functions that are
* used by the application to open and close the driver module.
* These functions take care of initializing the driver by allocating
* memory and RTOS resources needed by the driver
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_module_management.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia.c, 2014/04/03 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier2/furia.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbCommon.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == mbCommon.h - Common MetroBox Definitions  ==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/mbCommon.h
No license file was found, but licenses were detected in source scan.

```
# $Id: rsanity.soc,v 1.37 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"


# We need to print out port status since any cabling effects results.
*:ps

local phyge_lbpbm "ge";

if $?raptor '\
local lbpbm "ge2-ge52";   \
local st_lbpbm "ge0-ge1"; \
local tr72_lbpbm "ge";    \
'
if $?raven '\
local lbpbm "ge2,ge5-ge28";   \
local st_lbpbm "ge0,ge1,ge3,ge4"; \
local tr72_lbpbm "ge0,ge1,ge3-ge28";    \
'
if $?BCM56212_A0 || $?BCM56213_A0 'local lbpbm "ge2-ge12"'
if $?BCM56216_A0 || $?BCM56217_A0 'local lbpbm "ge2-ge20"'
if $?BCM56214_A0 || $?BCM56215_A0 'local lbpbm "ge2-ge28"'
if $?BCM56212_A1 || $?BCM56213_A1 'local lbpbm "ge2-ge12"'
if $?BCM56216_A1 || $?BCM56217_A1 'local lbpbm "ge2-ge20"'
if $?BCM56214_A1 || $?BCM56215_A1 'local lbpbm "ge2-ge28"'
```

```
if $?BCM56212_A2 || $?BCM56213_A2 'local lbpbm "ge2-ge12"'
if $?BCM56216_A2 || $?BCM56217_A2 'local lbpbm "ge2-ge20"'
if $?BCM56214_A2 || $?BCM56215_A2 'local lbpbm "ge2-ge28"'
if $?BCM56224_A0 || $?BCM56225_A0 'local lbpbm "ge2,ge5-ge28"'
if $?BCM56226_A0 || $?BCM56227_A0 'local lbpbm "ge2,ge5-ge20"'
if $?BCM56228_A0 || $?BCM56229_A0 'local lbpbm "ge2,ge5-ge12"'
if $?BCM56224_B0 || $?BCM56225_B0 'local lbpbm "ge2,ge5-ge28"'
if $?BCM56226_B0 || $?BCM56227_B0 'local lbpbm "ge2,ge5-ge20"'
if $?BCM56228_B0 || $?BCM56229_B0 'local lbpbm "ge2,ge5-ge12"'

set rcerror=false
console off
pbmp $lbpbm
if $? && $?BCM56215_A0 'local lbpbm "ge2-ge27"'
if $? && $?BCM56215_A1 'local lbpbm "ge2-ge27"'
if $? && $?BCM56215_A2 'local lbpbm "ge2-ge27"'
console on
set rcerror=true

if  $?BCM53716_A0  || $?BCM56214R_A0 || \
   $?BCM56215R_A0 || $?BCM56219R_A0 || \
   $?BCM53714_A0  || $?BCM56218R_A0 || \
   $?BCM53718_A0  || $?BCM53724_A0  || \
   $?BCM53726_A0  || $?BCM53724_B0  || \
   $?BCM53726_B0 '                    \
   local lbpbm "ge"                  ;\
   local st_lbpbm "0x0"              ;\
   '
if  $?BCM53716_A1  || $?BCM56214R_A1 || \
   $?BCM56215R_A1 || $?BCM56219R_A1 || \
   $?BCM53714_A1  || $?BCM56218R_A1 || \
   $?BCM53718_A1 '                    \
   local lbpbm "ge"                  ;\
   local st_lbpbm "0x0"              ;\
   '
if  $?BCM53716_A2  || $?BCM56214R_A2 || \
   $?BCM56215R_A2 || $?BCM56219R_A2 || \
   $?BCM53714_A2  || $?BCM56218R_A2 || \
   $?BCM53718_A2 '                    \
   local lbpbm "ge"                  ;\
   local st_lbpbm "0x0"              ;\
   '

if  $?BCM56018_A0  || $?BCM56014_A0 ' \
   local lbpbm "fe"                  ;\
   local tr72_lbpbm "ge0,ge1,ge3,ge4,fe"      ;\
   '
if  $?BCM56018_A1  || $?BCM56014_A1 ' \
```

```
  local lbpbm "fe"                ;\
  local tr72_lbpbm "ge0,ge1,ge3,ge4,fe"      ;\
  '
if  $?BCM56018_A2  || $?BCM56014_A2 ' \
  local lbpbm "fe"                ;\
  local tr72_lbpbm "ge0,ge1,ge3,ge4,fe"      ;\
  '

if  $?BCM56024_A0  || $?BCM56025_A0 || $?BCM56024_B0  || $?BCM56025_B0 ' \
  local lbpbm "fe"                ;\
  local tr72_lbpbm "ge0,ge1,ge3,ge4,fe"      ;\
  '

if  $?BCM53718_A0  || $?BCM53714_A0 || $?BCM53716_A0 || \
  $?BCM53718S_A0  || $?BCM53714S_A0 || $?BCM53314_A0 || $?BCM53316_A0 ' \
  local BCM537XX 1 ; \
  '

if  $?BCM53718_A1  || $?BCM53714_A1 || $?BCM53716_A1 || \
  $?BCM53718S_A1  || $?BCM53714S_A1 ' \
  local BCM537XX 1 ; \
  '

if  $?BCM53718_A2  || $?BCM53714_A2 || $?BCM53716_A2 || \
  $?BCM53718S_A2  || $?BCM53714S_A2 || $?BCM53314_A2 || $?BCM53316_A2 ' \
  local BCM537XX 1 ; \
  '

if $?BCM956024R50T || $?BCM956024P48REF || $?BCM956224R50T && $?unit1 \
  'echo "loading ebsanity.soc"; rcload ebsanity.soc ; exit; \
  '
if $?BCM956024P48REF && $?unit0 ' \
  local phyge_lbpbm "ge0,ge1,ge3"       ;\
  local tr72_lbpbm "ge0,ge1,fe"         ;\
  '
if $?BCM956024R50T && $?unit0 ' \
  local phyge_lbpbm "ge0,ge1,ge3"       ;\
  local tr72_lbpbm "fe"         ;\
  '
if $?BCM956224R50T && $?unit0 ' \
  local tr72_lbpbm "ge5-ge28"         ;\
  local lbpbm "ge5-ge28";\
  '

# Avoid link messages while testing
linkscan off

# Use expected COS configuration for test
```

```
#config add bcm_num_cos=4

#Display config property settings
config

init
init misc

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Deselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
if !$?ics \
   "echo  Running PCI Compliance ...  ; \
    tr 2 ; \
    echo Done"

echo "Running S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc;
#Clean up after register read/write test.

echo "Running CPU Benchmarks ..."
tr 21
$done
```

```
echo "Running Switching Memory tests ..."
if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'
#echo "tr 50 M=BSAFE_CMD_DATA_IN"
#tr 50 M=BSAFE_CMD_DATA_IN IS=min IE=max
#echo " Done"
#echo "tr 50 M=BSAFE_CMD_DATA_OUT"
#tr 50 M=BSAFE_CMD_DATA_OUT IS=min IE=max
#echo " Done"
echo "tr 50 M=DSCP_TABLE"
tr 50 M=DSCP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_DSCP_ECN_MAP"
tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_DSCP_TABLE"
tr 50 M=EGR_DSCP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_EM_MTP_INDEX"
tr 50 M=EGR_EM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_IM_MTP_INDEX"
tr 50 M=EGR_IM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_IP_TUNNEL"
tr 50 M=EGR_IP_TUNNEL IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_L3_INTF"
tr 50 M=EGR_L3_INTF IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_L3_NEXT_HOP"
tr 50 M=EGR_L3_NEXT_HOP IS=min IE=max
echo " Done"
echo "tr 50 M=EGRESS_MASK"
tr 50 M=EGRESS_MASK IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_VLAN"
tr 50 M=EGR_VLAN IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_VLAN_STG"
tr 50 M=EGR_VLAN_STG IS=min IE=max
echo " Done"
echo "tr 50 M=EM_MTP_INDEX"
tr 50 M=EM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=FP_COUNTER_TABLE"
```

```
tr 50 M=FP_COUNTER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_METER_TABLE"
tr 50 M=FP_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_POLICY_TABLE"
tr 50 M=FP_POLICY_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_PORT_FIELD_SEL"
tr 50 M=FP_PORT_FIELD_SEL IS=min IE=max
echo " Done"
echo "tr 50 M=FP_RANGE_CHECK"
tr 50 M=FP_RANGE_CHECK IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_BCAST_METER_TABLE"
tr 50 M=FP_SC_BCAST_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_DLF_METER_TABLE"
tr 50 M=FP_SC_DLF_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_MCAST_METER_TABLE"
tr 50 M=FP_SC_MCAST_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_METER_TABLE"
tr 50 M=FP_SC_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SLICE_MAP"
tr 50 M=FP_SLICE_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=FP_TCAM"
tr 50 M=FP_TCAM IS=min IE=max
echo " Done"
echo "tr 50 M=UDF_OFFSET"
tr 50 M=UDF_OFFSET IS=min IE=max
echo " Done"
echo "tr 50 M=IM_MTP_INDEX"
tr 50 M=IM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=ING_L3_NEXT_HOP"
tr 50 M=ING_L3_NEXT_HOP IS=min IE=max
echo " Done"
echo "tr 50 M=IPORT_TABLE"
tr 50 M=IPORT_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=L2MC"
tr 50 M=L2MC IS=min IE=max
echo " Done"
echo "tr 50 M=L2_ENTRY"
```

```
tr 50 M=L2_ENTRY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_ENTRY_ONLY"
tr 50 M=L2_ENTRY_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_HITDA_ONLY"
tr 50 M=L2_HITDA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_HITSA_ONLY"
tr 50 M=L2_HITSA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_MOD_FIFO"
tr 50 M=L2_MOD_FIFO IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY"
tr 50 M=L2_USER_ENTRY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY"
tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY_ONLY"
tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L3_TUNNEL"
tr 50 M=L3_TUNNEL IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_MAC_BLOCK"
tr 50 M=PORT_MAC_BLOCK IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 50 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=AGING_CTR"
tr 50 M=AGING_CTR IS=min IE=max
echo " Done"
echo "tr 50 M=AGING_EXP"
tr 50 M=AGING_EXP IS=min IE=max
echo " Done"
echo "tr 50 M=CBPCELLHEADER"
tr 50 M=CBPCELLHEADER IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA0"
tr 50 M=CBPDATA0 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA1"
```

```
tr 50 M=CBPDATA1 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA2"
tr 50 M=CBPDATA2 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA3"
tr 50 M=CBPDATA3 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA4"
tr 50 M=CBPDATA4 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA5"
tr 50 M=CBPDATA5 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA6"
tr 50 M=CBPDATA6 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA7"
tr 50 M=CBPDATA7 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPPKTHEADER0"
tr 50 M=CBPPKTHEADER0 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPPKTHEADER1"
tr 50 M=CBPPKTHEADER1 IS=min IE=max
echo " Done"
echo "tr 50 M=CCP"
tr 50 M=CCP IS=min IE=max
echo " Done"
echo "tr 50 M=CFAP"
tr 50 M=CFAP IS=min IE=max
echo " Done"
echo "tr 50 M=XQ0"
tr 50 M=XQ0 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ1"
tr 50 M=XQ1 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ2"
tr 50 M=XQ2 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ3"
tr 50 M=XQ3 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ4"
tr 50 M=XQ4 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ5"
```

```
tr 50 M=XQ5 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ6"
tr 50 M=XQ6 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ7"
tr 50 M=XQ7 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ8"
tr 50 M=XQ8 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ9"
tr 50 M=XQ9 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ10"
tr 50 M=XQ10 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ11"
tr 50 M=XQ11 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ12"
tr 50 M=XQ12 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ13"
tr 50 M=XQ13 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ14"
tr 50 M=XQ14 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ15"
tr 50 M=XQ15 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ16"
tr 50 M=XQ16 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ17"
tr 50 M=XQ17 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ18"
tr 50 M=XQ18 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ19"
tr 50 M=XQ19 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ20"
tr 50 M=XQ20 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ21"
```

```
tr 50 M=XQ21 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ22"
tr 50 M=XQ22 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ23"
tr 50 M=XQ23 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ24"
tr 50 M=XQ24 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ25"
tr 50 M=XQ25 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ26"
tr 50 M=XQ26 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ27"
tr 50 M=XQ27 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ28"
tr 50 M=XQ28 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ29"
tr 50 M=XQ29 IS=min IE=max
echo " Done"

if $?raptor '\
echo "tr 50 M=XQ30"; \
tr 50 M=XQ30 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=XQ31"; \
tr 50 M=XQ31 IS=min IE=max;  \
echo " Done"; \
echo "tr 50 M=XQ32";        \
tr 50 M=XQ32 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ33";        \
tr 50 M=XQ33 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ34";        \
tr 50 M=XQ34 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ35";        \
tr 50 M=XQ35 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ36";        \
tr 50 M=XQ36 IS=min IE=max;  \
```

```
echo " Done";              \
echo "tr 50 M=XQ37";       \
tr 50 M=XQ37 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ38";       \
tr 50 M=XQ38 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ39";       \
tr 50 M=XQ39 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ40";       \
tr 50 M=XQ40 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ41";       \
tr 50 M=XQ41 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ42";       \
tr 50 M=XQ42 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ43";       \
tr 50 M=XQ43 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ44";       \
tr 50 M=XQ44 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ45";       \
tr 50 M=XQ45 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ46";       \
tr 50 M=XQ46 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ47";       \
tr 50 M=XQ47 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ48";       \
tr 50 M=XQ48 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ49";       \
tr 50 M=XQ49 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ50";       \
tr 50 M=XQ50 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ51";       \
tr 50 M=XQ51 IS=min IE=max;  \
echo " Done";              \
echo "tr 50 M=XQ52";       \
tr 50 M=XQ52 IS=min IE=max;  \
```

```
echo " Done";                \
echo "tr 50 M=XQ53";         \
tr 50 M=XQ53 IS=min IE=max;  \
echo " Done";                \
'

echo "tr 50 M=MODPORT_MAP"
tr 50 M=MODPORT_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_EM"
tr 50 M=MODPORT_MAP_EM IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_IM"
tr 50 M=MODPORT_MAP_IM IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_SW"
tr 50 M=MODPORT_MAP_SW IS=min IE=max
echo " Done"
echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_COUNT_TABLE"
tr 50 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max
echo " Done"
echo "tr 50 M=PORT"
tr 50 M=PORT IS=min IE=max
echo " Done"
echo "tr 50 M=SOURCE_TRUNK_MAP"
tr 50 M=SOURCE_TRUNK_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=SRC_MODID_BLOCK"
tr 50 M=SRC_MODID_BLOCK IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_STG"
tr 50 M=VLAN_STG IS=min IE=max
echo " Done"
echo "tr 50 M=TRUNK_BITMAP"
tr 50 M=TRUNK_BITMAP IS=min IE=max
echo " Done"
echo "tr 50 M=TRUNK_GROUP"
tr 50 M=TRUNK_GROUP IS=min IE=max
echo " Done"
```

```
echo "tr 50 M=VLAN_MAC"
tr 50 M=VLAN_MAC IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_PROTOCOL"
tr 50 M=VLAN_PROTOCOL IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_PROTOCOL_DATA"
tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET"
tr 50 M=VLAN_SUBNET IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET_DATA_ONLY"
tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET_ONLY"
tr 50 M=VLAN_SUBNET_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN"
tr 50 M=VLAN IS=min IE=max
echo " Done"

if $?raven '\
echo "tr 50 M=EGR_PRI_CNG_MAP"; \
tr 50 M=EGR_PRI_CNG_MAP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE"; \
tr 50 M=EGR_VLAN_XLATE IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 50 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE_ONLY"; \
tr 50 M=EGR_VLAN_XLATE_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=IFP_PORT_FIELD_SEL"; \
tr 50 M=IFP_PORT_FIELD_SEL IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=ING_PRI_CNG_MAP"; \
tr 50 M=ING_PRI_CNG_MAP IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 ' \
echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=INITIAL_L3_ECMP"; \
```

```
tr 50 M=INITIAL_L3_ECMP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP"; \
tr 50 M=L3_DEFIP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_DATA_ONLY"; \
tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_HIT_ONLY"; \
tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_ONLY"; \
tr 50 M=L3_DEFIP_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ECMP"; \
tr 50 M=L3_ECMP IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 50 M=L3_ENTRY_HIT_ONLY"; \
tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV4_UNICAST"; \
tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV6_UNICAST"; \
tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_ONLY"; \
tr 50 M=L3_ENTRY_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_VALID_ONLY"; \
tr 50 M=L3_ENTRY_VALID_ONLY IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 50 M=L3_IPMC"; \
tr 50 M=L3_IPMC IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL0"; \
```

```
tr 50 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL1"; \
tr 50 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL2"; \
tr 50 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_VLAN_TBL"; \
tr 50 M=MMU_IPMC_VLAN_TBL IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_MAX_BUCKET_GPORT"; \
tr 50 M=MMU_MAX_BUCKET_GPORT IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_MIN_BUCKET_GPORT"; \
tr 50 M=MMU_MIN_BUCKET_GPORT IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_PROFILE_TAB"; \
tr 50 M=VLAN_PROFILE_TAB IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE"; \
tr 50 M=VLAN_XLATE IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE_DATA_ONLY"; \
tr 50 M=VLAN_XLATE_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE_ONLY"; \
tr 50 M=VLAN_XLATE_ONLY IS=min IE=max; \
echo " Done"; \
'

if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'
#echo "tr 51 M=BSAFE_CMD_DATA_IN"
#tr 51 M=BSAFE_CMD_DATA_IN IS=min IE=max ITER=1
#echo " Done"
#echo "tr 51 M=BSAFE_CMD_DATA_OUT"
#tr 51 M=BSAFE_CMD_DATA_OUT IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=DSCP_TABLE"
tr 51 M=DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_DSCP_ECN_MAP"
tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_DSCP_TABLE"
tr 51 M=EGR_DSCP_TABLE IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=EGR_EM_MTP_INDEX"
tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_IM_MTP_INDEX"
tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_IP_TUNNEL"
tr 51 M=EGR_IP_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_L3_INTF"
tr 51 M=EGR_L3_INTF IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_L3_NEXT_HOP"
tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGRESS_MASK"
tr 51 M=EGRESS_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_VLAN"
tr 51 M=EGR_VLAN IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_VLAN_STG"
tr 51 M=EGR_VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EM_MTP_INDEX"
tr 51 M=EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_COUNTER_TABLE"
tr 51 M=FP_COUNTER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_METER_TABLE"
tr 51 M=FP_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_POLICY_TABLE"
tr 51 M=FP_POLICY_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_PORT_FIELD_SEL"
tr 51 M=FP_PORT_FIELD_SEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_RANGE_CHECK"
tr 51 M=FP_RANGE_CHECK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_BCAST_METER_TABLE"
tr 51 M=FP_SC_BCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_DLF_METER_TABLE"
tr 51 M=FP_SC_DLF_METER_TABLE IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=FP_SC_MCAST_METER_TABLE"
tr 51 M=FP_SC_MCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_METER_TABLE"
tr 51 M=FP_SC_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "Skip FP_SLICE_MAP table (NOT TESTABLE)"
#echo "tr 51 M=FP_SLICE_MAP"
#tr 51 M=FP_SLICE_MAP IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=FP_TCAM"
tr 51 M=FP_TCAM IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=UDF_OFFSET"
tr 51 M=UDF_OFFSET IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=IM_MTP_INDEX"
tr 51 M=IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=ING_L3_NEXT_HOP"
tr 51 M=ING_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "Skip IPORT_TABLE table (NOT TESTABLE)"
#echo "tr 51 M=IPORT_TABLE"
#tr 51 M=IPORT_TABLE IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=L2MC"
tr 51 M=L2MC IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_ENTRY"
tr 51 M=L2_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_ENTRY_ONLY"
tr 51 M=L2_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_HITDA_ONLY"
tr 51 M=L2_HITDA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_HITSA_ONLY"
tr 51 M=L2_HITSA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_MOD_FIFO"
tr 51 M=L2_MOD_FIFO IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_USER_ENTRY"
tr 51 M=L2_USER_ENTRY IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY"
tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_USER_ENTRY_ONLY"
tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L3_TUNNEL"
tr 51 M=L3_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_MAC_BLOCK"
tr 51 M=PORT_MAC_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 51 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=AGING_CTR"
tr 51 M=AGING_CTR IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=AGING_EXP"
tr 51 M=AGING_EXP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPCELLHEADER"
tr 51 M=CBPCELLHEADER IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA0"
tr 51 M=CBPDATA0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA1"
tr 51 M=CBPDATA1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA2"
tr 51 M=CBPDATA2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA3"
tr 51 M=CBPDATA3 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA4"
tr 51 M=CBPDATA4 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA5"
tr 51 M=CBPDATA5 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA6"
tr 51 M=CBPDATA6 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=CBPDATA7"
tr 51 M=CBPDATA7 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPPKTHEADER0"
tr 51 M=CBPPKTHEADER0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPPKTHEADER1"
tr 51 M=CBPPKTHEADER1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CCP"
tr 51 M=CCP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CFAP"
tr 51 M=CFAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ0"
tr 51 M=XQ0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ1"
tr 51 M=XQ1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ2"
tr 51 M=XQ2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ3"
tr 51 M=XQ3 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ4"
tr 51 M=XQ4 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ5"
tr 51 M=XQ5 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ6"
tr 51 M=XQ6 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ7"
tr 51 M=XQ7 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ8"
tr 51 M=XQ8 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ9"
tr 51 M=XQ9 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ10"
tr 51 M=XQ10 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=XQ11"
tr 51 M=XQ11 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ12"
tr 51 M=XQ12 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ13"
tr 51 M=XQ13 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ14"
tr 51 M=XQ14 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ15"
tr 51 M=XQ15 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ16"
tr 51 M=XQ16 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ17"
tr 51 M=XQ17 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ18"
tr 51 M=XQ18 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ19"
tr 51 M=XQ19 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ20"
tr 51 M=XQ20 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ21"
tr 51 M=XQ21 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ22"
tr 51 M=XQ22 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ23"
tr 51 M=XQ23 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ24"
tr 51 M=XQ24 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ25"
tr 51 M=XQ25 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ26"
tr 51 M=XQ26 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=XQ27"
tr 51 M=XQ27 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ28"
tr 51 M=XQ28 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ29"
tr 51 M=XQ29 IS=min IE=max ITER=1
echo " Done"

if $?raptor ' \
echo "tr 51 M=XQ30";              \
tr 51 M=XQ30 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ31";              \
tr 51 M=XQ31 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ32";              \
tr 51 M=XQ32 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ33";              \
tr 51 M=XQ33 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ34";              \
tr 51 M=XQ34 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ35";              \
tr 51 M=XQ35 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ36";              \
tr 51 M=XQ36 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ37";              \
tr 51 M=XQ37 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ38";              \
tr 51 M=XQ38 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ39";              \
tr 51 M=XQ39 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ40";              \
tr 51 M=XQ40 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ41";              \
tr 51 M=XQ41 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ42";              \
```

```
tr 51 M=XQ42 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ43";             \
tr 51 M=XQ43 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ44";             \
tr 51 M=XQ44 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ45";             \
tr 51 M=XQ45 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ46";             \
tr 51 M=XQ46 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ47";             \
tr 51 M=XQ47 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ48";             \
tr 51 M=XQ48 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ49";             \
tr 51 M=XQ49 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ50";             \
tr 51 M=XQ50 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ51";             \
tr 51 M=XQ51 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ52";             \
tr 51 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                    \
echo "tr 51 M=XQ53";             \
tr 51 M=XQ53 IS=min IE=max ITER=1; \
echo " Done";                    \
'

echo "tr 51 M=MODPORT_MAP"
tr 51 M=MODPORT_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MODPORT_MAP_EM"
tr 51 M=MODPORT_MAP_EM IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MODPORT_MAP_IM"
tr 51 M=MODPORT_MAP_IM IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MODPORT_MAP_SW"
tr 51 M=MODPORT_MAP_SW IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_COUNT_TABLE"
tr 51 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT"
tr 51 M=PORT IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=SOURCE_TRUNK_MAP"
tr 51 M=SOURCE_TRUNK_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=SRC_MODID_BLOCK"
tr 51 M=SRC_MODID_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_STG"
tr 51 M=VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=TRUNK_BITMAP"
tr 51 M=TRUNK_BITMAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=TRUNK_GROUP"
tr 51 M=TRUNK_GROUP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_MAC"
tr 51 M=VLAN_MAC IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_PROTOCOL"
tr 51 M=VLAN_PROTOCOL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_PROTOCOL_DATA"
tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_SUBNET"
tr 51 M=VLAN_SUBNET IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_SUBNET_DATA_ONLY"
tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_SUBNET_ONLY"
tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=VLAN"
tr 51 M=VLAN IS=min IE=max ITER=1
echo " Done"

if $?raven '\
echo "tr 51 M=EGR_PRI_CNG_MAP"; \
tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE"; \
tr 51 M=EGR_VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 51 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE_ONLY"; \
tr 51 M=EGR_VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=IFP_PORT_FIELD_SEL"; \
tr 51 M=IFP_PORT_FIELD_SEL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=ING_PRI_CNG_MAP"; \
tr 51 M=ING_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=INITIAL_L3_ECMP"; \
tr 51 M=INITIAL_L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 ' \
echo "tr 51 M=L3_DEFIP"; \
tr 51 M=L3_DEFIP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_DATA_ONLY"; \
tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_HIT_ONLY"; \
tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_ONLY"; \
tr 51 M=L3_DEFIP_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ECMP"; \
tr 51 M=L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 51 M=L3_ENTRY_HIT_ONLY"; \
tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 51 M=L3_ENTRY_IPV4_UNICAST"; \
tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV6_UNICAST"; \
tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_ONLY"; \
tr 51 M=L3_ENTRY_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_VALID_ONLY"; \
tr 51 M=L3_ENTRY_VALID_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_IPMC"; \
tr 51 M=L3_IPMC IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_GROUP_TBL0"; \
tr 51 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_GROUP_TBL1"; \
tr 51 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 51 M=MMU_IPMC_GROUP_TBL2"; \
tr 51 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_VLAN_TBL"; \
tr 51 M=MMU_IPMC_VLAN_TBL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_MAX_BUCKET_GPORT"; \
tr 51 M=MMU_MAX_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_MIN_BUCKET_GPORT"; \
tr 51 M=MMU_MIN_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 51 M=VLAN_PROFILE_TAB"; \
tr 51 M=VLAN_PROFILE_TAB IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE"; \
tr 51 M=VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE_DATA_ONLY"; \
tr 51 M=VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE_ONLY"; \
tr 51 M=VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
'

if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'
#echo "tr 52 M=BSAFE_CMD_DATA_IN"
#tr 52 M=BSAFE_CMD_DATA_IN IS=min IE=max ITER=1
#echo " Done"
#echo "tr 52 M=BSAFE_CMD_DATA_OUT"
#tr 52 M=BSAFE_CMD_DATA_OUT IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=DSCP_TABLE"
tr 52 M=DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_DSCP_ECN_MAP"
tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_DSCP_TABLE"
tr 52 M=EGR_DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_EM_MTP_INDEX"
tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_IM_MTP_INDEX"
tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_IP_TUNNEL"
tr 52 M=EGR_IP_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_L3_INTF"
tr 52 M=EGR_L3_INTF IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_L3_NEXT_HOP"
tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGRESS_MASK"
```

```
tr 52 M=EGRESS_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_VLAN"
tr 52 M=EGR_VLAN IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_VLAN_STG"
tr 52 M=EGR_VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EM_MTP_INDEX"
tr 52 M=EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_COUNTER_TABLE"
tr 52 M=FP_COUNTER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_METER_TABLE"
tr 52 M=FP_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_POLICY_TABLE"
tr 52 M=FP_POLICY_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_PORT_FIELD_SEL"
tr 52 M=FP_PORT_FIELD_SEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_RANGE_CHECK"
tr 52 M=FP_RANGE_CHECK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_BCAST_METER_TABLE"
tr 52 M=FP_SC_BCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_DLF_METER_TABLE"
tr 52 M=FP_SC_DLF_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_MCAST_METER_TABLE"
tr 52 M=FP_SC_MCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_METER_TABLE"
tr 52 M=FP_SC_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "Skip FP_SLICE_MAP table (NOT TESTABLE)"
#echo "tr 52 M=FP_SLICE_MAP"
#tr 52 M=FP_SLICE_MAP IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=FP_TCAM"
tr 52 M=FP_TCAM IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=UDF_OFFSET"
tr 52 M=UDF_OFFSET IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 52 M=IM_MTP_INDEX"
tr 52 M=IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=ING_L3_NEXT_HOP"
tr 52 M=ING_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "Skip IPORT_TABLE table (NOT TESTABLE)"
#echo "tr 52 M=IPORT_TABLE"
#tr 52 M=IPORT_TABLE IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=L2MC"
tr 52 M=L2MC IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_ENTRY"
tr 52 M=L2_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_ENTRY_ONLY"
tr 52 M=L2_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_HITDA_ONLY"
tr 52 M=L2_HITDA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_HITSA_ONLY"
tr 52 M=L2_HITSA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_MOD_FIFO"
tr 52 M=L2_MOD_FIFO IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY"
tr 52 M=L2_USER_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY"
tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY_ONLY"
tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L3_TUNNEL"
tr 52 M=L3_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_MAC_BLOCK"
tr 52 M=PORT_MAC_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 52 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 52 M=AGING_CTR"
tr 52 M=AGING_CTR IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=AGING_EXP"
tr 52 M=AGING_EXP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPCELLHEADER"
tr 52 M=CBPCELLHEADER IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA0"
tr 52 M=CBPDATA0 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA1"
tr 52 M=CBPDATA1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA2"
tr 52 M=CBPDATA2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA3"
tr 52 M=CBPDATA3 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA4"
tr 52 M=CBPDATA4 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA5"
tr 52 M=CBPDATA5 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA6"
tr 52 M=CBPDATA6 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA7"
tr 52 M=CBPDATA7 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPPKTHEADER0"
tr 52 M=CBPPKTHEADER0 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPPKTHEADER1"
tr 52 M=CBPPKTHEADER1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CCP"
tr 52 M=CCP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CFAP"
tr 52 M=CFAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ0"
tr 52 M=XQ0 IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 52 M=XQ1"
tr 52 M=XQ1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ2"
tr 52 M=XQ2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ3"
tr 52 M=XQ3 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ4"
tr 52 M=XQ4 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ5"
tr 52 M=XQ5 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ6"
tr 52 M=XQ6 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ7"
tr 52 M=XQ7 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ8"
tr 52 M=XQ8 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ9"
tr 52 M=XQ9 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ10"
tr 52 M=XQ10 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ11"
tr 52 M=XQ11 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ12"
tr 52 M=XQ12 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ13"
tr 52 M=XQ13 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ14"
tr 52 M=XQ14 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ15"
tr 52 M=XQ15 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ16"
tr 52 M=XQ16 IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 52 M=XQ17"
tr 52 M=XQ17 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ18"
tr 52 M=XQ18 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ19"
tr 52 M=XQ19 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ20"
tr 52 M=XQ20 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ21"
tr 52 M=XQ21 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ22"
tr 52 M=XQ22 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ23"
tr 52 M=XQ23 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ24"
tr 52 M=XQ24 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ25"
tr 52 M=XQ25 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ26"
tr 52 M=XQ26 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ27"
tr 52 M=XQ27 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ28"
tr 52 M=XQ28 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ29"
tr 52 M=XQ29 IS=min IE=max ITER=1
echo " Done"

if $?raptor '\
echo "tr 52 M=XQ30";              \
tr 52 M=XQ30 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ31";              \
tr 52 M=XQ31 IS=min IE=max ITER=1; \
echo " Done";                     \
```

```
echo "tr 52 M=XQ32";              \
tr 52 M=XQ32 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ33";              \
tr 52 M=XQ33 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ34";              \
tr 52 M=XQ34 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ35";              \
tr 52 M=XQ35 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ36";              \
tr 52 M=XQ36 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ37";              \
tr 52 M=XQ37 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ38";              \
tr 52 M=XQ38 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ39";              \
tr 52 M=XQ39 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ40";              \
tr 52 M=XQ40 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ41";              \
tr 52 M=XQ41 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ42";              \
tr 52 M=XQ42 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ43";              \
tr 52 M=XQ43 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ44";              \
tr 52 M=XQ44 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ45";              \
tr 52 M=XQ45 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ46";              \
tr 52 M=XQ46 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ47";              \
tr 52 M=XQ47 IS=min IE=max ITER=1; \
echo " Done";                     \
```

```
echo "tr 52 M=XQ48";              \
tr 52 M=XQ48 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ49";              \
tr 52 M=XQ49 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ50";              \
tr 52 M=XQ50 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ52";              \
tr 52 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ52";              \
tr 52 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ53";              \
tr 52 M=XQ53 IS=min IE=max ITER=1; \
echo " Done";                     \
'

echo "tr 52 M=MODPORT_MAP"
tr 52 M=MODPORT_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_EM"
tr 52 M=MODPORT_MAP_EM IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_IM"
tr 52 M=MODPORT_MAP_IM IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_SW"
tr 52 M=MODPORT_MAP_SW IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_COUNT_TABLE"
tr 52 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT"
tr 52 M=PORT IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=SOURCE_TRUNK_MAP"
```

```
tr 52 M=SOURCE_TRUNK_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=SRC_MODID_BLOCK"
tr 52 M=SRC_MODID_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_STG"
tr 52 M=VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=TRUNK_BITMAP"
tr 52 M=TRUNK_BITMAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=TRUNK_GROUP"
tr 52 M=TRUNK_GROUP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_MAC"
tr 52 M=VLAN_MAC IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_PROTOCOL"
tr 52 M=VLAN_PROTOCOL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_PROTOCOL_DATA"
tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET"
tr 52 M=VLAN_SUBNET IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET_DATA_ONLY"
tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET_ONLY"
tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN"
tr 52 M=VLAN IS=min IE=max ITER=1
echo " Done"

if $?raven '\
echo "tr 52 M=EGR_PRI_CNG_MAP"; \
tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=EGR_VLAN_XLATE"; \
tr 52 M=EGR_VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 52 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=EGR_VLAN_XLATE_ONLY"; \
tr 52 M=EGR_VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
```

```
echo " Done"; \
echo "tr 52 M=IFP_PORT_FIELD_SEL"; \
tr 52 M=IFP_PORT_FIELD_SEL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=ING_PRI_CNG_MAP"; \
tr 52 M=ING_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=INITIAL_L3_ECMP"; \
tr 52 M=INITIAL_L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP"; \
tr 52 M=L3_DEFIP IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 52 M=L3_DEFIP_DATA_ONLY"; \
tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP_HIT_ONLY"; \
tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP_ONLY"; \
tr 52 M=L3_DEFIP_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ECMP"; \
tr 52 M=L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_HIT_ONLY"; \
tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV4_UNICAST"; \
tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV6_UNICAST"; \
tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_ONLY"; \
tr 52 M=L3_ENTRY_ONLY IS=min IE=max ITER=1; \
```

```
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 '\
echo "tr 52 M=L3_ENTRY_VALID_ONLY"; \
tr 52 M=L3_ENTRY_VALID_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_IPMC"; \
tr 52 M=L3_IPMC IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL0"; \
tr 52 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL1"; \
tr 52 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL2"; \
tr 52 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_VLAN_TBL"; \
tr 52 M=MMU_IPMC_VLAN_TBL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_MAX_BUCKET_GPORT"; \
tr 52 M=MMU_MAX_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_MIN_BUCKET_GPORT"; \
tr 52 M=MMU_MIN_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_PROFILE_TAB"; \
tr 52 M=VLAN_PROFILE_TAB IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE"; \
tr 52 M=VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE_DATA_ONLY"; \
tr 52 M=VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE_ONLY"; \
tr 52 M=VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
'

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'
#echo "tr 71 M=BSAFE_CMD_DATA_IN"
```

```
#tr 71 M=BSAFE_CMD_DATA_IN S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

#echo "    Done"
#echo "tr 71 M=BSAFE_CMD_DATA_OUT"
#tr 71 M=BSAFE_CMD_DATA_OUT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

#echo "    Done"
echo "tr 71 M=DSCP_TABLE"
tr 71 M=DSCP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_DSCP_ECN_MAP"
tr 71 M=EGR_DSCP_ECN_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_DSCP_TABLE"
tr 71 M=EGR_DSCP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_EM_MTP_INDEX"
tr 71 M=EGR_EM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_IM_MTP_INDEX"
tr 71 M=EGR_IM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_IP_TUNNEL"
tr 71 M=EGR_IP_TUNNEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_L3_INTF"
tr 71 M=EGR_L3_INTF S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_L3_NEXT_HOP"
tr 71 M=EGR_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGRESS_MASK"
tr 71 M=EGRESS_MASK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_VLAN"
tr 71 M=EGR_VLAN S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EGR_VLAN_STG"
```

```
tr 71 M=EGR_VLAN_STG S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=EM_MTP_INDEX"
tr 71 M=EM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_COUNTER_TABLE"
tr 71 M=FP_COUNTER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_METER_TABLE"
tr 71 M=FP_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_POLICY_TABLE"
tr 71 M=FP_POLICY_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_PORT_FIELD_SEL"
tr 71 M=FP_PORT_FIELD_SEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_RANGE_CHECK"
tr 71 M=FP_RANGE_CHECK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_SC_BCAST_METER_TABLE"
tr 71 M=FP_SC_BCAST_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_SC_DLF_METER_TABLE"
tr 71 M=FP_SC_DLF_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_SC_MCAST_METER_TABLE"
tr 71 M=FP_SC_MCAST_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=FP_SC_METER_TABLE"
tr 71 M=FP_SC_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"

echo "tr 71 M=FP_SLICE_MAP"
tr 71 M=FP_SLICE_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=FP_TCAM"
tr 71 M=FP_TCAM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=UDF_OFFSET"
tr 71 M=UDF_OFFSET S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=IM_MTP_INDEX"
tr 71 M=IM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=ING_L3_NEXT_HOP"
tr 71 M=ING_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=IPORT_TABLE"
tr 71 M=IPORT_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2MC"
tr 71 M=L2MC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_ENTRY"
tr 71 M=L2_ENTRY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_ENTRY_ONLY"
tr 71 M=L2_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_HITDA_ONLY"
tr 71 M=L2_HITDA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_HITSA_ONLY"
tr 71 M=L2_HITSA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_MOD_FIFO"
tr 71 M=L2_MOD_FIFO S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_USER_ENTRY"
tr 71 M=L2_USER_ENTRY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY"
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L2_USER_ENTRY_ONLY"
tr 71 M=L2_USER_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=L3_TUNNEL"
tr 71 M=L3_TUNNEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=PORT_MAC_BLOCK"
tr 71 M=PORT_MAC_BLOCK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 71 M=MAC_LIMIT_PORT_MAP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 71 M=MAC_LIMIT_TRUNK_MAP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=AGING_CTR"
tr 71 M=AGING_CTR S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=AGING_EXP"
tr 71 M=AGING_EXP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPCELLHEADER"
tr 71 M=CBPCELLHEADER S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA0"
tr 71 M=CBPDATA0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA1"
tr 71 M=CBPDATA1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA2"
tr 71 M=CBPDATA2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=CBPDATA3"
tr 71 M=CBPDATA3 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA4"
tr 71 M=CBPDATA4 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA5"
tr 71 M=CBPDATA5 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA6"
tr 71 M=CBPDATA6 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPDATA7"
tr 71 M=CBPDATA7 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPPKTHEADER0"
tr 71 M=CBPPKTHEADER0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CBPPKTHEADER1"
tr 71 M=CBPPKTHEADER1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CCP"
tr 71 M=CCP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=CFAP"
tr 71 M=CFAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ0"
tr 71 M=XQ0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ1"
tr 71 M=XQ1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ2"
tr 71 M=XQ2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=XQ3"
tr 71 M=XQ3 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ4"
tr 71 M=XQ4 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ5"
tr 71 M=XQ5 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ6"
tr 71 M=XQ6 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ7"
tr 71 M=XQ7 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ8"
tr 71 M=XQ8 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ9"
tr 71 M=XQ9 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ10"
tr 71 M=XQ10 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ11"
tr 71 M=XQ11 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ12"
tr 71 M=XQ12 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ13"
tr 71 M=XQ13 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ14"
tr 71 M=XQ14 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=XQ15"
tr 71 M=XQ15 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ16"
tr 71 M=XQ16 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ17"
tr 71 M=XQ17 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ18"
tr 71 M=XQ18 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ19"
tr 71 M=XQ19 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ20"
tr 71 M=XQ20 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ21"
tr 71 M=XQ21 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ22"
tr 71 M=XQ22 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ23"
tr 71 M=XQ23 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ24"
tr 71 M=XQ24 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ25"
tr 71 M=XQ25 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ26"
tr 71 M=XQ26 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
```

```
echo "tr 71 M=XQ27"
tr 71 M=XQ27 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ28"
tr 71 M=XQ28 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=XQ29"
tr 71 M=XQ29 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

if $?raptor '\
echo "    Done"; \
echo "tr 71 M=XQ30"; \
tr 71 M=XQ30 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ31"; \
tr 71 M=XQ31 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ32"; \
tr 71 M=XQ32 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ33"; \
tr 71 M=XQ33 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ34"; \
tr 71 M=XQ34 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ35"; \
tr 71 M=XQ35 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ36"; \
tr 71 M=XQ36 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ37"; \
tr 71 M=XQ37 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ38"; \
tr 71 M=XQ38 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ39"; \
tr 71 M=XQ39 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ40"; \
tr 71 M=XQ40 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ41"; \
tr 71 M=XQ41 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
```

```
echo "    Done"; \
echo "tr 71 M=XQ42"; \
tr 71 M=XQ42 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ43"; \
tr 71 M=XQ43 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ44"; \
tr 71 M=XQ44 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ45"; \
tr 71 M=XQ45 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ46"; \
tr 71 M=XQ46 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ47"; \
tr 71 M=XQ47 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ48"; \
tr 71 M=XQ48 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ49"; \
tr 71 M=XQ49 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ50"; \
tr 71 M=XQ50 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ51"; \
tr 71 M=XQ51 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ52"; \
tr 71 M=XQ52 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=XQ53"; \
tr 71 M=XQ53 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
'
echo "    Done"
echo "tr 71 M=MODPORT_MAP"
tr 71 M=MODPORT_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=MODPORT_MAP_EM"
tr 71 M=MODPORT_MAP_EM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=MODPORT_MAP_IM"
tr 71 M=MODPORT_MAP_IM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True
```

```
echo "    Done"
echo "tr 71 M=MODPORT_MAP_SW"
tr 71 M=MODPORT_MAP_SW S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=MAC_LIMIT_COUNT_TABLE"
tr 71 M=MAC_LIMIT_COUNT_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=PORT"
tr 71 M=PORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=SOURCE_TRUNK_MAP"
tr 71 M=SOURCE_TRUNK_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=SRC_MODID_BLOCK"
tr 71 M=SRC_MODID_BLOCK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_STG"
tr 71 M=VLAN_STG S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=TRUNK_BITMAP"
tr 71 M=TRUNK_BITMAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=TRUNK_GROUP"
tr 71 M=TRUNK_GROUP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_MAC"
tr 71 M=VLAN_MAC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True
```

```
echo "    Done"
echo "tr 71 M=VLAN_PROTOCOL"
tr 71 M=VLAN_PROTOCOL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_PROTOCOL_DATA"
tr 71 M=VLAN_PROTOCOL_DATA S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_SUBNET"
tr 71 M=VLAN_SUBNET S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_SUBNET_DATA_ONLY"
tr 71 M=VLAN_SUBNET_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN_SUBNET_ONLY"
tr 71 M=VLAN_SUBNET_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"
echo "tr 71 M=VLAN"
tr 71 M=VLAN S=-1 C=-1 readonlymemVerifyCount=1 TSE=True

echo "    Done"

if $?raven ' \
echo "tr 71 M=EGR_PRI_CNG_MAP"; \
tr 71 M=EGR_PRI_CNG_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=EGR_VLAN_XLATE"; \
tr 71 M=EGR_VLAN_XLATE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=EGR_VLAN_XLATE_ONLY"; \
tr 71 M=EGR_VLAN_XLATE_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=IFP_PORT_FIELD_SEL"; \
tr 71 M=IFP_PORT_FIELD_SEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=ING_PRI_CNG_MAP"; \
tr 71 M=ING_PRI_CNG_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
```

```
echo "    Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 ' \
echo "tr 71 M=INITIAL_L3_ECMP"; \
tr 71 M=INITIAL_L3_ECMP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_DEFIP"; \
tr 71 M=L3_DEFIP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_DEFIP_DATA_ONLY"; \
tr 71 M=L3_DEFIP_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_DEFIP_HIT_ONLY"; \
tr 71 M=L3_DEFIP_HIT_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_DEFIP_ONLY"; \
tr 71 M=L3_DEFIP_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ECMP"; \
tr 71 M=L3_ECMP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_HIT_ONLY"; \
tr 71 M=L3_ENTRY_HIT_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_IPV4_UNICAST"; \
tr 71 M=L3_ENTRY_IPV4_UNICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 ' \
echo "tr 71 M=L3_ENTRY_IPV6_UNICAST"; \
tr 71 M=L3_ENTRY_IPV6_UNICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_ONLY"; \
tr 71 M=L3_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_ENTRY_VALID_ONLY"; \
tr 71 M=L3_ENTRY_VALID_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=L3_IPMC"; \
tr 71 M=L3_IPMC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
```

```
echo "    Done"; \
echo "tr 71 M=MMU_IPMC_GROUP_TBL0"; \
tr 71 M=MMU_IPMC_GROUP_TBL0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=MMU_IPMC_GROUP_TBL1"; \
tr 71 M=MMU_IPMC_GROUP_TBL1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=MMU_IPMC_GROUP_TBL2"; \
tr 71 M=MMU_IPMC_GROUP_TBL2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0 ' \
echo "tr 71 M=MMU_IPMC_VLAN_TBL"; \
tr 71 M=MMU_IPMC_VLAN_TBL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=MMU_MAX_BUCKET_GPORT"; \
tr 71 M=MMU_MAX_BUCKET_GPORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=MMU_MIN_BUCKET_GPORT"; \
tr 71 M=MMU_MIN_BUCKET_GPORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=VLAN_PROFILE_TAB"; \
tr 71 M=VLAN_PROFILE_TAB S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=VLAN_XLATE"; \
tr 71 M=VLAN_XLATE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=VLAN_XLATE_DATA_ONLY"; \
tr 71 M=VLAN_XLATE_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
echo "tr 71 M=VLAN_XLATE_ONLY"; \
tr 71 M=VLAN_XLATE_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True; \
echo "    Done"; \
'

echo "tr 50/51/52/71 M=FP_SLICE_ENTRY_PORT_SEL"
if !$?BCM537XX ' \
  echo "tr 50"; tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max         ; \
  echo "tr 51"; tr 51 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max ITER=1   ; \
  echo "tr 52"; tr 52 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max ITER=1   ; \
  echo "tr 71"; tr 71 M=FP_SLICE_ENTRY_PORT_SEL S=-1 C=-1 VC=1 TSE=True; \
  local ix_incr 432                                          ; \
'
if $?BCM537XX ' \
  tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=0 IE=max II=8 ; \
  tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=1 IE=max II=8 ; \
  tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=2 IE=max II=8 ; \
```

```
   tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=3 IE=max II=8 ; \
   local ix_incr 8                              ; \
'
if $?raptor 'local max_idx 431'
if $?raven 'local max_idx 479'

for ix_min=0,$max_idx,$ix_incr '                                  \
   expr $ix_min + 3;local ix_max $?                             ; \
   tr 51 M=FP_SLICE_ENTRY_PORT_SEL IS=$ix_min IE=$ix_max ITER=1    ; \
   tr 52 M=FP_SLICE_ENTRY_PORT_SEL IS=$ix_min IE=$ix_max ITER=1    ; \
   tr 71 M=FP_SLICE_ENTRY_PORT_SEL S=$ix_min C=4 VC=1 TSE=True     ; \
'
echo " Done"

if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'
#echo "Running BSAFE Self test"
#tr 65
#$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
```

```
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

if $?raven '\
echo "Running IPV4 overflow insert test ..."; \
tr 87 IPMCEnable=False; \
tr 87 IPMCEnable=True; \
$done; \
echo "Running IPV4 hash test ..."; \
tr 88 IPMCEnable=False; \
tr 88 IPMCEnable=True; \
$done; \
echo "Running IPV6 overflow insert test ..."; \
tr 85 IPMCEnable=False; \
tr 85 IPMCEnable=True; \
$done; \
echo "Running IPV6 hash test ..."; \
tr 86 IPMCEnable=False; \
tr 86 IPMCEnable=True; \
$done; \
'

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed
rcload rc.soc

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done
```

```
#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s $lbpbm ports"
tr 18 pbm=$lbpbm speed=10

echo "Testing MAC Loopback - 100 Mb/s $lbpbm ports"
tr 18 pbm=$lbpbm speed=100

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000

echo "Testing MAC Loopback - MAX speed $st_lbpbm ports"
tr 18 pbm=$st_lbpbm speed=max

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s  $lbpbm ports"
tr 19 pbm=$lbpbm speed=10

echo "Testing PHY Loopback - 100 Mb/s $lbpbm ports"
tr 19 pbm=$lbpbm speed=100

echo "Testing PHY Loopback - 1000 Mb/s ge ports"
tr 19 pbm=$phyge_lbpbm speed=1000

echo "Testing PHY Loopback - MAX speed $st_lbpbm ports"
tr 19 pbm=$st_lbpbm speed=max

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=$tr72_lbpbm
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array PBM=$tr72_lbpbm

#Traffic Test
rcload rc.soc
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=$tr72_lbpbm speed=max
$done
```

```
echo "Running Traffic Test in PHY mode (MAX speed)..."
rcload rc.soc
tr 72 RM=PHY PBM=$tr72_lbpbm speed=max
$done

echo "Running Traffic Test in PHY mode (10Mbps)..."
rcload rc.soc
tr 72 RM=PHY pbm=$lbpbm speed=10
$done

echo "Running Traffic Test in PHY mode (100Mbps)..."
rcload rc.soc
tr 72 RM=PHY pbm=$lbpbm speed=100
$done

echo "SNMP MIB Object Test"
rcload rc.soc
tr 73

#External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10, 11-12
#       13-14, 15-16, 17-18, 19-20, 21-22 23-24
#       25-26, 27-28
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv ext2500 1
# or
#       setenv extall  1
#External Loopback on GE port
local fwd 0x002aaaaaaaaaaaa
local bwd 0x0015555555555554

if $?extall \
      "local ext10 1; local ext100 1; local ext1000 1; local ext2500 1"

if $?ext10 \
      "echo Testing External Loopback - 10 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=10 count=10; \
       echo Testing External Loopback - 10 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
      "echo Testing External Loopback - 100 MB/s forward; \
```

```
            tr 20 tpbm=$fwd di=1 speed=100 count=10; \
        echo Testing External Loopback - 100 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if $?ext1000 \
        "echo Testing External Loopback - 1000 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
        echo Testing External Loopback - 1000 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/rsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: board.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board.h
* Purpose:     Board driver interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/board.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txit.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_unit/txit.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    signaling.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_signaled_unicast_master_add
*     bcm_common_ptp_signaled_unicast_master_remove
*     bcm_common_ptp_signaled_unicast_slave_list
*     bcm_common_ptp_signaled_unicast_slave_table_clear
*     bcm_common_ptp_unicast_request_duration_get
*     bcm_common_ptp_unicast_request_duration_set
*     bcm_common_ptp_unicast_request_duration_min_get
*     bcm_common_ptp_unicast_request_duration_min_set
*     bcm_common_ptp_unicast_request_duration_max_get
*     bcm_common_ptp_unicast_request_duration_max_set
*
*     _bcm_ptp_register_signaling_arbiter
*     _bcm_ptp_unregister_signaling_arbiter
*     _bcm_ptp_signaling_init
*     _bcm_ptp_signaling_manager
*     _bcm_ptp_signaled_unicast_master_table_init
*     _bcm_ptp_signaled_unicast_master_table_reset
*     _bcm_ptp_signaled_unicast_slave_table_init
*     _bcm_ptp_signaled_unicast_slave_table_reset
*     _bcm_ptp_signaled_unicast_slave_exists
```

```
*     _bcm_ptp_signaled_unicast_slave_add
*     _bcm_ptp_signaled_unicast_slave_remove
*     _bcm_ptp_signaled_unicast_slave_expire
*     _bcm_ptp_signaled_unicast_slave_table_update
*     send_unicast_request
*     _bcm_ptp_master_active_service_cancel
*     _bcm_ptp_master_active_service_ack_cancel
*     _bcm_ptp_slave_signaling_send
*     send_pending_signaling_to_masters
*     _bcm_ptp_slave_signaling_request_deny
*     _bcm_ptp_slave_signaling_gateway
*     _bcm_ptp_parse_signaling_message
*     _bcm_ptp_make_peer_from_signaling_msg
*     _bcm_ptp_process_incoming_signaling_msg
*     delayed_master_table_update
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/signaling.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****
*****************************************************************************************
*****
*                                                                                       *
*  Revision      :  $Id: eagle_merlin_api_uc_vars_rdwr_defns.h 661 2014-08-14 23:20:49Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables      *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/eagle_merlin_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2cache.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 Cache - Layer 2 BPDU and overflow address cache
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/l2cache.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_flash.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_flash.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_multicast_fabric.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/legacy/ARAD/arad_api_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_b.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_b.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    stack.c
* Purpose: This file manages MODPORT_MAP_SW table in Trident.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmds.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     cmds.c
* Purpose:  Other BCMX CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/cmds.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_sim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sw_state_def_init_indexes.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_def_init_indexes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_multicast_id_map.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF MULTICAST ID MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/dnxf_multicast_id_map.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_c.stg,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cop.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_cop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_patch_database.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dcmn_patch_database.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/dcmn_patch_database.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trill.c,v 1.89 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Layer 2 Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: board.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board.c
* Purpose:     High level board system API
*
* These APIs are intended to be called by SDK applications
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/manager/board.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry poit for Crash Recovery feature
*
* some design details:
* - transaction starts at the beginning of an API and ends at the end of an API
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_crash_recovery.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_crash_recovery.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_sbusdma_desc.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_sbusdma_desc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_occupation_bitmap.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*********************************************************************
* NAME:
*     soc_sand_occ_bm_tests
* TYPE:
*   PROC
```

```
* DATE:
*   Mar  6 2008
* FUNCTION:
*     Tests the bit map module
*
*INPUT:
*   SOC_SAND_IN  int    unit -
*     Identifier of the device to access.
*  SOC_SAND_DIRECT:
*    SOC_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  SOC_SAND_INDIRECT:
*    None.
*OUTPUT:
*  SOC_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  SOC_SAND_INDIRECT:
*    NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_occupation_bitmap.h
No license file was found, but licenses were detected in source scan.

```
/*  Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.                    */
/*  All Rights Reserved                                                              */
/*  company private proprietary, and trade secret.                                   */
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_dependencies.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etu_xpt.c,v 1.4 Broadcom SDK $
* File:  etu_xpt.c
* Purpose:  XPT driver for Caladan3 External TCAM
*          Interfaces to the KBP layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/etu/etu_xpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implements ESW NIV APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/niv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cfe_api.h,v 1.3 2011/07/21 16:14:24 yshtil Exp $
* Copyright 2000, 2001, 2002
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license and may be used and copied only
* in accordance with the following terms and conditions.  Subject to these
* conditions, you may download, copy, install, use, modify and distribute
* modified or unmodified copies of this software in source and/or binary
* form. No title or ownership is transferred hereby.
*
* 1) Any source code used, modified or distributed must reproduce and
*    retain this copyright notice and list of conditions as they appear in
*    the source file.
*
* 2) No right is granted to use any trade name, trademark, or logo of
*    Broadcom Corporation.  The "Broadcom Corporation" name may not be
*    used to endorse or promote products derived from this software
*    without the prior written permission of Broadcom Corporation.
*
* 3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR IMPLIED
```

```
*    WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF
*    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
*    NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL BROADCOM BE LIABLE
*    FOR ANY DAMAGES WHATSOEVER, AND IN PARTICULAR, BROADCOM SHALL NOT BE
*    LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
*    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
*    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
*    BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
*    WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
*    OR OTHERWISE), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/cfe_api.h
No license file was found, but licenses were detected in source scan.

```
#$Id: Sathish Krishnamachari$
#$Copyright: (c) 2014 Broadcom Corporation.
#All Rights Reserved.$
#
#File: trall_bcm56833_a0.soc
#Purpose: Tests all memories on BCM56867.
#    tr50 - Memory Fill/Verify
#    tr51 - Memory Random Addr/Data
#    tr52 - Rand Mem Addr, write all
#    tr71 - Table DMA

echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;   $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_FLOWSET_X;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;     $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;     $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;     $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;     $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;     $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;     $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;     $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;     $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;     $name; $tr50; $tr51; $tr52;
```

```
local mem MPLS_ENTRY;                                   $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                                   $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                                   $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                                   $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                                   $name; $tr50;
local mem CPU_PBM_2;                                   $name; $tr50;
local mem CPU_TS_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                                   $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                                   $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                                   $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                                   $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                                   $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                                   $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                                   $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;                                   $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                                   $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                                   $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                                   $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                                   $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                                   $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                                   $name; $tr50; $tr51; $tr52;
```

```
local mem EFP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                  $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                  $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                           $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                        $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;            $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                   $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                     $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                  $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                  $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                   $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                         $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;               $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_FCOE_CONTROL_1;          $name; $tr50;
#n/a - local mem EGR_FC_HEADER_TYPE;          $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;           $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;           $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;           $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;               $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;              $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;            $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;            $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                 $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;         $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                   $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                       $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                           $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_IPMC_CFG2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;               $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;               $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                      $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                  $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                $name; $tr50; $tr51; $tr52;
#n/a local mem EGR_LPORT_PROFILE;           $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;            $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;               $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                       $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                         $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                 $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;         $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;          $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;          $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;             $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;           $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;           $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;           $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;           $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;         $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;             $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                          $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;  $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                   $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;              $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;      $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;            $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;          $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;          $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;     $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;    $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                  $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                         $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                       $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;            $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                  $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;             $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;           $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;           $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;        $name; $tr50;
#local mem EGR_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;              $name; $tr50; $tr51; $tr52;
#n/a local mem EGR_SUBPORT_TAG_DOT1P_MAP;   $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;   $name; $tr50;
```

```
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr50;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                    $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                    $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;     $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                     $name; $tr50; $tr51; $tr52;
#n/a - local mem FCOE_HOP_COUNT_FN;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                       $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                       $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                     $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                             $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                     $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                         $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                        $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                        $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                           $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                     $name; $tr50;
local mem FP_SLICE_MAP;                             $name; $tr50;
local mem FP_STORM_CONTROL_METERS;                  $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;                $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;                $name; $tr50; $tr51; $tr52;
```

```
local mem FP_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                          $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;                 $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                           $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                          $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                      $name; $tr50;
local mem IARB_ING_PORT_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                            $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                          $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                          $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                   $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                              $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                  $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                           $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                             $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                     $name; $tr50;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;             $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                            $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                    $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                     $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_FC_HEADER_TYPE;                $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;          $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;          $name; $tr50; $tr51; $tr52;
```

```
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                            $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                     $name; $tr50;
local mem ING_L3_NEXT_HOP;                                  $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                                $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                             $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                                  $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                              $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                            $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                            $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                       $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                                  $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT;                                  $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY;                         $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                       $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                       $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_ONLY;                             $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                   $name; $tr50;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;           $name; $tr50;
local mem ING_UNTAGGED_PHB;                                 $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VFT_PRI_MAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                                   $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                      $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                          $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                           $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                  $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                  $name; $tr50; $tr51; $tr52;
```

```
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VSAN;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                    $name; $tr50;
local mem L2_BULK_MATCH_MASK;                    $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr50;
local mem L2_ENDPOINT_ID;                    $name; $tr50; $tr51; $tr52;
local mem L2X;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr50;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
```

```
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                    $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                    $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData48;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CFAP_BANK11;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_MCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;            $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr50;
#local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr50; $tr51; $tr52;
```

```
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                    $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_DROPS;                    $name; $tr50;
local mem RH_ECMP_DROPS_X;                    $name; $tr50;
local mem RH_ECMP_DROPS_Y;                    $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                    $name; $tr50;
local mem RH_LAG_DROPS_X;                    $name; $tr50;
local mem RH_LAG_DROPS_Y;                    $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                    $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                    $name; $tr50;
local mem SER_RESULT_1;                    $name; $tr50;
local mem SER_RESULT_DATA_0;                    $name; $tr50;
local mem SER_RESULT_DATA_1;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                    $name; $tr50; $tr51; $tr52;
```

```
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr50; $tr51; $tr52;
#n/a local mem SUBPORT_TAG_SGPP_MAP;                  $name; $tr50; $tr51; $tr52;
#n/a local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                $name; $tr50; $tr51;
$tr52;
#n/a local mem SUBPORT_TAG_SGPP_MAP_ONLY;                $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                    $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                    $name; $tr50;
local mem TRILL_DROP_STATS_X;                    $name; $tr50;
local mem TRILL_DROP_STATS_Y;                    $name; $tr50;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                    $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VRF;                    $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem MAID_REDUCTION;                                  $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                                  $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                                  $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                                  $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;                                  $name; $tr50; $tr51; $tr52;
#local mem RMEP;                                  $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                                  $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                                  $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                                  $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                                  $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FCOE_CONTROL_1;            $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FC_HEADER_TYPE;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_IP_TUNNEL_MPLS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1; $name; $tr71_1; $tr71_2; $tr71_3;
#n/a local mem EGR_LPORT_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU; $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO; $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
#n/a local mem EGR_SUBPORT_TAG_DOT1P_MAP; $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a -local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;        $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;        $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FC_MAP_PROFILE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM_X;                      $name; #$tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM_Y;                      $name; #$tr71_1; $tr71_2; $tr71_3;
#local mem FP_GM_FIELDS;                               $name; #$tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_TCAM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_FC_HEADER_TYPE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;           $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_MOD_MAP_TABLE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_Y;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_DATA_ONLY;                                        $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY;                                         $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                                       $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                                       $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_ONLY;                                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                                   $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                                       $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_VFT_PRI_MAP;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                                          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                                           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                                           $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem ING_VSAN;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                                  $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                          $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                        $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                            $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                     $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                       $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                  $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                      $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                   $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                  $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                 $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                       $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData11;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData55;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CFAP_BANK19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;              $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;           $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;             $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDU_YPIPE_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                   $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                   $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                  $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem PORT_BRIDGE_MIRROR_BMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB; $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH; $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a local mem SUBPORT_TAG_SGPP_MAP;                  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a local mem SUBPORT_TAG_SGPP_MAP_ONLY;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;            $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-------------------------------------------------------------
#local mem EDB_1DBG_B;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;   $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56833_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    failover.c
* Purpose: Handle TH2 specific failover APIs
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*            [BSC] - Broadcom Serical Control (I2C constroller)
*              |
*      ==========O=======o=====================o========== I2C bus
*                  |                 |
*               [pca9548 - 8-port mux]  [at24c64 - serial eeprom]
*                |||||||
*         [  SFP ]  -  |||||||
*          [  SFP  ]  -  ||||||-- [ SFP ]
*           [  SFP  ]   -  ||||
*            [  SFP  ]   -  ||---[ SPF ]
*             [  SFP  ]   -   - [  SFP  ]
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bsc_sfp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memreg.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/memreg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switchctl.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Switch Control commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/switchctl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drvtypes.h,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* this header file defines types used in driver services.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/drvtypes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr_cosq.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_cosq.h
* Purpose:    Resource allocation for cosq.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_cosq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/alloc_mngr_cosq.h
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# ARDON (BCM88202) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*

#Clear test statistics
tc *

#Display some useful information
date

#minimalrun flag - is raised for pre  commit regression
#shortrun   flag - is raised for post commit regression
#no flag         - for SJ/nightly regression

#local shortrun 1
#echo "shortrun $shortrun"
#local minimalrun 1
#echo "minimalrun $minimalrun"

##########################################################################

#Start Test
echo "Running tr 141"
if !$?minimalrun && !$?shortrun " \
  tr 141 r=20" \
else "\
  tr 141 r=1"
$done

if $?shortrun " \
  echo 'Running tr 141 NoAttach=1'; \
  tr 141 NoAttach=1; \
  echo '   Done';date"

if $?shortrun " \
  echo 'Running: tr 141 NoInit=1 , than: tr 141 NoDenit=1'; \
  tr 141 NoInit=1 NoAttach=1; \
  tr 141 NoDeinit=1 NoAttach=1; \
  echo '   Done';date"

if $?minimalrun " \
  echo 'Running: tr 153 m=EGQ_VLAN_TABLE, EGQ_VLAN_TABLE, IQM_OCBPRM, IHP_TOS_2_COS,
CFC_NIF_SHR_MAP, EGQ_DSP_PTR_MAP '; \
```

```
  tr 153 m=EGQ_VLAN_TABLE; \
  tr 153 m=IQM_OCBPRM; \
  tr 153 m=IHP_TOS_2_COS; \
  tr 153 m=CFC_NIF_SHR_MAP; \
  tr 153 m=EGQ_DSP_PTR_MAP; \
  echo '   Done';date"

### CPU Packet (tr 40)
# Dont use fabric
if !$?minimalrun " \
  s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1"

# Port 0 -> static forwarding to port 0exit
if !$?minimalrun " \
  mod IHP_PINFO_LLR 0 1 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7; \
  mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x40063
FWD_ACT_DESTINATION_OVERWRITE=1; \
  s CMIC_CMC0_CH1_COS_CTRL_RX_0 0xffffffff; \
  s CMIC_CMC0_CH1_COS_CTRL_RX_1 0xffffffff"

if !$?minimalrun " \
  echo 'Send packet (tr 40)...'; \
  tr 40 Tagged=true LengthStart=128 LengthEnd=164 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:0c:00:01:00:00 MacSrc=00:00:00:e3:00:00 UseFile=false; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'Running PCI Compliance (tr 2)...'; \
  tr 2; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'Running PCI S-Channel Buf (tr 4)...'; \
  tr 4; \
  echo '   Done';date; "


if !$?minimalrun " \
  echo 'Running Register read/write (tr 3)...'; \
  tr 3 ; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'TR 30 ...'; \
  tr 30; \
  echo '   Done';date; "

if !$?minimalrun " \
```

```
  echo 'TR 31 ...'; \
  tr 31; \
  echo '   Done';date; "


if !$?minimalrun " \
  echo 'tr 60 ...'; \
  tr 60; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'tr 50 m=MMU_IDF, EGQ_DSP_PTR_MAP ...'; \
  tr 50 m=MMU_IDF; \
  tr 50 m=EGQ_DSP_PTR_MAP; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'tr 51 m=MMU_IDF, IHB_FWD_ACT_PROFILE, EGQ_PCT...'; \
  tr 51 m=MMU_IDF; \
  tr 51 m=IHB_FWD_ACT_PROFILE; \
  tr 51 m=EGQ_PCT; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'tr 52 m=MMU_IDF, IPS_QTYPE...'; \
  tr 52 m=MMU_IDF; \
  tr 52 m=IPS_QTYPE; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'tr 71 m=IDR_OCB_BUFFER_TYPE, EGQ_PPCT...'; \
  tr 71 m=IDR_OCB_BUFFER_TYPE; \
  tr 71 m=EGQ_PPCT; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'Memory R/W first & last test (tr 7)...'; \
  tr 7; \
  echo '   Done';date; "

if !$?minimalrun " \
  echo 'Running Register reset defaults (tr 1) ...'; \
  tr 1; \
  echo '   Done';date; "

if !$?minimalrun && !$?shortrun " \
  echo 'Dump memories (tr 6)...'; \
  tr 6; \
```

```
  echo '   Done';date; "

echo 'Dram bist test (tr 140)...';
tr 140 DramNdx=0xff AllAdress=1;
if $?minimalrun " \
  tr 140 DramNdx=1 WriteWeight=0xf ReadWeight=0xf BistNumActions=0xffffffff StartAddr=0x0
EndAddr=0xffffff PatternMode=0 Pattern0=0x10101010 Pattern1=0x11111111; \
  tr 140 DramNdx=1 WriteWeight=0xff ReadWeight=0xaa BistNumActions=0xaaaaa StartAddr=0xffff
EndAddr=0xfffff PatternMode=1; \
  tr 140 DramNdx=1 WriteWeight=0xcc ReadWeight=0xcc Infinite=1  StartAddr=0xab1 EndAddr=0xaaaaa
PatternMode=0 Pattern0=0x10101111 Pattern1=0x10001000; \
  tr 140 DramNdx=0xff getdata=1; \
  tr 140 DramNdx=0xff stop=1; \
  echo '   Done';date"


#Start Cache Mem Test
#echo "Running Cache Mem Tests "
#tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0
#tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0
#tr 90
#tr 91
#tr 8
#Running tr 141 (warmboot) - tr 141 repeat=1 Warmboot=1"

##########################################################################

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88202sanity.soc
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Original:
#  FEATURE_LIST := CINT TCL BSAFE ATPTRANS_SOCKET L3 I2C MEM_SCAN EDITLINE TELNET
DRIVERS CHASSIS TEST BCM_SAL_PROFILE RCPU DUNE_UI INTR APIMODE PTP KBP
# For CMODEL, interrupts are not implemented so take INTR out
#
FEATURE_LIST := CINT TCL BSAFE ATPTRANS_SOCKET L3 I2C MEM_SCAN EDITLINE TELNET
DRIVERS CHASSIS TEST BCM_SAL_PROFILE RCPU DUNE_UI APIMODE PTP KBP
```

```
#DEBUG_OPTIMIZE=FALSE

DEBUG_CFLAGS=-Wdeclaration-after-statement

BCM_PTL_SPT=1

#
# This is for 'DNX only' compilation. Take DPP and DFE out.
#
# ALL_DPP_CHIPS = 1
# ALL_DFE_CHIPS = 1
ALL_DNX_CHIPS = 1

CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -DBCM_EASY_RELOAD_WB_COMPAT_SUPPORT
CFGFLAGS += -DBCM_CONTROL_API_TRACKING
CFGFLAGS += -DSCACHE_CRC_CHECK
CFGFLAGS += -DCMODEL_SERVER_MODE

KBP_DEVICE := KBP_ALG

#Assaf - 2/4/14, commneted out - this Makefile is used at many regression tests ant can not be changed
#       in case we want to add vendor flags a new Makefile should be created.
#VENDOR_LIST=BROADCOM CUSTOMER52

override SBX_CHIPS=

export GCCVER=4.2.1
HCC=/tools/bin/gcc
$(info $(shell GCCVER=$(GCCVER) $(HCC) --version))
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/dnx/Make.pkg.dnx_only_sim_cmodel
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ast.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_ast.h
* Purpose:     CINT AST node interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_ast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane3.h,v 1.1.8.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane3.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hurricane3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Sinks
*
* The BSL sink structure control how log messages are presented on a
* particular sink.  A sink can be a console, a file, or some other
* output devices.
*
* The sink will prefix each log message according to a preconfigured
* setting configured via a printf-like format string.  Please consult
* the format_prefix function in bslsink.c for a complete list of
* format specifiers.
*
```

```
* A number of options can be configured to control the sink behavior:
*
* BSLSINK_OPT_NO_ECHO
* This option suppresses all log messages from the ECHO source
* (bslSourceEcho).  It is used for console sinks to avoid duplicating
* the console echo of CLI input functions such as readline.  The CLI
* will log the input string to allow it to be captured in a log file.
*
* BSLSINK_OPT_SHELL_PREFIX
* Normally the prefix string is suppressed for log messages from the
* SHELL sources (bslSourceShell and bslSourceEcho).  If this option
* is set, the prefix string (if configured) will also be shown for
* SHELL output.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bslsink.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_ident.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap_ident.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.c,v 1.60 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 802.1x Port-Based Network Access Control for RoboSwitch
* Purpose: API to set 802.1x registers.
*
*
* 802.1x is a port based authentication protocol. If a user port
* (supplicant) want to get service from another port(authenticator),
* it must get approved by authenticator. Authenticator usually will
* pass authentication protocol (EAP) to an authentication server,
* which has all security information.
* EAP(Extensive Authentication Protocol) is the higher layer protocol
* used for authentication purpose. In order for layer 2 ports to
```

```
* participate in EAP protocol more efficiently, 802.1x created another
* layer 2 protocol called EAPOL ( EAP over LAN). With EAPOL, layer2 can
* initiate/stop authentication functions by itself.
* So basically, if a port want to get service from another port,
* it need be authenticated by that port. EAPOL is the protocol used by
* authentication process.
*
* Basically we need to detect EAPOL frame and pass it to CPU(MII) port.
* After reset, if EAP_EN=1, and EAP_BLK_MODE=1, we will block all
* traffic except EAPOL and other special frames if we specify.
* After authentication process finished, we will add some limitations
* to each port based on result of authentication.
*
* The way to detect EAPOL traffic:
* 1) DA requirement:
*    Bcast DA: DA=48'h0180c2000003
*    or Ucast DA: DA = EAP_UNI_DA if enabled.
*
* 2) Ethernet type : 16'h888E (only in 802.3/Ethernet frame)
*
* 3) Packet type:
*    EAP_packet(8'h00)
*    EAPOL_start(8'h01)
*    EAPOL_logoff(8'h02)
*    EAPOL_key(8'h03)
*    EAPOL_Encapsulated_ASF_Alert(8'h04)
*
* 4)non_802.1q frame (un_tagged, or pri_tagged frame are OK)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: fields.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: fields.c
* Purpose: Field definitions, field names
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/fields.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy82864.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy82864.c
* Purpose:     Support for madura external PHY
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82864.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls_hvpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_vpls_3level_protection.c
* Purpose: Example of Open Multi-Point VPLS service with 3-level PWE-MPLS protection.
* This PWE-MPLS protection example provides the possibility to support both PWE 1:1 protection,
* LSP 1:1 protection,LDP 1:1 protection i.e. 3-layer protection.
* This feature is supported from Jericho / Q-MX and above.

* solution brief:
*  1-level: PMF resolve the PW protection status.
*  2-level : 1st FEC resolve the LSP protection status.
*  3-level: 2nd FEC resolve the LDP protection status.

* there are 2 mpls tunnel EEDBs encapsulated to packet, So the first MPLS tunnel holds the PW header info, and the second MPLS tunnel
* holds the LSP and LDP MPLS header info.
* So for a standard L3 protection scenario, there will be 2(PW) + 8(lsp*ldp) = 10 EEDB entries consumed.
* In this example, for simplication, the primary PW and protected PW will use the same LSP tunnel.


* Note: Current implementation supports unicast packets only.
*
* Headers:
*
* Primary path:
```

```
*  ~~~
```

```
*   | | DA |SA||TIPD1 |Prio|VID||  LDP    |  LSP    ||   PWE    ||Eth||Data ||
*   | |0:11|  ||0x8847|    |100||Label:2001|Label:1001||Lable:2020||   ||     ||
*   | +-+-+-+
```

```
*     -   Create MPLs tunnels over the created l3 interface. Refer to mpls__create_tunnel_initiator__set().
*  -   Create cascaded FEC object for LDP protection.
*         -    Calls l3__egress__create().
*  -   Add AC and MPLS-ports to the VSI.
*     -   vswitch_vpls_add_access_port_1 creates attachment circuit and add them to the Vswitch and
*         update the Multicast group.
*     -   vswitch_vpls_add_network_port_1 creates PWE and add them to the VSI and update the
*         multicast group. This call consists of 3 parts which are 3 calls to bcm_mpls_port_add:
*         - Egress only : PWE Outlif
*         - FEC only : LSP Protection FEC pointing to LDP cascaded FEC and PWE outlif
*         - Ingress only : PWE termination
* -  Add PWE portection mechanism in ingress PMF stage.
*     -  field_3_level_protection_tcam_group_set  install group in PMF
*     - field_3_level_protection_tcam_entry_create add rule for a PWE protection group

* Remarks:
*  -   To set the protection properties use vswitch_vpls_hvpls_xxx_failover_set
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*     BCM> cint examples/dpp/cint_qos.c
*     BCM> cint examples/dpp/cint_mpls_lsr.c
*     BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*     BCM> cint examples/dpp/cint_vswitch_vpls.c
*     BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_multicast.c
*     BCM> cint examples/dpp/cint_vswitch_vpls.c
*     BCM> cint examples/dpp/cint_vswitch_vpls_3level_portection.c
*     BCM> cint
*     cint> int rv;
*     cint> rv = vswitch_vpls_3level_protection_run_with_defaults(unit);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls_3level_protection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_scan.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip data structure scanning functions
```

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_scan.c
No license file was found, but licenses were detected in source scan.

$Id: BCM953022K.bcm,v 1.2 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

pbmp_valid.0=0x0000011f
# internal GPHY
phy_sys_interface_ge4.0=1
# pair remap
phy_mdi_pair_map_ge3=0x213
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

==== MacSec Section ====
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM958623HR.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: port.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/port.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oob.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oob.c
* Purpose: Manages common OOB functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/oob.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap21v_tgs.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap21v_tgs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains TRUNK definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/trunk.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_kaps_xpt.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_kaps_xpt.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_ccmdma.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: CMICM CCM DMA Driver
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_ccmdma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwBandwidthParameterEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwBandwidthParameterEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwBandwidthParameterEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_sand_dsig.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_sand_dsig.c
* Purpose:    Routines for handling debug and internal signals
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_dsig.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_signals.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmudamemmgr.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr/nlmudamemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmtwolevelhashtbl.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmtwolevelhashtbl.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_mact_mgmt.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_mact_mgmt.c
No license file was found, but licenses were detected in source scan.

/* $Id: c3hppc_cop_test3.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cop_test3.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_tmc_api_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

/* Copyright 1997,1998,1999 Motorola, Inc. All Rights Reserved */
/* Copyright 1997-2004 Wind River Systems, Inc. All Rights Reserved */

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/pciAutoConfigLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/pciAutoConfigLib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_trill.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_trill.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dcmn_intr_handler.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement soc interrupt handler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_intr_init.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_intr_init.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_intr_handler.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_multicast_imp.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: allregs.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allregs.c
* Purpose: Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/allregs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: kbp.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/kbp.c

No license file was found, but licenses were detected in source scan.

```
/* ****************************************************************
* Common inline defs for reg spec for chip ka
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ****************************************************************
* $Id: hal_ka_inline.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ka_inline.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ssr.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_ssr.h
*
* MODULE PREFIX:  soc_tmcssr
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ssr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* HashDestination commands
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/hash.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_lag.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_lag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap21v_acc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap21v_acc.h
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************************************
*********************************************************************************************
*                                                                                           *
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns.h 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                                           *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables               *
*                                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                           *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                           *
*********************************************************************************************
*********************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPolicePortQMapEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPolicePortQMapEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8703.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8703.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8703.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.h,v 1.60 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/oam.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     BCM56850 Field Processor installation functions.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpOneBitEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpOneBitEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_fabric_cell.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pp.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pp.c
* Purpose:     Diagnostic helper routines
* Notes: Retrieve, check, or print Packet Pool table for Hercules
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/pp.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ocm_diags_c.stg,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* t3p1_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/t3p1_diags.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysNvRam.h,v 1.3 2011/07/21 16:14:49 yshtil Exp $
**********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sysNvRam.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_line_card.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_line_card.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport.h,v 1.2 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag.h
* Purpose:     Device diagnostics commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/gport.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_interface_configuration.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_dynamic_port_add_remove.c
* Purpose:     Example of simple Egress transmit scheduling setup
*
* Example includes:
*  o     Removing one port configuration
*  o     Adding one port configuration
*  o     Removing several ports and Adding several new ports configuration
*  o     Changing number of lanes for a given port
*
* It is assumed diag_init is executed.
*
* To remove one port configuration follow following steps:
*
* 1) detach port
* 2) remove port configuration
* 3) add new port configuration
* 4) probe new port
*
* NOTE: If you detach first lane port that was previously initialized and do not probe that port,
*       the speeds of the following lanes may be effected unexpectedly.
*
* Usage Example:
* The example below will remove port 100 and add Ethernet XFI port on first physical lane 20 with port id 101.
*
* int rv;
* bcm_port_mapping_info_t mapping_info;
* bcm_port_interface_info_t interface_info;
*
*
* rv = remove_port_full_example(unit, 100, 0);
```

```
* if (rv != BCM_E_NONE) {
*     printf("Error, in remove_port_full_example\n");
*     return rv;
* }
*
* mapping_info.channel = 0;
* mapping_info.core = 0;
* mapping_info.tm_port = 100;
* mapping_info.num_priorities = 8;
* interface_info.phy_port = 20;
* interface_info.interface = BCM_PORT_IF_XFI;
*
* rv = add_port_full_example(unit, 101 , mapping_info, interface_info, 0,
BCM_SWITCH_PORT_HEADER_TYPE_TM ,FALSE);
* if (rv != BCM_E_NONE) {
*     printf("Error, in add_port_full_example\n");
*     return rv;
* }
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_dynamic_port_add_remove.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv4TosEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassIPv4TosEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: export.c, 2015/03/30 idanu Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNX Export facilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/dcmn/export.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_sbusdma_common.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: CMICM SBUS-DMA Common utility functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_sbusdma_common.c
No license file was found, but licenses were detected in source scan.

```
# Doxyfile 1.5.7
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$


# This file describes the settings to be used by the documentation system
# doxygen (www.doxygen.org) for a project
#
# All text after a hash (#) is considered a comment and will be ignored
# The format is:
#       TAG = value [value, ...]
# For lists items can also be appended using:
#       TAG += value [value, ...]
# Values that contain spaces should be placed between quotes (" ")

#---------------------------------------------------------------------------
# Project related configuration options
#---------------------------------------------------------------------------

# This tag specifies the encoding used for all characters in the config file
# that follow. The default is UTF-8 which is also the encoding used for all
# text before the first occurrence of this tag. Doxygen uses libiconv (or the
# iconv built into libc) for the transcoding. See
# http://www.gnu.org/software/libiconv for the list of possible encodings.

DOXYFILE_ENCODING      = UTF-8

# The PROJECT_NAME tag is a single word (or a sequence of words surrounded
# by quotes) that should identify the project.
```

```
PROJECT_NAME           =  PHYMod

# The PROJECT_NUMBER tag can be used to enter a project or revision number.
# This could be handy for archiving the generated documentation or
# if some version control system is used.

PROJECT_NUMBER         = 1.1

# The OUTPUT_DIRECTORY tag is used to specify the (relative or absolute)
# base path where the generated documentation will be put.
# If a relative path is entered, it will be relative to the location
# where doxygen was started. If left blank the current directory will be used.

OUTPUT_DIRECTORY       =  .

# If the CREATE_SUBDIRS tag is set to YES, then doxygen will create
# 4096 sub-directories (in 2 levels) under the output directory of each output
# format and will distribute the generated files over these directories.
# Enabling this option can be useful when feeding doxygen a huge amount of
# source files, where putting all generated files in the same directory would
# otherwise cause performance problems for the file system.

CREATE_SUBDIRS         = NO

# The OUTPUT_LANGUAGE tag is used to specify the language in which all
# documentation generated by doxygen is written. Doxygen will use this
# information to generate all constant output in the proper language.
# The default language is English, other supported languages are:
# Afrikaans, Arabic, Brazilian, Catalan, Chinese, Chinese-Traditional,
# Croatian, Czech, Danish, Dutch, Farsi, Finnish, French, German, Greek,
# Hungarian, Italian, Japanese, Japanese-en (Japanese with English messages),
# Korean, Korean-en, Lithuanian, Norwegian, Macedonian, Persian, Polish,
# Portuguese, Romanian, Russian, Serbian, Serbian-Cyrilic, Slovak, Slovene,
# Spanish, Swedish, and Ukrainian.

OUTPUT_LANGUAGE        = English

# If the BRIEF_MEMBER_DESC tag is set to YES (the default) Doxygen will
# include brief member descriptions after the members that are listed in
# the file and class documentation (similar to JavaDoc).
# Set to NO to disable this.

BRIEF_MEMBER_DESC      = NO

# If the REPEAT_BRIEF tag is set to YES (the default) Doxygen will prepend
# the brief description of a member or function before the detailed description.
# Note: if both HIDE_UNDOC_MEMBERS and BRIEF_MEMBER_DESC are set to NO, the
# brief descriptions will be completely suppressed.
```

```
REPEAT_BRIEF           = NO

# This tag implements a quasi-intelligent brief description abbreviator
# that is used to form the text in various listings. Each string
# in this list, if found as the leading text of the brief description, will be
# stripped from the text and the result after processing the whole list, is
# used as the annotated text. Otherwise, the brief description is used as-is.
# If left blank, the following values are used ("$name" is automatically
# replaced with the name of the entity): "The $name class" "The $name widget"
# "The $name file" "is" "provides" "specifies" "contains"
# "represents" "a" "an" "the"

ABBREVIATE_BRIEF       =

# If the ALWAYS_DETAILED_SEC and REPEAT_BRIEF tags are both set to YES then
# Doxygen will generate a detailed section even if there is only a brief
# description.

ALWAYS_DETAILED_SEC    = NO

# If the INLINE_INHERITED_MEMB tag is set to YES, doxygen will show all
# inherited members of a class in the documentation of that class as if those
# members were ordinary class members. Constructors, destructors and assignment
# operators of the base classes will not be shown.

INLINE_INHERITED_MEMB  = NO

# If the FULL_PATH_NAMES tag is set to YES then Doxygen will prepend the full
# path before files name in the file list and in the header files. If set
# to NO the shortest path that makes the file name unique will be used.

FULL_PATH_NAMES        = YES

# If the FULL_PATH_NAMES tag is set to YES then the STRIP_FROM_PATH tag
# can be used to strip a user-defined part of the path. Stripping is
# only done if one of the specified strings matches the left-hand part of
# the path. The tag can be used to show relative paths in the file list.
# If left blank the directory from which doxygen is run is used as the
# path to strip.

STRIP_FROM_PATH        =

# The STRIP_FROM_INC_PATH tag can be used to strip a user-defined part of
# the path mentioned in the documentation of a class, which tells
# the reader which header file to include in order to use a class.
# If left blank only the name of the header file containing the class
# definition is used. Otherwise one should specify the include paths that
```

```
# are normally passed to the compiler using the -I flag.

STRIP_FROM_INC_PATH    =

# If the SHORT_NAMES tag is set to YES, doxygen will generate much shorter
# (but less readable) file names. This can be useful is your file systems
# doesn't support long names like on DOS, Mac, or CD-ROM.

SHORT_NAMES            = NO

# If the JAVADOC_AUTOBRIEF tag is set to YES then Doxygen
# will interpret the first line (until the first dot) of a JavaDoc-style
# comment as the brief description. If set to NO, the JavaDoc
# comments will behave just like regular Qt-style comments
# (thus requiring an explicit @brief command for a brief description.)

JAVADOC_AUTOBRIEF      = NO

# If the QT_AUTOBRIEF tag is set to YES then Doxygen will
# interpret the first line (until the first dot) of a Qt-style
# comment as the brief description. If set to NO, the comments
# will behave just like regular Qt-style comments (thus requiring
# an explicit \brief command for a brief description.)

QT_AUTOBRIEF           = NO

# The MULTILINE_CPP_IS_BRIEF tag can be set to YES to make Doxygen
# treat a multi-line C++ special comment block (i.e. a block of //! or ///
# comments) as a brief description. This used to be the default behaviour.
# The new default is to treat a multi-line C++ comment block as a detailed
# description. Set this tag to YES if you prefer the old behaviour instead.

MULTILINE_CPP_IS_BRIEF = NO

# If the INHERIT_DOCS tag is set to YES (the default) then an undocumented
# member inherits the documentation from any documented member that it
# re-implements.

INHERIT_DOCS           = YES

# If the SEPARATE_MEMBER_PAGES tag is set to YES, then doxygen will produce
# a new page for each member. If set to NO, the documentation of a member will
# be part of the file/class/namespace that contains it.

SEPARATE_MEMBER_PAGES  = NO

# The TAB_SIZE tag can be used to set the number of spaces in a tab.
# Doxygen uses this value to replace tabs by spaces in code fragments.
```

```
TAB_SIZE            = 8

# This tag can be used to specify a number of aliases that acts
# as commands in the documentation. An alias has the form "name=value".
# For example adding "sideeffect=\par Side Effects:\n" will allow you to
# put the command \sideeffect (or @sideeffect) in the documentation, which
# will result in a user-defined paragraph with heading "Side Effects:".
# You can put \n's in the value part of an alias to insert newlines.

ALIASES             =

# Set the OPTIMIZE_OUTPUT_FOR_C tag to YES if your project consists of C
# sources only. Doxygen will then generate output that is more tailored for C.
# For instance, some of the names that are used will be different. The list
# of all members will be omitted, etc.

OPTIMIZE_OUTPUT_FOR_C  = NO

# Set the OPTIMIZE_OUTPUT_JAVA tag to YES if your project consists of Java
# sources only. Doxygen will then generate output that is more tailored for
# Java. For instance, namespaces will be presented as packages, qualified
# scopes will look different, etc.

OPTIMIZE_OUTPUT_JAVA   = NO

# Set the OPTIMIZE_FOR_FORTRAN tag to YES if your project consists of Fortran
# sources only. Doxygen will then generate output that is more tailored for
# Fortran.

OPTIMIZE_FOR_FORTRAN   = NO

# Set the OPTIMIZE_OUTPUT_VHDL tag to YES if your project consists of VHDL
# sources. Doxygen will then generate output that is tailored for
# VHDL.

OPTIMIZE_OUTPUT_VHDL   = NO

# If you use STL classes (i.e. std::string, std::vector, etc.) but do not want
# to include (a tag file for) the STL sources as input, then you should
# set this tag to YES in order to let doxygen match functions declarations and
# definitions whose arguments contain STL classes (e.g. func(std::string); v.s.
# func(std::string) {}). This also make the inheritance and collaboration
# diagrams that involve STL classes more complete and accurate.

BUILTIN_STL_SUPPORT    = NO

# If you use Microsoft's C++/CLI language, you should set this option to YES to
```

```
# enable parsing support.

CPP_CLI_SUPPORT        = NO

# Set the SIP_SUPPORT tag to YES if your project consists of sip sources only.
# Doxygen will parse them like normal C++ but will assume all classes use public
# instead of private inheritance when no explicit protection keyword is present.

SIP_SUPPORT            = NO

# For Microsoft's IDL there are propget and propput attributes to indicate getter
# and setter methods for a property. Setting this option to YES (the default)
# will make doxygen to replace the get and set methods by a property in the
# documentation. This will only work if the methods are indeed getting or
# setting a simple type. If this is not the case, or you want to show the
# methods anyway, you should set this option to NO.

IDL_PROPERTY_SUPPORT   = YES

# If member grouping is used in the documentation and the DISTRIBUTE_GROUP_DOC
# tag is set to YES, then doxygen will reuse the documentation of the first
# member in the group (if any) for the other members of the group. By default
# all members of a group must be documented explicitly.

DISTRIBUTE_GROUP_DOC   = NO

# Set the SUBGROUPING tag to YES (the default) to allow class member groups of
# the same type (for instance a group of public functions) to be put as a
# subgroup of that type (e.g. under the Public Functions section). Set it to
# NO to prevent subgrouping. Alternatively, this can be done per class using
# the \nosubgrouping command.

SUBGROUPING            = YES

# When TYPEDEF_HIDES_STRUCT is enabled, a typedef of a struct, union, or enum
# is documented as struct, union, or enum with the name of the typedef. So
# typedef struct TypeS {} TypeT, will appear in the documentation as a struct
# with name TypeT. When disabled the typedef will appear as a member of a file,
# namespace, or class. And the struct will be named TypeS. This can typically
# be useful for C code in case the coding convention dictates that all compound
# types are typedef'ed and only the typedef is referenced, never the tag name.

TYPEDEF_HIDES_STRUCT   = NO

# The SYMBOL_CACHE_SIZE determines the size of the internal cache use to
# determine which symbols to keep in memory and which to flush to disk.
# When the cache is full, less often used symbols will be written to disk.
# For small to medium size projects (<1000 input files) the default value is
```

```
# probably good enough. For larger projects a too small cache size can cause
# doxygen to be busy swapping symbols to and from disk most of the time
# causing a significant performance penality.
# If the system has enough physical memory increasing the cache will improve the
# performance by keeping more symbols in memory. Note that the value works on
# a logarithmic scale so increasing the size by one will rougly double the
# memory usage. The cache size is given by this formula:
# 2^(16+SYMBOL_CACHE_SIZE). The valid range is 0..9, the default is 0,
# corresponding to a cache size of 2^16 = 65536 symbols

SYMBOL_CACHE_SIZE      = 0

#---------------------------------------------------------------------------
# Build related configuration options
#---------------------------------------------------------------------------

# If the EXTRACT_ALL tag is set to YES doxygen will assume all entities in
# documentation are documented, even if no documentation was available.
# Private class members and static file members will be hidden unless
# the EXTRACT_PRIVATE and EXTRACT_STATIC tags are set to YES

EXTRACT_ALL            = YES

# If the EXTRACT_PRIVATE tag is set to YES all private members of a class
# will be included in the documentation.

EXTRACT_PRIVATE        = NO

# If the EXTRACT_STATIC tag is set to YES all static members of a file
# will be included in the documentation.

EXTRACT_STATIC         = NO

# If the EXTRACT_LOCAL_CLASSES tag is set to YES classes (and structs)
# defined locally in source files will be included in the documentation.
# If set to NO only classes defined in header files are included.

EXTRACT_LOCAL_CLASSES  = YES

# This flag is only useful for Objective-C code. When set to YES local
# methods, which are defined in the implementation section but not in
# the interface are included in the documentation.
# If set to NO (the default) only methods in the interface are included.

EXTRACT_LOCAL_METHODS  = NO

# If this flag is set to YES, the members of anonymous namespaces will be
# extracted and appear in the documentation as a namespace called
```

```
# 'anonymous_namespace{file}', where file will be replaced with the base
# name of the file that contains the anonymous namespace. By default
# anonymous namespace are hidden.

EXTRACT_ANON_NSPACES   = NO

# If the HIDE_UNDOC_MEMBERS tag is set to YES, Doxygen will hide all
# undocumented members of documented classes, files or namespaces.
# If set to NO (the default) these members will be included in the
# various overviews, but no documentation section is generated.
# This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_MEMBERS     = YES

# If the HIDE_UNDOC_CLASSES tag is set to YES, Doxygen will hide all
# undocumented classes that are normally visible in the class hierarchy.
# If set to NO (the default) these classes will be included in the various
# overviews. This option has no effect if EXTRACT_ALL is enabled.

HIDE_UNDOC_CLASSES     = YES

# If the HIDE_FRIEND_COMPOUNDS tag is set to YES, Doxygen will hide all
# friend (class|struct|union) declarations.
# If set to NO (the default) these declarations will be included in the
# documentation.

HIDE_FRIEND_COMPOUNDS  = YES

# If the HIDE_IN_BODY_DOCS tag is set to YES, Doxygen will hide any
# documentation blocks found inside the body of a function.
# If set to NO (the default) these blocks will be appended to the
# function's detailed documentation block.

HIDE_IN_BODY_DOCS      = YES

# The INTERNAL_DOCS tag determines if documentation
# that is typed after a \internal command is included. If the tag is set
# to NO (the default) then the documentation will be excluded.
# Set it to YES to include the internal documentation.

INTERNAL_DOCS          = NO

# If the CASE_SENSE_NAMES tag is set to NO then Doxygen will only generate
# file names in lower-case letters. If set to YES upper-case letters are also
# allowed. This is useful if you have classes or files whose names only differ
# in case and if your file system supports case sensitive file names. Windows
# and Mac users are advised to set this option to NO.
```

```
CASE_SENSE_NAMES       = YES

# If the HIDE_SCOPE_NAMES tag is set to NO (the default) then Doxygen
# will show members with their full class and namespace scopes in the
# documentation. If set to YES the scope will be hidden.

HIDE_SCOPE_NAMES       = NO

# If the SHOW_INCLUDE_FILES tag is set to YES (the default) then Doxygen
# will put a list of the files that are included by a file in the documentation
# of that file.

SHOW_INCLUDE_FILES     = NO

# If the INLINE_INFO tag is set to YES (the default) then a tag [inline]
# is inserted in the documentation for inline members.

INLINE_INFO            = YES

# If the SORT_MEMBER_DOCS tag is set to YES (the default) then doxygen
# will sort the (detailed) documentation of file and class members
# alphabetically by member name. If set to NO the members will appear in
# declaration order.

SORT_MEMBER_DOCS       = NO

# If the SORT_BRIEF_DOCS tag is set to YES then doxygen will sort the
# brief documentation of file, namespace and class members alphabetically
# by member name. If set to NO (the default) the members will appear in
# declaration order.

SORT_BRIEF_DOCS        = NO

# If the SORT_GROUP_NAMES tag is set to YES then doxygen will sort the
# hierarchy of group names into alphabetical order. If set to NO (the default)
# the group names will appear in their defined order.

SORT_GROUP_NAMES       = NO

# If the SORT_BY_SCOPE_NAME tag is set to YES, the class list will be
# sorted by fully-qualified names, including namespaces. If set to
# NO (the default), the class list will be sorted only by class name,
# not including the namespace part.
# Note: This option is not very useful if HIDE_SCOPE_NAMES is set to YES.
# Note: This option applies only to the class list, not to the
# alphabetical list.

SORT_BY_SCOPE_NAME     = NO
```

```
# The GENERATE_TODOLIST tag can be used to enable (YES) or
# disable (NO) the todo list. This list is created by putting \todo
# commands in the documentation.

GENERATE_TODOLIST      = YES

# The GENERATE_TESTLIST tag can be used to enable (YES) or
# disable (NO) the test list. This list is created by putting \test
# commands in the documentation.

GENERATE_TESTLIST      = YES

# The GENERATE_BUGLIST tag can be used to enable (YES) or
# disable (NO) the bug list. This list is created by putting \bug
# commands in the documentation.

GENERATE_BUGLIST       = YES

# The GENERATE_DEPRECATEDLIST tag can be used to enable (YES) or
# disable (NO) the deprecated list. This list is created by putting
# \deprecated commands in the documentation.

GENERATE_DEPRECATEDLIST= YES

# The ENABLED_SECTIONS tag can be used to enable conditional
# documentation sections, marked by \if sectionname ... \endif.

ENABLED_SECTIONS       =

# The MAX_INITIALIZER_LINES tag determines the maximum number of lines
# the initial value of a variable or define consists of for it to appear in
# the documentation. If the initializer consists of more lines than specified
# here it will be hidden. Use a value of 0 to hide initializers completely.
# The appearance of the initializer of individual variables and defines in the
# documentation can be controlled using \showinitializer or \hideinitializer
# command in the documentation regardless of this setting.

MAX_INITIALIZER_LINES  = 30

# Set the SHOW_USED_FILES tag to NO to disable the list of files generated
# at the bottom of the documentation of classes and structs. If set to YES the
# list will mention the files that were used to generate the documentation.

SHOW_USED_FILES        = NO

# If the sources in your project are distributed over multiple directories
# then setting the SHOW_DIRECTORIES tag to YES will show the directory hierarchy
```

```
# in the documentation. The default is NO.

#SHOW_DIRECTORIES       = NO

# Set the SHOW_FILES tag to NO to disable the generation of the Files page.
# This will remove the Files entry from the Quick Index and from the
# Folder Tree View (if specified). The default is YES.

SHOW_FILES              = YES

# Set the SHOW_NAMESPACES tag to NO to disable the generation of the
# Namespaces page.  This will remove the Namespaces entry from the Quick Index
# and from the Folder Tree View (if specified). The default is YES.

SHOW_NAMESPACES         = YES

# The FILE_VERSION_FILTER tag can be used to specify a program or script that
# doxygen should invoke to get the current version for each file (typically from
# the version control system). Doxygen will invoke the program by executing (via
# popen()) the command <command> <input-file>, where <command> is the value of
# the FILE_VERSION_FILTER tag, and <input-file> is the name of an input file
# provided by doxygen. Whatever the program writes to standard output
# is used as the file version. See the manual for examples.

FILE_VERSION_FILTER     =

# The LAYOUT_FILE tag can be used to specify a layout file which will be parsed
# by doxygen. The layout file controls the global structure of the generated
# output files in an output format independent way. The create the layout file
# that represents doxygen's defaults, run doxygen with the -l option. You can
# optionally specify a file name after the option, if omitted DoxygenLayout.xml
# will be used as the name of the layout file.

LAYOUT_FILE             =

#---------------------------------------------------------------------------
# configuration options related to warning and progress messages
#---------------------------------------------------------------------------

# The QUIET tag can be used to turn on/off the messages that are generated
# by doxygen. Possible values are YES and NO. If left blank NO is used.

QUIET                   = YES

# The WARNINGS tag can be used to turn on/off the warning messages that are
# generated by doxygen. Possible values are YES and NO. If left blank
# NO is used.
```

```
WARNINGS               = YES

# If WARN_IF_UNDOCUMENTED is set to YES, then doxygen will generate warnings
# for undocumented members. If EXTRACT_ALL is set to YES then this flag will
# automatically be disabled.

WARN_IF_UNDOCUMENTED   = YES

# If WARN_IF_DOC_ERROR is set to YES, doxygen will generate warnings for
# potential errors in the documentation, such as not documenting some
# parameters in a documented function, or documenting parameters that
# don't exist or using markup commands wrongly.

WARN_IF_DOC_ERROR      = YES

# This WARN_NO_PARAMDOC option can be abled to get warnings for
# functions that are documented, but have no documentation for their parameters
# or return value. If set to NO (the default) doxygen will only warn about
# wrong or incomplete parameter documentation, but not about the absence of
# documentation.

WARN_NO_PARAMDOC       = NO

# The WARN_FORMAT tag determines the format of the warning messages that
# doxygen can produce. The string should contain the $file, $line, and $text
# tags, which will be replaced by the file and line number from which the
# warning originated and the warning text. Optionally the format may contain
# $version, which will be replaced by the version of the file (if it could
# be obtained via FILE_VERSION_FILTER)

WARN_FORMAT            = "$file:$line: $text"

# The WARN_LOGFILE tag can be used to specify a file to which warning
# and error messages should be written. If left blank the output is written
# to stderr.

WARN_LOGFILE           =

#---------------------------------------------------------------------------
# configuration options related to the input files
#---------------------------------------------------------------------------

# The INPUT tag can be used to specify the files and/or directories that contain
# documented source files. You may enter file names like "myfile.cpp" or
# directories like "/usr/src/myproject". Separate the files or directories
# with spaces.

INPUT                  = dox/
```

```
# This tag can be used to specify the character encoding of the source files
# that doxygen parses. Internally doxygen uses the UTF-8 encoding, which is
# also the default input encoding. Doxygen uses libiconv (or the iconv built
# into libc) for the transcoding. See http://www.gnu.org/software/libiconv for
# the list of possible encodings.

INPUT_ENCODING         = UTF-8

# If the value of the INPUT tag contains directories, you can use the
# FILE_PATTERNS tag to specify one or more wildcard pattern (like *.cpp
# and *.h) to filter out the source-files in the directories. If left
# blank the following patterns are tested:
# *.c *.cc *.cxx *.cpp *.c++ *.java *.ii *.ixx *.ipp *.i++ *.inl *.h *.hh *.hxx
# *.hpp *.h++ *.idl *.odl *.cs *.php *.php3 *.inc *.m *.mm *.py *.f90

FILE_PATTERNS          =  *.c *.h

# The RECURSIVE tag can be used to turn specify whether or not subdirectories
# should be searched for input files as well. Possible values are YES and NO.
# If left blank NO is used.

RECURSIVE              = NO

# The EXCLUDE tag can be used to specify files and/or directories that should
# excluded from the INPUT source files. This way you can easily exclude a
# subdirectory from a directory tree whose root is specified with the INPUT tag.

EXCLUDE                =

# The EXCLUDE_SYMLINKS tag can be used select whether or not files or
# directories that are symbolic links (a Unix filesystem feature) are excluded
# from the input.

EXCLUDE_SYMLINKS       = NO

# If the value of the INPUT tag contains directories, you can use the
# EXCLUDE_PATTERNS tag to specify one or more wildcard patterns to exclude
# certain files from those directories. Note that the wildcards are matched
# against the file with absolute path, so to exclude all test directories
# for example use the pattern */test/*

EXCLUDE_PATTERNS       =

# The EXCLUDE_SYMBOLS tag can be used to specify one or more symbol names
# (namespaces, classes, functions, etc.) that should be excluded from the
# output. The symbol name can be a fully qualified name, a word, or if the
# wildcard * is used, a substring. Examples: ANamespace, AClass,
```

```
# AClass::ANamespace, ANamespace::*Test

EXCLUDE_SYMBOLS       =  clone

# The EXAMPLE_PATH tag can be used to specify one or more files or
# directories that contain example code fragments that are included (see
# the \include command).

EXAMPLE_PATH          =

# If the value of the EXAMPLE_PATH tag contains directories, you can use the
# EXAMPLE_PATTERNS tag to specify one or more wildcard pattern (like *.cpp
# and *.h) to filter out the source-files in the directories. If left
# blank all files are included.

EXAMPLE_PATTERNS      =

# If the EXAMPLE_RECURSIVE tag is set to YES then subdirectories will be
# searched for input files to be used with the \include or \dontinclude
# commands irrespective of the value of the RECURSIVE tag.
# Possible values are YES and NO. If left blank NO is used.

EXAMPLE_RECURSIVE     = NO

# The IMAGE_PATH tag can be used to specify one or more files or
# directories that contain image that are included in the documentation (see
# the \image command).

IMAGE_PATH            =  /projects/ntsw-sw2/home/ravick/img

# The INPUT_FILTER tag can be used to specify a program that doxygen should
# invoke to filter for each input file. Doxygen will invoke the filter program
# by executing (via popen()) the command <filter> <input-file>, where <filter>
# is the value of the INPUT_FILTER tag, and <input-file> is the name of an
# input file. Doxygen will then use the output that the filter program writes
# to standard output.  If FILTER_PATTERNS is specified, this tag will be
# ignored.

INPUT_FILTER          =

# The FILTER_PATTERNS tag can be used to specify filters on a per file pattern
# basis.  Doxygen will compare the file name with each pattern and apply the
# filter if there is a match.  The filters are a list of the form:
# pattern=filter (like *.cpp=my_cpp_filter). See INPUT_FILTER for further
# info on how filters are used. If FILTER_PATTERNS is empty, INPUT_FILTER
# is applied to all files.

FILTER_PATTERNS       =
```

```
# If the FILTER_SOURCE_FILES tag is set to YES, the input filter (if set using
# INPUT_FILTER) will be used to filter the input files when producing source
# files to browse (i.e. when SOURCE_BROWSER is set to YES).

FILTER_SOURCE_FILES    = NO

#---------------------------------------------------------------------------
# configuration options related to source browsing
#---------------------------------------------------------------------------

# If the SOURCE_BROWSER tag is set to YES then a list of source files will
# be generated. Documented entities will be cross-referenced with these sources.
# Note: To get rid of all source code in the generated output, make sure also
# VERBATIM_HEADERS is set to NO.

SOURCE_BROWSER         = NO

# Setting the INLINE_SOURCES tag to YES will include the body
# of functions and classes directly in the documentation.

INLINE_SOURCES         = NO

# Setting the STRIP_CODE_COMMENTS tag to YES (the default) will instruct
# doxygen to hide any special comment blocks from generated source code
# fragments. Normal C and C++ comments will always remain visible.

STRIP_CODE_COMMENTS    = YES

# If the REFERENCED_BY_RELATION tag is set to YES
# then for each documented function all documented
# functions referencing it will be listed.

REFERENCED_BY_RELATION = NO

# If the REFERENCES_RELATION tag is set to YES
# then for each documented function all documented entities
# called/used by that function will be listed.

REFERENCES_RELATION    = NO

# If the REFERENCES_LINK_SOURCE tag is set to YES (the default)
# and SOURCE_BROWSER tag is set to YES, then the hyperlinks from
# functions in REFERENCES_RELATION and REFERENCED_BY_RELATION lists will
# link to the source code.  Otherwise they will link to the documentstion.

REFERENCES_LINK_SOURCE = YES
```

```
# If the USE_HTAGS tag is set to YES then the references to source code
# will point to the HTML generated by the htags(1) tool instead of doxygen
# built-in source browser. The htags tool is part of GNU's global source
# tagging system (see http://www.gnu.org/software/global/global.html). You
# will need version 4.8.6 or higher.

USE_HTAGS              = NO

# If the VERBATIM_HEADERS tag is set to YES (the default) then Doxygen
# will generate a verbatim copy of the header file for each class for
# which an include is specified. Set to NO to disable this.

VERBATIM_HEADERS       = NO

#---------------------------------------------------------------------------
# configuration options related to the alphabetical class index
#---------------------------------------------------------------------------

# If the alphabetical index is enabled (see ALPHABETICAL_INDEX) then
# the COLS_IN_ALPHA_INDEX tag can be used to specify the number of columns
# in which this list will be split (can be a number in the range [1..20])

COLS_IN_ALPHA_INDEX    = 5

# In case all classes in a project start with a common prefix, all
# classes will be put under the same header in the alphabetical index.
# The IGNORE_PREFIX tag can be used to specify one or more prefixes that
# should be ignored while generating the index headers.

IGNORE_PREFIX          =

#---------------------------------------------------------------------------
# configuration options related to the HTML output
#---------------------------------------------------------------------------

# If the GENERATE_HTML tag is set to YES (the default) Doxygen will
# generate HTML output.

GENERATE_HTML          = YES

# The HTML_OUTPUT tag is used to specify where the HTML docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `html' will be used as the default path.

HTML_OUTPUT            = html

# The HTML_FILE_EXTENSION tag can be used to specify the file extension for
# each generated HTML page (for example: .htm,.php,.asp). If it is left blank
```

```
# doxygen will generate files with .html extension.

HTML_FILE_EXTENSION    = .html

# The HTML_HEADER tag can be used to specify a personal HTML header for
# each generated HTML page. If it is left blank doxygen will generate a
# standard header.

HTML_HEADER            =

# The HTML_FOOTER tag can be used to specify a personal HTML footer for
# each generated HTML page. If it is left blank doxygen will generate a
# standard footer.

HTML_FOOTER            =

# The HTML_STYLESHEET tag can be used to specify a user-defined cascading
# style sheet that is used by each HTML page. It can be used to
# fine-tune the look of the HTML output. If the tag is left blank doxygen
# will generate a default style sheet. Note that doxygen will try to copy
# the style sheet file to the HTML output directory, so don't put your own
# stylesheet in the HTML output directory as well, or it will be erased!

HTML_STYLESHEET        =

# If the HTML_ALIGN_MEMBERS tag is set to YES, the members of classes,
# files or namespaces will be aligned in HTML using tables. If set to
# NO a bullet list will be used.

#HTML_ALIGN_MEMBERS     = YES

# If the HTML_DYNAMIC_SECTIONS tag is set to YES then the generated HTML
# documentation will contain sections that can be hidden and shown after the
# page has loaded. For this to work a browser that supports
# JavaScript and DHTML is required (for instance Mozilla 1.0+, Firefox
# Netscape 6.0+, Internet explorer 5.0+, Konqueror, or Safari).

HTML_DYNAMIC_SECTIONS  = NO

# If the GENERATE_DOCSET tag is set to YES, additional index files
# will be generated that can be used as input for Apple's Xcode 3
# integrated development environment, introduced with OSX 10.5 (Leopard).
# To create a documentation set, doxygen will generate a Makefile in the
# HTML output directory. Running make will produce the docset in that
# directory and running "make install" will install the docset in
# ~/Library/Developer/Shared/Documentation/DocSets so that Xcode will find
# it at startup.
# See http://developer.apple.com/tools/creatingdocsetswithdoxygen.html for more information.
```

```
GENERATE_DOCSET        = NO

# When GENERATE_DOCSET tag is set to YES, this tag determines the name of the
# feed. A documentation feed provides an umbrella under which multiple
# documentation sets from a single provider (such as a company or product suite)
# can be grouped.

DOCSET_FEEDNAME        = "Doxygen generated docs"

# When GENERATE_DOCSET tag is set to YES, this tag specifies a string that
# should uniquely identify the documentation set bundle. This should be a
# reverse domain-name style string, e.g. com.mycompany.MyDocSet. Doxygen
# will append .docset to the name.

DOCSET_BUNDLE_ID       = org.doxygen.Project

# If the GENERATE_HTMLHELP tag is set to YES, additional index files
# will be generated that can be used as input for tools like the
# Microsoft HTML help workshop to generate a compiled HTML help file (.chm)
# of the generated HTML documentation.

GENERATE_HTMLHELP      = NO

# If the GENERATE_HTMLHELP tag is set to YES, the CHM_FILE tag can
# be used to specify the file name of the resulting .chm file. You
# can add a path in front of the file if the result should not be
# written to the html output directory.

CHM_FILE               =

# If the GENERATE_HTMLHELP tag is set to YES, the HHC_LOCATION tag can
# be used to specify the location (absolute path including file name) of
# the HTML help compiler (hhc.exe). If non-empty doxygen will try to run
# the HTML help compiler on the generated index.hhp.

HHC_LOCATION           =

# If the GENERATE_HTMLHELP tag is set to YES, the GENERATE_CHI flag
# controls if a separate .chi index file is generated (YES) or that
# it should be included in the master .chm file (NO).

GENERATE_CHI           = NO

# If the GENERATE_HTMLHELP tag is set to YES, the CHM_INDEX_ENCODING
# is used to encode HtmlHelp index (hhk), content (hhc) and project file
# content.
```

```
CHM_INDEX_ENCODING     =

# If the GENERATE_HTMLHELP tag is set to YES, the BINARY_TOC flag
# controls whether a binary table of contents is generated (YES) or a
# normal table of contents (NO) in the .chm file.

BINARY_TOC             = NO

# The TOC_EXPAND flag can be set to YES to add extra items for group members
# to the contents of the HTML help documentation and to the tree view.

TOC_EXPAND             = NO

# If the GENERATE_QHP tag is set to YES and both QHP_NAMESPACE and QHP_VIRTUAL_FOLDER
# are set, an additional index file will be generated that can be used as input for
# Qt's qhelpgenerator to generate a Qt Compressed Help (.qch) of the generated
# HTML documentation.

GENERATE_QHP           = NO

# If the QHG_LOCATION tag is specified, the QCH_FILE tag can
# be used to specify the file name of the resulting .qch file.
# The path specified is relative to the HTML output folder.

QCH_FILE               =

# The QHP_NAMESPACE tag specifies the namespace to use when generating
# Qt Help Project output. For more information please see
# <a href="http://doc.trolltech.com/qthelpproject.html#namespace">Qt Help Project / Namespace</a>.

QHP_NAMESPACE          = org.doxygen.Project

# The QHP_VIRTUAL_FOLDER tag specifies the namespace to use when generating
# Qt Help Project output. For more information please see
# <a href="http://doc.trolltech.com/qthelpproject.html#virtual-folders">Qt Help Project / Virtual Folders</a>.

QHP_VIRTUAL_FOLDER     = doc

# If the GENERATE_QHP tag is set to YES, the QHG_LOCATION tag can
# be used to specify the location of Qt's qhelpgenerator.
# If non-empty doxygen will try to run qhelpgenerator on the generated
# .qhp file .

QHG_LOCATION           =

# The DISABLE_INDEX tag can be used to turn on/off the condensed index at
# top of each HTML page. The value NO (the default) enables the index and
# the value YES disables it.
```

```
DISABLE_INDEX          = NO

# This tag can be used to set the number of enum values (range [1..20])
# that doxygen will group on one line in the generated HTML documentation.

ENUM_VALUES_PER_LINE   = 4

# The GENERATE_TREEVIEW tag is used to specify whether a tree-like index
# structure should be generated to display hierarchical information.
# If the tag value is set to FRAME, a side panel will be generated
# containing a tree-like index structure (just like the one that
# is generated for HTML Help). For this to work a browser that supports
# JavaScript, DHTML, CSS and frames is required (for instance Mozilla 1.0+,
# Netscape 6.0+, Internet explorer 5.0+, or Konqueror). Windows users are
# probably better off using the HTML help feature. Other possible values
# for this tag are: HIERARCHIES, which will generate the Groups, Directories,
# and Class Hierarchy pages using a tree view instead of an ordered list;
# ALL, which combines the behavior of FRAME and HIERARCHIES; and NONE, which
# disables this behavior completely. For backwards compatibility with previous
# releases of Doxygen, the values YES and NO are equivalent to FRAME and NONE
# respectively.

GENERATE_TREEVIEW      = NONE

# If the treeview is enabled (see GENERATE_TREEVIEW) then this tag can be
# used to set the initial width (in pixels) of the frame in which the tree
# is shown.

TREEVIEW_WIDTH         = 250

# Use this tag to change the font size of Latex formulas included
# as images in the HTML documentation. The default is 10. Note that
# when you change the font size after a successful doxygen run you need
# to manually remove any form_*.png images from the HTML output directory
# to force them to be regenerated.

FORMULA_FONTSIZE       = 10

#---------------------------------------------------------------------------
# configuration options related to the LaTeX output
#---------------------------------------------------------------------------

# If the GENERATE_LATEX tag is set to YES (the default) Doxygen will
# generate Latex output.

GENERATE_LATEX         = NO
```

```
# The LATEX_OUTPUT tag is used to specify where the LaTeX docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `latex' will be used as the default path.

LATEX_OUTPUT          = latex

# The LATEX_CMD_NAME tag can be used to specify the LaTeX command name to be
# invoked. If left blank `latex' will be used as the default command name.

LATEX_CMD_NAME        = latex

# The MAKEINDEX_CMD_NAME tag can be used to specify the command name to
# generate index for LaTeX. If left blank `makeindex' will be used as the
# default command name.

MAKEINDEX_CMD_NAME    = makeindex

# If the COMPACT_LATEX tag is set to YES Doxygen generates more compact
# LaTeX documents. This may be useful for small projects and may help to
# save some trees in general.

COMPACT_LATEX         = NO

# The PAPER_TYPE tag can be used to set the paper type that is used
# by the printer. Possible values are: a4, a4wide, letter, legal and
# executive. If left blank a4wide will be used.

PAPER_TYPE            = a4wide

# The EXTRA_PACKAGES tag can be to specify one or more names of LaTeX
# packages that should be included in the LaTeX output.

EXTRA_PACKAGES        =

# The LATEX_HEADER tag can be used to specify a personal LaTeX header for
# the generated latex document. The header should contain everything until
# the first chapter. If it is left blank doxygen will generate a
# standard header. Notice: only use this tag if you know what you are doing!

LATEX_HEADER          =

# If the PDF_HYPERLINKS tag is set to YES, the LaTeX that is generated
# is prepared for conversion to pdf (using ps2pdf). The pdf file will
# contain links (just like the HTML output) instead of page references
# This makes the output suitable for online browsing using a pdf viewer.

PDF_HYPERLINKS        = YES
```

```
# If the USE_PDFLATEX tag is set to YES, pdflatex will be used instead of
# plain latex in the generated Makefile. Set this option to YES to get a
# higher quality PDF documentation.

USE_PDFLATEX           = YES

# If the LATEX_BATCHMODE tag is set to YES, doxygen will add the \batchmode.
# command to the generated LaTeX files. This will instruct LaTeX to keep
# running if errors occur, instead of asking the user for help.
# This option is also used when generating formulas in HTML.

LATEX_BATCHMODE        = NO

# If LATEX_HIDE_INDICES is set to YES then doxygen will not
# include the index chapters (such as File Index, Compound Index, etc.)
# in the output.

LATEX_HIDE_INDICES     = NO

#---------------------------------------------------------------------------
# configuration options related to the RTF output
#---------------------------------------------------------------------------

# If the GENERATE_RTF tag is set to YES Doxygen will generate RTF output
# The RTF output is optimized for Word 97 and may not look very pretty with
# other RTF readers or editors.

GENERATE_RTF           = YES

# The RTF_OUTPUT tag is used to specify where the RTF docs will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `rtf' will be used as the default path.

RTF_OUTPUT             = rtf

# If the COMPACT_RTF tag is set to YES Doxygen generates more compact
# RTF documents. This may be useful for small projects and may help to
# save some trees in general.

COMPACT_RTF            = NO

# If the RTF_HYPERLINKS tag is set to YES, the RTF that is generated
# will contain hyperlink fields. The RTF file will
# contain links (just like the HTML output) instead of page references.
# This makes the output suitable for online browsing using WORD or other
# programs which support those fields.
# Note: wordpad (write) and others do not support links.
```

```
RTF_HYPERLINKS         = NO

# Load stylesheet definitions from file. Syntax is similar to doxygen's
# config file, i.e. a series of assignments. You only have to provide
# replacements, missing definitions are set to their default value.

RTF_STYLESHEET_FILE    =

# Set optional variables used in the generation of an rtf document.
# Syntax is similar to doxygen's config file.

RTF_EXTENSIONS_FILE    =

#---------------------------------------------------------------------------
# configuration options related to the man page output
#---------------------------------------------------------------------------

# If the GENERATE_MAN tag is set to YES (the default) Doxygen will
# generate man pages

GENERATE_MAN           = NO

# The MAN_OUTPUT tag is used to specify where the man pages will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `man' will be used as the default path.

MAN_OUTPUT             = man

# The MAN_EXTENSION tag determines the extension that is added to
# the generated man pages (default is the subroutine's section .3)

MAN_EXTENSION          = .3

# If the MAN_LINKS tag is set to YES and Doxygen generates man output,
# then it will generate one additional man file for each entity
# documented in the real man page(s). These additional files
# only source the real man page, but without them the man command
# would be unable to find the correct page. The default is NO.

MAN_LINKS              = NO

#---------------------------------------------------------------------------
# configuration options related to the XML output
#---------------------------------------------------------------------------

# If the GENERATE_XML tag is set to YES Doxygen will
# generate an XML file that captures the structure of
# the code including all documentation.
```

```
GENERATE_XML           = YES

# The XML_OUTPUT tag is used to specify where the XML pages will be put.
# If a relative path is entered the value of OUTPUT_DIRECTORY will be
# put in front of it. If left blank `xml' will be used as the default path.

XML_OUTPUT             = xml

# The XML_SCHEMA tag can be used to specify an XML schema,
# which can be used by a validating XML parser to check the
# syntax of the XML files.

XML_SCHEMA             =

# The XML_DTD tag can be used to specify an XML DTD,
# which can be used by a validating XML parser to check the
# syntax of the XML files.

XML_DTD                =

# If the XML_PROGRAMLISTING tag is set to YES Doxygen will
# dump the program listings (including syntax highlighting
# and cross-referencing information) to the XML output. Note that
# enabling this will significantly increase the size of the XML output.

XML_PROGRAMLISTING     = YES

#---------------------------------------------------------------------------
# configuration options for the AutoGen Definitions output
#---------------------------------------------------------------------------

# If the GENERATE_AUTOGEN_DEF tag is set to YES Doxygen will
# generate an AutoGen Definitions (see autogen.sf.net) file
# that captures the structure of the code including all
# documentation. Note that this feature is still experimental
# and incomplete at the moment.

GENERATE_AUTOGEN_DEF   = NO

#---------------------------------------------------------------------------
# configuration options related to the Perl module output
#---------------------------------------------------------------------------

# If the GENERATE_PERLMOD tag is set to YES Doxygen will
# generate a Perl module file that captures the structure of
# the code including all documentation. Note that this
# feature is still experimental and incomplete at the
```

```
# moment.

GENERATE_PERLMOD       = NO

# If the PERLMOD_LATEX tag is set to YES Doxygen will generate
# the necessary Makefile rules, Perl scripts and LaTeX code to be able
# to generate PDF and DVI output from the Perl module output.

PERLMOD_LATEX          = NO

# If the PERLMOD_PRETTY tag is set to YES the Perl module output will be
# nicely formatted so it can be parsed by a human reader.  This is useful
# if you want to understand what is going on.  On the other hand, if this
# tag is set to NO the size of the Perl module output will be much smaller
# and Perl will parse it just the same.

PERLMOD_PRETTY         = YES

# The names of the make variables in the generated doxyrules.make file
# are prefixed with the string contained in PERLMOD_MAKEVAR_PREFIX.
# This is useful so different doxyrules.make files included by the same
# Makefile don't overwrite each other's variables.

PERLMOD_MAKEVAR_PREFIX =

#---------------------------------------------------------------------------
# Configuration options related to the preprocessor
#---------------------------------------------------------------------------

# If the ENABLE_PREPROCESSING tag is set to YES (the default) Doxygen will
# evaluate all C-preprocessor directives found in the sources and include
# files.

ENABLE_PREPROCESSING   = YES

# If the MACRO_EXPANSION tag is set to YES Doxygen will expand all macro
# names in the source code. If set to NO (the default) only conditional
# compilation will be performed. Macro expansion can be done in a controlled
# way by setting EXPAND_ONLY_PREDEF to YES.

MACRO_EXPANSION        = YES

# If the EXPAND_ONLY_PREDEF and MACRO_EXPANSION tags are both set to YES
# then the macro expansion is limited to the macros specified with the
# PREDEFINED and EXPAND_AS_DEFINED tags.

EXPAND_ONLY_PREDEF     = YES
```

```
# If the SEARCH_INCLUDES tag is set to YES (the default) the includes files
# in the INCLUDE_PATH (see below) will be search if a #include is found.

SEARCH_INCLUDES       = YES

# The INCLUDE_PATH tag can be used to specify one or more directories that
# contain include files that are not input files but should be processed by
# the preprocessor.

INCLUDE_PATH          =

# You can use the INCLUDE_FILE_PATTERNS tag to specify one or more wildcard
# patterns (like *.h and *.hpp) to filter out the header-files in the
# directories. If left blank, the patterns specified with FILE_PATTERNS will
# be used.

INCLUDE_FILE_PATTERNS  =

# The PREDEFINED tag can be used to specify one or more macro names that
# are defined before the preprocessor is started (similar to the -D option of
# gcc). The argument of the tag is a list of macros of the form: name
# or name=definition (no spaces). If the definition and the = are
# omitted =1 is assumed. To prevent a macro definition from being
# undefined via #undef or recursively expanded use the := operator
# instead of the = operator.

PREDEFINED            =  INCLUDE_XGXS_TEMOD PHYMOD_DEBUG_ERROR
PHYMOD_DEBUG_VERBOSE PHYMOD_USLEEP PHYMOD_SLEEP PHYMOD_MALLOC
PHYMOD_FREE PHYMOD_MEMSET PHYMOD_MEMCPY PHYMOD_STRCMP

# If the MACRO_EXPANSION and EXPAND_ONLY_PREDEF tags are set to YES then
# this tag can be used to specify a list of macro names that should be expanded.
# The macro definition that is found in the sources will be used.
# Use the PREDEFINED tag if you want to use a different macro definition.

EXPAND_AS_DEFINED      =

# If the SKIP_FUNCTION_MACROS tag is set to YES (the default) then
# doxygen's preprocessor will remove all function-like macros that are alone
# on a line, have an all uppercase name, and do not end with a semicolon. Such
# function macros are typically used for boiler-plate code, and will confuse
# the parser if not removed.

SKIP_FUNCTION_MACROS   = YES

#---------------------------------------------------------------------------
# Configuration::additions related to external references
#---------------------------------------------------------------------------
```

```
# The TAGFILES option can be used to specify one or more tagfiles.
# Optionally an initial location of the external documentation
# can be added for each tagfile. The format of a tag file without
# this location is as follows:
#   TAGFILES = file1 file2 ...
# Adding location for the tag files is done as follows:
#   TAGFILES = file1=loc1 "file2 = loc2" ...
# where "loc1" and "loc2" can be relative or absolute paths or
# URLs. If a location is present for each tag, the installdox tool
# does not have to be run to correct the links.
# Note that each tag file must have a unique name
# (where the name does NOT include the path)
# If a tag file is not located in the directory in which doxygen
# is run, you must also specify the path to the tagfile here.

TAGFILES             =

# When a file name is specified after GENERATE_TAGFILE, doxygen will create
# a tag file that is based on the input files it reads.

GENERATE_TAGFILE       =

# If the ALLEXTERNALS tag is set to YES all external classes will be listed
# in the class index. If set to NO only the inherited external classes
# will be listed.

ALLEXTERNALS          = NO

# If the EXTERNAL_GROUPS tag is set to YES all external groups will be listed
# in the modules index. If set to NO, only the current project's groups will
# be listed.

EXTERNAL_GROUPS        = YES

# The PERL_PATH should be the absolute path and name of the perl script
# interpreter (i.e. the result of `which perl').

PERL_PATH             = /usr/bin/perl

#---------------------------------------------------------------------------
# Configuration options related to the dot tool
#---------------------------------------------------------------------------

# If the CLASS_DIAGRAMS tag is set to YES (the default) Doxygen will
# generate a inheritance diagram (in HTML, RTF and LaTeX) for classes with base
# or super classes. Setting the tag to NO turns the diagrams off. Note that
# this option is superseded by the HAVE_DOT option below. This is only a
```

```
# fallback. It is recommended to install and use dot, since it yields more
# powerful graphs.

CLASS_DIAGRAMS         = YES

# You can define message sequence charts within doxygen comments using the \msc
# command. Doxygen will then run the mscgen tool (see
# http://www.mcternan.me.uk/mscgen/) to produce the chart and insert it in the
# documentation. The MSCGEN_PATH tag allows you to specify the directory where
# the mscgen tool resides. If left empty the tool is assumed to be found in the
# default search path.

MSCGEN_PATH            =

# If set to YES, the inheritance and collaboration graphs will hide
# inheritance and usage relations if the target is undocumented
# or is not a class.

HIDE_UNDOC_RELATIONS   = YES

# If you set the HAVE_DOT tag to YES then doxygen will assume the dot tool is
# available from the path. This tool is part of Graphviz, a graph visualization
# toolkit from AT&T and Lucent Bell Labs. The other options in this section
# have no effect if this option is set to NO (the default)

HAVE_DOT               = YES

# By default doxygen will write a font called FreeSans.ttf to the output
# directory and reference it in all dot files that doxygen generates. This
# font does not include all possible unicode characters however, so when you need
# these (or just want a differently looking font) you can specify the font name
# using DOT_FONTNAME. You need need to make sure dot is able to find the font,
# which can be done by putting it in a standard location or by setting the
# DOTFONTPATH environment variable or by setting DOT_FONTPATH to the directory
# containing the font.

DOT_FONTNAME           = FreeSans

# By default doxygen will tell dot to use the output directory to look for the
# FreeSans.ttf font (which doxygen will put there itself). If you specify a
# different font using DOT_FONTNAME you can set the path where dot
# can find it using this tag.

DOT_FONTPATH           =

# If the CLASS_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect inheritance relations. Setting this tag to YES will force the
```

```
# the CLASS_DIAGRAMS tag to NO.

CLASS_GRAPH           = YES

# If the COLLABORATION_GRAPH and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for each documented class showing the direct and
# indirect implementation dependencies (inheritance, containment, and
# class references variables) of the class with other documented classes.

COLLABORATION_GRAPH    = YES

# If the GROUP_GRAPHS and HAVE_DOT tags are set to YES then doxygen
# will generate a graph for groups, showing the direct groups dependencies

GROUP_GRAPHS          = YES

# If the UML_LOOK tag is set to YES doxygen will generate inheritance and
# collaboration diagrams in a style similar to the OMG's Unified Modeling
# Language.

UML_LOOK              = NO

# If set to YES, the inheritance and collaboration graphs will show the
# relations between templates and their instances.

TEMPLATE_RELATIONS     = NO

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDE_GRAPH, and HAVE_DOT
# tags are set to YES then doxygen will generate a graph for each documented
# file showing the direct and indirect include dependencies of the file with
# other documented files.

INCLUDE_GRAPH         = YES

# If the ENABLE_PREPROCESSING, SEARCH_INCLUDES, INCLUDED_BY_GRAPH, and
# HAVE_DOT tags are set to YES then doxygen will generate a graph for each
# documented header file showing the documented files that directly or
# indirectly include this file.

INCLUDED_BY_GRAPH      = YES

# If the CALL_GRAPH and HAVE_DOT options are set to YES then
# doxygen will generate a call dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable call graphs
# for selected functions only using the \callgraph command.

CALL_GRAPH            = NO
```

```
# If the CALLER_GRAPH and HAVE_DOT tags are set to YES then
# doxygen will generate a caller dependency graph for every global function
# or class method. Note that enabling this option will significantly increase
# the time of a run. So in most cases it will be better to enable caller
# graphs for selected functions only using the \callergraph command.

CALLER_GRAPH          = NO

# If the GRAPHICAL_HIERARCHY and HAVE_DOT tags are set to YES then doxygen
# will graphical hierarchy of all classes instead of a textual one.

GRAPHICAL_HIERARCHY    = YES

# If the DIRECTORY_GRAPH, SHOW_DIRECTORIES and HAVE_DOT tags are set to YES
# then doxygen will show the dependencies a directory has on other directories
# in a graphical way. The dependency relations are determined by the #include
# relations between the files in the directories.

DIRECTORY_GRAPH        = YES

# The DOT_IMAGE_FORMAT tag can be used to set the image format of the images
# generated by dot. Possible values are png, jpg, or gif
# If left blank png will be used.

DOT_IMAGE_FORMAT       = png

# The tag DOT_PATH can be used to specify the path where the dot tool can be
# found. If left blank, it is assumed the dot tool can be found in the path.

DOT_PATH               =

# The DOTFILE_DIRS tag can be used to specify one or more directories that
# contain dot files that are included in the documentation (see the
# \dotfile command).

DOTFILE_DIRS           =

# The DOT_GRAPH_MAX_NODES tag can be used to set the maximum number of
# nodes that will be shown in the graph. If the number of nodes in a graph
# becomes larger than this value, doxygen will truncate the graph, which is
# visualized by representing a node as a red box. Note that doxygen if the
# number of direct children of the root node in a graph is already larger than
# DOT_GRAPH_MAX_NODES then the graph will not be shown at all. Also note
# that the size of a graph can be further restricted by MAX_DOT_GRAPH_DEPTH.

DOT_GRAPH_MAX_NODES    = 50
```

```
# The MAX_DOT_GRAPH_DEPTH tag can be used to set the maximum depth of the
# graphs generated by dot. A depth value of 3 means that only nodes reachable
# from the root by following a path via at most 3 edges will be shown. Nodes
# that lay further from the root node will be omitted. Note that setting this
# option to 1 or 2 may greatly reduce the computation time needed for large
# code bases. Also note that the size of a graph can be further restricted by
# DOT_GRAPH_MAX_NODES. Using a depth of 0 means no depth restriction.

MAX_DOT_GRAPH_DEPTH    = 0

# Set the DOT_TRANSPARENT tag to YES to generate images with a transparent
# background. This is disabled by default, because dot on Windows does not
# seem to support this out of the box. Warning: Depending on the platform used,
# enabling this option may lead to badly anti-aliased labels on the edges of
# a graph (i.e. they become hard to read).

DOT_TRANSPARENT        = NO

# Set the DOT_MULTI_TARGETS tag to YES allow dot to generate multiple output
# files in one run (i.e. multiple -o and -T options on the command line). This
# makes dot run faster, but since only newer versions of dot (>1.8.10)
# support this, this feature is disabled by default.

DOT_MULTI_TARGETS      = NO

# If the GENERATE_LEGEND tag is set to YES (the default) Doxygen will
# generate a legend page explaining the meaning of the various boxes and
# arrows in the dot generated graphs.

GENERATE_LEGEND        = YES

# If the DOT_CLEANUP tag is set to YES (the default) Doxygen will
# remove the intermediate dot files that are used to generate
# the various graphs.

DOT_CLEANUP            = YES

#---------------------------------------------------------------------------
# Configuration::additions related to the search engine
#---------------------------------------------------------------------------

# The SEARCHENGINE tag specifies whether or not a search engine should be
# used. If set to NO the values of all tags below this one will be ignored.

SEARCHENGINE           = NO
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/doc/Doxyfile
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_kaps_arm_image.h, radan Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_kaps_arm_image.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lif.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_lif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       api_mode_yy.h
* Purpose:     API mode lexer/parser interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/api_mode_yy.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tunnel.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Manages l3 interface table, forwarding table, routing table
*
* Note : Not for RoboSwitch currently.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

SDK Linux User Support

The Broadcom SDK can be compiled as part of a user space application,
for development flexibility and debugging purposes.

In this configuration, the entire driver is compiled as a user space
library, which you can link with your application. It will provide all
regular driver features, but at some cost in performance.

The core of the user space support is in the Linux User Mode BDE
(Broadcom Device Enumerator). This BDE provides all chip virtualization
for user mode execution, which includes device PCI access, register
address space mmapping, and interrupt virtualization.

When running in this mode, the entire driver, including interrupt
handling, can be debugged from user space using GDB, and you should
never crash your machine.

The user space support requires a couple of kernel modules to provide
the virtualization services:

linux-kernel-bde.o
---

source: sdk/systems/bde/linux/kernel

See the ../kernel/README file for information on the use the
linux-kernel-bde module.

linux-user-bde.o
---

source: sdk/systems/bde/linux/user/kern

The Linux user BDE implentation is comprised of two parts -- a kernel

module, and a user space library. The linux-user-bde is the kernel
portion and it relies upon the linux-kernel-bde module to access the
devices in the system, and it then provides PCI, DMA, register, and
interrupt virtualization to the user space library, which provides the
actual BDE interface pointer.

You must load both the linux-kernel-bde and the linux-user-bde
modules before running your user space BCM application.

Configurations for building the BCM diag shell application for
specific BRCM platforms are available in the subdirectories of this
directory. For example, building the user space BCM diag shell for the
BRCM 8245 CPCI board (BMW) is done by:

```
 cd bmw; gmake
```

The products of this build will be the linux-kernel-bde.o and
linux-user-bde.o modules, and the bcm.user application.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/README
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_gsa_petra_api.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_gsa_petra_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_trunk.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: TRUNK APIs
*
* Purpose:
*     TRUNK API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/sbx/caladan3/wb_db_trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* STG support
*
* These functions set or get port related fields in the Spanning tree
* table.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/stg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_application.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_qos_policer.c
* Purpose: An example of the QoS ingress policer remark out PCP-DEI.
*
*	Wherever the IVE PCP-DEI is configured to use a mapping of the TM state TC(Traffic Class)-DP (Drop Precedence),
*	a better mapping will take into account the meter color of the packet as the more current Drop Precedence value.
*	The following CINT provides a calling sequence example to map TC-DP to PCP-DEI in two mode: simple mode and advance mode.
*	In simple mode, bcm_port_control_set API can directly set DP profile ID which will be used with the port for both outer tag PCP-DEI and
*	inner tag PCP-DEI. A new SOC property is needed in simple mode.
*	In advance mode, bcm_port_control_set API  set  DP proifle ID which will be used with the port for out tag PCP-DEI or inner tag PCP-DEI.
*	It should be noted that policer map will share the port class with other feature in advance mode. if port class changed and policer map is working
*	in advance mode, then the QOS map ID should be set again.
*	DP profile map Ingress-DP and selected PCP-DEI by IVE to new PCP-DEI
* Calling sequence:
*
* Initialization:
*	set the mode which policer map work, default is simple mode
*
* Set up sequence:
*  1. Create QOS LIF
```

```
*       - Call bcm_vlan_port_create() with criterias BCM_VLAN_PORT_MATCH_PORT_VLAN  and following
flags:
*               BCM_VLAN_PORT_OUTER_VLAN_PRESERVE |
BCM_VLAN_PORT_INNER_VLAN_PRESERVE
*  2. Set QOS LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  3. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
*  4. Create QOS ingress remark DP map and add to INLIF (remark ingress DP)
*  5. Create QOS DP map mapping PCP-DEI and set to INLIF (simple or advance mode)
*       - Call bcm_port_control_set ()
*
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete QOS LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Distroy QOS map profile.
*       - Call bcm_qos_map_destroy()
*
* Service Model:
* Ingress QOS remark profile
*      remark IP packet DP to bcmColorGreen
* DP profile 1:
*     bcmColorGreen ----------------------PCP-DEI 12 (PCP = 6, DEI =0)
* DP profile 2
*     bcmColorGreen ----------------------PCP-DEI 11 (PCP = 5, DEI =1)
* Simple mode Mapping
*     outer/inner  tag -----DP profile 1
* Advance mode Mapping
*     outer tag -----DP profile 1
*     inner tag -----DP profile 2
*
* Traffic:
*  1.  VLAN tag: TPID 0x8100, VID 100, priority 3
*  2.  output packet :
*           simple mode ------outer/inner tag pcp=6, dei = 0
*           advance mode ------outer tag pcp=6, dei = 0; inner tag pcp=5, dei = 1
*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/utility/cint_utils_global.c
*      BCM> cint examples/dpp/cint_qos_policer.c
*      BCM> cint
*      cint> qos_color_mapping_pcp_init($unit, $mode);
*      cint> policer_remark_pcp_example($unit, $inPort, $outPort);
*      cint> qos_policer_clean($unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_policer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv6OnlyConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashIPv6OnlyConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register address and value manipulations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/reg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wlan.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* WLAN module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port_test1588.c
* Purpose:    Functions to support CLI 1588 testing commands
```

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/port_test1588.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    knet.c
* Purpose: Manages common KNET functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/knet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpBfPriTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ip_route_rpf.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_route_rpf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkExtSwitchApi.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:     TkExtSwitchApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkExtSwitchApi.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: falcon_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : falcon_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: er_tcam.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:      er_tcam_h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/er_tcam.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_end2end.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_end2end.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: field.c,v 1.112 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/field.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: stat_clmib.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_clmib.c
No license file was found, but licenses were detected in source scan.

/*
* Misc system wide definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmdefs.h,v 1.2 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmdefs.h
No license file was found, but licenses were detected in source scan.

/* $Id: dnxc_mbist.h,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_mbist.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_mpls_term.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_mpls_term.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_mpls_term.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: stg.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/stg.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_gre_learn_data_rebuild.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_gre_learn_data_rebuild.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: subport.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains subport definitions internal to the BCM library.
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/subport.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_debug.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_debug.c
*
* MODULE PREFIX:  Soc_petra
*
* SYSTEM:         DuneDriver/tmc/src/
*
* FILE DESCRIPTION: Different APIs for helping for debugging.
*
* REMARKS:  None.
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.h,v 1.84 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains L3 definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/l3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ppe_diags_c.stg,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_ppe_diags.c: Guadalupe2k V1.3 microcode PPE diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_ppe_diags.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  merlin_sesto_functions.h                                  *
*  Created On    :  29/04/2013                                                *
*  Created By    :  Kiran Divakar                                             *
*  Description   :  Header file with API functions for Serdes IPs             *
*  Revision      :  $Id: merlin_sesto_functions.h 844 2015-01-12 20:58:16Z kirand $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
```

```
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                 *
*                                                                                 *
***********************************************************************************
***********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_elk_acl.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_elk_acl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56440_a0.c
* Purpose:     bcm56440_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56440_a0.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_petra_acc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_petra_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-knet-kcom.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Provides a kcom interface using User/Kernel proxy services
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/bcm-knet-kcom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_mvt.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_mvt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs6.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs6.h
* Purpose:    10G 802.3ae Ethernet PHY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs6.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs5.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.h
* Purpose:     10G 802.3ae Ethernet PHY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs5.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCT.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPCT.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_general.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_diags.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/sbx_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_wb_engine.c,v 1.75 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_wb_engine.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdesassumed.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdes.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdesassumed.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls_lm_dm_sdk_pack.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mpls_lm_dm_sdk_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
*
* Provides:
```

```
*      soc_internal_vlan_xlate_hash
*      soc_internal_vlan_xlate_dual_banks
*      soc_internal_vlan_xlate_entry_read
*      soc_internal_vlan_xlate_entry_write
*      soc_internal_vlan_xlate_entry_ins
*      soc_internal_vlan_xlate_entry_del
*      soc_internal_vlan_xlate_entry_lkup
*      soc_internal_egr_vlan_xlate_hash
*      soc_internal_egr_vlan_xlate_dual_banks
*      soc_internal_egr_vlan_xlate_entry_read
*      soc_internal_egr_vlan_xlate_entry_write
*      soc_internal_egr_vlan_xlate_entry_ins
*      soc_internal_egr_vlan_xlate_entry_del
*      soc_internal_egr_vlan_xlate_entry_lkup
*
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/vlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_lsr.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_lsr.c
* Purpose: Example of the MPLS label switching router configuration.
*
*
~~~
```

```
* |        .           \/       /|/ /    +---------------+        .                |
* |        . . .        +--------+ |/                      .                 |
* |            .       |  LSR   | |              .        .                 |
* |            .    . |      |/             . .     .                  |
* |              . .  .+--------+      .       .     . . .                  |
* |                  . . .   .    .  .     .                          |
* |                      . .  . .      . . .                            |
* | +-----------+                                                        |
* | +-----------+ LSP          +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                        |
* |                        | Figure 22: MPLS Network Model |                        |
*
~~~~~~~~~~~~~~~~~~~
```

```
*     BCM> cint utility/cint_utils_l3.c
*     BCM> cint cint_mpls_lsr.c
*     BCM> cint
*     cint> int rv;
*     cint> int nof_units = <nof_units>;
*     cint> int units[nof_units] = {<unit1>, <unit2>,...};
*     cint> int outP = 13;
*     cint> int inP = 13;
*     cint> int outSysport, inSysport;
*     cint> port_to_system_port(unit1, outP, &outSysport);
*     cint> port_to_system_port(unit2, inP, &inSysport);
*  Scenario 1:
*     cint> rv = mpls_lsr_run_with_defaults_multi_device(units, nof_units, inSysport, outSysport);
*  Scenario 2:
*     cint> rv = lsr_basic_example(&units,nof_units,in_Sysport,out_Sysport);
* Traffic:
*   Scenario 1:
*   Sending packet from egress port 1:
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-+-+    |
*   |    | DA |SA||TIPD1 |Prio|VID||   MPLS   || Data |    |
*   |    |0:11|  ||0x8100|    |100||Label:5000||      |    |
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+-+-+-+-+-+-+-+-+-+    |
*   |   +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+   |
*   |   | Figure 23: Sending Packet from Egress Port 1 |   |
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
* * The packet will be received in egress port 1 with following header
*   (label swapped, Ethernet header updated).
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-+-+    |
*   |    |DA| SA ||TIPD1 |Prio|VID||   MPLS   || Data |    |
*   |    |  |0:11||0x8100|    |   ||Label:8000||      |    |
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+-+-+-+-+-+-+-+-+-+    |
*   |   +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+   |
*   |   | Figure 24: Packets Received on Egress Port 1 |   |
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
*   Scenario 2:
*   Sending packet from egress port 1:
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+    |
*   |    | DA |SA||TIPD1 |Prio|VID||   MPLS   ||   MPLS   || Data |    |
*   |    |0:11|  ||0x8100|    |10 ||Label:400 ||Label:1000||      |    |
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+-+-+-+-+-+-+-+-+-+-+-+-+-+-+    |
*   |   +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+    |
*   |   | Figure 25: Sending Packet from Egress Port 1            |    |
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

```
*
* * The packet will be received in egress port 1 with following header
*   (First MPLS is terminated (400), Second MPLS is swapped (1000->2000), add additional MPLS header (200)
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-++-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+    |
*   |    |DA|SA  ||TIPD1 |Prio|VID||   MPLS   ||   MPLS   || Data |    |
*   |    |  |0:11||0x8100|    |10 ||Label:200 ||Label:2000||      |    |
*   |    +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+--+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+    |
*   |   +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+    |
*   |   | Figure 26: Packet Received on Egress Port 1             |    |
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*
* Mpls Raw processing:
* You can send and/or receive an mpls raw packet, (e.g without the preceding ethernet header)
* by configuring mpls raw processing on the relevant port.
* First, set relevant soc property: port_raw_mpls_enable = 1; Then, call:
* enable_mpls_raw_processing(port);
*
* Remarks:
*  *   You can add more label mappings using mpls_add_switch_entry().
*  *   In EA1, building the Vlan-tag of  the new Ethernet header is not fully correct.
*
* Script adjustment:
*  You can adjust the following attributes of the application:
*  -  Vid, my_mac:     ethernet attribute, MPLS packets arrived on this VLAN with this MAD as DA,
*                      will be L2 terminated and forwarded to MPLS engine
*  -  in_label:        incoming label to Swap
*  -  eg_label:        egress label
*  -  eg_port:         physical port to forward packet to
*  -  eg_vid:          VLAN id to stamp in new Ethernet header
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_lsr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.76 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Library Initialization
*
*   This module calls the initialization routine of each BCM module.
*
* Initial System Configuration
```

```
*
*   Each module should initialize itself without reference to other BCM
*   library modules to avoid a chicken-and-the-egg problem.  To do
*   this, each module should initialize its respective internal state
*   and hardware tables to match the Initial System Configuration.  The
*   Initial System Configuration is:
*
*   STG 1 containing VLAN 1
*   STG 1 all ports in the DISABLED state
*   VLAN 1 with
*  PBMP = all switching Ethernet ports (non-fabric) and the CPU.
*  UBMP = all switching Ethernet ports (non-fabric).
*   No trunks configured
*   No mirroring configured
*   All L2 and L3 tables empty
*   Ingress VLAN filtering disabled
*   BPDU reception enabled
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibIpSegmentConsole.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbZfG2EplibIpSegmentConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsDepthHplenEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsDepthHplenEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xaui.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xaui.h
* Purpose:     Miscellaneous XAUI functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/xaui.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-12x10g.bcm,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 12x10G setup
#
ddr3_auto_tune=0

lie_pr_buffer_profile=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=12
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3
ucode_port.port5.0=clport0.xe.1.0:clport1.hg126.0.4
ucode_port.port6.0=clport0.xe.1.1:clport1.hg126.0.5
ucode_port.port7.0=clport0.xe.1.2:clport1.hg126.0.6
ucode_port.port8.0=clport0.xe.1.3:clport1.hg126.0.7
ucode_port.port9.0=clport0.xe.2.0:clport1.hg126.0.8
ucode_port.port10.0=clport0.xe.2.1:clport1.hg126.0.9
ucode_port.port11.0=clport0.xe.2.2:clport1.hg126.0.10
ucode_port.port12.0=clport0.xe.2.3:clport1.hg126.0.11

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe8=0x1230
```

```
xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_xe10=0x0000
phy_xaui_rx_polarity_flip_xe11=0x0001


phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_xe10=0x0001
phy_xaui_tx_polarity_flip_xe11=0x0001



#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
```

```
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode


# For System 132
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x0000075d
ddr3_tune_wr_dq_wl1_ci2.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x99999898,0x97979b9b
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10.0=0x00a5a5a5,0x00a0a39d
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x98989393
ddr3_tune_rd_en_ci2.0=0x00a1a1a1,0x00a3a6a0
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci10.0=0x000000b1
ddr3_tune_wr_dq_wl0_ci6.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci4.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009c9d9c,0x00979b94
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x99999494,0x9a9a9393
ddr3_tune_rd_dqs_ci0.0=0x9a9a9494,0x99999393
ddr3_tune_rd_en_ci4.0=0x009d9e9d,0x00999b97
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b3
```

ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b3
ddr3_tune_wr_dq_wl0_ci8.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci6.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00999999,0x009c9e9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci14.0=0x9a9a9999,0x98989b9b
ddr3_tune_rd_dqs_ci2.0=0x9b9b9494,0x9a9a9494
ddr3_tune_rd_en_ci6.0=0x009a9a9a,0x00979995
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x0000079e
ddr3_tune_addrc_ci2.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci14.0=0x000000b2
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci14.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci4.0=0x98989494,0x99999b9b
ddr3_tune_rd_en_ci8.0=0x00989899,0x009b9d9a
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl1_ci0.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x84848484,0x84848484,0x89898989,0x89898989

```
ddr3_tune_rd_dqs_ci6.0=0x99999292,0x99999898
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b4
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x00a2a2a3,0x009ea19b
ddr3_tune_wr_dq_wl0_ci10.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-12x10g-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_system_vswitch.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System resource example:
* In the following CINT we will try to provide an example of System resources in local mode.
*    The focus of the CINT is on PWE-LIFs (bcm_mpls_port_t object in BCM API).
* Similiar principles are apply also to other LIF types such as bcm_vlan_port_t
* (see cint_system_vswitch.c).
* Each PWE-LIF allocates two objects: An Ingress LIF entry and an Egress LIF entry.
* In case of 1:1 protection also a L2 FEC object that stores
* the protection pairs is also being created.
*    When working with system resources in global mode all 3 objects are required to be
* allocated on all devices with the same object ID.
* Please see an example of such schemes in:
* cint_vswitch_metro_mp_multi_devices.c, cint_vswitch_cross_connect_p2p_multi_device.c
*    When working with system resources in local mode not all 3 objects are required to be
* allocated on all devices:
*  * In/Out-PWE-Lif need to be created only on devices where the PWE is attached to.
*  In case of LAGs, these may be all the potential devices that connect to the LAG port members.
*  * The L2 FEC needs to be created only on devices that forward to the Lif.
*  The following CINT provides some basic examples of PWE-LIf VPLS vswitch allocation schemes when
*  working in local mode.
*  1. MPLS P2P unprotected: see system_mpls_port_p2p_example
*  2. MPLS MP unprotection: see system_mpls_port_mp_example
*  3. MPLS P2P/MP protected: see system_protected_mpls_port_example
*
* assumptions:
* 1. run two devices in same CPU.
* 2. in call unit1 != unit2.
* 3. diag_chassis=1
```

```
* 4. bcm88xxx_system_resource_management.<unit1>=1
*    bcm88xxx_system_resource_management.<unit2>=1

* How to run:
cint;
cint_reset();
exit;
cint ../../../../src/examples/dpp/utility/cint_utils_global.c
cint ../../../../src/examples/dpp/utility/cint_utils_mpls.c
cint ../../../../src/examples/dpp/utility/cint_utils_mpls_port.c
cint ../../../../src/examples/dpp/utility/cint_utils_multicast.c
cint ../../../../src/examples/dpp/cint_port_tpid.c
cint ../../../../src/examples/dpp/cint_mact.c
cint ../../../../src/examples/dpp/cint_qos.c
cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
cint ../../../../src/examples/dpp/cint_mpls_lsr.c
cint ../../../../src/examples/dpp/cint_vswitch_vpls.c
cint ../../../../src/examples/dpp/cint_vswitch_cross_connect_p2p.c
cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
cint ../../../../src/examples/dpp/cint_multi_device_utils.c
cint ../../../../src/examples/dpp/cint_system_vswitch_encoding.c
cint ../../../../src/examples/dpp/cint_system_vswitch.c
cint ../../../../src/examples/dpp/utilities/cint_utils_mpls_port.c
cint ../../../../src/examples/dpp/cint_system_vswitch_vpls.c
cint
verbose = 3;
int rv;
int unit1 = 0;
int unit2 = 1;
int sysport1, sysport2, sysport3, sysport4;
print port_to_system_port(unit1, 13, &sysport1);
print port_to_system_port(unit1, 14, &sysport2);
print port_to_system_port(unit2, 15, &sysport3);
print port_to_system_port(unit2, 14, &sysport4);
for MPLS P2P case:
print system_mpls_port_p2p_example(unit1,sysport1,unit2,sysport3);

for MPLS MP case:
print system_mpls_port_mp_example(unit1,sysport1,sysport2,unit2,sysport3);

for MPLS P2P protection case:
print system_protected_mpls_port_example(unit1, sysport1, unit2, sysport3,sysport4,0);

for MPLS MP protection case:
print system_protected_mpls_port_example(unit1, sysport1, unit2, sysport3,sysport4,1);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_system_vswitch_vpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/mbcm_pp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/mbcm_pp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/mbcm_pp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER2/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ssr.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ssr.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_ssr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Rate - Broadcom RoboSwitch Rate Limiting API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsLib.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/flashFsLib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_fpga.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/utils_fpga.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/utils_fpga.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_debug.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_debug.c
*
```

```
* MODULE PREFIX:  Soc_petra
*
* SYSTEM:        DuneDriver/jer2_tmc/src/
*
* FILE DESCRIPTION: Different APIs for helping for debugging.
*
* REMARKS:  None.
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_debug.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

# Uncomment out below for higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=24
ucode_port.port1.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port2.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port3.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port4.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port5.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port6.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port7.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port8.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port9.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port10.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port11.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port12.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port13.0=clport0.hg10.0.1-1:il1.il100.0.1-1
```

```
ucode_port.port14.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port15.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port16.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port17.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port18.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port19.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port20.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port21.0=clport0.ge.1.0:il1.il100.0.2
ucode_port.port22.0=clport0.ge.1.1:il1.il100.0.3
ucode_port.port23.0=clport0.ge.1.2:il1.il100.0.4
ucode_port.port24.0=clport0.ge.1.3:il1.il100.0.5

port_init_speed_ge=1000
serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2


higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_hg0=0x1230
xgxs_rx_lane_map_ge0=0x1032

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_ge0=0x3210


phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg10=0x0000
phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001


phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001
phy_xaui_tx_polarity_flip_ge0=0x0001
phy_xaui_tx_polarity_flip_ge1=0x0001
phy_xaui_tx_polarity_flip_ge2=0x0001
phy_xaui_tx_polarity_flip_ge3=0x0001
```

```
#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#For auto negotiation on the GE ports
phy_an_c73_ge=0

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
```

ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d

ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x1g_2xhg10-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: xmem.c,v 1.8.74.1.2.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/customer/xmem.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: caladan3_cint_data.c,v 1.2 Broadcom SDK $
*
*

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* caladan3_cint_data.c: Guadalupe2k V1.3 C-Interpreter functions
*
* This file contains the manually created portions of the
* g3p1 SoC CINT API.  Most of these will become auto generated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/caladan3_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_mbist_test.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Built-in Self Test for Trident2
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/trident2_mbist_test.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: pkt.64,v 1.2 2011/06/10 16:39:35 vadivelm Exp $
# $Copyright: (c) 2006 Broadcom Corp.
# All Rights Reserved.$
#
#
101112131415 000102030405 8100 0001
00 01 02 03 04 05 06 07 08 09 0a 0b 0c 0d 0e 0f
10 11 12 13 14 15 16 17 18 19 1a 1b 1c 1d 1e 1f
20 21 22 23 24 25 26 27 28 29 2a 2b 2c 2d 2e 2f
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pkt.64
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkMsgProcess.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:     TkMsgProcess.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkMsgProcess.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv4.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arl.c
* Purpose:
*      Provide some TB specific ARL soc drivers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_llist.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core linked list functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_llist.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPriExpTosRewriteConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPriExpTosRewriteConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_tdm.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_tdm.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmctdm
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_ifp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_ifp.c
* Purpose: Maintains all the debug information for ifp
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/ifp/tomahawk_ifp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250_sbprof.c,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*  Copyright (c) 2002
*  Broadcom Corporation, Irvine, CA
*
*  BROADCOM PROPRIETARY AND CONFIDENTIAL
*
*  This software is furnished under a Broadcom license agreement
*  and may only be used in accordance with and subject to the terms
*  and conditions of such license.
*
* Author: Mark Vandevoorde
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250_sbprof.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision     :  $Id: srds_api_enum.h 977 2015-03-19 02:24:29Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/common/srds_api_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/common/srds_api_enum.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap21v_app.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap21v_app.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwAllocCfgBaseEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwAllocCfgBaseEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ser.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:      ser.c
* Purpose:   SER enable/detect and test functionality.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3/ser.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flashS29GL256PDrvLib.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashS29GL256PDrvLib.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashS29GL256PDrvLib.c
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# ARAD (BCM88650) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done"'
# Avoid link messages while testing
linkscan off
counter off
ctrp suspend
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Clear test statistics
tc *

#Display some useful information
date

echo "No tr tests for PB. Sanity is successfull bringup"

date
tl
local returnCode $?
#echo "testsuite: finished: sanity: $returnCode"
#Force sanity to 1. No TRs for PetraB. This will indicate successfull power-up.
echo "testsuite: finished: sanity: 0"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88640sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l3.c,v Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: L3 APIs
*
* Purpose:
*     Warm boot support for L3 API for Caladan3 Packet Processor devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    counter.c
* Purpose:     Tracks and manages onu chip stats.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bhh_feature.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bhh_feature.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                            *
```

```
*  Created By    :  Kiran Divakar                                    *
*  Description   :  Header file with Error Code enums                        *
*  Revision      :  $Id: srds_api_err_code_public.h 1078 2015-07-07 23:43:37Z kirand $ *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without           *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/public/srds_api_err_code_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp_xpt.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_kbp_xpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: async_req.h
* Purpose: Async BCM - request structure
* Generator: mkdispatch 1.54
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/async_req.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmdbllinklistdata.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmdbllinklistdata.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ast_debug.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_ast_debug.c
* Purpose:     CINT debug functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_ast_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3_priv.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3_priv.h
* Purpose:     Forward definitions only used by l3.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/l3_priv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndRecordConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpVlanIndRecordConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_oam.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_endpoint_over_lag.c
* Purpose: Example of building an OAM endpoint over lag.
*
* Note that lag and trunk will be used interchangeably through this cint.
*
* Configuration Steps
* --------------------
*
* This cint demonstrates the construction of an OAM endpoint over lag. The steps are:
* 1. Create a lag (trunk).
* 2. Add (four) ports to this lag.
* 3. Create an ethernet port (vlan-port) over the lag.
*  3.5 Optional: Create another vlan_port and cross connect both vlan ports, for testing purposes (explained below).
*      In trunk only test, the test will end here.
* 4. Create an OAM group.
* 5. Create the Oam endpoint (MEP) with the vlan gport.
* 6. Enable mymac for the other lag ports. (Step 5 only enables the endpoint mymac for the first physical port)
*
* Calling order:
* --------------
*
* cint <sdk>/src/examples/dpp/cint_multi_device_utils.c
* cint <sdk>/src/examples/dpp/cint_oam_endpoint_over_lag.c
* c
* oam_endpoint_over_lag__init(<lag_port1>,<lag_port2>,<lag_port3>,<not_lag_port>);
* * Optional: Configure the values define as "IN" in the oam_endpoint_over_lag_1 struct.
* print oam_endpoint_over_lag_main(<unit>, <test_level>);
*
*
* * Note: If not running the test, the not_lag_port can be -1.
*
* Running the test (test level 1):
* -----------------
*
```

* The purpose of the test is to show that it is neccessary to configure the mymac manually for each lag port. For that, we'll
* configure the trunk, two cross connected vlan ports, and an endpoint over one of the vlan ports. We'll then send traffic,
* and see how the endpoint is only configured on the first physical port in the trunk, and the rest of the ports switch to the
* cross connected port. Next, we'll configure the mymac, and see how traffic through all ports is trapped and sent to cpu.
*
* Test steps:
*
* 1. Run the calling order above, with test_level=1.
* 2. Send traffic through the lag ports with the headers below. You'll see that the packet through the first lag port will be trapped
* and sent to cpu, and that the packets thorugh the other ports will be switched to the cross connected port and vlan translated:
* Eth header (link layer):
* DA: 00:00:11:22:33:44
* SA: Any
* tpid: 0x8100
* vlan: 100
* next_protocol_id: 0x8902
*
* OAM header:
* mdl: 3
* opcode: 3
* lti: 1
* version: 0
* oamtype: 3
* offset: 4
*
* 3. Call oam_endpoint_over_lag_assign_mymac_to_ports.
* 4. Send the traffic from 2. All of it will be trapped to cpu.
*
*
* Running Trunk Only test (test level 2)
* ----------
*
* This test is not related to OAM, and it's used to test that switching over trunk is working as expected.
* In this test, we configure a trunk, cross connect it, and then send packets through all trunk ports.
*
* Test steps:
*
* 1. Run the calling order above, with test_level=2.
* 2. Send traffic through the lag ports with the headers below. You'll see that the packets will be switched to the cross connected
* port and vlan translated:
* Eth header (link layer):

```
* DA: 00:00:11:22:33:44
* SA: Any
* tpid: 0x8100
* vlan: 100
*
* The rx packet will be:
*
* DA: 00:00:11:22:33:44
* SA: Any
* tpid: 0x8100
* vlan: 1000
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_endpoint_over_lag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_trap.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_trap.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Routines for defragmenting member tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/defragment.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*  This file implements Switch specific Bus access to the PMD.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_dependencies.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_evb_example.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_xgs_mac_extender_mappings.c
* Purpose: Provide an example of MAC extender application between ARAD and XGS devices.
* In this system ARAD is in device-mode PP and connected to several XGS devices usually as 1G Port extedner.
* CINT provides an example of setting for ARAD
*
*
~~~
```

```
* |       |1            |   HG    |31           |                                |
* |       |2            |---------|32           |                                |
* |       |3            |         |33           |                                |
* |       |.            |         |.            |                                |
* |       |.            |         |.            |                                |
* |       |9            |         |38           |                                |
* |       ---------------|         ---------------|                                |
* |                                                                              |
* |                                                                              |
* |                        +~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                        |
* |                        | Figure : XGS MAC extender|                          |
*
~~~~~~~~~~~~~~~~~~~
```

```
*  Define or replace the following SOC properties than the default Negev application:
*   - ucode_port_0=CPU.0
*   - ucode_port_1=XLGE0.0
*   - ucode_port_21=XLGE0.1
*   - ucode_port_22=XLGE0.2
*   - ucode_port_23=XLGE0.3
*   - ucode_port_24=XLGE0.4
*   - ucode_port_25=XLGE0.5
*   - ucode_port_26=XLGE0.6
*   - ucode_port_27=XLGE0.7
*   - ucode_port_28=XLGE0.8
*   - ucode_port_29=XLGE0.9
*   - ucode_port_2=XLGE1.0
*   - ucode_port_31=XLGE1.1
*   - ucode_port_32=XLGE1.2
*   - ucode_port_33=XLGE1.3
*   - ucode_port_34=XLGE1.4
*   - ucode_port_35=XLGE1.5
*   - ucode_port_36=XLGE1.6
*   - ucode_port_37=XLGE1.7
*   - ucode_port_38=XLGE1.8
*   - ucode_port_39=XLGE1.9
*   - diag_disable=1
*   - tm_port_header_type_in_0.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_0.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_1.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_1.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_21.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_21.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_22.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_22.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_23.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_23.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_24.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_24.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_25.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_25.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_26.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_26.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_27.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_27.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_28.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_28.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_29.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_29.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_2.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_2.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_31.BCM88650=XGS_MAC_EXT
```

```
*    - tm_port_header_type_out_31.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_32.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_32.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_33.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_33.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_34.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_34.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_35.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_35.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_36.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_36.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_37.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_37.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_38.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_38.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_in_39.BCM88650=XGS_MAC_EXT
*    - tm_port_header_type_out_39.BCM88650=XGS_MAC_EXT
*    - port_priorities.BCM88650=2
*
*
*    - cint ../../../../src/examples/dpp/cint_xgs_mac_extender_mappings.c
*    - cint ../../../../src/examples/dpp/cint_mact.c
*    - cint
*    - int unit = 0;
*    - xgs_mac_extender_main(unit);
*    - example_new_vlan_entries(unit,1,2,31,1);
*
*    Example traffic: Send traffic from XLGE1
*    HG.SRC_PORT = 0, HG.SRC_MODID = 1.
*    Ethernet: DA 00:00:00:00:00:ab VLAN=1
*    Expect:
*    Unicast Packet will be send to from Src-port 2 to Destination-port 31.
*    No changes to Ethernet packet.
*    HG.DST_PORT = 1, HG.DST_MODID=1
*    All other PP applications can work as usual.
*
*    Note: Assuming the application is bring-up with the default Negev application (appl_dpp).
*    In this example, we try to simplify the settings so it is done after the default Negev application is up.
*    It is recommended to set XGS MAC extender mappings before setting system ports in the system.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_xgs_mac_extender_mappings.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/include/tdm_th2_soc.h#4 $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM soc header for BCM56970
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk2/tdm_th2_soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xasync.h
* Purpose: Asynchronous BCMX API routines
* Generator: mkdispatch 1.54
* Generated: Thu Feb 21 13:03:48 2013
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/async.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_termination_bos_check.c,v 1.00 2016/09/19 12:19:51 Jingli Guo $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_termination_bos_check.c
* Purpose: Example of mpls termination bos check.
*          In this example, it will demo mpls termination checking bos.
* when configuring mpls termination with expecting bos option, the mpls label should be terminated only
* if it's the bos. otherwise an unexpected no-bos will be recoginized..
*  By default, trap strength for this event is 0, so the mpls termination still continue;
*  Customer could set its strength as 4 (or larger value) so that this packet will be dropped.
* Test Scenario
*
* ./bcm.user
* cd ../../../../regress/bcm
* cint ../../src/examples/dpp/utility/cint_utils_global.c
```

```
* cint ../../src/examples/dpp/cint_mpls_termination_bos_check.c
* cint
* mpls_termination_add_with_bos_check_with_default(0,200,202);
* exit;
*
* tx 1 psrc=200
data=0x0000000000110000da3c4bca810000648847000c88040019090400010203040506070809 0a0b0c0d0e0f1011
12131415161718191a1b1c1d1e1f20
*
*  Received packets on unit 0 should be:
*  Source port: 0, Destination port: 0
*  Data:
0x00000000002300000000000022810000c808000001020304050607080 90a0b0c0d0e0f101112131415161718191a1b
1c1d1e1f20000000
* cint ../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../src/examples/dpp/cint_mpls_termination_bos_check.c
* cint
* unexpcted_no_bos_termination_drop_set(0,1);
* exit;
*
* tx 1 psrc=200
data=0x0000000000110000da3c4bca810000648847000c88040019090400010203040506070809 0a0b0c0d0e0f1011
12131415161718191a1b1c1d1e1f20
*
*  Received packets on unit 0 should be:
*
* tx 1 psrc=200
data=0x0000000000110000e37c126e810000648847000c89044500003500000000400d9ed0a0a0a0a646464640001
02030405060708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
*  Received packets on unit 0 should be:
*  Source port: 0, Destination port: 0
*  Data:
0x00000000002300000000000022810000c808004500003500000000300daed0a0a0a0a646464640001020304050607
08090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_termination_bos_check.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_mem_init.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_mem_init.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_stk_mc_dyn_3tmd.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stk_mc_dyn_3tmd.c
* Purpose: Example Stacking MC Validation
* Reference: BCM88650 TM Device Driver (Stacking)
*
*
* Environment:
*      Assuming UC environment (look at: cint_stk_uc_dyn_3tmd.c Environment description).
*
*
* Configuration :
*     set the same configurations as in UC (look at: cint_stk_uc_dyn_3tmd.c Relevant soc properties configuration).
*
*
* Stacking dynamic configuration flow:
*          1. set all the configurations of the stacking system (look at: cint_stk_uc_dyn_3tmd.c look at Stacking
dynamic configuration flow).
*          2. Set multicast group:
*              a. open multicast group.
*              b. set multicast ports replications and flow.
*
* Run Application:
*     cd ../../../../src/examples/dpp
*     cint cint_stk_mc_dyn.c
*     cint
* In TMD 0:
*     stacking_mc_dyn_3tmd_appl(unit, 0);
* In TMD 1:
*     stacking_mc_dyn_3tmd_appl(unit, 1);
* In TMD 2:
*     stacking_mc_dyn_3tmd_appl(unit, 2);
*
*
* Test Run 1:
*    1. inject packet from in port (of TM-domain 0 or 2). packet format:
*         a. eth packet
```

```
*        b. da[5] = out port in hex % 256 ( --> 0x0,0x0,0x0,0x0,0x40,0x0).
*        c. sa changes (for lb-key)
*        d. vlan tag = 1.
*  2. Expected Output:
*       a. according to the configured output port, the same packet should appear at the output - capture out going
packet.
*       b. traffic should be sent to all stacking ports, and out-port.
*       c. expected output of shell command "show counters" :
*          (for one packet sent from Tm-domain 2)
*
*       on TM-domain 2:
*
*      RX
*      ---
*      Port ||       snmpIfHCInUcastPkts |        snmpIfInNUcastPkts |            snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*      ---------------------------------------------------------------------------------------------------------------
*        13 ||                      1 |                      0 |                      0 |                      1 |
*      TX
*      ---
*      Port ||      snmpIfHCOutUcastPkts |       snmpIfOutNUcastPkts |           snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*      ---------------------------------------------------------------------------------------------------------------
*         1 ||                      1 |                      0 |                      0 |                      1 |
*        14 ||                      0 |                      1 |                      0 |                      1 |
*        16 ||                      0 |                      1 |                      0 |                      1 |
*
*          * packet should leave from port 15 or port 14, selected randomly.
*
*       on TM-domain 1:
*
*      RX
*      ---
*      Port ||       snmpIfHCInUcastPkts |        snmpIfInNUcastPkts |            snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*      ---------------------------------------------------------------------------------------------------------------
*        13 ||                      0 |                      1 |                      0 |                      1 |
*      TX
*      ---
*      Port ||      snmpIfHCOutUcastPkts |       snmpIfOutNUcastPkts |           snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*      ---------------------------------------------------------------------------------------------------------------
*        15 ||                      0 |                      1 |                      0 |                      1 |
*        17 ||                      1 |                      0 |                      0 |                      1 |
*
*          * packet should enter from port 14 or port 13 depend on which port it's leave Tm-domain 2, and leave from
port 15 or port 16, selected randomly.
*
```

```
*       on TM-domain 0:
*
*      RX
*      ---
*      Port ||       snmpIfHCInUcastPkts |        snmpIfInNUcastPkts |            snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*      ----------------------------------------------------------------------------------------------------------------
*        15 ||                    0 |                    1 |                    0 |                    1 |
*      TX
*      ---
*      Port ||      snmpIfHCOutUcastPkts |       snmpIfOutNUcastPkts |           snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*      ----------------------------------------------------------------------------------------------------------------
*         1 ||                    1 |                    0 |                    0 |                    1 |
*        13 ||                    1 |                    0 |                    0 |                    1 |
*        17 ||                    1 |                    0 |                    0 |                    1 |
*
*          * packet should enter from port 14 or port 13 depend on which port it's leave Tm-domain 1.
*
*
*    Flooding example:
*    flooding in Stacking system is done by creating Ingress MC group with mc_id=vlan, CUD=vlan which contain
all the Stacking ports and the ERP port, in all TM-domains.
*    The packet to ERP port with CUD=vlan will create flooding in the current domain. Only one of the packets
towards the Stacking port will pass to the next TM-domain,
*    and will be distributed to Stacking ports (should be filtered by Trap), local ERP port.
*    This example is based on Stacking UC application, and ERP port bring up.
*
*      Usage:
*          In TMD 0: stacking_flooding_dyn_3tmd_appl(unit, 0);
*          In TMD 1: stacking_flooding_dyn_3tmd_appl(unit, 1);
*          In TMD 2: stacking_flooding_dyn_3tmd_appl(unit, 2);
*
*      to test flooding - injected packet with unknown destination address .
*      packet should leave through all the ports.
*
* Remarks:
*    1. Read Stacking section in BCM88650 TM Device Driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stk_mc_dyn_3tmd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_io.c,v 1.1 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/bfcmap_io.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: merlin_sesto_internal.h 857 2015-01-16 22:22:38Z kirand $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_internal.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: x1240RtcEeprom.h,v 1.2 2011/07/21 16:14:38 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/metrocore/vxworks6x/bcm1125/x1240RtcEeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_pp_em_ser.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_em_ser.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avs_ext_vcore_ctl.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       avs_ext_vcore_ctl.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/avs_vctl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.94 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: extender.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* This file contains Extender definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/extender.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_mirror.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464cdiag.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5464cdiag.c
* Purpose:    Software Cable Diags for BCM5461, BCM5464, BCM5482, and
*             BCM5488
*
* Based on Broadcom PHY group Cable Diag Software release 3.0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5464cdiag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ingress_packet_queuing.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STAT definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_reg_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_reg_access.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: tomahawk2.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tomahawk2.c
* Purpose:
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: shmoo_and28_rl3.c,v 1.1.1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 28nm RL3 PHY Support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/shmoo_and28_rl3.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mpls.c,v 1.556 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File:    mpls.c
* Purpose: Manages MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod_doc.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  $Copyright: (c) 2012 Broadcom Corp.
*  All Rights Reserved.$
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: Main doc header file for TEFMod.
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_doc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_fp.h,v 1.95 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_fp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cosq.c
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_xgs.c,v 1.78 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_xgs.c
* Purpose:     XGS Board programming for
*              White Knight, Merlin, and Lancelot references platforms
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_xgs.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: lpm.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Firebolt LPM TCAM table insert/delete/lookup routines
* soc_fb_lpm_init - Called from bcm_l3_init
* soc_fb_lpm_insert - Insert/Update an IPv4/IPV6 route entry into LPM table
* soc_fb_lpm_delete - Delete an IPv4/IPV6 route entry from LPM table
* soc_fb_lpm_match  - (Exact match for the key. Will match both IP address
*                      and mask)
* soc_fb_lpm_lookup (LPM search) - Not Implemented
*
* Hit bit preservation - May loose HIT bit state when entries are moved
* around due to race condition. This happens if the HIT bit gets set in
* hardware after reading the entry to be moved and before the move is
* completed. If the HIT bit for an entry is already set when the move is
* initiated then it is preserved.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/lpm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_packet_queuing.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_ingress_packet_queuing.h
*
* MODULE PREFIX:  soc_tmcipq
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiMemDataEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEiMemDataEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaRandomNumGenEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaRandomNumGenEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tsce.c,v 1.2.2.26 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier2/tsce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cPCF8547Ioport.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2cPCF8547Ioport.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_v.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_v.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_defs.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JER2_ARAD DEFS H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmctype.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmctype.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250Timer.h,v 1.3 2011/07/21 16:14:49 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250Timer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane3/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/greyhound2/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmdevmgrmapping.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr/nlmdevmgrmapping.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCRTConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibCRTConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_esem_access.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_esem_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_tdm.h, v1 18/11/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/mim.c
* Purpose:     BCMX MAC-in-MAC APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/mim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_memory_hrp.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_memory_hrp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Filename Make.pkg.56965
FEATURE_LIST=PTP CINT L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU PTP KNET
BCM_PTL_SPT = 1

BCM_56965_A0 = 1
```

```
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -DALPM_ENABLE

# workspace:system=56965
# linux-user:system=56965 buildDir=systems/linux/user/gto          cpu=gto
# linux26wrs-user:system=56965 buildDir=systems/linux/user/gto-2_6 cpu=gto
# linux37-user:system=56965 buildDir=systems/linux/user/gtr-3_7    cpu=gtr
# linux37-user:system=56965 buildDir=systems/linux/user/wrx-3_7 cpu=WRX
# workspace30:system=56965
# linux26wrs30-user:system=56965 buildDir=systems/linux/user/gto-2_6 cpu=gto
# linux36-user:system=56965 buildDir=systems/linux/user/rsx-3_6      cpu=rsx
# linux314-user:system=56965 buildDir=systems/linux/user/xlr-3_14       cpu=XLR
# linux-user:system=56965 buildDir=systems/linux/user/xlr           cpu=XLR
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/esw/Make.pkg.56965
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_e.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_e.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* Copyright 2011-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License").  Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
```

* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO
YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/kbp/alg_kbp/include/db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/sdk/include/soc/kbp/alg_kbp/include/db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/kbp/alg_kbp/include/errors.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/sdk/include/soc/kbp/alg_kbp/include/errors.h
No license file was found, but licenses were detected in source scan.

/**********

```
*****************************************************************************
*  Revision     :  $Id: srds_api_enum_public.h 1131 2015-09-11 18:51:06Z brentrob $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/public/srds_api_enum_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriLutAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmPortBwCfgTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmPortBwCfgTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom Gigabit Ethernet MAC (Unimac) core.
```

```
*
* This file implements the chip-specific routines for the GMAC core.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etcgmac.c,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etcgmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* Hardware-specific Receive Data Header for the
* Broadcom Home Networking Division
* BCM44XX and BCM47XX 10/100 Mbps Ethernet cores.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmenetrxh.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmenetrxh.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmenetrxh.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dpp_vtt.h, v 1.95 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_vtt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_e2e.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_e2e.c
* Purpose: XGS Board End-to-end flow control programming
```

```
*  Supports boards with up to 4 BCM5695 devices, and
*            dual BCM56504 board only.
*  Other XGS1 and XGS2 devices are not end-to-end capable.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_e2e.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_mact_mgmt.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_mact_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_l.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_l.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  eagle_phy_1_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: eagle_phy_1_functions.h 1490 2016-08-11 22:26:06Z cvazquez $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

* No portions of this material may be reproduced in any form without
* the written permission of:
*
* Broadcom Corporation
* 5300 California Avenue
* Irvine, CA 92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
**********//**
* @file
* Protoypes of all API functions for engineering use
*//**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_functions.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: robo_vulcan.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vulcan/robo_vulcan.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: appl_dcmn_intr.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/interrupts/dcmn_intr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wb_db_trunk.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* Module: TRUNK APIs
*
* Purpose:
*     TRUNK API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000UcodeLoad.h,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000UcodeLoad.h : FE2000 Ucode Functions
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000UcodeLoad.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ctrp_egress_received_tm.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_ctrp_egress_received_tm.c
* Purpose:     Example of reading ERPP forward and drop counters
*
* The example counts all the possible HW counters related to this specific mode
*
* The settings include:
*  o    Set the Counter Processor to count forward and droped counters at the ERPP (SOC properties)
*  o    Get all the relevant counters.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ctrp_egress_received_tm.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250DuartSio.h,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*******************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
******************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250DuartSio.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************************
*******************************************************************************************
*                                                                                         *
*  Revision     :  $Id: merlin_sesto_debug_functions.h 776 2014-11-11 18:28:55Z kirand $ *
*                                                                                         *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                         *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                         *
*     Broadcom Corporation                                                            *
*     5300 California Avenue                                                          *
*     Irvine, CA  92617                                                               *
*                                                                                         *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                                     *
*                                                                                         *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_engine.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_engine.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rpc.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Dispatch Remote Procedure Call Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/rpc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mmi_cmn.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/mmi_cmn.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pp_general.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/soc_sand/src/soc_sand_pp_general.c
*
* MODULE PREFIX:  soc_sand_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_pp_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_topology.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC TOPOLOGY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_topology.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5482.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5482.h
*
* This driver applies to both BCM5482 and BCM5482S.
* Both parts support driving Copper or SERDES interfaces.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5482.h
No license file was found, but licenses were detected in source scan.

```
/*
* prototypes for functions defined in bcmstdlib.c
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmstdlib.h,v 1.1 Broadcom SDK $:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmstdlib.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTciDmacConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpTciDmacConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_property.h,v 1.8.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 PROPERTY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_property.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_gsa_petra_api.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_gsa_petra_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX FLASH driver interface
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: flashutl.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashutl.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashutl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drvmem.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory address and field manipulations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/drvmem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phymod_sdk_diag.h
* Purpose:    Extern declarations for phymod diagnostics support.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/phymod/phymod_sdk_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8706.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8706.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8706.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* ==========================================================
```

```
* == sbQe2000Dma.c - ELIB User supplied DMA functionality ==
* ==========================================================
*
* WORKING REVISION: $Id: sbQe2000ElibDma.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000Dma.c
*
* ABSTRACT:
*
*     Sample code for the user supplied DMA functionality.
*     This code allows the Qe2000 Egress Library to be operating
*     system and glue layer independant.
*
*     The user needs to modify this code as appropriate for the
*     OS and glue layer used.  The samples provided below outline
*     the usage, and may need to be taylored.
*
*
*
*      SAMPLE CODE ONLY
*
*
*
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     15-June-2005
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbQe2000ElibDma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_bcm5693x_setup.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains examples for TM and inline TM configurations
* using BCM56931/BCM56936
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/cint_bcm5693x_setup.c
No license file was found, but licenses were detected in source scan.

```
# $Id: hu2sanity.soc,v 1.7 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Hurricane2 (BCM56150) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Hurricane-2
if $?BCM56150_A0 || $?BCM56151_A0\
   'local BCM5615X_A0 1'

# Wolfhound
if $?BCM53342_A0 || $?BCM53343_A0 || $?BCM53344_A0 || $?BCM53346_A0 || $?BCM53347_A0 \
  'local BCM5334X_A0 1'

# Deerhound
if $?BCM53393_A0 || $?BCM53394_A0 \
  'local BCM5339X_A0 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off
```

```
init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
```

```
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
```

```
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
if  !$?BCM5334X_A0 && !$?BCM5339X_A0 \
  'echo " EFP_COUNTER_TABLE"; \
  tr 50 M=EFP_COUNTER_TABLE; \
  tr 51 M=EFP_COUNTER_TABLE; \
  tr 52 M=EFP_COUNTER_TABLE; \
  tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F; \
  echo " EFP_METER_TABLE"; \
  tr 50 M=EFP_METER_TABLE; \
  tr 51 M=EFP_METER_TABLE; \
  tr 52 M=EFP_METER_TABLE; \
  tr 71 M=EFP_METER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=F; \
  echo " EFP_POLICY_TABLE"; \
  tr 50 M=EFP_POLICY_TABLE; \
  tr 51 M=EFP_POLICY_TABLE; \
  tr 52 M=EFP_POLICY_TABLE; \
  tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " EFP_TCAM"; \
  tr 50 M=EFP_TCAM; \
  tr 51 M=EFP_TCAM; \
  tr 52 M=EFP_TCAM; \
  tr 71 M=EFP_TCAM TSE=F SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=F; \
  echo " FP_GLOBAL_MASK_TCAM"; \
  tr 50 M=FP_GLOBAL_MASK_TCAM; \
  tr 51 M=FP_GLOBAL_MASK_TCAM; \
  tr 52 M=FP_GLOBAL_MASK_TCAM; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F; \
  echo " FP_TCAM"; \
  tr 50 M=FP_TCAM; \
  tr 51 M=FP_TCAM; \
  tr 52 M=FP_TCAM; \
  tr 71 M=FP_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=F; \
  echo " VFP_POLICY_TABLE"; \
  tr 50 M=VFP_POLICY_TABLE; \
  tr 51 M=VFP_POLICY_TABLE; \
  tr 52 M=VFP_POLICY_TABLE; \
```

```
  tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " VFP_TCAM"; \
  tr 50 M=VFP_TCAM; \
  tr 51 M=VFP_TCAM; \
  tr 52 M=VFP_TCAM; \
  tr 71 M=VFP_TCAM TSE=F SLTH=T; \
  tr 71 M=VFP_TCAM TSE=T SLTH=T; \
  tr 71 M=VFP_TCAM TSE=T SLTH=F;'
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EDB_XMIT_CTRL";
tr 50 M=EGR_EDB_XMIT_CTRL;
tr 51 M=EGR_EDB_XMIT_CTRL;
tr 52 M=EGR_EDB_XMIT_CTRL;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=F SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
```

```
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
```

```
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_OAM_MAC_ADDRESS";
tr 50 M=EGR_OAM_MAC_ADDRESS;
tr 51 M=EGR_OAM_MAC_ADDRESS;
tr 52 M=EGR_OAM_MAC_ADDRESS;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=F SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PORT_CREDIT_RESET";
tr 50 M=EGR_PORT_CREDIT_RESET;
tr 51 M=EGR_PORT_CREDIT_RESET;
tr 52 M=EGR_PORT_CREDIT_RESET;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=F SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
```

```
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
```

```
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
```

```
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
#echo " IFP_PORT_FIELD_SEL";
#HWALIAS to FP_PORT_FIELD_SEL -- NOTEST
#tr 50 M=IFP_PORT_FIELD_SEL;
#tr 51 M=IFP_PORT_FIELD_SEL;
#tr 52 M=IFP_PORT_FIELD_SEL;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=F SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
```

```
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_1588_INGRESS_CTRL";
tr 50 M=ING_1588_INGRESS_CTRL;
tr 51 M=ING_1588_INGRESS_CTRL;
tr 52 M=ING_1588_INGRESS_CTRL;
tr 71 M=ING_1588_INGRESS_CTRL TSE=F SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=F;
echo " ING_IPV6_MC_RESERVED_ADDRESS";
tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=F SLTH=T;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=T;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE";
tr 50 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 51 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 52 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
```

```
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE_TABLE";
tr 50 M=IPV6_PROXY_ENABLE_TABLE;
tr 51 M=IPV6_PROXY_ENABLE_TABLE;
tr 52 M=IPV6_PROXY_ENABLE_TABLE;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
```

```
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW;
#tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
```

```
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
```

```
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_DA";
tr 50 M=LMEP_DA;
tr 51 M=LMEP_DA;
tr 52 M=LMEP_DA;
tr 71 M=LMEP_DA TSE=F SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
```

```
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MMU_AGING_CTR";
tr 50 M=MMU_AGING_CTR;
tr 51 M=MMU_AGING_CTR;
tr 52 M=MMU_AGING_CTR;
tr 71 M=MMU_AGING_CTR TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=F;
echo " MMU_AGING_EXP";
tr 50 M=MMU_AGING_EXP;
tr 51 M=MMU_AGING_EXP;
tr 52 M=MMU_AGING_EXP;
tr 71 M=MMU_AGING_EXP TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=F;
echo " MMU_ARB_TDM_TABLE";
tr 50 M=MMU_ARB_TDM_TABLE;
tr 51 M=MMU_ARB_TDM_TABLE;
tr 52 M=MMU_ARB_TDM_TABLE;
tr 71 M=MMU_ARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=F;
echo " MMU_CBPCellHeader";
tr 50 M=MMU_CBPCellHeader;
tr 51 M=MMU_CBPCellHeader;
tr 52 M=MMU_CBPCellHeader;
tr 71 M=MMU_CBPCellHeader TSE=F SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=F;
echo " MMU_CBPData0";
tr 50 M=MMU_CBPData0;
tr 51 M=MMU_CBPData0;
tr 52 M=MMU_CBPData0;
```

```
tr 71 M=MMU_CBPData0 TSE=F SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=F;
echo " MMU_CBPData1";
tr 50 M=MMU_CBPData1;
tr 51 M=MMU_CBPData1;
tr 52 M=MMU_CBPData1;
tr 71 M=MMU_CBPData1 TSE=F SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=F;
echo " MMU_CBPData2";
tr 50 M=MMU_CBPData2;
tr 51 M=MMU_CBPData2;
tr 52 M=MMU_CBPData2;
tr 71 M=MMU_CBPData2 TSE=F SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=F;
echo " MMU_CBPData3";
tr 50 M=MMU_CBPData3;
tr 51 M=MMU_CBPData3;
tr 52 M=MMU_CBPData3;
tr 71 M=MMU_CBPData3 TSE=F SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=F;
echo " MMU_CBPData4";
tr 50 M=MMU_CBPData4;
tr 51 M=MMU_CBPData4;
tr 52 M=MMU_CBPData4;
tr 71 M=MMU_CBPData4 TSE=F SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=F;
echo " MMU_CBPData5";
tr 50 M=MMU_CBPData5;
tr 51 M=MMU_CBPData5;
tr 52 M=MMU_CBPData5;
tr 71 M=MMU_CBPData5 TSE=F SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=F;
echo " MMU_CBPData6";
tr 50 M=MMU_CBPData6;
tr 51 M=MMU_CBPData6;
tr 52 M=MMU_CBPData6;
tr 71 M=MMU_CBPData6 TSE=F SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=F;
echo " MMU_CBPData7";
tr 50 M=MMU_CBPData7;
tr 51 M=MMU_CBPData7;
```

```
tr 52 M=MMU_CBPData7;
tr 71 M=MMU_CBPData7 TSE=F SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=F;
echo " MMU_CBPPktHeader0";
tr 50 M=MMU_CBPPktHeader0;
tr 51 M=MMU_CBPPktHeader0;
tr 52 M=MMU_CBPPktHeader0;
tr 71 M=MMU_CBPPktHeader0 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=F;
echo " MMU_CBPPktHeader1";
tr 50 M=MMU_CBPPktHeader1;
tr 51 M=MMU_CBPPktHeader1;
tr 52 M=MMU_CBPPktHeader1;
tr 71 M=MMU_CBPPktHeader1 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=F;
echo " MMU_CBPPktHeader2";
tr 50 M=MMU_CBPPktHeader2;
tr 51 M=MMU_CBPPktHeader2;
tr 52 M=MMU_CBPPktHeader2;
tr 71 M=MMU_CBPPktHeader2 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=F;
echo " MMU_CBPPktHeader_EXT";
tr 50 M=MMU_CBPPktHeader_EXT;
tr 51 M=MMU_CBPPktHeader_EXT;
tr 52 M=MMU_CBPPktHeader_EXT;
tr 71 M=MMU_CBPPktHeader_EXT TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=F;
echo " MMU_CCP";
tr 50 M=MMU_CCP;
tr 51 M=MMU_CCP;
tr 52 M=MMU_CCP;
tr 71 M=MMU_CCP TSE=F SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=F;
echo " MMU_CFAP";
tr 50 M=MMU_CFAP;
tr 51 M=MMU_CFAP;
tr 52 M=MMU_CFAP;
tr 71 M=MMU_CFAP TSE=F SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL0";
tr 50 M=MMU_IPMC_GROUP_TBL0;
```

```
tr 51 M=MMU_IPMC_GROUP_TBL0;
tr 52 M=MMU_IPMC_GROUP_TBL0;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL1";
tr 50 M=MMU_IPMC_GROUP_TBL1;
tr 51 M=MMU_IPMC_GROUP_TBL1;
tr 52 M=MMU_IPMC_GROUP_TBL1;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL5";
tr 50 M=MMU_IPMC_GROUP_TBL5;
tr 51 M=MMU_IPMC_GROUP_TBL5;
tr 52 M=MMU_IPMC_GROUP_TBL5;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
echo " MMU_MAX_BUCKET_GPORT";
```

```
tr 50 M=MMU_MAX_BUCKET_GPORT;
tr 51 M=MMU_MAX_BUCKET_GPORT;
tr 52 M=MMU_MAX_BUCKET_GPORT;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=T SLTH=F;
echo " MMU_MIN_BUCKET_GPORT";
tr 50 M=MMU_MIN_BUCKET_GPORT;
tr 51 M=MMU_MIN_BUCKET_GPORT;
tr 52 M=MMU_MIN_BUCKET_GPORT;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=T SLTH=T;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=T SLTH=F;
echo " MMU_XQ0";
tr 50 M=MMU_XQ0;
tr 51 M=MMU_XQ0;
tr 52 M=MMU_XQ0;
tr 71 M=MMU_XQ0 TSE=F SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=F;
echo " MMU_XQ10";
tr 50 M=MMU_XQ10;
tr 51 M=MMU_XQ10;
tr 52 M=MMU_XQ10;
tr 71 M=MMU_XQ10 TSE=F SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=F;
echo " MMU_XQ11";
tr 50 M=MMU_XQ11;
tr 51 M=MMU_XQ11;
tr 52 M=MMU_XQ11;
tr 71 M=MMU_XQ11 TSE=F SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=F;
echo " MMU_XQ12";
tr 50 M=MMU_XQ12;
tr 51 M=MMU_XQ12;
tr 52 M=MMU_XQ12;
tr 71 M=MMU_XQ12 TSE=F SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=F;
echo " MMU_XQ13";
tr 50 M=MMU_XQ13;
tr 51 M=MMU_XQ13;
tr 52 M=MMU_XQ13;
tr 71 M=MMU_XQ13 TSE=F SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=F;
```

```
echo " MMU_XQ14";
tr 50 M=MMU_XQ14;
tr 51 M=MMU_XQ14;
tr 52 M=MMU_XQ14;
tr 71 M=MMU_XQ14 TSE=F SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=F;
echo " MMU_XQ15";
tr 50 M=MMU_XQ15;
tr 51 M=MMU_XQ15;
tr 52 M=MMU_XQ15;
tr 71 M=MMU_XQ15 TSE=F SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=F;
echo " MMU_XQ16";
tr 50 M=MMU_XQ16;
tr 51 M=MMU_XQ16;
tr 52 M=MMU_XQ16;
tr 71 M=MMU_XQ16 TSE=F SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=F;
echo " MMU_XQ17";
tr 50 M=MMU_XQ17;
tr 51 M=MMU_XQ17;
tr 52 M=MMU_XQ17;
tr 71 M=MMU_XQ17 TSE=F SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=F;
echo " MMU_XQ18";
tr 50 M=MMU_XQ18;
tr 51 M=MMU_XQ18;
tr 52 M=MMU_XQ18;
tr 71 M=MMU_XQ18 TSE=F SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=F;
echo " MMU_XQ19";
tr 50 M=MMU_XQ19;
tr 51 M=MMU_XQ19;
tr 52 M=MMU_XQ19;
tr 71 M=MMU_XQ19 TSE=F SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=F;
echo " MMU_XQ2";
tr 50 M=MMU_XQ2;
tr 51 M=MMU_XQ2;
tr 52 M=MMU_XQ2;
tr 71 M=MMU_XQ2 TSE=F SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=T;
```

```
tr 71 M=MMU_XQ2 TSE=T SLTH=F;
echo " MMU_XQ20";
tr 50 M=MMU_XQ20;
tr 51 M=MMU_XQ20;
tr 52 M=MMU_XQ20;
tr 71 M=MMU_XQ20 TSE=F SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=F;
echo " MMU_XQ21";
tr 50 M=MMU_XQ21;
tr 51 M=MMU_XQ21;
tr 52 M=MMU_XQ21;
tr 71 M=MMU_XQ21 TSE=F SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=F;
echo " MMU_XQ22";
tr 50 M=MMU_XQ22;
tr 51 M=MMU_XQ22;
tr 52 M=MMU_XQ22;
tr 71 M=MMU_XQ22 TSE=F SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=F;
echo " MMU_XQ23";
tr 50 M=MMU_XQ23;
tr 51 M=MMU_XQ23;
tr 52 M=MMU_XQ23;
tr 71 M=MMU_XQ23 TSE=F SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=F;
echo " MMU_XQ24";
tr 50 M=MMU_XQ24;
tr 51 M=MMU_XQ24;
tr 52 M=MMU_XQ24;
tr 71 M=MMU_XQ24 TSE=F SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=F;
echo " MMU_XQ25";
tr 50 M=MMU_XQ25;
tr 51 M=MMU_XQ25;
tr 52 M=MMU_XQ25;
tr 71 M=MMU_XQ25 TSE=F SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=F;
echo " MMU_XQ26";
tr 50 M=MMU_XQ26;
tr 51 M=MMU_XQ26;
tr 52 M=MMU_XQ26;
tr 71 M=MMU_XQ26 TSE=F SLTH=T;
```

```
tr 71 M=MMU_XQ26 TSE=T SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=F;
echo " MMU_XQ27";
tr 50 M=MMU_XQ27;
tr 51 M=MMU_XQ27;
tr 52 M=MMU_XQ27;
tr 71 M=MMU_XQ27 TSE=F SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=F;
echo " MMU_XQ28";
tr 50 M=MMU_XQ28;
tr 51 M=MMU_XQ28;
tr 52 M=MMU_XQ28;
tr 71 M=MMU_XQ28 TSE=F SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=F;
echo " MMU_XQ29";
tr 50 M=MMU_XQ29;
tr 51 M=MMU_XQ29;
tr 52 M=MMU_XQ29;
tr 71 M=MMU_XQ29 TSE=F SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=F;
echo " MMU_XQ3";
tr 50 M=MMU_XQ3;
tr 51 M=MMU_XQ3;
tr 52 M=MMU_XQ3;
tr 71 M=MMU_XQ3 TSE=F SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=F;
echo " MMU_XQ4";
tr 50 M=MMU_XQ4;
tr 51 M=MMU_XQ4;
tr 52 M=MMU_XQ4;
tr 71 M=MMU_XQ4 TSE=F SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=F;
echo " MMU_XQ5";
tr 50 M=MMU_XQ5;
tr 51 M=MMU_XQ5;
tr 52 M=MMU_XQ5;
tr 71 M=MMU_XQ5 TSE=F SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=F;
echo " MMU_XQ6";
tr 50 M=MMU_XQ6;
tr 51 M=MMU_XQ6;
tr 52 M=MMU_XQ6;
```

```
tr 71 M=MMU_XQ6 TSE=F SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=F;
echo " MMU_XQ7";
tr 50 M=MMU_XQ7;
tr 51 M=MMU_XQ7;
tr 52 M=MMU_XQ7;
tr 71 M=MMU_XQ7 TSE=F SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=F;
echo " MMU_XQ8";
tr 50 M=MMU_XQ8;
tr 51 M=MMU_XQ8;
tr 52 M=MMU_XQ8;
tr 71 M=MMU_XQ8 TSE=F SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=F;
echo " MMU_XQ9";
tr 50 M=MMU_XQ9;
tr 51 M=MMU_XQ9;
tr 52 M=MMU_XQ9;
tr 71 M=MMU_XQ9 TSE=F SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
tr 71 M=MODPORT_MAP_EM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
tr 71 M=MODPORT_MAP_IM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
```

```
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS";
tr 50 M=OAM_LM_COUNTERS;
tr 51 M=OAM_LM_COUNTERS;
tr 52 M=OAM_LM_COUNTERS;
tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
```

```
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SER_MEMORY";
tr 50 M=SER_MEMORY;
tr 51 M=SER_MEMORY;
tr 52 M=SER_MEMORY;
tr 71 M=SER_MEMORY TSE=F SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=F;
echo " SER_RESULT_0";
tr 50 M=SER_RESULT_0;
#tr 51 M=SER_RESULT_0;
#tr 52 M=SER_RESULT_0;
tr 71 M=SER_RESULT_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=F;
echo " SER_RESULT_1";
tr 50 M=SER_RESULT_1;
#tr 51 M=SER_RESULT_1;
#tr 52 M=SER_RESULT_1;
tr 71 M=SER_RESULT_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=F;
echo " SER_RESULT_DATA_0";
tr 50 M=SER_RESULT_DATA_0;
#tr 51 M=SER_RESULT_DATA_0;
#tr 52 M=SER_RESULT_DATA_0;
tr 71 M=SER_RESULT_DATA_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=F;
echo " SER_RESULT_DATA_1";
tr 50 M=SER_RESULT_DATA_1;
#tr 51 M=SER_RESULT_DATA_1;
#tr 52 M=SER_RESULT_DATA_1;
tr 71 M=SER_RESULT_DATA_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_0";
```

```
tr 50 M=SER_RESULT_EXPECTED_0;
#tr 51 M=SER_RESULT_EXPECTED_0;
#tr 52 M=SER_RESULT_EXPECTED_0;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_1";
tr 50 M=SER_RESULT_EXPECTED_1;
#tr 51 M=SER_RESULT_EXPECTED_1;
#tr 52 M=SER_RESULT_EXPECTED_1;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
tr 71 M=SRC_MODID_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
```

```
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_EGR_MASK";
tr 50 M=TRUNK_EGR_MASK;
tr 51 M=TRUNK_EGR_MASK;
tr 52 M=TRUNK_EGR_MASK;
tr 71 M=TRUNK_EGR_MASK TSE=F SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
```

```
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
```

```
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
#echo " XLPORT_WC_UCMEM_DATA";
#tr 50 M=XLPORT_WC_UCMEM_DATA;
#tr 51 M=XLPORT_WC_UCMEM_DATA;
#tr 52 M=XLPORT_WC_UCMEM_DATA;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
```

```
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done
```

```
echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done
#no mpls in hurricane
#echo "Running MPLS overflow insert test ..."
#tr 104
#$done

#echo "Running MPLS hash tests ..."
#tr 105 hash=0
#tr 105 hash=1
#tr 105 hash=2
#tr 105 hash=3
#tr 105 hash=4
#tr 105 hash=5
#$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
```

```
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e
$done

echo "Running MAC loopback TR 18 on all ports ..."
tr 18 pbm=ge speed=10
tr 18 pbm=ge speed=100
tr 18 pbm=ge speed=1000
tr 18 pbm=xe speed=10G
tr 18 pbm=hg speed=10G
tr 18 pbm=hg speed=MAX
$done

echo "Running PHY loopback TR 19 on all ports ..."
tr 19 pbm=ge speed=10
tr 19 pbm=ge speed=100
tr 19 pbm=ge speed=1000
tr 19 pbm=xe speed=10G
tr 19 pbm=hg speed=10G
tr 19 pbm=hg speed=MAX
$done
```

```
#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hu2sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_main.c
* Purpose:     Main file for individual register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_main.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****
*****************************************************************************************
*****
*                                                                                       *
*  Revision     :  $Id: eagle_merlin_api_uc_vars_rdwr_defns_public.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables      *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****
*****************************************************************************************
*****/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/public/eagle_merlin_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_fp.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_fp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* S-Channel Message: data structure used by firmware to transport
* S-Channel Data into SOC via CMIC.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/schanmsg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: falcon16_ucode.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier2/falcon16_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaEsetPriEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaEsetPriEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_egress_transmit_scheduler.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_egress_transmit_scheduler.c
* Purpose:    Example of simple Egress transmit scheduling setup
*
* Example includes:
*  o    Port shaper
*  o    Queue's weight (WFQ)
*  o    Strict priority
*  o    Incoming TC/DP mapping
*
* It is assumed diag_init is executed.
```

```
*
* Settings include:
* Set the OFP Bandwidth to 5G using the port shaper.
*  1.  Set the OFP Bandwidth to 5G using the port shaper.
*    2.    Set queues priorities WFQ/SP as follows:
*         -    For the high-priority queues, WFQ is set: UC will get 2/3 of the BW and MC will get 1/3 of the BW.
*         -    For the low-priority queues, SP UC is set over MC.
*    3.    Configure TC/DP egress mapping. Map low-priority traffic (0 - 3 for UC, 0  - 5 for MC)
*     to low-priority queues, and high-priority traffic (4  - 7 for UC, 6  - 7 for MC) to high-priority queues.
*
*  ~~~
```

```
/*
* $Id: trunk.h,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains TRUNK definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag register commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/reg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_vid_assign.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_vid_assign.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_multicast.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_multicast.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enduro.c,v 1.126 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       enduro.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/enduro.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: enumgen.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  enumgen.h
* Purpose:  Defines a set of Macros for managing enums and associated
*           string arrays.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/enumgen.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr_shr.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_shr.h
* Purpose:    Resource allocation shared between alloc and wb.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/alloc_mngr_shr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_shr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: led.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/led.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv6.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv6.hx
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tomahawk_mbist_test.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Built-in Self Test for Tomahawk
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/tomahawk_mbist_test.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tscf.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier2/tscf.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.targets,v 1.336 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Included from Make.config to define build targets, including
# optional ones requested in CFGFLAGS in the platform Makefile.f

#
# Driver Libraries
#
#   These are the required libraries to use the driver by itself,
#   without diagnostics or tests, including the SAL core.
#

ifeq ($(LINUX_MAKE_SHARED_LIB),1)
libext = so.$(SHAREDLIBVER)
else
libext = a
endif

BCM_LIB = libbcm.$(libext)
ifneq (,$(findstring -DINCLUDE_PLP_IMACSEC,$(CFGFLAGS)))
BCM_LIB += lib_plp_secy.$(libext)
BCM_LIB += lib_imacsec.$(libext)
endif
ifneq (,$(findstring -DBCM_RPC_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_rpc.$(libext)
BCM_LIB += libbcm_compat.$(libext)
endif
ifneq (,$(findstring -DBCM_ESW_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_esw.$(libext)
endif
ifneq (,$(findstring -DBCM_SHADOW_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_shadow.$(libext)
endif
ifneq (,$(findstring -DBCM_ROBO_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_robo.$(libext)
endif
ifneq (,$(findstring -DBCM_SBX_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_sbx.$(libext)
endif
ifneq (,$(findstring -DBCM_EA_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_ea.$(libext)
ifneq (,$(findstring -DBCM_PIONEER_SUPPORT,$(CFGFLAGS)))
```

```
BCM_LIB += libbcm_eapioneer.$(libext)
endif
ifneq (,$(findstring -DBCM_TK371X_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_eatk371x.$(libext)
endif
endif
ifneq (,$(findstring -DBCM_PETRA_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_dpp.$(libext)
endif
ifneq (,$(findstring -DBCM_DFE_SUPPORT,$(CFGFLAGS)))
BCM_LIB += libbcm_dfe.$(libext)
endif

ifneq (,$(findstring -DBCM_DNX_SUPPORT,$(CFGFLAGS)))
BCMDNX_LIB =      \
  libbcm_dnxlegacy.$(libext) \
  libbcm_dnxvlan.$(libext) \
  libbcm_dnxmirror.$(libext) \
  libbcm_dnxcrps.$(libext) \
  libbcm_dnxl3.$(libext) \
  libbcm_dnxinit.$(libext) \
  libbcm_dnxalgo.$(libext) \
  libbcm_dnxl2.$(libext) \
  libbcm_dnxlif.$(libext) \
  libbcm_dnxport.$(libext) \
  libbcm_dnxrx.$(libext) \
  libbcm_dnxtx.$(libext) \
  libbcm_dnxstg.$(libext) \
  libbcm_dnxmpls.$(libext) \
  libbcm_dnxstk.$(libext) \
  libbcm_dnxqos.$(libext) \
  libbcm_dnxalgol3.$(libext) \
  libbcm_dnxalgolif.$(libext) \
  libbcm_dnxalgores.$(libext) \
  libbcm_dnxalgotemplate.$(libext) \
  libbcm_dnxalgomirror.$(libext) \
  libbcm_dnxswitch.$(libext) \
  libbcm_dnxvswitch.$(libext)
endif

ifneq (,$(findstring -DBCM_DNXF_SUPPORT,$(CFGFLAGS)))
# once sub directories are added to src/bcm/dnxf/ add them here in the same way that they were added to DNX
BCMDNXF_LIB = \
 libbcm_dnxf.$(libext)
endif

ifdef BCM_5675_A0
BCM_LIB_HERC = libherc.$(libext)
```

```
endif

ifdef BCM_56504_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56504_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56304_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56102_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56314_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56112_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56580_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
endif

ifdef BCM_56700_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_HERC = libherc.$(libext)
endif

ifdef BCM_56800_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
endif

ifdef BCM_56218_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_RAPTOR = libraptor.$(libext)
```

```
endif

ifdef BCM_56514_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
endif

ifdef BCM_56624_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
endif

ifdef BCM_56680_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
endif

ifdef BCM_56624_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
endif

ifdef BCM_56680_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
endif

ifdef BCM_56224_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_RAPTOR = libraptor.$(libext)
endif

ifdef BCM_56224_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_RAPTOR = libraptor.$(libext)
endif

ifdef BCM_53314_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_RAPTOR = libraptor.$(libext)
endif
```

```
ifdef BCM_53324_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_RAPTOR = libraptor.$(libext)
endif

ifdef BCM_56820_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
endif

ifdef BCM_56725_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_CONQUEROR = libconqueror.$(libext)
endif

ifdef BCM_56634_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56634_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56524_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
```

```
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56524_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56685_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56685_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56334_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56334_B0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
```

```
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56142_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_HURRICANE = libhurricane.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56150_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_HURRICANE = libhurricane.$(libext)
BCM_LIB_HURRICANE2 = libhurricane2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_53400_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_HURRICANE = libhurricane.$(libext)
BCM_LIB_HURRICANE2 = libhurricane2.$(libext)
BCM_LIB_GREYHOUND = libgreyhound.$(libext)
SOC_LIB_GREYHOUND = libsoc_greyhound.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
endif

ifdef BCM_56160_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
```

```
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_HURRICANE = libhurricane.$(libext)
BCM_LIB_HURRICANE2 = libhurricane2.$(libext)
BCM_LIB_GREYHOUND = libgreyhound.$(libext)
BCM_LIB_HURRICANE3 = libhurricane3.$(libext)
SOC_LIB_GREYHOUND = libsoc_greyhound.$(libext)
SOC_LIB_HURRICANE3 = libsoc_hurricane3.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_FLOWCNT = libflowcnt.$(libext)
endif

ifdef BCM_53570_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_ENDURO = libenduro.$(libext)
BCM_LIB_HURRICANE = libhurricane.$(libext)
BCM_LIB_HURRICANE2 = libhurricane2.$(libext)
BCM_LIB_GREYHOUND = libgreyhound.$(libext)
BCM_LIB_HURRICANE3 = libhurricane3.$(libext)
BCM_LIB_GREYHOUND2 = libgreyhound2.$(libext)
SOC_LIB_GREYHOUND = libsoc_greyhound.$(libext)
SOC_LIB_HURRICANE3 = libsoc_hurricane3.$(libext)
SOC_LIB_GREYHOUND2 = libsoc_greyhound2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_FLOWCNT = libflowcnt.$(libext)
endif

ifdef BCM_56840_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif
```

```
ifdef BCM_56840_B0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56850_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56960_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
```

```
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
BCM_LIB_TOMAHAWK = libtomahawk.$(libext)
SOC_LIB_TOMAHAWK = libsoc_tomahawk.$(libext)
SOC_LIB_ALPM = libsoc_alpm.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_TOMAHAWK = libsoc_tdm_th.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56965_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
BCM_LIB_TOMAHAWK = libtomahawk.$(libext)
SOC_LIB_TOMAHAWK = libsoc_tomahawk.$(libext)
SOC_LIB_ALPM = libsoc_alpm.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_TOMAHAWK = libsoc_tdm_th.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56970_A0
```

```
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
BCM_LIB_TOMAHAWK = libtomahawk.$(libext)
SOC_LIB_TOMAHAWK = libsoc_tomahawk.$(libext)
SOC_LIB_ALPM = libsoc_alpm.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_TOMAHAWK = libsoc_tdm_th.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
SOC_LIB_TDM_TOMAHAWK2 = libsoc_tdm_th2.$(libext)
BCM_LIB_TOMAHAWK2 = libtomahawk2.$(libext)
SOC_LIB_TOMAHAWK2 = libsoc_tomahawk2.$(libext)
SOC_LIB_FLEXPORT = libsoc_flexport.$(libext)
SOC_LIB_TOMAHAWK2_FLEXPORT = libsoc_tomahawk2_flexport.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56860_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
```

```
SOC_LIB_TRIDENT2P = libsoc_trident2p.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
BCM_LIB_TRIDENT2PLUS = libtrident2plus.$(libext)
BCM_LIB_TITAN2PLUS = libtitan2plus.$(libext)
endif

ifdef BCM_56560_A0
BCM_LIB_APACHE = libapache.$(libext)
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TRIDENT2PLUS = libtrident2plus.$(libext)
BCM_LIB_TITAN2PLUS = libtitan2plus.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_APACHE = libsoc_tdm_apache.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
SOC_LIB_TRIDENT2P = libsoc_trident2p.$(libext)
SOC_LIB_ALPM = libsoc_alpm.$(libext)
SOC_LIB_APACHE = libsoc_apache.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif



ifdef BCM_88732_A0
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HERC = libherc.$(libext)
```

```
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_CONQUEROR = libconqueror.$(libext)
BCM_LIB_SHADOW = libbcm_shadow.$(libext)
endif

ifdef BCM_56640_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56440_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_ENDURO  = libenduro.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_KATANA = libkatana.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56450_A0
BCM_LIB_HERC = libherc.$(libext)
```

```
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_ENDURO  = libenduro.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_KATANA = libkatana.$(libext)
BCM_LIB_KATANA2 = libkatana2.$(libext)
SOC_LIB_KATANA2 = libsoc_katana2.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56260_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_ENDURO  = libenduro.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_KATANA = libkatana.$(libext)
BCM_LIB_KATANA2 = libkatana2.$(libext)
SOC_LIB_KATANA2 = libsoc_katana2.$(libext)
SOC_LIB_SABER2 = libsoc_saber2.$(libext)
BCM_LIB_SABER2 = libsaber2.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56260_B0
```

```
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_ENDURO  = libenduro.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_KATANA = libkatana.$(libext)
BCM_LIB_KATANA2 = libkatana2.$(libext)
SOC_LIB_KATANA2 = libsoc_katana2.$(libext)
SOC_LIB_SABER2 = libsoc_saber2.$(libext)
BCM_LIB_SABER2 = libsaber2.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56270_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_ENDURO  = libenduro.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_KATANA = libkatana.$(libext)
BCM_LIB_KATANA2 = libkatana2.$(libext)
SOC_LIB_KATANA2 = libsoc_katana2.$(libext)
SOC_LIB_SABER2 = libsoc_saber2.$(libext)
BCM_LIB_SABER2 = libsaber2.$(libext)
SOC_LIB_METROLITE = libsoc_metrolite.$(libext)
BCM_LIB_METROLITE = libmetrolite.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
```

```
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56340_A0
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
BCM_LIB_REGEX = libbcm_regex.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifdef BCM_56560_B0
BCM_LIB_APACHE = libapache.$(libext)
BCM_LIB_HERC = libherc.$(libext)
BCM_LIB_FIREBOLT = libfirebolt.$(libext)
BCM_LIB_BRADLEY = libbradley.$(libext)
BCM_LIB_HUMV = libhumv.$(libext)
BCM_LIB_SCORPION = libscorpion.$(libext)
BCM_LIB_TRX     = libtrx.$(libext)
BCM_LIB_TRIUMPH = libtriumph.$(libext)
BCM_LIB_TRIUMPH2 = libtriumph2.$(libext)
BCM_LIB_TRIUMPH3 = libtriumph3.$(libext)
SOC_LIB_TRIUMPH3 = libsoc_triumph3.$(libext)
BCM_LIB_TRIDENT = libtrident.$(libext)
BCM_LIB_TITAN = libtitan.$(libext)
BCM_LIB_TRIDENT2 = libtrident2.$(libext)
BCM_LIB_TRIDENT2PLUS = libtrident2plus.$(libext)
BCM_LIB_TITAN2PLUS = libtitan2plus.$(libext)
SOC_LIB_TDM = libsoc_tdm.$(libext)
SOC_LIB_TDM_CORE = libsoc_tdm_core.$(libext)
SOC_LIB_TDM_APACHE = libsoc_tdm_apache.$(libext)
SOC_LIB_TDM_TRIDENT2P = libsoc_tdm_td2p.$(libext)
BCM_LIB_TITAN2 = libtitan2.$(libext)
SOC_LIB_TRIDENT2 = libsoc_trident2.$(libext)
```

```
SOC_LIB_TRIDENT2P = libsoc_trident2p.$(libext)
SOC_LIB_ALPM = libsoc_alpm.$(libext)
SOC_LIB_APACHE = libsoc_apache.$(libext)
BCM_LIB_FLEXCTR = libflexctr.$(libext)
BCM_LIB_XGS4 = libxgs4.$(libext)
BCM_LIB_XGS5 = libxgs5.$(libext)
endif

ifneq (,$(findstring -DINCLUDE_PTP,$(CFGFLAGS)))
BCM_LIB_PTP_COMMON = libptp_common.$(libext)
BCM_LIB_PTP_DPP = libptp_dpp.$(libext)
BCM_LIB_PTP_ESW = libptp_esw.$(libext)
endif

ifdef BCM_53242_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_HARRIER = libsocrobo_harrier.$(libext)
endif

ifdef BCM_53262_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_HARRIER = libsocrobo_harrier.$(libext)
endif

ifdef BCM_53115_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_VULCAN = libsocrobo_vulcan.$(libext)
endif

ifdef BCM_53118_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_BLACKBIRD = libsocrobo_bb.$(libext)
endif

ifdef BCM_53280_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_TBX = libsocrobo_tbx.$(libext)
BCM_LIB_ROBO_DRV_THUNDERBOLT = libsocrobo_tb.$(libext)
endif

ifdef BCM_53280_B0
```

```
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_TBX = libsocrobo_tbx.$(libext)
BCM_LIB_ROBO_DRV_THUNDERBOLT = libsocrobo_tb.$(libext)
endif

ifdef BCM_53600_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_TBX = libsocrobo_tbx.$(libext)
BCM_LIB_ROBO_DRV_VOYAGER = libsocrobo_vo.$(libext)
endif

ifdef BCM_53101_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_LOTUS = libsocrobo_lotus.$(libext)
endif

ifdef BCM_53125_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_STARFIGHTER = libsocrobo_sf.$(libext)
endif

ifdef BCM_53134_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_STARFIGHTER3 = libsocrobo_sf3.$(libext)
endif

ifdef BCM_53134_B0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_STARFIGHTER3 = libsocrobo_sf3.$(libext)
endif

ifdef BCM_53128_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_BLACKBIRD2 = libsocrobo_bb2.$(libext)
endif
```

```
ifdef BCM_89500_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_POLAR = libsocrobo_polar.$(libext)
endif

ifdef BCM_53010_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_NORTHSTAR = libsocrobo_northstar.$(libext)
endif

ifdef BCM_5389_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_DINO8 = libsocrobo_dino8.$(libext)
endif

ifdef BCM_53020_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_NORTHSTARPLUS = libsocrobo_northstarplus.$(libext)
endif

ifdef BCM_5396_A0
BCM_LIB_ROBO_DRV = libsocrobo.$(libext)
BCM_LIB_ROBO_DRV_COMMON = libsocrobo_common.$(libext)
BCM_LIB_ROBO_DRV_GEX = libsocrobo_gex.$(libext)
BCM_LIB_ROBO_DRV_DINO16 = libsocrobo_dino16.$(libext)
endif


ifdef BCM_88030_A0
# libcaladan3 - should be generated from src/bcm/ area
BCM_LIB_CALADAN3 = libsoc_sbx_caladan3.$(libext) \
    libtest_sbx_caladan3.$(libext) \
            libsoc_sbx_caladan3_sws.$(libext) \
            libsoc_sbx_caladan3_tmu.$(libext) \
            libsoc_sbx_caladan3_tmu_taps.$(libext) \
            libsoc_sbx_caladan3_etu.$(libext) \
            libsoc_sbx_caladan3_asm3.$(libext) \
            libcaladan3.$(libext) \
            libcaladan3oam.$(libext) \
            libcaladan3g3p1.$(libext)
```

```
#ifdef BCM_CALADAN3_G3P1_SUPPORT
BCM_LIB_CALADAN3 += libsoc_sbx_g3p1.$(libext)
#endif
#ifdef BCM_CALADAN3_T3P1_SUPPORT
BCM_LIB_CALADAN3 += libsoc_sbx_t3p1.$(libext)
#endif
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_sim.$(libext)
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_asm3.$(libext)
endif

ifdef BCM_88030_A1
# libcaladan3 - should be generated from src/bcm/ area
BCM_LIB_CALADAN3 = libsoc_sbx_caladan3.$(libext) \
    libtest_sbx_caladan3.$(libext) \
            libsoc_sbx_caladan3_sws.$(libext) \
            libsoc_sbx_caladan3_tmu.$(libext) \
            libsoc_sbx_caladan3_tmu_taps.$(libext) \
            libsoc_sbx_caladan3_etu.$(libext) \
            libsoc_sbx_caladan3_asm3.$(libext) \
            libcaladan3.$(libext) \
            libcaladan3oam.$(libext) \
            libcaladan3g3p1.$(libext)

#ifdef BCM_CALADAN3_G3P1_SUPPORT
BCM_LIB_CALADAN3 += libsoc_sbx_g3p1.$(libext)
#endif
#ifdef BCM_CALADAN3_T3P1_SUPPORT
BCM_LIB_CALADAN3 += libsoc_sbx_t3p1.$(libext)
#endif
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_sim.$(libext)
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_asm3.$(libext)
endif

ifdef BCM_88030_B0
# libcaladan3 - should be generated from src/bcm/ area
BCM_LIB_CALADAN3 = libsoc_sbx_caladan3.$(libext) \
    libtest_sbx_caladan3.$(libext) \
            libsoc_sbx_caladan3_sws.$(libext) \
            libsoc_sbx_caladan3_tmu.$(libext) \
            libsoc_sbx_caladan3_tmu_taps.$(libext) \
            libsoc_sbx_caladan3_etu.$(libext) \
            libsoc_sbx_caladan3_asm3.$(libext) \
            libcaladan3.$(libext) \
            libcaladan3oam.$(libext) \
            libcaladan3g3p1.$(libext)

#ifdef BCM_CALADAN3_G3P1_SUPPORT
```

```
BCM_LIB_CALADAN3 += libsoc_sbx_g3p1.$(libext)
#endif
#ifdef BCM_CALADAN3_T3P1_SUPPORT
BCM_LIB_CALADAN3 += libsoc_sbx_t3p1.$(libext)
#endif
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_sim.$(libext)
BCM_LIB_CALADAN3 += libsoc_sbx_caladan3_asm3.$(libext)
endif

ifdef BCM_QE2000_A0
BCM_LIB_QE2000 = libqe2000.$(libext)        \
  libsoc_g2eplib_sbx.$(libext) \
  libsoc_sbx_qe2k.$(libext)    \
  libsoc_sbx_qe2kep.$(libext)
endif

ifdef BCM_BME3200_A0
BCM_LIB_BME3200 = libbme3200.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_BME3200_B0
BCM_LIB_BME3200 = libbme3200.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_BM9600_A0
BCM_LIB_BM9600 = libbm9600.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_88230_A0
BCM_LIB_SIRIUS = libsirius.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_88230_B0
BCM_LIB_SIRIUS = libsirius.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_88230_C0
BCM_LIB_SIRIUS = libsirius.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_56931_A0
BCM_LIB_SIRIUS = libsirius.$(libext) \
```

```
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_56936_A0
BCM_LIB_SIRIUS = libsirius.$(libext) \
  lib_sbx_fabric.$(libext)
endif

ifdef BCM_88650_A0
BCM_LIB_ARAD = libsoc_dpp_arad_nif.$(libext)
BCM_LIB_ARAD += libsoc_dpp_port.$(libext)
BCM_LIB_ARAD += libsoc_dpp_arad.$(libext)
BCM_LIB_ARAD += libbcm_dpp_arad_pp.$(libext)
BCM_LIB_ARAD += libsoc_dpp_drc.$(libext)

endif

#ifdef BCM_88675_A0
BCM_LIB_JERICHO = libsoc_dpp_jer.$(libext) libsoc_dpp_jer_pp.$(libext)
#endif

ifdef BCM_88750_A0
BCM_LIB_88750 = libsoc_dfe.$(libext)
BCM_LIB_88750 += libsoc_dfe_cmn.$(libext)
BCM_LIB_88750 += libsoc_dfe_fe1600.$(libext)
endif

ifdef BCM_88950_A0
BCM_LIB_88950 = libsoc_dfe.$(libext)
BCM_LIB_88950 += libsoc_dfe_cmn.$(libext)
BCM_LIB_88950 += libsoc_dfe_fe1600.$(libext)
BCM_LIB_88950 += libsoc_dfe_fe3200.$(libext)
endif

ifdef BUILD_MACSEC
ifndef MACSEC_BLDDIR
ifdef BLDCONFIG
MACSEC_BLDDIR = ${SDK}/${SDKBUILD}/macsec/${BLDCONFIG}
else
MACSEC_BLDDIR = $(MACSEC_HOME)/$(SDKBUILD)
endif
endif

BCM_CMN_MACSEC = ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libblmi.$(libext) \
        ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libphy84756.$(libext) \
        ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libdummyphy.$(libext) \
        ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libmac.$(libext)
```

```
MACSEC_LIBUTIL ?= libutil
BCM_LIB_MACSEC =
${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/$(MACSEC_LIBUTIL).$(libext)
ifdef FEATURE_MACSEC
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libbmacsec.$(libext)
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libcli.$(libext)
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libphy543xx.$(libext)
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libphy8729.$(libext)
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libphy84334.$(libext)
BCM_LIB_MACSEC += ${MACSEC_BLDDIR}/${targetbase}/${targetplat}/${platform}/libphy84749.$(libext)
endif

DIAG_LIB_MACSEC  = ${BCM_LIB_MACSEC}

BCM_LIB_MACSEC  += ${BCM_CMN_MACSEC}
CORE_LIB_MACSEC  = ${BCM_LIB_MACSEC}
endif

ifdef PHYMOD_EPIL_LIB_PATH
BCM_LIB_PHYMOD_EPIL =
$(PHYMOD_EPIL_LIB_PATH)/build/${targetbase}/${targetplat}/${platform}/libphymodepil.a
BCM_LIB_PHYMOD_EPIL += $(addprefix ${LIBDIR}/, libepil.a)
endif


ifdef BUILD_PHYMOD
BCM_LIB_PHYMOD = libphymod.$(libext)
BCM_LIB_PHYMOD_BLD=$(addprefix ${LIBDIR}/,${BCM_LIB_PHYMOD})
endif

ifeq (1,$(PORTMOD_SUPPORT))
PORTMOD_LIBS = \
  libsoc_portmod_pms.$(libext) \
  libsoc_portmod.$(libext)
endif

ifdef ROBO_CHIPS
ROBO_DRV_LIBS = \
  ${BCM_LIB_PTP_COMMON} \
  libsoccommon.$(libext) ${BCM_LIB_ROBO_DRV} libsocrobo_mcm.$(libext) \
  ${BCM_LIB_ROBO_DRV_COMMON} ${BCM_LIB_ROBO_DRV_HARRIER}\
  ${BCM_LIB_ROBO_DRV_GEX} ${BCM_LIB_ROBO_DRV_TBX} ${BCM_LIB_ROBO_DRV_VULCAN} \
  ${BCM_LIB_ROBO_DRV_BLACKBIRD} ${BCM_LIB_ROBO_DRV_THUNDERBOLT} \
  ${BCM_LIB_ROBO_DRV_LOTUS} ${BCM_LIB_ROBO_DRV_STARFIGHTER}
${BCM_LIB_ROBO_DRV_STARFIGHTER3} \
  ${BCM_LIB_ROBO_DRV_BLACKBIRD2} ${BCM_LIB_ROBO_DRV_VOYAGER} \
  $(BCM_LIB_PHYMOD) \
  ${BCM_LIB_ROBO_DRV_POLAR} ${BCM_LIB_ROBO_DRV_NORTHSTAR}
```

```
${BCM_LIB_ROBO_DRV_DINO8} \
  ${BCM_LIB_ROBO_DRV_NORTHSTARPLUS} ${BCM_LIB_ROBO_DRV_DINO16}
${BCM_LIB_ROBO_DRV} \
  libsoc_phy.$(libext) libsoccommon.$(libext)
ifdef FEATURE_FCMAP
ROBO_DRV_LIBS += libsoc_fcmap.$(libext)
endif
ROBO_DRV_LIBS += libsoc_koi.$(libext)
ROBO_DRV_LIBS += libsoc_orca.$(libext)
endif

ifdef ESW_CHIPS
ESW_DRV_LIBS = \
  ${BCM_LIB_PTP_COMMON} \
  ${BCM_LIB_PTP_ESW} \
  ${BCM_LIB_FIREBOLT} ${BCM_LIB_RAPTOR} \
  ${BCM_LIB_TITAN} ${BCM_LIB_TRIDENT} \
  ${BCM_LIB_TITAN2} ${BCM_LIB_TRIDENT2} \
  ${BCM_LIB_HUMV} ${BCM_LIB_BRADLEY} \
  ${BCM_LIB_HERC} ${BCM_LIB_RAVEN} \
  ${BCM_LIB_SCORPION} ${BCM_LIB_CONQUEROR} ${BCM_LIB_TRIUMPH} \
  ${BCM_LIB_TRX} ${BCM_LIB_TRIUMPH2} ${BCM_LIB_ENDURO} \
  ${BCM_LIB_HURRICANE} ${BCM_LIB_KATANA} ${BCM_LIB_FLEXCTR} \
  ${BCM_LIB_TRIUMPH3} $(BCM_LIB_KATANA2) \
  ${BCM_LIB_HURRICANE2} ${BCM_LIB_GREYHOUND} \
  $(BCM_LIB_TOMAHAWK) ${BCM_LIB_HURRICANE3} ${BCM_LIB_GREYHOUND2} \
 ${BCM_LIB_FLOWCNT}\
  $(BCM_LIB_SABER2) \
  $(BCM_LIB_METROLITE) \
  ${BCM_LIB_TITAN2PLUS}  ${BCM_LIB_TRIDENT2PLUS} \
  $(BCM_LIB_TOMAHAWK2) \
  ${BCM_LIB_APACHE} \
  libbcm_esw.$(libext) $(BCM_LIB_SHADOW)\
  libsoc_esw.$(libext) libsoc.$(libext) \
  libsoc_phy.$(libext) libsoc_wcmod.$(libext) libsoc_tscmod.$(libext) \
  libsoc_phy8806x.$(libext) \
  libsoc_mcm.$(libext) ${BCM_LIB_REGEX} \
  ${PORTMOD_LIBS} \
  $(BCM_LIB_PHYMOD) \
  ${SOC_LIB_TRIUMPH3} ${SOC_LIB_TRIDENT2} ${SOC_LIB_TOMAHAWK} ${SOC_LIB_TRIDENT2P}
\
  ${SOC_LIB_TDM} ${SOC_LIB_ALPM} ${SOC_LIB_TDM_CORE} ${SOC_LIB_TDM_TRIDENT2P}
${SOC_LIB_TDM_TOMAHAWK} ${SOC_LIB_TDM_APACHE} \
  ${SOC_LIB_APACHE} ${SOC_LIB_TOMAHAWK2} ${SOC_LIB_TDM_TOMAHAWK2}\
  ${SOC_LIB_FLEXPORT} ${SOC_LIB_TOMAHAWK2_FLEXPORT}\
  ${SOC_LIB_SABER2} \
  ${SOC_LIB_METROLITE} \
  ${SOC_LIB_KATANA2} ${SOC_LIB_GREYHOUND} ${SOC_LIB_HURRICANE3} \
```

```
  ${SOC_LIB_GREYHOUND2} \
  ${BCM_LIB_XGS4} ${BCM_LIB_XGS5}

ifdef FEATURE_FCMAP
ESW_DRV_LIBS += libsoc_fcmap.$(libext)
endif
ESW_DRV_LIBS += libsoc_koi.$(libext)
ESW_DRV_LIBS += libsoc_orca.$(libext)

#ifneq (,$(findstring -DINCLUDE_CES,$(CFGFLAGS)))
#ifdef INCLUDE_CES
#ESW_DRV_LIBS += \
#       libsoc_nemo.$(libext) libsoc_clsbuilder.$(libext) libsoc_sal.$(libext)
#endif
endif

ifdef SBX_CHIPS
SBX_DRV_LIBS = \
 libsoc_sbx.$(libext) \
 libsbxcommon.$(libext) \
  $(BCM_LIB_CALADAN3) \
 $(BCM_LIB_QE2000) \
 $(BCM_LIB_BME3200) \
 $(BCM_LIB_BM9600) \
 $(BCM_LIB_SIRIUS) \
 libbcm_common.$(libext) \
 libsoc.$(libext) \
 $(BCM_LIB_PHYMOD) \
 libsoc_phy.$(libext) \
 libsbxcommon.$(libext) \
 libsoc_sbx.$(libext) \
 libsoc_wcmod.$(libext)

ifdef FEATURE_FCMAP
SBX_DRV_LIBS += libsoc_fcmap.$(libext)
endif
SBX_DRV_LIBS += libsoc_koi.$(libext)
SBX_DRV_LIBS += libsoc_orca.$(libext)

ifdef BCM_88230_A0
SBX_DRV_LIBS += \
 libsoc_mcm.$(libext)
else
ifdef BCM_88230_B0
SBX_DRV_LIBS += \
 libsoc_mcm.$(libext)
else
ifdef BCM_88230_C0
```

```
SBX_DRV_LIBS += \
 libsoc_mcm.$(libext)
else
ifdef BCM_88030_A0
SBX_DRV_LIBS += \
 libsoc_mcm.$(libext)
endif
endif
endif
endif

endif

ifdef BCM_EA_SUPPORT
EA_DRV_LIBS += \
 libbcm_ea.$(libext)

ifdef BCM_TK371X_SUPPORT
EA_TK371X_DRV_LIBS += \
   libbcm_eatk371x.$(libext) \
   libbcm_eacommon.$(libext) \
   libsoceatk371x.$(libext) \
   libsoceatk371x_utils.$(libext)
endif

ifdef BCM_PIONEER_SUPPORT
EA_PIONEER_DRV_LIBS += \
   libbcm_eapioneer.$(libext) \
   libsoceacommon.$(libext) \
   libsoceapioneer.$(libext)
endif

EA_DRV_LIBS += \
 ${EA_TK371X_DRV_LIBS} \
 ${EA_PIONEER_DRV_LIBS} \
 libsoc_phy.$(libext)
endif

ifdef SAND_CHIPS
# { Put here all libraries common for all Dune families
SAND_DRV_LIBS = \
   $(BCM_LIB_PHYMOD)     \
   libsoc_phy.$(libext)  \
   libsoc_mcm.$(libext)   \
   libsoc_dcmn.$(libext)  \
   libsoc_koi.$(libext)  \
   libsoc_orca.$(libext)  \
   libsoc_wcmod.$(libext) \
```

```
   libshared_utilex.$(libext)    \
   libshared_shrextend.$(libext) \
   libshared_dbx.$(libext)
ifndef LINUX_MAKE_KERNEL
SAND_DRV_LIBS += \
   libxml.$(libext)
endif
# }
endif

ifdef SAND_CHIPS
# {
DNXC_DRV_LIBS = \
       libsoc_dnxc.$(libext)  \
       libsoc_dnxclegacy.$(libext)
# }
endif


ifdef DPP_CHIPS
# {
DPP_DRV_LIBS = \
   $(SAND_DRV_LIBS)      \
   ${BCM_LIB_PTP_COMMON} \
   ${BCM_LIB_PTP_DPP}    \
   libshared_swstate.$(libext)   \
   libshared_swstate_access.$(libext) \
   libshared_swstate_layout.$(libext) \
   libshared_swstate_diagnostic.$(libext) \
   libsoc_dpp.$(libext)   \
   libsoc_hwstate.$(libext) \
   libbcm_dpp_ppd.$(libext) \
   libbcm_dpp_ppc.$(libext) \
   libbcm_dpp_sand_fm.$(libext)    \
   libbcm_dpp_sand_mgmt.$(libext)  \
   libbcm_dpp_sand_utils.$(libext) \
   libbcm_dpp_tmc.$(libext)\
   libappl_dpp_FecAllocaiton.$(libext)\
 libappl_dpp_FecPerformance.$(libext)
# }
endif

ifdef DNX_CHIPS
# {
 DNX_DRV_LIBS =        \
       $(DNXC_DRV_LIBS)
ifndef DPP_CHIPS
# {
```

```
 DNX_DRV_LIBS += \
      $(SAND_DRV_LIBS)      \
      ${BCM_LIB_PTP_COMMON} \
      ${PORTMOD_LIBS}      \
      libshared_swstate.$(libext)   \
      libshared_swstate_access.$(libext) \
      libshared_swstate_layout.$(libext) \
      libshared_swstate_diagnostic.$(libext)
# }
endif
# }
endif


ifdef BCM_88650_A0
# {
#
# This compilation is specific for ARAD (DPP)
#
DPP_DRV_LIBS += \
 $(BCM_LIB_ARAD)
ifneq (,$(findstring -DCMODEL_SERVER_MODE,$(CFGFLAGS)))
# {
#
# Enter if this is compilation for CMODEL for ARAD:
# Do NOT include the 'interrupt' library but do include 'rx_los' since
# interrupt are not covered by CMODEL for now while 'rx_los' is required (in KBP?).
# See src/appl/dcmn/Makefile
#
DPP_DRV_LIBS += libappl_dcmn_rx_los.$(libext)
#
# }
else
# {
#
# Enter if this is NOT compilation for CMODEL. Do include the 'interrupt' libraries
#
ifeq (INTR,$(findstring INTR,$(FEATURE_LIST)))
# {
DPP_DRV_LIBS += \
 libappl_dcmn_rx_los.$(libext) libappl_dpp_interrupts.$(libext) libappl_dcmn_interrupts.$(libext)
# }
endif
# }
endif
# }
endif
```

```
ifdef BCM_88675_A0
DPP_DRV_LIBS += \
   $(PORTMOD_LIBS) \
 $(BCM_LIB_JERICHO)
ifeq (INTR,$(findstring INTR,$(FEATURE_LIST)))
DPP_DRV_LIBS += \
 libappl_dcmn_rx_los.$(libext) libappl_dcmn_interrupts.$(libext)
endif
endif

ifdef BCM_88470_A0
DPP_DRV_LIBS += libsoc_dpp_qax.$(libext) libsoc_dpp_qax_pp.$(libext)
endif

ifdef BCM_88680_A0
DPP_DRV_LIBS += libsoc_dpp_jerp.$(libext) libsoc_dpp_jerp_pp.$(libext)
endif

ifdef DNX_CHIPS
#
#  05MAY16
#    libsocdnx should also be included here after drv.c issue is fixed
#
DNX_DRV_LIBS += libsoc_dnxdbal.$(libext)
DNX_DRV_LIBS += libsoc_dnxmdb.$(libext)
DNX_DRV_LIBS += libsoc_dnxpemladrv.$(libext)
DNX_DRV_LIBS += libsoc_dnxdrv.$(libext)
DNX_DRV_LIBS += libsoc_swstate.$(libext)
DNX_DRV_LIBS += libsoc_dnxcmodel.$(libext)
DNX_DRV_LIBS += libsoc_dnxdnxdata.$(libext)
DNX_DRV_LIBS += libsoc_dnxdnxdatajer2a0.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacy.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacysandmanagement.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacysandutils.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacysandsandfm.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacyarad.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacyjer.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacyqax.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacytmc.$(libext)
DNX_DRV_LIBS += libsoc_dnxlegacyjer2.$(libext)
endif
ifdef BCM_88690_A0
#
#  Temporary, until the drv.c issue is fixed
#
DNX_DRV_LIBS += libsoc_dnx.$(libext)
endif
```

```
ifdef BCM_88270_A0
DPP_DRV_LIBS += libsoc_dpp_qux.$(libext)
endif

ifdef BCM_8206_A0
#DPP_DRV_LIBS += libsoc_dpp_flair.$(libext) libsoc_dpp_flair_pp.$(libext)
endif

ifdef DPP_CHIPS
ifeq (DUNE_UI,$(findstring DUNE_UI,$(FEATURE_LIST)))
DPP_DRV_LIBS += \
 libappl_dpp_ui.$(libext) \
 libappl_dpp_ui_ppd.$(libext)
endif
endif


ifdef DFE_CHIPS
DFE_DRV_LIBS = \
   $(SAND_DRV_LIBS)      \
 libsoc_hwstate.$(libext) \
   libsoc_dfe.$(libext)
endif

ifdef DNXF_CHIPS
# {
DNXF_DRV_LIBS =                    \
       $(SAND_DRV_LIBS)               \
       $(DNXC_DRV_LIBS)               \
       libsoc_dnxf.$(libext)          \
       libsoc_dnxfcmn.$(libext)       \
       libsoc_dnxframon.$(libext)     \
       libsoc_dnxframon_fe1600.$(libext)

ifndef DFE_CHIPS
# {
DNXF_DRV_LIBS +=                       \
       libsoc_hwstate.$(libext)
# }
endif

# }
endif

ifdef BCM_88750_A0
DFE_DRV_LIBS += \
 $(BCM_LIB_88750)
ifeq (INTR,$(findstring INTR,$(FEATURE_LIST)))
```

```
DFE_DRV_LIBS += \
   libappl_dcmn_rx_los.$(libext) libappl_dfe_interrupts.$(libext) libappl_dcmn_interrupts.$(libext)
endif
endif

ifdef BCM_88950_A0
DFE_DRV_LIBS += \
   $(PORTMOD_LIBS) \
 $(BCM_LIB_88950)
ifeq (INTR,$(findstring INTR,$(FEATURE_LIST)))
DFE_DRV_LIBS += \
   libappl_dcmn_rx_los.$(libext) libappl_dfe_interrupts.$(libext) libappl_dcmn_interrupts.$(libext)
endif
endif

ifeq (KBP,$(findstring KBP,$(FEATURE_LIST)))
# {
ifneq (,$(findstring KBP_11K, $(KBP_DEVICE)))
# {
KBP_LIB_PATH=${SDK}/src/soc/kbp/nlm2/lib/${targetbase}-${targetplat}/${platform}
KBP_DRV_LIBS += \
   libsoc_kbp_nlm2_dm.$(libext) \
   libsoc_kbp_nlm2_gtm.$(libext) \
   libsoc_kbp_nlm2_rngm.$(libext) \
   libsoc_kbp_nlm2_xpt.$(libext)
KBP_REFAPP_LIBS += \
   libsoc_kbp_nlm2_gtm_refapp.$(libext) \
   libsoc_kbp_nlm2_diag.$(libext)       \
   libsoc_kbp_nlm2_dm_refapp.$(libext)       \
   libsoc_kbp_nlm2_diag.$(libext)       \
   libsoc_kbp_nlm2_rngm_refapp.$(libext)  \
   libsoc_kbp_nlm2_rngmgr_refapp2.$(libext) \
   libsoc_kbp_nlm2_rngmgr_refapp3.$(libext) \
   libsoc_kbp_nlm2_gtmftm_refapp.$(libext) \
   libsoc_kbp_nlm2_ftm_refapp.$(libext)
KBP_LIBS += \
   ${KBP_LIB_PATH}/libsoc_kbp_nlm2_ftm.$(libext) \
   ${KBP_LIB_PATH}/libsoc_kbp_nlm2_ftm_cmn.$(libext) \
   ${KBP_LIB_PATH}/libsoc_kbp_nlm2_ftm_trie.$(libext) \
   ${KBP_LIB_PATH}/libsoc_kbp_nlm2_model.$(libext)
# }
endif

ifneq (,$(findstring KBP_12K, $(KBP_DEVICE)))
# {
KBP_LIB_PATH=${SDK}/src/soc/kbp/nlm3/lib/${targetbase}-${targetplat}/${platform}
KBP_DRV_LIBS += \
   libsoc_kbp_nlm3_blackholexpt.$(libext) \
```

```
   libsoc_kbp_nlm3_dm.$(libext) \
   libsoc_kbp_nlm3_gtm.$(libext) \
   libsoc_kbp_nlm3_rm.$(libext) \
   libsoc_kbp_nlm3_xpt.$(libext)
# }
endif

ifneq (KBP_ALG,$(findstring KBP_ALG, $(KBP_DEVICE)))
# {
KBP_DRV_LIBS += \
   libsoc_kbp_cmn.$(libext)

KBP_DRV_LIBS += ${KBP_REFAPP_LIBS}
# }
else
# {
ifeq (1,$(WRX_64BIT))
# {
   KBP_LIB_PATH=${SDK}/src/soc/kbp/alg_kbp/lib/${targetbase}-${targetplat}-64/${platform}
# }
else
# {
   KBP_LIB_PATH=${SDK}/src/soc/kbp/alg_kbp/lib/${targetbase}-${targetplat}/${platform}
# }
endif
KBP_LIBS += \
   ${KBP_LIB_PATH}/libsoc_alg_kbp.$(libext)
ifneq (,$(findstring -DUSE_MODEL,$(CFGFLAGS)))
# {
KBP_LIBS += \
   ${KBP_LIB_PATH}/libkbpmodel.$(libext)
# }
endif
KBP_DRV_LIBS += \
   libsoc_alg_kbp_portable.$(libext)
# }
endif
# }
endif

ifneq (,$(findstring -DBCM_DNX_SUPPORT,$(CFGFLAGS)))
BCM_LIB +=  ${BCMDNX_LIB}
endif

ifneq (,$(findstring -DBCM_DNXF_SUPPORT,$(CFGFLAGS)))
BCM_LIB +=  ${BCMDNXF_LIB}
endif
```

```
DRV_LIBS = \
 ${COND_LIB_BCMX} ${COND_LIB_BOARD} ${BCM_LIB} \
 libsoccommon.$(libext)  \
 ${ESW_DRV_LIBS} ${ROBO_DRV_LIBS} ${SBX_DRV_LIBS} ${EA_DRV_LIBS}\
 ${DPP_DRV_LIBS}        \
 ${DNX_DRV_LIBS}        \
 ${DFE_DRV_LIBS}        \
 ${DNXF_DRV_LIBS}       \
 libbcm_common.$(libext) \
 libsoc_shared.$(libext) \
 libshared.$(libext)     \
 ${COND_LIB_SOC_I2C} libsal_core.$(libext) libsal_core_plat.$(libext) \
 ${COND_LIB_CUSTOMER}  ${COND_LIB_EXAMPLES}  ${COND_LIB_CES} \
     ${KBP_DRV_LIBS}



DRV_LIBS_BLD=$(addprefix ${LIBDIR}/,${DRV_LIBS})


PORTMOD_STAND_ALONE_LIBS += \
   libdiag.$(libext) \
   libsoccommon.$(libext) \
   libsoc_mcm.$(libext) \
   libsoc.$(libext) \
   libsoc_phy.$(libext) \
   libsoc_shared.$(libext) \
   libshared.$(libext) \
   libsoc_portmod_pms.$(libext) \
   libsoc_portmod.$(libext) \
   $(COND_LIB_SAL_APPL) \
   $(COND_LIB_SAL_APPL_PLATFORM) \
   ${COND_LIB_EDITLINE} \
   $(BCM_LIB_PHYMOD) \
   libsal_core.$(libext) \
   libsal_core_plat.$(libext) \
   lib_portmod_appl.$(libext) \
   libsoc_orca.$(libext)  \
   libsoc_koi.$(libext)

#EXTERNAL_LIBS = ${BCM_LIB_MACSEC}
EXTERNAL_LIBS = ${BCM_LIB_MACSEC} ${KBP_LIBS} ${BCM_LIB_PHYMOD_EPIL}
DIAG_EXT_LIBS = ${DIAG_LIB_MACSEC}
CORE_EXT_LIBS = ${CORE_LIB_MACSEC}


DRV_LIBS_BLD += ${EXTERNAL_LIBS}
```

```
#
# Diagnostic Libraries
#
#   These are the rest of the diagnostics including the shell and
#   all the tests, Tcl, BDE, and Appl SAL.  Currently only used for Unix.
#

ifdef ESW_CHIPS
ESW_DIAG_LIBS = \
        libplibde.$(libext) \
        libdiag_esw.$(libext) \
        libtsl3uc.$(libext) \
        libtsl3mc.$(libext) \
        libtsmpls.$(libext) \
        libtsmmu.$(libext) \
        libtsoam.$(libext) \
        libtsniv.$(libext) \
        libtsriot.$(libext) \
        libtsvlan.$(libext) \
        libtsvxlan.$(libext) \
        libtsbasic.$(libext) \
        libtsifp.$(libext) \
        libtsvfp.$(libext) \
        libtsefp.$(libext) \
        libtscos.$(libext) \
        libtsloadbalance.$(libext) \
        libtsdgm.$(libext) \
        libtstcb.$(libext) \
        libtspstat.$(libext) \
        libtechsupport.$(libext)
endif

ifdef ROBO_CHIPS
ROBO_DIAG_LIBS += \
 libdiagrobo.$(libext)
endif

ifdef EA_CHIPS
EA_DIAG_LIBS += \
 libdiag_ea.$(libext)
endif

ifdef SBX_CHIPS
SBX_DIAG_LIBS = \
 libdiag_sbx.$(libext)
endif

ifdef BUILD_PHYMOD
```

```
COND_LIB_PHYMOD_DIAG = libdiag_phymod.$(libext)
COND_LIB_PHYMOD_DIAG_BLD=${LIBDIR}/${COND_LIB_PHYMOD_DIAG}
endif

ifdef BUILD_PORTMOD
COND_LIB_PORTMOD_DIAG = libdiag_portmod.$(libext)
COND_LIB_PORTMOD_DIAG_BLD=${LIBDIR}/${COND_LIB_PORTMOD_DIAG}
endif

ifdef SAND_CHIPS
SAND_DIAG_LIBS = libdiag_sand.$(libext)
endif

ifdef DPP_CHIPS
DPP_DIAG_LIBS = \
 libdiag_dpp.$(libext)
endif

ifdef DFE_CHIPS
DFE_DIAG_LIBS = libdiag_dfe.$(libext) libdiag_dcmn.$(libext)
else
ifdef DPP_CHIPS
DPP_DIAG_LIBS += libdiag_dcmn.$(libext)
endif
endif

ifdef DNX_CHIPS
DNX_DIAG_LIBS = libdiag_dnx.$(libext)
DNX_DIAG_LIBS += libdiag_dnxinit.$(libext)
DNX_DIAG_LIBS += libdiag_dnxdbal.$(libext)
DNX_DIAG_LIBS += libdiag_dnxmdb.$(libext)
DNX_DIAG_LIBS += libdiag_dnxtx.$(libext)
endif

ifdef DNXF_CHIPS
DNXF_DIAG_LIBS = libdiag_dnxf.$(libext)
DNXF_DIAG_LIBS += libdiag_dnxdbal.$(libext)
DNXF_DIAG_LIBS += libdiag_dnxmdb.$(libext)
DNXF_DIAG_LIBS += libdiag_dnxtx.$(libext)
endif


ifndef NO_SAL_APPL
COND_LIB_SAL_APPL=libsal_appl.$(libext)
COND_LIB_SAL_APPL_PLATFORM=libsal_appl_plat.$(libext)
endif

# SAND_DIAG_LIBS collects all Dune related diag shell libraries
```

```
ifdef SAND_CHIPS
SAND_DIAG_LIBS += ${DPP_DIAG_LIBS} ${DFE_DIAG_LIBS} ${DNX_DIAG_LIBS}
${DNXF_DIAG_LIBS}
else
SAND_DIAG_LIBS = ${DPP_DIAG_LIBS} ${DFE_DIAG_LIBS} ${DNX_DIAG_LIBS}
${DNXF_DIAG_LIBS}
endif
#
# Currently, DNX-only setup is not supported by DIAG.
# This is TEMPORARY. When DIAG is modified to incorporate DNX-only,
# the logic below should be removed.
#
ifdef DNX_DNXF_CHIPS
# {
ifndef DPP_DFE_CHIPS
# {
SAND_DIAG_LIBS =
# }
endif
# }
endif

DIAG_LIBS = \
 ${COND_LIB_EDITLINE} \
 libdiag.$(libext) \
 ${ROBO_DIAG_LIBS} \
 ${EA_DIAG_LIBS} \
 ${ESW_DIAG_LIBS} \
 ${SBX_DIAG_LIBS} \
 ${SAND_DIAG_LIBS} \
 ${COND_LIB_PHYMOD_DIAG} \
 ${COND_LIB_PORTMOD_DIAG} \
 ${COND_LIB_BCMX_DIAG} \
 ${COND_LIB_TEST} \
 ${COND_LIB_TCL} ${COND_LIB_EAV_APPL} \
      $(COND_LIB_SAL_APPL) \
      $(COND_LIB_SAL_APPL_PLATFORM) \
 libplibde.$(libext)

DIAG_LIBS_BLD=$(addprefix ${LIBDIR}/,${DIAG_LIBS})

#
# Conditional Libraries
#
#   These libraries are based on which build flags are selected
#   in Makefile.<target> or Make.local if personalized.
#
```

```
ifneq (,$(findstring -DINCLUDE_I2C,$(CFGFLAGS)))
ifneq (,$(findstring -DBCM_ESW_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
else
ifneq (,$(findstring -DBCM_SBX_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
else
ifneq (,$(findstring -DBCM_PETRA_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
endif
ifneq (,$(findstring -DBCM_DFE_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
endif
ifneq (,$(findstring -DBCM_DNX_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
endif
ifneq (,$(findstring -DBCM_DNXF_SUPPORT,$(CFGFLAGS)))
COND_LIB_SOC_I2C += libsoc_i2c.$(libext)
endif
endif
endif
COND_LIB_SOC_I2C_BLD=${LIBDIR}/${COND_LIB_SOC_I2C}
endif

ifneq (,$(findstring -DINCLUDE_DRIVERS,$(CFGFLAGS)))
COND_LIB_DRIVERS=libdrivers.$(libext)
COND_LIB_DRIVERS_BLD=${LIBDIR}/${COND_LIB_DRIVERS}
endif

ifneq (,$(findstring -DINCLUDE_BCMX,$(CFGFLAGS)))
COND_LIB_BCMX=libbcmx.$(libext)
COND_LIB_BCMX_BLD=$(addprefix ${LIBDIR}/,${COND_LIB_BCMX})
endif

ifneq (,$(findstring -DINCLUDE_BCMX_DIAG,$(CFGFLAGS)))
COND_LIB_BCMX_DIAG=libdiag_bcmx.$(libext)
COND_LIB_BCMX_DIAG_BLD=$(addprefix ${LIBDIR}/,${COND_LIB_BCMX_DIAG})
endif

ifneq (,$(findstring -DINCLUDE_CUSTOMER,$(CFGFLAGS)))
COND_LIB_CUSTOMER=libcustomer.$(libext)
endif

ifneq (,$(findstring -DINCLUDE_EXAMPLES,$(CFGFLAGS)))
COND_LIB_EXAMPLES=libexamples.$(libext)
endif

ifneq (,$(findstring -DINCLUDE_TCL,$(CFGFLAGS)))
```

```
COND_LIB_TCL=libtcl_unix.$(libext) libtcl_generic.$(libext) libtcl_broadcom.$(libext) \
   libtcl_unix.$(libext) libtcl_generic.$(libext) libtcl_mpexpr.$(libext)
COND_LIB_TCL_BLD=$(addprefix ${LIBDIR}/,${COND_LIB_TCL})
COND_INC_TCL=-I${SDK}/src/appl/tcl8.3.3
endif

# EAV APPL in diag is intended to be built
#ifneq (,$(findstring -DINCLUDE_EAV_APPL,$(CFGFLAGS)))
#COND_LIB_EAV_APPL=libdiageav.$(libext)
#COND_LIB_EAV_APPL_BLD=${LIBDIR}/${COND_LIB_EAV_APPL}
#endif

ifneq (,$(findstring -DINCLUDE_APS_DIAG_LIBS,$(CFGFLAGS)))
COND_LIB_DIAG_APS=libdiag_aps.$(libext)
COND_LIB_DIAG_APS_BLD=${LIBDIR}/${COND_LIB_DIAG_APS}
endif

ifneq (,$(findstring -DINCLUDE_EDITLINE,$(CFGFLAGS)))
COND_LIB_EDITLINE=libsal_appl_editline.$(libext)
COND_LIB_EDITLINE_BLD=${LIBDIR}/${COND_LIB_EDITLINE}
endif

ifneq (,$(findstring -DINCLUDE_OOB_RCPU,$(CFGFLAGS)))
COND_LIB_ETH_DRV=libeth.$(libext)
COND_LIB_ETH_DRV_BLD=${LIBDIR}/libeth.$(libext)
endif

ifneq (,$(findstring -DINCLUDE_BCM570X,$(CFGFLAGS)))
COND_LIB_BCM570X=libbcm570x.$(libext)
COND_LIB_BCM570X_BLD=${BLDDIR}/libbcm570x.$(libext)
COND_INC_BCM570X=-I${SDK}/systems/drv/bcm570x
endif

ifneq (,$(findstring -DINCLUDE_TEST,$(CFGFLAGS)))
COND_LIB_TEST=libtest.$(libext)
COND_LIB_TEST_BLD=${LIBDIR}/${COND_LIB_TEST}
endif

# Board support

ifneq (,$(findstring -DINCLUDE_BOARD,$(CFGFLAGS)))
COND_LIB_BOARD=libboard_mgr.$(libext)
COND_LIB_BOARD+=libboard_dvr.$(libext)
COND_LIB_BOARD+=libboard_stk.$(libext)
COND_LIB_BOARD+=libboard_spt.$(libext)
endif

#
```

```
# Telekinesis suite applications for CPU to CPU communication and discovery
#     CPUDB:        Simple CPU data base manager
#     CPUTRANS:      CPU to CPU communication mechanisms
#     DISCOVER:      Simple discovery; will also include CPUTRANS
#     STKTASK:       Stack manager application
#

# CPU data base manager
ifneq (,$(findstring -DINCLUDE_LIB_CPUDB,$(CFGFLAGS)))
COND_LIB_CPUDB = libcpudb.$(libext)
COND_LIB_CPUDB_BLD=${LIBDIR}/${COND_LIB_CPUDB}
endif

# CPU transport protocols
ifneq (,$(findstring -DINCLUDE_LIB_CPUTRANS,$(CFGFLAGS)))
COND_LIB_CPUTRANS = libcputrans.$(libext)
COND_LIB_CPUTRANS_BLD=${LIBDIR}/${COND_LIB_CPUTRANS}
endif

# Discovery algorithm; requires transport protocols.
ifneq (,$(findstring -DINCLUDE_LIB_DISCOVER,$(CFGFLAGS)))
COND_LIB_DISCOVER = libdiscover.$(libext)
COND_LIB_DISCOVER_BLD=${LIBDIR}/${COND_LIB_DISCOVER}
COND_LIB_CPUTRANS = libcputrans.$(libext)
COND_LIB_CPUTRANS_BLD=${LIBDIR}/${COND_LIB_CPUTRANS}
endif

# Stack task manager
ifneq (,$(findstring -DINCLUDE_LIB_STKTASK,$(CFGFLAGS)))
COND_LIB_STKTASK = libstktask.$(libext)
COND_LIB_STKTASK_BLD=${LIBDIR}/${COND_LIB_STKTASK}
endif

# AEDEV
ifneq (,$(findstring -DINCLUDE_LIB_AEDEV,$(CFGFLAGS)))
COND_LIB_AEDEV = libaedev.$(libext)
COND_LIB_AEDEV_BLD = ${LIBDIR}/${COND_LIB_AEDEV}
endif


# CINT interpreter
ifneq (,$(findstring -DINCLUDE_LIB_CINT,$(CFGFLAGS)))
COND_LIB_CINT = libcint.$(libext)
COND_LIB_CINT_DIAG = libdiagcint.$(libext)
COND_LIB_CINT_BLD = ${LIBDIR}/${COND_LIB_CINT}
COND_LIB_CINT_DIAG_BLD = ${LIBDIR}/${COND_LIB_CINT_DIAG}

ifneq (,$(findstring -DINCLUDE_APIMODE,$(CFGFLAGS)))
```

```
COND_LIB_API_DIAG = libdiagapi.$(libext)
COND_LIB_API_DIAG_BLD = ${LIBDIR}/${COND_LIB_API_DIAG}
endif

endif

# C unit test framework
ifneq (,$(findstring -DINCLUDE_LIB_C_UNIT,$(CFGFLAGS)))
COND_LIB_C_UNIT = libc_unit.$(libext)
COND_LIB_C_UNIT_BLD = ${LIBDIR}/${COND_LIB_C_UNIT}
endif

# Access control
ifneq (,$(findstring -DINCLUDE_ACL,$(CFGFLAGS)))
COND_LIB_ACL=libacl.$(libext)
COND_LIB_ACL_BLD=${LIBDIR}/${COND_LIB_ACL}
endif

APPL_LIBS = ${COND_LIB_DISCOVER} ${COND_LIB_STKTASK} ${COND_LIB_ACL} \
  ${COND_LIB_CINT_DIAG} ${COND_LIB_C_UNIT} ${COND_LIB_CINT} \
  ${COND_LIB_AEDEV} ${COND_LIB_DIAG_APS}  ${COND_LIB_API_DIAG} \
  ${COND_LIB_PIONEER}
APPL_LIBS_BLD = ${COND_LIB_DISCOVER_BLD} ${COND_LIB_STKTASK_BLD} \
  ${COND_LIB_ACL_BLD} ${COND_LIB_CINT_DIAG_BLD} ${COND_LIB_C_UNIT_BLD} \
  ${COND_LIB_CINT_BLD} ${COND_LIB_AEDEV_BLD} ${COND_LIB_DIAG_APS_BLD} \
  ${COND_LIB_API_DIAG_BLD} ${COND_LIB_PIONEER_BLD}

# The CPU transport lives below the BCM RPC layer
BCM_LIB += ${COND_LIB_CPUTRANS} ${COND_LIB_CPUDB}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.targets
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       soc_sand_ssr.h
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
```

* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_ssr.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mem_measure_tool.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the memory measurement tool implementation.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/mem_measure_tool.c
No license file was found, but licenses were detected in source scan.

/**
* \file algo_l3.h Internal DNX L3 Managment APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/l3/source_address_table_allocation.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/l3/algo_l3.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: trill.c,v 1.19 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW Triumph3 Trill API
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/trill.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Trace
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bsltrace.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idxres_fl.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Indexed resource management, using banked lists
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/idxres_fl.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_tcam_key.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_tcam_key.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmenetmib.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific MIB definition for
* Broadcom Home Networking Division
* BCM44XX and BCM47XX 10/100 Mbps Ethernet cores.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmenetmib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_48x1g_1xil100.h,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_48x1g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sand.bcm,v 1.140 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

##########################################
##cfg for BCM88640 (PetraB), BCM88650 (Arad) and BCM88202 (Ardon)
##########################################

## temporary suppressing unknown soc properties warnings - till adding them unknown to property.h/propgen
## (need to be the first soc property in the file).
suppress_unknown_prop_warnings=1

## Multi device system (Negev): 2 devices, fabric mode is FE, mod id is slot id
## (Top line card is 0, button is 1).
#diag_chassis=1

## Disable diag init application. Should be used if one wants to run his own
## application instead of the diag init example
#diag_disable=1

## Skip cosq configuration in diag_init
#diag_cosq_disable=1

##########################################
##cfg for BCM88650 - Arad
##########################################

### Device configuration ###
```

```
## Activate Emulation partial init. Values: 0 - Normal, 1 - Emulation .Default: 0x0.
diag_emulator_partial_init.BCM88650=0

## General
# Set the FAP Device mode
# Options: PP / TM / TDM_OPTIMIZED / TDM_STANDARD
fap_device_mode.BCM88650=PP

## Credit worth size (Bytes)
credit_size.BCM88650=1024

## Clock configurations
# Core clock speed (MHz). Default: 600 MHz
core_clock_speed_khz.BCM88650=600000
# System reference clock (MHz). Default: 600 MHz
system_ref_core_clock_khz.BCM88650=600000

### Network Interface configuration ###
## Use of the ucode_port_<Local-Port-Id>=<Interface-type>[<Interface-Id>][.<Channel-Id>]
## Local port range: 0 - 255.
## Interface types: XAUI/RXAUI/SGMII/ILKN/10GBase-R/XLGE/CGE/CPU/IGNORE

# Map bcm local port to CPU[.channel] interfaces
ucode_port_180.BCM88650=CPU.0

pon_application_support_enabled_0.BCM88650=TRUE
pon_application_support_enabled_1.BCM88650=TRUE
pon_application_support_enabled_2.BCM88650=TRUE
pon_application_support_enabled_3.BCM88650=TRUE
pon_application_support_enabled_4.BCM88650=TRUE
pon_application_support_enabled_5.BCM88650=TRUE
pon_application_support_enabled_6.BCM88650=TRUE
pon_application_support_enabled_7.BCM88650=TRUE
vlan_match_criteria_mode=PON_PCP_ETHERTYPE

#Firmware mode:
# 0=DEFAULT
# 1=SFP_OPT_SR4     - optical short range
# 2=SFP_DAC         - direct attach copper
# 3=XLAUI           - 40G XLAUI mode
# 4=FORCE_OSDFE     - force over sample digital feedback equalization
# 5=FORCE_BRDFE     - force baud rate digital feedback equalization
# 6=SW_CL72         - software cl72 with AN on
# 7=CL72_WITHOUT_AN - cl72 without AN
#For Negev2 chassis enable DFE is recommended
serdes_firmware_mode.BCM88650=2
serdes_firmware_mode_il.BCM88650=4
```

```
serdes_firmware_mode_sfi.BCM88650=0

ucode_port_0.BCM88650=10GBase-R8
ucode_port_1.BCM88650=10GBase-R9
ucode_port_2.BCM88650=10GBase-R10
ucode_port_3.BCM88650=10GBase-R11
ucode_port_4.BCM88650=10GBase-R12
ucode_port_5.BCM88650=10GBase-R13
ucode_port_6.BCM88650=10GBase-R14
ucode_port_7.BCM88650=10GBase-R15

ucode_port_128.BCM88650=10GBase-R0
ucode_port_129.BCM88650=10GBase-R2
ucode_port_130.BCM88650=10GBase-R4
ucode_port_131.BCM88650=10GBase-R6
ucode_port_132.BCM88650=10GBase-R1
ucode_port_133.BCM88650=10GBase-R3
ucode_port_134.BCM88650=10GBase-R5
ucode_port_135.BCM88650=10GBase-R7
ucode_port_200.BCM88650=CPU.1
ucode_port_201.BCM88650=CPU.2
ucode_port_202.BCM88650=CPU.3
ucode_port_203.BCM88650=CPU.4

#40G
#ucode_port_1.BCM88650=XLGE0
#ucode_port_2.BCM88650=XLGE1
#ucode_port_3.BCM88650=XLGE2
#ucode_port_4.BCM88650=XLGE3
#ucode_port_5.BCM88650=XLGE4
#ucode_port_6.BCM88650=XLGE5
#ucode_port_7.BCM88650=XLGE6

#ILKN configuration - basic config
#ucode_port_31.BCM88650=ILKN0
#ucode_port_32.BCM88650=ILKN1
#ilkn_num_lanes_0.BCM88650=12
#ilkn_num_lanes_1.BCM88650=12
#port_init_speed_il.BCM88650=10312


#ILKN per port channel stat
#ilkn_counters_mode.BCM88650=PACKET_PER_CHANNEL

#ILKN configuration - advanced
#ilkn_metaframe_sync_period=2048
# Enable\Disable ILKN status message sent through an out-of-band interface.
# ilkn_interface_status_oob_ignore.BCM88650=1
```

```
##ILKN retransmit
#ilkn_retransmit_enable_rx.BCM88650=1
#ilkn_retransmit_enable_tx.BCM88650=1
#ilkn_retransmit_buffer_size.BCM88650=250
#ilkn_retransmit_num_requests_resent.BCM88650=15
#ilkn_retransmit_num_sn_repetitions_tx.BCM88650=1
#ilkn_retransmit_num_sn_repetitions_rx.BCM88650=1
#ilkn_retransmit_rx_timeout_words.BCM88650=3800
#ilkn_retransmit_rx_timeout_sn.BCM88650=250
#ilkn_retransmit_rx_ignore.BCM88650=80
#ilkn_retransmit_rx_reset_when_error_enable.BCM88650=1
#ilkn_retransmit_rx_watchdog.BCM88650=0
#ilkn_retransmit_rx_reset_when_alligned_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_retry_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_after_disc_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_before_disc_error_enable.BCM88650=0
#ilkn_retransmit_rx_reset_when_timout_error_enable.BCM88650=0
#ilkn_retransmit_tx_wait_for_seq_num_change_enable.BCM88650=1
#ilkn_retransmit_tx_ignore_requests_when_fifo_almost_empty.BCM88650=1

#ucode_port_40.BCM88650=RCY.0
#ucode_port_41.BCM88650=RCY.1
#ucode_port_42.BCM88650=RCY.2

## CAUI Configuration
#ucode_port_41.BCM88650=CGE0
#ucode_port_42.BCM88650=CGE1
caui_num_lanes_0.BCM88650=10
caui_num_lanes_1.BCM88650=10
#Required for working IXIA 100G port:
mld_lane_swap_lane20_ce.BCM88650=0
mld_lane_swap_lane21_ce.BCM88650=1
mld_lane_swap_lane0_ce.BCM88650=20
mld_lane_swap_lane1_ce.BCM88650=21

# This configures the lane polarity
pb_serdes_lane_swap_polarity_tx_phy1.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy2.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy3.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy4.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy5.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy6.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy7.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy8.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy10.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy11.BCM88650=0
```

```
pb_serdes_lane_swap_polarity_tx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy13.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy14.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy17.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy18.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy19.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy20.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy21.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy22.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy23.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy24.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy25.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy27.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy28.BCM88650=0

pb_serdes_lane_swap_polarity_rx_phy1.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy2.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy3.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy4.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy5.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy6.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy7.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy8.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy10.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy11.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy13.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy14.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy17.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy18.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy19.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy20.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy21.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy22.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy23.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy24.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy25.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy27.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy28.BCM88650=0

xgxs_tx_lane_map_quad0.BCM88650=0x3210
```

```
xgxs_tx_lane_map_quad1.BCM88650=0x3210
xgxs_tx_lane_map_quad2.BCM88650=0x3210
xgxs_tx_lane_map_quad3.BCM88650=0x3210
xgxs_tx_lane_map_quad4.BCM88650=0x3210
xgxs_tx_lane_map_quad5.BCM88650=0x3210
xgxs_tx_lane_map_quad6.BCM88650=0x3210

xgxs_rx_lane_map_quad0.BCM88650=0x3210
xgxs_rx_lane_map_quad1.BCM88650=0x3210
xgxs_rx_lane_map_quad2.BCM88650=0x3210
xgxs_rx_lane_map_quad3.BCM88650=0x3210
xgxs_rx_lane_map_quad4.BCM88650=0x3210
xgxs_rx_lane_map_quad5.BCM88650=0x3210
xgxs_rx_lane_map_quad6.BCM88650=0x3210



#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88650=1

#Port init mode
#port_init_duplex=0
#port_init_adv=0
#port_init_autoneg=0


# This disables serdes initialization
# phy_null.BCM88650=1

##  Number of Internal ports
# Enable the ERP port. Values: 0 / 1.
num_erp_tm_ports.BCM88650=1
# Enable the OLP port. Values: 0 / 1.
num_olp_tm_ports.BCM88650=1
# Enable OAMP
num_oamp_ports.BCM88650=0

## Firmware Load Method
load_firmware.BCM88650=0x102

### Headers configuration ###

## Use of the tm_port_header_type_<Local-Port-Id>=<Header-type>
## Default header type is derived from fap_device_mode: If fap_device_mode is
## PP, default header type is ETH. Otherwise, defualt header type is TM.
## Header type per port can be overriden.
## All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/UDH_ETH
```

```
## Injected header types: if PTCH, INJECTED (local Port of type TM) or INJECTED_PP (PP)
##                        if PTCH-2, INJECTED_2 (local Port of type TM) or INJECTED_2_PP (PP)

# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88650=TM

tm_port_header_type_in_180.BCM88650=INJECTED_2
tm_port_header_type_out_180.BCM88650=CPU

tm_port_header_type_in_200.BCM88650=INJECTED_2_PP
tm_port_header_type_out_200.BCM88650=ETH
tm_port_header_type_in_201.BCM88650=INJECTED_2_PP
tm_port_header_type_out_201.BCM88650=ETH
tm_port_header_type_in_202.BCM88650=INJECTED_2_PP
tm_port_header_type_out_202.BCM88650=ETH
tm_port_header_type_in_203.BCM88650=INJECTED_2_PP
tm_port_header_type_out_203.BCM88650=ETH

### Parser Configuration ###
# Parser has 4 custom macros that are allocated dynamically and
# configured according to the following features and soc properties:
# Trill (1 macro) - trill_mode
# FCoE (2 macros) - bcm886xx_fcoe_switch_mode
# VxLAN (1 macro) - bcm886xx_vxlan_enable
# IPv6-Extension-header (2 macros) - bcm886xx_ipv6_ext_hdr_enable
# UDP (1 macro) - UDP parsing is enabled by default, and can be
#  disabled with soc property custom_feature_udp_parse_disable
#  When disabling UDP parsing VxLAN and 1588oUDP are affected

# Enable IPv6 Extension Header, 0 - disable (default), 1 - enable
#bcm886xx_ipv6_ext_hdr_enable=1

# Disable UDP parsing, 0 - enable (default), 1 - disable
#custom_feature_udp_parse_disable=1

#OAMP port
#tm_port_header_type_out_232.BCM88650=CPU

#MPLS-TP channel types for OAM/BFD - If MPLS-TP used, channel should be specified
#Available types: mplstp_bfd_control_channel_type
#        mplstp_pw_ach_channel_type
#        mplstp_dlm_channel_type
#        mplstp_ilm_channel_type
#        mplstp_dm_channel_type
#        mplstp_ipv4_channel_type
#        mplstp_cc_channel_type
#        mplstp_cv_channel_type
#        mplstp_on_demand_cv_channel_type
```

```
#           mplstp_pwe_oam_channel_type
#           mplstp_ipv6_channel_type
#           mplstp_fault_oam_channel_type
#           mplstp_g8113_channel_type
#mplstp_g8113_channel_type=0x8902

# Set the recycling port processing to be raw (static forwarding)
tm_port_header_type_rcy.BCM88650=RAW

### RCPU
# Valid CPU local ports on which RCPU packets can be received by slave device.
#rcpu_rx_pbmp=0xf000000000000000000000000000000000000000000000000001

#tm_port_header_type_514.BCM88650=RAW

## Header extensions
# Set if an FTMH Out-LIF extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS
fabric_ftmh_outlif_extension.BCM88650=IF_MC

# Set the FTMH Load-Balancing Key extension mode
# Options for 88660: ENABLED, FULL_HASH
# Options for 88650: ENABLED
# Options for 88640 compatible: DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY /
16B_STACKING_ROUTE_HISTORY / STANDBY_MC_LB (available only for AradPlus)
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88650=DISABLED

# Set if an OTMH Out-LIF (CUD) Extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS / DOUBLE_TAG (two hop scheduling)
# Default: NEVER
# tm_port_otmh_outlif_ext_mode_13.BCM88650=NEVER

# Set if an OTMH Source-System-Port Extension is present.
# Option: 0/1
# Default: 0
# tm_port_otmh_src_ext_enable_13.BCM88650=0

#Trunk hash format, relevant only for AradPlus. Possible values: NORMAL (default) / INVERTED /
DUPLICATED.
#trunk_hash_format=NORMAL

## Stacking Application
#stacking_enable.BCM88650=1

## System RED
# Set System-Red functionality.
#system_red_enable.BCM88650=1
```

```
# Indicate the size (Bytes) of a first header to skip
# before the major header at ingress (e.g. Ethernet, ITMH)
# It can be set per port also
first_header_size.BCM88650=0

# Indicate the size (Bytes) of the PMF Extension Headers
# to remove for TM header type ports (expecting ITMH)
# Set per port
#post_headers_size_0.BCM88650=4

# Indicate the size (Bytes) of the User-Headers: configurable
# headers located in the fabric between internal headers and
# Ethernet. Their values are set by Ingress FP, and can be used
# by Egress FP or Egress Editor.
# units: bits. 4 values can be set:
# 0 - size of the 1st User-Header, for the Egress PMF. 0b / 8b / 16b
# 1 - size of the 2nd User-Header, for the Egress PMF. 0b / 8b / 16b
# The sum of these 2 values should be under 16b
# 2, 3 - size of the 1st/2nd User-Header, for the Egress Editor.
# 0b / 8b / 16b / 24b / 32b
# Each of the global User-Header size must be under 32 bits, but not 24 bits.
# The Egress FP field is always at the MSB of the User-Header
# Not available for 88650-A0.
#field_class_id_size_0.BCM88650=8
#field_class_id_size_1.BCM88650=0
#field_class_id_size_2.BCM88650=24
#field_class_id_size_3.BCM88650=0


### Trunk - LAG configuration ###
# Set Set the number of LAGs: 1024, 512, 256, 128 or 64
number_of_trunks.BCM88650=256

### SYNCE configuration ###
## Synchronous Ethernet Signal Mode.
## Options: TWO_DIFF_CLK, TWO_CLK_AND_VALID. Default: TWO_CLK_AND_VALID
#sync_eth_mode.BCM88650=TWO_CLK_AND_VALID

## Clock Source (single SerDes) lane in the specified NIF port.
## Usage: sync_eth_clk_to_nif_id_clk_<clk_number>=<serdes_number>
#sync_eth_clk_to_nif_id_clk_0.BCM88650=1
#sync_eth_clk_to_nif_id_clk_1.BCM88650=1

## Clock Divider for the selected recovered clock. Valid values: 1/2/4. Default: 1.
## Usage: sync_eth_clk_divider_clk_<clk_number>=<1/2/4>
#sync_eth_clk_divider_clk_0.BCM88650=1
#sync_eth_clk_divider_clk_1.BCM88650=1
```

```
## Enable the automatic squelch function for the recovered clock. Valid values: 0/1. Default: 0.
## Usage: sync_eth_clk_squelch_enable_clk_<clk_number>=<0/1>
#sync_eth_clk_squelch_enable_clk_0.BCM88650=0
#sync_eth_clk_squelch_enable_clk_1.BCM88650=0

### ELK configuration ###
## External lookup (TCAM) Device type select, Indicate the External lookup Device type.
# Value Options: NONE/NL88650. Default: NONE.
#ext_tcam_dev_type=NL88650

## Set ELK FWD table Size.
# format: ext_xxx_fwd_table_size.
# where xxx replaced by FWD options: ip4_uc_rpf/ip4_mc/ip6_uc_rpf/ip6/ip6_mc/trill_uc/trill_mc/mpls/coup_mpls
# Value Options: (0) - External table disabled, >0: number of entries. Default: 0.
#ext_ip4_uc_rpf_fwd_table_size=8192
#ext_ip4_mc_fwd_table_size=8192

## Set ELK IP FWD use NetRoute  ALG.
# Value Options: ALG_LPM_LPM/ALG_LPM_NETROUTE/ALG_LPM_TCAM. Default: ALG_LPM_TCAM.
#ext_fwd_algorithm_lpm=ALG_LPM_TCAM

## Set ELK interface mode.
# Change ELK interface configuration to support CAUI port.
# Value Options: 0/1. 0 - Normal mode, 1  2 CAUI port + ELK mode. Default: 0.
#ext_interface_mode=0

### Configure MDIO interface
# External MDIO clock rate divisor . Default: 0x24.
#rate_ext_mdio_divisor=0x36
# External MDIO clock rate divisor. Default: 0x1.
#rate_ext_mdio_dividend=1

### TDM - OTN configuration ###
#fap_tdm_bypass.BCM88650=0

# Indicate if a Petra-B device is connected to the actual device
# For TDM/OTN applications,
# system_is_petra_b_in_system.BCM88650=0
##Indicate if TDM can arrive throgh primary pipe.
#Should be 1 for a System with PetraB that connected to fabric over primary pipe.
fabric_tdm_over_primary_pipe.BCM88650=0

### Fabric configuration ###
#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88650=2
#SFI speed rate
port_init_speed_sfi.BCM88650=10312
```

```
#CL72
port_init_cl72_sfi.BCM88650=1
fabric_segmentation_enable.BCM88650=1

## Fabric transmission mode
# Set the Connect mode to the Fabric
# Options: FE - presence of a Fabric device (single stage) / MULT_STAGE_FE -  Multi-stage /
# SINGLE_FAP - stand-alone device / MESH - mesh / BACK2BACK - 2 devices in Mesh
#fabric_connect_mode.BCM88650=SINGLE_FAP
fabric_connect_mode.BCM88650=FE

## Cell format configuration
# Indicate if the traffic can be sent in dual pipe
is_dual_mode.BCM88650=0
# Indicate the format of the cell:
# A VCS128 cell is used if system_is_vcs_128_in_system or system_is_fe600_in_system is TRUE
system_is_vcs_128_in_system.BCM88650=0
system_is_fe600_in_system.BCM88650=0

### WRED ###

# Set the maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88650=0

### OCB (On-Chip Buffer) configuration ###
# Enable the OCB
# Enable MODES:
#   0/FALSE       -->  OCB_DISABLED     --> No OCB use
#   1/TRUE        -->  OCB_ENABLED      --> Like in Arad-A0/B0. Some packets may use both DRAM and OCB
resources
#   ONE_WAY_BYPASS -->  Depends on number of present drams (available only for AradPlus):
#                   0 drams:   - OCB_ONLY
#                   1 drams:   - OCB_ONLY_1_DRAM     -->  : OCB-only with 1 DRAM for the free pointers
#                   2-8 drams: - OCB_DRAM_SEPARATE   -->  : OCB and DRAM coexist separately
#   Default: TRUE.
bcm886xx_ocb_enable.BCM88650=1

# OCB Data Buffer size. Possible values: 128/256/512/1024. Default: 256.
bcm886xx_ocb_databuffer_size.BCM88650=256
# Repartition between Unicast and Full Multicast buffers.
# 0: 80% Unicast and 20% Multicast, 1: Unicast-Only
bcm886xx_ocb_repartition.BCM88650=0

### PDM configuration ###
# Set the PDM Mode.
# 0: simple (default), 1: extended (mandatory for LLFC-VSQ, PFC-VSQ, or ST-VSQ)
bcm886xx_pdm_mode.BCM88650=0
```

```
### Multicast Number of DBuff mode ###
# Set IQM FMC buffers-replication sizes
# Options for 88650:
ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE/ARAD_INIT_FMC_64_REP_128K_DBUFF_MODE
# Default: ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88650=ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE

### Multicast configuration ###
# Multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_min.BCM88650=0
egress_multicast_direct_bitmap_max.BCM88650=4095

### VOQ - Flow configuration ###

# Set the VOQ mapping mode:
# DIRECT: More than 4K System Ports are supported. System-level WRED is not supported.
# INDIRECT: similar to Petra-B. Up to 4K System Ports.
voq_mapping_mode.BCM88650=INDIRECT

# Set the Base Queue to be added to the packet flow-id
# when the Flow-Id is set explicitely either by the ITMH
# or by the Destination resolution in the Packet processing
flow_mapping_queue_base.BCM88650=0

# Set the number of priorities supported at egress per Port
# Options: 1 / 2 / 8
port_priorities.BCM88650=8

# Set the shared multicast resource mode: Strict / Discrete
egress_shared_resources_mode.BCM88650=Strict

# Define outgoing port rate mode in data rate or packet rate.
# Options: DATA / PACKET
otm_port_packet_rate.BCM88650=DATA

# Set Port egress recycling scheduler configuration.
# 0: Strict Priority Scheduler, 1: Round Robin Scheduler
port_egress_recycling_scheduler_configuration.BCM88650=0

# Set statically the region mode per region id
# 0: queue connectors only (InterDigitated = FALSE, OddEven = TRUE)
# 1: queue connectors, SE (InterDigitated =TRUE, OddEven = TRUE)
# 2: queue connectors, SE (InterDigitated =TRUE, OddEven = FALSE)
dtm_flow_mapping_mode_region_65.BCM88650=0
dtm_flow_mapping_mode_region_66.BCM88650=0
dtm_flow_mapping_mode_region_67.BCM88650=0
dtm_flow_mapping_mode_region_68.BCM88650=0
dtm_flow_mapping_mode_region_69.BCM88650=0
```

dtm_flow_mapping_mode_region_70.BCM88650=0
dtm_flow_mapping_mode_region_71.BCM88650=0
dtm_flow_mapping_mode_region_72.BCM88650=0
dtm_flow_mapping_mode_region_73.BCM88650=0
dtm_flow_mapping_mode_region_74.BCM88650=0
dtm_flow_mapping_mode_region_75.BCM88650=0
dtm_flow_mapping_mode_region_76.BCM88650=0
dtm_flow_mapping_mode_region_77.BCM88650=0
dtm_flow_mapping_mode_region_78.BCM88650=0
dtm_flow_mapping_mode_region_79.BCM88650=0
dtm_flow_mapping_mode_region_80.BCM88650=0
dtm_flow_mapping_mode_region_81.BCM88650=1
dtm_flow_mapping_mode_region_82.BCM88650=1
dtm_flow_mapping_mode_region_83.BCM88650=1
dtm_flow_mapping_mode_region_84.BCM88650=1
dtm_flow_mapping_mode_region_85.BCM88650=1
dtm_flow_mapping_mode_region_86.BCM88650=1
dtm_flow_mapping_mode_region_87.BCM88650=1
dtm_flow_mapping_mode_region_88.BCM88650=1
dtm_flow_mapping_mode_region_89.BCM88650=1
dtm_flow_mapping_mode_region_90.BCM88650=1
dtm_flow_mapping_mode_region_91.BCM88650=1
dtm_flow_mapping_mode_region_92.BCM88650=1
dtm_flow_mapping_mode_region_93.BCM88650=1
dtm_flow_mapping_mode_region_94.BCM88650=1
dtm_flow_mapping_mode_region_95.BCM88650=1
dtm_flow_mapping_mode_region_96.BCM88650=1
dtm_flow_mapping_mode_region_97.BCM88650=1
dtm_flow_mapping_mode_region_98.BCM88650=1
dtm_flow_mapping_mode_region_99.BCM88650=2
dtm_flow_mapping_mode_region_100.BCM88650=2
dtm_flow_mapping_mode_region_101.BCM88650=2
dtm_flow_mapping_mode_region_102.BCM88650=2
dtm_flow_mapping_mode_region_103.BCM88650=2
dtm_flow_mapping_mode_region_104.BCM88650=2
dtm_flow_mapping_mode_region_105.BCM88650=2
dtm_flow_mapping_mode_region_106.BCM88650=2
dtm_flow_mapping_mode_region_107.BCM88650=2
dtm_flow_mapping_mode_region_108.BCM88650=2
dtm_flow_mapping_mode_region_109.BCM88650=2
dtm_flow_mapping_mode_region_110.BCM88650=2
dtm_flow_mapping_mode_region_111.BCM88650=2
dtm_flow_mapping_mode_region_112.BCM88650=2
dtm_flow_mapping_mode_region_113.BCM88650=2
dtm_flow_mapping_mode_region_114.BCM88650=2
dtm_flow_mapping_mode_region_115.BCM88650=2
dtm_flow_mapping_mode_region_116.BCM88650=2
dtm_flow_mapping_mode_region_117.BCM88650=2

```
dtm_flow_mapping_mode_region_118.BCM88650=2
dtm_flow_mapping_mode_region_119.BCM88650=2
dtm_flow_mapping_mode_region_120.BCM88650=2
dtm_flow_mapping_mode_region_121.BCM88650=2
dtm_flow_mapping_mode_region_122.BCM88650=2
dtm_flow_mapping_mode_region_123.BCM88650=2
dtm_flow_mapping_mode_region_124.BCM88650=2
dtm_flow_mapping_mode_region_125.BCM88650=2
dtm_flow_mapping_mode_region_126.BCM88650=2
dtm_flow_mapping_mode_region_127.BCM88650=2
dtm_flow_mapping_mode_region_128.BCM88650=2

### Flow Control configuration ###
# Set the Flow control type per Port.
# Options: LL (Link-level) / CB2 (Class-Based - 2 classes) /
# CB8 (Class-Based - 8 classes)
# flow_control_type.BCM88650=LL

## Out-Of-Band Flow control configuration
#spn_FC_OOB_TYPE, spn_FC_OOB_MODE, spn_FC_OOB_CALENDER_LENGTH,
spn_FC_OOB_CALENDER_REP_COUNT,

## Set voltage mode for oob interfaces
#HSTL_1.5V
#3.3V
#HSTL_1.5V_VDDO_DIV_2
ext_voltage_mode_oob=3.3V

## Inband Interlaken configuration
# spn_FC_INBAND_INTLKN_MODE, spn_FC_INBAND_INTLKN_CALENDER_LENGTH,
spn_FC_INBAND_INTLKN_CALENDER_REP_COUNT
# spn_FC_INBAND_INTLKN_CALENDER_LLFC_MODE,
spn_FC_INBAND_INTLKN_LLFC_MUB_ENABLE_MASK

### Meter engine configuration ###

# Specify meter operation mode
# 32 - Two meters per packet (32k total)
# 64 - One meter per packet (64k total)
# Options: 0, 32, 64
policer_ingress_count.BCM88650=32

# For meters in double 32k mode, determine the sharing mode
# Options:
# 0 - NONE (only for 64k mode)
# 1 - SERIAL (only for 32k mode)
# 2 - PARALLEL (only for 32k mode)
policer_ingress_sharing_mode.BCM88650=1
```

```
# Applies only to Arad+ (88660)
# For meters in parallel mode, determine the mapping
# Options: BEST, WORST
# policer_result_parallel_color_map.BCM88650=WORST

# Applies only to Arad+ (88660)
# For meters in parallel mode, determine how the buckets are changed
# Options: CONSTANT, TRANSPARENT, DEFERRED
# policer_result_parallel_bucket_update.BCM88650=CONSTANT

# Applies only to Arad+ (88660)
# Set the Ethernet policer to work in color blind mode
# rate_color_blind.BCM88650=1

# L2 learn limit mode
# Options: VLAN, VLAN_PORT, TUNNEL or the numeric equivalent 0-2.
# Default: VLAN
# l2_learn_limit_mode = VLAN_PORT

# Applies only to Arad+ (88660)
# Determines the L2 learn limit ranges when l2_learn_limit_mode is set to VLAN_PORT
# Two range bases can be selected, each of 16K size.
# Options: 0, 16K, 32K, 48K.
# Default: 0 & 16K
# l2_learn_lif_range_base_0 = 0
# l2_learn_lif_range_base_1 = 16K

### Counter engine configuration ###

# Set the Counter source
# Options: INGRESS_FIELD / INGRESS_VOQ / INGRESS_VSQ
# INGRESS_CNM / EGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM (per queue) /
EGRESS_TM_PORT (per port)
# EGRESS_RECEIVE_VSI / EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM (per queue) /
EGRESS_RECEIVE_TM_PORT (per port)
# INGRESS_OAM / EGRESS_OAM
# 2 Counter-Pointers can be set (with _0 and _1) for
# INGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT
# Range extension can be set (with _LSB and _MSB) for
# INGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT
/EGRESS_RECEIVE_VSI /
# EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM / EGRESS_RECEIVE_TM_PORT
counter_engine_source_0.BCM88650=INGRESS_FIELD
counter_engine_source_1.BCM88650=INGRESS_FIELD_1
counter_engine_source_2.BCM88650=INGRESS_VOQ
counter_engine_source_3.BCM88650=EGRESS_FIELD
```

```
# Configure the statistic interface egress source
# Options: EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT (the default is TM)
# valid just when there is no conflict with the other counter engines
#counter_engine_source_stat0.BCM88650=EGRESS_TM
#counter_engine_source_stat1.BCM88650=EGRESS_TM


# Set the Counter engine resolution
# SIMPLE_COLOR = green, not green
# SIMPLE_COLOR_FWD = fwd green, fwd not green (BCM88660_A0 only)
# SIMPLE_COLOR_DROP = drop green, drop not green (BCM88660_A0 only)
# FWD_DROP = forwarded, dropped
# GREEN_NOT_GREEN = fwd grn, drop grn, fwd not grn, drop not grn
# FULL_COLOR = fwd grn, drop grn, fwd not grn, drop yel, drop red
# ALL = received
# FWD = forwarded, DROP = droped (not supported by ARAD_A0)
# CONFIGURABLE = defined by counter_engine_map_ SOC properties (BCM88660_A0 only)
counter_engine_statistics_0.BCM88650=FULL_COLOR
counter_engine_statistics_1.BCM88650=FULL_COLOR
counter_engine_statistics_2.BCM88650=FULL_COLOR
counter_engine_statistics_3.BCM88650=FULL_COLOR

# Set the Counter format
# Options: PACKETS_AND_BYTES / PACKETS / BYTES
# / MAX_QUEUE_SIZE / PACKETS_AND_PACKETS(supported just in FWD_DROP statistic in
BCM88660_A0)
# If not PACKETS_AND_BYTES or PACKETS_AND_PACKETS, the HW Counter width is 59 bits, thus
# no background SW operation is performed
counter_engine_format_0.BCM88650=PACKETS_AND_BYTES
counter_engine_format_1.BCM88650=PACKETS_AND_BYTES
counter_engine_format_2.BCM88650=PACKETS_AND_BYTES
counter_engine_format_3.BCM88650=PACKETS_AND_BYTES

# #enable/disable counter processor background thread (default:1-enable)
# counter_engine_sampling_interval=1

### Configurable mode configuration (BCM88660_A0 only)###
# counter_engine_statistics_0.BCM88660_A0=CONFIGURABLE
# counter_engine_map_enable_0.BCM88660_A0=1
# counter_engine_map_size_0.BCM88660_A0=4
# counter_engine_map_fwd_green_offset_0.BCM88660_A0=0
# counter_engine_map_fwd_yellow_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_red_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_black_offset_0.BCM88660_A0=2
# counter_engine_map_drop_green_offset_0.BCM88660_A0=3
# counter_engine_map_drop_yellow_offset_0.BCM88660_A0=3
# counter_engine_map_drop_red_offset_0.BCM88660_A0=3
# counter_engine_map_drop_black_offset_0.BCM88660_A0=3
```

```
### Statistic-Report configuration ###
# Enable the Statistic-Interface configuration
# stat_if_enable_<port> - not supported by ARAD_A0
# stat_if_enable.BCM88650=1

# ## Statistic-Report Properties
# # Set the Statistic-Report mode
# # Options: BILLING / BILLING_QUEUE_NUMBER (not supported by ARAD_A0)/ QSIZE
# stat_if_report_mode.BCM88650=QSIZE
# #Indicate if idle reports must be sent
# #when the Statistic-report rate is too low
# stat_if_idle_reports_present.BCM88650=0
# # Indicate if the reported packet size is the original packet size
# stat_if_report_original_pkt_size.BCM88650=1
# #If set then a single ingress-billing report will be generated
# #for the whole set of the multicast copies
# stat_if_report_multicast_single_copy=1
# ## Statistic Packet configurations
# # Set the Statistic Packet size (Bytes)
# # Valid values: 65B/126B/248B/492B (Queue-Size), 64B/128B/256B/512B/1024B (Billing).
# stat_if_pkt_size=64B
#
# ## Scrubber configuration
# # Set the range of VOQs to scrub. Range: 0 - 96K-1.
# stat_if_scrubber_queue_min.BCM88650=0
# stat_if_scrubber_queue_max.BCM88650=0
#
# # Set the scrubber rate range
# # If set to 0 (default), the scrubber is disabled. Units: nanoseconds
# stat_if_scrubber_rate_min.BCM88650=0
# stat_if_scrubber_rate_max.BCM88650=0
#
# # Set the thresholds (thresh_id 0 - 15) defining
# # occupancy range per resource type:
# # DRAM Buffers, Buffer descriptors, Buffer descriptors buffers
# stat_if_scrubber_bdb_th.BCM88650=0
# stat_if_scrubber_buffer_descr_th.BCM88650=0
# stat_if_uc_dram_buffer_descr_th.BCM88650=0
#
# #Relective report for queue size mode - not supported by ARAD_A0
# #Reports will be created for queue num range (stat_if_selective_report_queue_min -
stat_if_selective_report_queue_max)
# #Default - all range
# stat_if_selective_report_queue_min.BCM88650_B0=0
# stat_if_selective_report_queue_max.BCM88650_B0=98303

### Transaction - DMA configuration ###
```

```
# Time to wait for SCHAN channel response (from CMIC). Units: microseconds.


### Counter threads ###
# spn_BCM_STAT_PBMP, spn_BCM_STAT_INTERVAL, spn_BCM_STAT_FLAGS

### Interrupts ###
## Set interrupts global parameters.
# Options: 1 - Polling interrupt mode, 0 - Line/MSI interrupt mode. Default: 1.
polled_irq_mode.BCM88650=0
#  Set the delay in microsecond between the polling, relevant only to Polling mode.  Default: 0x0.
polled_irq_delay.BCM88650=50000

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#        Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling, relevant only to Polling completion mode.
# SCHAN:
#schan_intr_enable.0=1
schan_timeout_usec.BCM88650=300000
# TDMA
tdma_intr_enable.BCM88650=1
tdma_timeout_usec.BCM88650=5000000
# TSLAM
tslam_intr_enable.BCM88650=1
tslam_timeout_usec.BCM88650=5000000
# MIIM
#miim_intr_enable.0=1
miim_timeout_usec.0=300000

### DRAM configuration ###

# DRAM buffer (Dbuff) size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88650=1024

# Number of external DRAMs.
# Allowed values for 88650: 0/2/3/4/6/8. A value of 0 disables the DRAM.
# Allowed values for 88660: 0/1/2/3/4/6/8. A value of 0 disables the DRAM.
#                                A value of 1 is permitted only in ONE WAY BYPASS ocb mode.
ext_ram_present.BCM88650=8

### Dram Tuning (Shmoo)
# 2 = Use Dram saved config Parameters, if no Parameters Perform Shmoo on init. Default option.
# 1 = Perform Shmoo on init.
# 0 = Use Dram saved config Parameters, if no Parameters do nothing.
ddr3_auto_tune.BCM88650=2
```

```
### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Defult: 1.
# bist_enable_dram.BCM88650=1

### Example for Dram Saved config Parameters.
## This example is for ci=14 (Dram=7).
#ddr3_tune_addrc_ci14=0x000000ae
#ddr3_tune_wr_dq_wl1_ci14=0x92929292,0x92929292,0x92929292,0x92929292
#ddr3_tune_wr_dq_wl0_ci14=0x93939393,0x93939393,0x92929292,0x92929292
#ddr3_tune_wr_dq_ci14=0x80808080
#ddr3_tune_vref_ci14=0x000007df
#ddr3_tune_rd_dqs_ci14=0x96969191,0x90909191
#ddr3_tune_rd_dq_wl1_rn_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rn_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_dq_wl1_rp_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rp_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_en_ci14=0x009d9e9d,0x00a2a3a1
#ddr3_tune_rd_data_dly_ci14=0x00000505


# Dram type: Select ONLY ONE of the following DRAM types, to configure all dram related parameteres per type.
# Dram Type for Arad:
dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_933=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_800=1
#dram_type_DDR3_MICRON_MT41J256M16_4GBIT_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_933=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_800=1
#dram_type_DDR3_MICRON_MT42J64M16LA_15E_667=1
#dram_type_DDR3_SAMSUNG_K4B4G1646B_4GBIT_1066=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_933=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_800=1

### Setting dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066 Parameters as Default:
## All other dram types parameter resides in arad.soc. choosing another Dram Type will override the following
parameters.
ext_ram_t_rrd=6000
ext_ram_columns=1024
ext_ram_banks=8
ext_ram_ap_bit_pos=10
ext_ram_burst_size=32
ext_ram_t_ref=3900000
ext_ram_t_wr=15000
ext_ram_t_wtr=7500
ext_ram_t_rtp=7500
ext_ram_freq=1066
ext_ram_rows=16384
```

```
ext_ram_jedec=29
ext_ram_t_rc=46090
ext_ram_t_rcd_rd=13090
ext_ram_t_rcd_wr=13090
ext_ram_t_rp=13090
ext_ram_t_rfc=160000
ext_ram_t_ras=33000
ext_ram_c_wr_latency=10
ext_ram_t_faw=35000
ext_ram_c_cas_latency=14
ddr3_mem_grade=0x141414

# DRAM pre-configurations according to config variables which defines
# Dram Type. supports only DDR3.
ext_ram_type.BCM88650=DDR3

# Total Dram Size (MBytes)
# For 8 drams interfaces, 2 channel each, Each channel 2Gbit Dram. the total DRAM size is 32GBits=4000MBytes.
ext_ram_total_size.BCM88650=4000

# Total buffer size allocated for User buffer. Units: Mbytes. Default: '0x0'.
# Supported suffix:
#       dram - the buffer size will be subtracted from the DRAM size available for packet memory.
#user_buffer_size=0
#user_buffer_size_dram=50

# DRAM ClamShell (interface swap its HW PIN pairs during init. Note: Only one of DRAMs can have its PIN
swapped)
# Valid values: 0/1
#dram0_clamshell_enable.BCM88650=1
#dram1_clamshell_enable.BCM88650=1

# DRAM maximum number of crc error per buffer, buffer deleted by interrupt application.
#dram_crc_del_buffer_max_reclaims=0

### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
#stable_location.BCM88650=3
#Set the warm boot data filename.
#stable_filename.BCM88650=./warmboot_data
#Set the warm boot data file size (At least 10MB for PETRA-B, 4MB for ARAD)
#stable_size.BCM88650=1000000000


################################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
```

```
##############################

## If set, always configures synthesizers, even if the configured rate is equal to
## their nominal rate. Can be disabled to speedup bringup time (keep in mind that if
## disabled, changing a synt to a non-nominal freq and than back to nominal will not
## work
#synt_over.BCM88650=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88650=100000000
synt_ddr.BCM88650=125000000
synt_phy.BCM88650=156250000
synth_dram_freq.BCM88650=25

#Configure the reference clock frequencies for NIF and Fabric SerDes
# Options:  0 - 125MHZ, 1 - 156.25MHz
serdes_nif_clk_freq.BCM88650=1
serdes_fabric_clk_freq.BCM88650=1
# IEEE 1588 -
# configure clock (for 1588 debug, when Broadsync is disabled):
#  DPLL mode/lock: 0 - eci ts pll clk disabled, 1 - configure eci ts pll clk
#  DPLL phase/freq. Default initial: lo = 0x40000000, hi = 0x10000000.
#phy_1588_dpll_frequency_lock.BCM88650=1
#phy_1588_dpll_phase_initial_lo.BCM88650=0x40000000
#phy_1588_dpll_phase_initial_hi.BCM88650=0x10000000
# port external MAC
#  indication whether external MAC exists or not.
#  0: 1588 external MAC does not exist
#  1: 1588 external MAC exists
#  the external MAC substracts the RX time from the correction field
#  and adds the TX time to the correction field.
#ext_1588_mac_enable_14.BCM88650=1

## Trill configurations
# Trill mode: 0 (disabled) / 1 (coarse-grained) / 2 (fine-grained)
#trill_mode.BCM88650=1

# Trill multicast prunning mode:
# 0: no prunning - vsi is not part of the key
# 1: VSI prunning: Key is dist-tree,esadit-bit,VSI.
trill_mc_prune_mode.BCM88650=0

# Enable SA authentication
#sa_auth_enabled=1

# Bridge default logical interfaces allocation IDS
```

```
logical_port_l2_bridge.BCM88650=0
logical_port_drop.BCM88650=1

#logical_port_mim_in.BCM88650=2
#logical_port_mim_out.BCM88650=4096

# Enable EVB application
#evb_enable=1

# Enable Flexible QinQ application
#vlan_translation_match_ipv4=1

# Enable presel mgmt advance mode
#field_presel_mgmt_advanced_mode=1


# Prepend tag to be 4 bytes or 8 bytes. Default: 4B.
# Applicable only from ARAD+
#prepend_tag_bytes=4B

# The Prepend Tag is located at (12 + 2*offset) bytes from the start of the packet.
# Range: 0-7. Default: 0
#prepend_tag_offset=0

# Enable ARP (next hop mac extension) feature
bcm886xx_next_hop_mac_extension_enable.BCM88650=1

# Set VLAN translate mode.
# 0: normal
# 1: advanced mode. Enable vlan edit settings with enhanced user control
#bcm886xx_vlan_translate_mode=0

# Set MPLS termination database mode
# Set MPLS databases location for each MPLS namespace (L1,L2,L3)
#bcm886xx_mpls_termination_database_mode=0

# Enable , Disable MPLS indexed.
# MPLS termination with known label stack location.
# Must be enabled in case device supports more than 2 MPLS label terminations (L1,L2,L3)
#mpls_termination_label_index_enable=1

# Enable FastReRoute labels in device.
#fast_reroute_labels_enable=0

# Enable MPLS Context specific. Upstream label assignment in device.
#mpls_context_specific_label_enable=0

# MPLS context.
```

```
# Can be global, per port , per interface or per port,interface.
#mpls_context=global

# MPLS TP MC reserved mac address (01-00-5E-90-00-00).
# If set device will support My-MAC termination of reserved MC Ethernet
#mpls_tp_mymac_reserved_address=0

# MPLS ELI enable disable
mpls_entropy_label_indicator_enable=0

##########################################
##cfg for BCM88202 - Ardon
##########################################

#Core clock and system reference clock (KHz)
core_clock_speed_khz.BCM88202=450000
system_ref_core_clock_khz.BCM88202=300000

#diag_disable.BCM88202=1
diag_cosq_disable.BCM88202=1
stack_enable.BCM88202=0

fap_device_mode.BCM88202=TM

## Disable ports that are defined in noraml application configuration
ucode_port_17.BCM88202=IGNORE
ucode_port_16.BCM88202=IGNORE
ucode_port_15.BCM88202=IGNORE
ucode_port_14.BCM88202=IGNORE
ucode_port_13.BCM88202=IGNORE
ucode_port_202.BCM88202=IGNORE
ucode_port_203.BCM88202=IGNORE

## Set Ardon Main port
ucode_port_1.BCM88202=TM_INTERNAL_PKT.0
#ucode_port_6.BCM88202=TM_INTERNAL_PKT.1

## Set CPU ports header type
tm_port_header_type_in_0.BCM88202=TM
tm_port_header_type_out_0.BCM88202=TM
tm_port_header_type_in_200.BCM88202=TM
tm_port_header_type_out_200.BCM88202=TM
tm_port_header_type_in_201.BCM88202=TM
tm_port_header_type_out_201.BCM88202=TM

## To use MC-ID in the range of < 255
egress_multicast_direct_bitmap_max.BCM88202=255
```

```
## Enable Flow Control to CL SCH. Relevant only to Priority Over Port application
## Valid values: 1 - Enable, 0 - Disable. Default: 0x0.
custom_feature_cl_scheduler_fc.BCM88202=1

## Use lower CL. Ardon FC is mapped to CL 0-255.
dtm_flow_mapping_mode_region_65.BCM88202=1
dtm_flow_mapping_mode_region_66.BCM88202=1

### Statistic-Report Properties
## Set the Statistic-Report mode
stat_if_report_mode.BCM88202=QSIZE
## Enable statistics reports on EnQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_enqueue_enable.BCM88202=1
## Enable statistics reports on DeQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_dequeue_enable.BCM88202=1

## Disable removed features
phy_1588_dpll_frequency_lock.BCM88202=0
low_power_nif_mac.BCM88202=0
low_power_fabric_mac.BCM88202=0

### EMUL changes
#diag_emulator_partial_init.BCM88202=1
#schan_timeout_usec.BCM88202=100000000000
#tdma_timeout_usec.BCM88202=100000000000
#tslam_timeout_usec.BCM88202=100000000000
#phy_null.BCM88202=0

## Disable fabric links
serdes_qrtt_active_0.BCM88202=0
serdes_qrtt_active_1.BCM88202=0
serdes_qrtt_active_2.BCM88202=0
serdes_qrtt_active_3.BCM88202=0

### Dram setup
# Number of external DRAMs.
# Allowed values for 88202: 0 / 1 (Dram C) / 2 (Dram's C, D) / 3 (Dram's A, C, D) / 4 (Dram's A, B, C, D) /
ext_ram_present.BCM88202=0

bcm886xx_ocb_databuffer_size.BCM88202=1024

# DRAM frequency
ext_ram_freq.BCM88202=1200

# Dram Type. Ardon supports only DDR4.
ext_ram_type.BCM88202=DDR4

# Dram Type:
```

```
dram_type_DDR4_MICRON_MT40A256M16HA_083EA_4GBIT=1
#dram_type_DDR4_HYNIX_H5AN4G6NMFR_VJC_4GBIT=1

### Dram Features

## Dram Gear down mode. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
#ext_ram_gear_down_mode.BCM88202=1

## Alert_n de-assertion period above which error is considered parity error
#ext_ram_alert_n_period_thrs.BCM88202=0

## Dram Address bus inversion. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_abi.BCM88202=0

## Data bus inversion on write/read direction. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_write_dbi.BCM88202=1
ext_ram_read_dbi.BCM88202=1

## Enable write/read CRC (DDR4 does not support read CRC). Default: 0x0.
#ext_ram_write_crc=.BCM882021
#ext_ram_read_crc=.BCM882021

## Command parity latency. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
#ext_ram_cmd_par_latency.BCM88202=4

## DRAM ClamShell (interface swap its HW PIN pairs during init. Note: Only one of DRAMs can have its PIN
swapped). Valid values: 0/1.
#dram0_clamshell_enable_1.BCM88202=1
#dram1_clamshell_enable_3.BCM88202=1

## Dram DQ Swap.
## Format: ext_ram_dq_swap_dramX_byteY_bitZ=M. Means, In dram X, Byte Y swap DQ Z and M. Default: No
swapping.
#ext_ram_dq_swap_dram1_byte2_bit3.BCM88202=4
#ext_ram_dq_swap_dram4_byte3_bit2.BCM88202=1

### Dram Tuning (Shmoo)
# 1 = Perform Shmoo on init.
# 0 = Use Dram saved config Parameters, if no Parameters do nothing.
ddr3_auto_tune.BCM88202=0

### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Default: 1.
bist_enable_dram.BCM88202=1

##########################################
##cfg for BCM88640_A0 - Petra
##########################################
```

```
force_clk_m_n_divisors_zero_nif0.BCM88640_A0=0
force_clk_m_n_divisors_zero_fabric0.BCM88640_A0=1
force_clk_m_n_divisors_zero_comb0.BCM88640_A0=0

combo_ref_clock.BCM88640=312500

nif_ref_clock.BCM88640_A0=312500

# Use variable cell size
system_cell_format.BCM88640_A0=VCS128

# Core clock speed (MHz)
core_clock_speed.BCM88640_A0=300

# Map bcm local port to CPU/NIF interfaces
ucode_port_0.BCM88640_A0=CPU.0
ucode_port_73.BCM88640_A0=CPU.1
ucode_port_74.BCM88640_A0=CPU.2
ucode_port_75.BCM88640_A0=CPU.3
ucode_port_76.BCM88640_A0=CPU.4
ucode_port_77.BCM88640_A0=CPU.5
ucode_port_78.BCM88640_A0=CPU.6

# Interlaken ports basic configuration (temporary).
# This configuration replaces the above XAUI/RXAUI ports config
# The following PB design constraint is not enforced in SW, so must be taken
# care of here, when mapping ports to interfaces:
#   If using ilkn0, port 1 (if used) must be mapped to ilkn0
#   If using ilkn1, port 2 (if used) must be mapped to ilkn1
#   Note that in our default mapping, port 2 is mapped to RXAUI 6, thus won't
#   work. If one wants to use front panel port 2 with ilkn1, he should be map
#   RAXUI6 to a port != 2.
#ilkn_num_lanes_0.BCM88640_A0=12
#ucode_port_1.BCM88640_A0=ILKN0.0
#ucode_port_2.BCM88640_A0=ILKN0.1
#ucode_port_3.BCM88640_A0=ILKN0.2
#ilkn_num_lanes_1.BCM88640_A0=12
#ucode_port_4.BCM88640_A0=RXAUI6
#ucode_port_5.BCM88640_A0=ILKN1.0
#ucode_port_6.BCM88640_A0=ILKN1.1
#ucode_port_7.BCM88640_A0=ILKN1.2

# Default header type is derived from fap_device_mode: If fap_device_mode is
# PP, default header type is ETH. Otherwise, defualt header type is TM.
# Header type per port can be overriden.
# All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/INJECTED
```

```
# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88640_A0=TM
tm_port_header_type_in_0.BCM88640_A0=TM
tm_port_header_type_out_0.BCM88640_A0=CPU
tm_port_header_type_73.BCM88640_A0=TM
tm_port_header_type_74.BCM88640_A0=TM
tm_port_header_type_75.BCM88640_A0=TM
tm_port_header_type_76.BCM88640_A0=TM
tm_port_header_type_77.BCM88640_A0=TM
tm_port_header_type_78.BCM88640_A0=TM
# recycling port
tm_port_header_type_40.BCM88640_A0=RAW
ucode_port_40.BCM88640_A0=RCY.0

# Enable ERP and OLP ports
num_erp_tm_ports.BCM88640_A0=1
num_olp_tm_ports.BCM88640_A0=1
num_recycle_tm_ports.BCM88640_A0=1

# Dram configuration
# 600 Mhz
ext_ram_pll_r.BCM88640_A0=4
ext_ram_pll_f.BCM88640_A0=47
ext_ram_pll_q.BCM88640_A0=1
ext_ram_freq.BCM88640_A0=600

# Dbuff size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88640_A0=1024

# Number of external DRAMs.
# Allowed values for 88x4x: 0/2/3/4/6.
# Allowed values for 88650: 0/2/3/4/6/8.
# ext_ram_total_size below assumed this value is 6 for 88x4x and 8 for
ext_ram_present.BCM88640_A0=6

# Dram type: Select ONLY ONE of the following DRAM types, to configure all dram
# related parameteres per type.
# Dram Type for Pb:
dram_type_DDR3_MICRON_MT41J64M16_15E.BCM88640_A0=1
#dram_type_DDR2_MICRON_K4T51163QE_ZC_LF7.BCM88640_A0=1
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333.BCM88640_A0=1
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600.BCM88640_A0=1
#dram_type_GDDR3_SAMSUNG_K4J52324QE.BCM88640_A0=1
#dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G.BCM88640_A0=1

# QDR configuration
# Parity. Allowed values: PARITY/ECC.
```

```
ext_qdr_protection_type.BCM88640_A0=PARITY
ext_qdr_size_mbit.BCM88640_A0=72
#QDR type: QDR/QDR2P/QDR3/NONE.
ext_qdr_type.BCM88640_A0=QDR

# QDR can use the core clock, or using it's own pll. Current example is for 250MHz pll (if used).
# QDR using own pll configuration
#ext_qdr_use_core_clock_freq.BCM88640_A0=0
#ext_qdr_pll_m.BCM88640_A0=4
#ext_qdr_pll_n.BCM88640_A0=4
#ext_qdr_pll_p.BCM88640_A0=0

# QDR using core clock
ext_qdr_use_core_clock_freq.BCM88640_A0=1

#Configure MDIO. If parameter is not defined, MDIO is disabled.
mdio_clock_freq_khz.BCM88640_A0=1000

# Streaming interface configuration
streaming_if_enable_timeoutcnt.BCM88640_A0=1
streaming_if_timeout_prd.BCM88640_A0=70
streaming_if_quiet_mode.BCM88640_A0=0
streaming_if_discard_bad_parity.BCM88640_A0=0

# maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88640_A0=0

# multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_min.BCM88640_A0=0
egress_multicast_direct_bitmap_max.BCM88640_A0=4095

# configure flow mapping base to 0
flow_mapping_queue_base.BCM88640_A0=0

dtm_flow_mapping_mode_region_25.BCM88640_A0=0
dtm_flow_mapping_mode_region_26.BCM88640_A0=0
dtm_flow_mapping_mode_region_27.BCM88640_A0=0
dtm_flow_mapping_mode_region_28.BCM88640_A0=0
dtm_flow_mapping_mode_region_29.BCM88640_A0=0
dtm_flow_mapping_mode_region_30.BCM88640_A0=0
dtm_flow_mapping_mode_region_31.BCM88640_A0=0
dtm_flow_mapping_mode_region_32.BCM88640_A0=0
dtm_flow_mapping_mode_region_33.BCM88640_A0=1
dtm_flow_mapping_mode_region_34.BCM88640_A0=1
dtm_flow_mapping_mode_region_35.BCM88640_A0=1
dtm_flow_mapping_mode_region_36.BCM88640_A0=1
dtm_flow_mapping_mode_region_37.BCM88640_A0=1
dtm_flow_mapping_mode_region_38.BCM88640_A0=1
```

```
dtm_flow_mapping_mode_region_39.BCM88640_A0=1
dtm_flow_mapping_mode_region_40.BCM88640_A0=1
dtm_flow_mapping_mode_region_41.BCM88640_A0=1
dtm_flow_mapping_mode_region_42.BCM88640_A0=2
dtm_flow_mapping_mode_region_43.BCM88640_A0=2
dtm_flow_mapping_mode_region_44.BCM88640_A0=2
dtm_flow_mapping_mode_region_45.BCM88640_A0=2
dtm_flow_mapping_mode_region_46.BCM88640_A0=2
dtm_flow_mapping_mode_region_47.BCM88640_A0=2
dtm_flow_mapping_mode_region_48.BCM88640_A0=2
dtm_flow_mapping_mode_region_49.BCM88640_A0=2
dtm_flow_mapping_mode_region_50.BCM88640_A0=2
dtm_flow_mapping_mode_region_51.BCM88640_A0=2
dtm_flow_mapping_mode_region_52.BCM88640_A0=2
dtm_flow_mapping_mode_region_53.BCM88640_A0=2
dtm_flow_mapping_mode_region_54.BCM88640_A0=2
dtm_flow_mapping_mode_region_55.BCM88640_A0=2

# Power up state (DOWN/UP/UP_AND_RELOCK). Can be configured per lane.
pb_serdes_lane_power_state.BCM88640_A0=UP_AND_RELOCK

# SeDes media type: Pre-configuration for tx params, according to
# media type.
# Allowed values: SHORT_BACKPLANE/LONG_BACKPLANE/CHIP2CHIP
pb_serdes_lane_tx_phys_media_type.BCM88640_A0=SHORT_BACKPLANE
pb_serdes_lane_tx_phys_media_type_28.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_29.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_30.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_31.BCM88640_A0=CHIP2CHIP

system_is_fe1600_in_system.BCM88640_A0=0

# Counter engine configuration
counter_engine_source_1.BCM88640_A0=0
counter_engine_statistics_1.BCM88640_A0=4
counter_engine_source_2.BCM88640_A0=1
counter_engine_statistics_2.BCM88640_A0=4

# Statistic Reporting
stat_if_enable=0

# Clock Phases: 0/90/180/270
stat_if_phase=0

# Rate in nm
stat_if_sync_rate=0

# TRUE/FALSE
```

```
stat_if_parity_enable=FALSE

# BILLING/FAP20V
stat_if_report_mode=BILLING

# Billing Mode
# EGR_Q_NB/CUD/VSI_VLAN/BOTH_LIFS
stat_if_report_billing_mode=VSI_VLAN

# Fap20V Mode
# QUEUE/PACKET
stat_if_report_fap20v_mode=QUEUE

# QUEUE_NUM/MC_ID (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_fabric_mc=QUEUE_NUM
stat_if_report_fap20v_ing_mc=QUEUE_NUM

# TRUE/FALSE (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_cnm_report=FALSE

# TRUE/FALSE
stat_if_report_fap20v_count_snoop=FALSE
stat_if_report_original_pkt_size=FALSE
stat_if_report_fap20v_single_copy_reported=FALSE

schan_timeout_usec.BCM88640_A0=300000


polled_irq_mode.BCM88640_A0=0
polled_irq_delay.BCM88640_A0=1000

# Set the FTMH Load-Balancing Key extension mode
# Options for 88650: ENABLED
# Options for 88640 compatible: DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY /
16B_STACKING_ROUTE_HISTORY
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88640=DISABLED

##########################################
##cfg for BCM88750 (FE1600)
##########################################

fabric_device_mode.BCM88750=SINGLE_STAGE_FE2

is_dual_mode.BCM88750=0
system_is_vcs_128_in_system.BCM88750=0

system_is_dual_mode_in_system.BCM88750=0
```

```
system_is_single_mode_in_system.BCM88750=1

system_is_fe600_in_system.BCM88750=0

system_ref_core_clock_khz.BCM88750=600000

fabric_merge_cells.BCM88750=0
fabric_multicast_mode.BCM88750=DIRECT
fabric_load_balancing_mode.BCM88750=NORMAL_LOAD_BALANCE
fabric_tdm_fragment.BCM88750=0x180
##Allows single pipe device to send TDM traffic over the fabric primary pipe - available for Fe1600_B0 only
#change  vcs128_unicast_priority to be lower than 2 - when enabling
fabric_tdm_over_primary_pipe.BCM88750=0
fabric_optimize_partial_links.BCM88750=0
vcs128_unicast_priority.BCM88750=2

polled_irq_mode.BCM88750=0
polled_irq_delay.BCM88750=1000

#Selects if to run MBIST (Memory Built In Self Test) of internal memory (tables) during startup.
#Supported values: 0=don't run, 1=run, 2=run with extra logs
#bist_enable.BCM88650=1
bist_enable.BCM88750=1
#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88750=0
load_firmware.BCM88750=2

#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88750=2

#enable\disable CL72
port_init_cl72.BCM88750=1
#Avaliable speeds for BCM88750: 5750, 6250, 10312, 11500, 12500
port_init_speed.BCM88750=10312
#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88750=1
serdes_fabric_clk_freq_out.BCM88750=1
serdes_mixed_rate_enable.BCM88750_B0=0

# VSC128 or VSC256
fabric_cell_format.BCM88750=VSC256

# Core clock speed (MHz)
core_clock_speed_khz.BCM88750=533333

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
```

```
#        Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88750=0
schan_timeout_usec.BCM88750=300000
# TDMA
tdma_intr_enable.BCM88750=0
tdma_timeout_usec.BCM88750=5000000
# TSLAM
tslam_intr_enable.BCM88750=0
tslam_timeout_usec.BCM88750=5000000
# MIIM
miim_intr_enable.BCM88750=0
miim_timeout_usec.BCM88750=300000


### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
stable_location.BCM88750=3
#Set the warm boot data filename.
stable_filename.BCM88750=./warmboot_data
#Set the warm boot data file size
stable_size.BCM88750=200000

##########################################
##cfg for BCM88950 (FE3200)
##########################################
#Device  operation
fabric_device_mode.BCM88950=SINGLE_STAGE_FE2
fabric_multicast_mode.BCM88950=DIRECT
fabric_load_balancing_mode.BCM88950=NORMAL_LOAD_BALANCE

#Cell format
system_is_vcs_128_in_system.BCM88950=0

#Fabric pipe configuration

fabric_num_pipes.BCM88950=1
fabric_pipe_map.BCM88950=0
system_contains_multiple_pipe_device.BCM88950=0

#Core clock and system reference clock (KHz)
system_ref_core_clock_khz.BCM88950=800000
core_clock_speed_khz.BCM88950=720000

#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88950=1
```

```
serdes_fabric_clk_freq_out.BCM88950=1


#polled_irq_mode.BCM88950=0
#polled_irq_delay.BCM88950=1000

#Memory Bist
bist_enable.BCM88950=1

#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88950=0
load_firmware.BCM88950=0x102


##Per port properties
: support string values
#Possible values - 2: KR_FEC, 4: 64_66, 5: RS_FEC, 6: LL_RS_FEC
backplane_serdes_encoding.BCM88950=2

#enable\disable CL72
port_init_cl72.BCM88950=1

#link speed
port_init_speed.BCM88950=21875

#Link connecd to a reapter
#Values: FE1600/FE3200/NONE
#repeater_link_enable_<port>.BCM88950=FE3200

##Fabric cell FIFO DMA
fabric_cell_fifo_dma_enable.BCM88950=0

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#       Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88950=0
schan_timeout_usec.BCM88950=300000
# TDMA
tdma_intr_enable.BCM88950=0
tdma_timeout_usec.BCM88950=5000000
# TSLAM
tslam_intr_enable.BCM88950=0
tslam_timeout_usec.BCM88950=5000000
# MIIM
miim_intr_enable.BCM88950=0
```

```
miim_timeout_usec.BCM88950=300000

### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
stable_location.BCM88950=3
#Set the warm boot data filename.
stable_filename.BCM88950=./warmboot_data
#Set the warm boot data file size
stable_size.BCM88950=200000

##############################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
##############################

# Support (and configure on init) packet processing features.
# If not defined - only traffic management capabilities are enabled.
packet_processing=1

## PCP (Petra Co-Processor) features
#pcp_elk.BCM88640_A0=1
#pcp_oam.BCM88640_A0=1
#pcp_dma.BCM88640_A0=1

## Set/Override TDM related config variables
#tdm.BCM88640_A0=1

# If set, always configures synthesizers, even if the configured rate is
# equal to
# their nominal rate. Can be disabled to speedup bringup time
# (keep in mind that if disabled, changing a synt to a non-nominal freq and
# than back to nominal will not work
#synt_over.BCM88640_A0=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88640_A0=100000000
synt_ddr.BCM88640_A0=125000000
synt_phy.BCM88640_A0=156250000

## Scache initialization for warmboot persistent storage.
## Valid values: 2: Store in dram. 3: Store in a file.
stable_location=3
stable_filename=./warmboot_data
stable_flags=0
stable_size=1000000000
```

```
# Bridge default logical interfaces allocation IDS
logical_port_l2_bridge.BCM88640=1
logical_port_drop.BCM88640=-1

#logical_port_mim_in.BCM88640=2
#logical_port_mim_out.BCM88640=3

## IPV6 tunnel
bcm886xx_ipv6_tunnel_enable=1

## Inlif Profile Management Mode - QoS L3 L2 marking mode
#
# BCM88660 ONLY
#
# QoS L3 L2 marking allows changing the DSCP and/or EXP values
# of IP and/or MPLS packets according to the incoming port
# (or inlif), and the Traffic Class/Drop Precedence.
#
# The inlif profile is used to control the DSCP/EXP marking.
# This SOC property controls which mode is used for the inlif profile:
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the DSCP/EXP marking).
# 0: Advanced mode (the user controls which inlif profile values perform DSCP/EXP marking directly).
#bcm886xx_qos_l3_l2_marking=1

## Unicast RPF mode per RIF
#
# This SOC property allows the user to set the unicast RPF mode - loose, strict or disabled - per RIF.
# If disabled, the unicast RPF mode of a RIF is set globally.
# Options: 0 / 1

# bcm886xx_l3_ingress_urpf_enable=1

## BOS handling mode
# BCM8866X ONLY
#
# There are two ways to handle BOS, controlled by bcm886xx_mpls_termination_mode:
# 0 - Use BOS as key in lookup.
# 1 - Don't use it (except for reserved labels).
#
#bcm886xx_mpls_termination_key_mode=0

# Color resolution mode allows the user to have more detailed metering color information.
# BCM88660 ONLY
#
# Options: 0/1
# 0: A red result from both Ethernet policer and policer implies DP=3.
# 1: A red result from the policer implies that DP=2, while a red result from rate (Ethernet policer) implies DP=3.
```

```
#policer_color_resolution_mode=1

## Inlif Profile Management Mode - Disable Same Interface Filter
# BCM8866X ONLY
#
# Controls which mode is used for the inlif profile management.
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the same-interface filter).
# 0: Advanced mode (the user controls which inlif profile values have the same-interface filter disabled for them).
#bcm886xx_logical_interface_bridge_filter_enable=1

## Default Block Forwarding Strength
#
# Configure the default forwarding strength of blocks.
#
# SOC Properties:
#block_trap_strength_vtt - VTT block forwarding strength
#block_trap_strength_flp - FLP block forwarding strength
#block_trap_strength_hash - SLB block forwarding strength (BCM8866X ONLY)
#block_trap_strength_pmf_0 - PMF 1st lookup forwarding strength
#block_trap_strength_pmf_1 - PMF 2nd lookup forwarding strength
#
# Options: 0-7

## Stateful Load Balancing
# BCM8866X ONLY
#
# Stateful Load Balancing (SLB) allows the load balancing of ECMP and LAG
# groups to become stateful.
# In standard load balancing, removing a member from the ECMP/LAG
# group may affect the selected member, since the formula
# depends on group size.
# In stateful load balancing the member is selected once and saved.
# Later, the member is always retrieved, and does not depend on
# the size of the LAG/ECMP group.
#
# resilient_hash_enable - Enable/disable SLB. Values:
# 1 - Enable SLB.
# 0 - Disable SLB.
#resilient_hash_enable=1

#Make Arad SOC properties work for Arad+, by mapping the BCM88660 suffix to BCM88650
soc_family.BCM88660=BCM88650
soc_family.BCM88675=BCM88650
#Make Arad SOC properties work for Ardon, by mapping the BCM88202 suffix to BCM88650
soc_family.BCM88202=BCM88650

# Use different mymac addresses for ipv4 and ipv6 when using vrrp for mymac termination.
#l3_vrrp_ipv6_distinct=1
```

Enable multiple mymac termination mode. In order to enable it, also set l3_vrrp_ipv6_distinct=0 and l3_vrrp_max_vid=0 since vrrp and
multiple mymac mode can't co exist.
#l3_multiple_mymac_termination_enable=1

Distinguish between ipv4 and all other l3 protocols when multiple mymac terminating
#l3_multiple_mymac_termination_mode=1

Usually the final DP given by the meter (or the In-DP) is unchanged, and can be from 0-3.
When this SOC property is set to 1, when the final INGRESS DP is 2, it is mapped to 1 instead, and thus only the values 0-1 and 3 can be output.
This has no effect when policer_color_resolution_mode=1.
#custom_feature_always_map_result_dp_2_to_1=1

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sand-pioneer-10g.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: qax_tbls.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_tbls.c
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
****
Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.

IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
   OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
   OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
   ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr/nlmrangemgr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dcmn_ser_correction.h, v1 16/06/2014 09:55:39 itamar $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

*
* Purpose: Implement header for ser correction.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_ser_correction.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: Ethernet.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: Ethernet.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/Ethernet.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fap21v_acc_msh.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_msh.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_trill.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_trill.c
No license file was found, but licenses were detected in source scan.

/* $Id: external_lpm.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:    external_lpm.c
* Purpose: Triumph3 ESM route table support.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/external_lpm.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56044sanity.soc,v$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Ranger+ BCM56044 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmhg    0x1ffe00000
local pbmge          0x2
local pbmce         0x20
local pbmport  0x1ffe00022

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: Ranger+ sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
```

```
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

ranger_plus_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
```

```
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 100 Gb/s all CE ports"
tr 18 PortBitMap=$pbmce Speed=100G
$done

echo "Testing MAC Loopback - 11 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg Speed=11G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done
```

```
echo "Testing PHY Loopback - 100 Gb/s all CE ports"
tr 19 PortBitMap=$pbmce Speed=100G
$done

echo "Testing PHY Loopback - 11 Gb/s all HG42 ports"
tr 19 PortBitMap=$pbmhg Speed=11G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on CE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmce
$done

echo "Running internal snake on CE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmce
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on CE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmce c=10 sp=100G
$done

echo "Running Traffic Test on CE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmce c=10 sp=100G
```

```
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=max
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=max
$done

date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56044sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: eagle_merlin_api_uc_common.h 699 2014-09-10 18:26:20Z kirand $ *
*                                                                                       *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
```

****
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5690.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5690.h
* Purpose:    BCM5690 (Draco) Internal Quad Serdes PHY Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5690.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    Port driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/stat.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: aiutils.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/aiutils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/aiutils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_mgmt.c,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cosq.c
* Purpose: Manages common COSQ functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_cop_test1.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cop_test1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcamtype1.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:      tcamtype1.h
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tcam/tcamtype1.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpFourBitEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpFourBitEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_link.h,v 1.1.2.1 2013/09/10 07:35:39 Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_soc.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM soc header for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/trident2p/tdm_td2p_soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.h,v 1.9 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/bfd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allocator.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global resource allocator
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/allocator.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56636sanity.soc,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph2 (BCM56634) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu
```

```
local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false
```

```
echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
```

```
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
```

```
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
```

```
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
```

```
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
```

```
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
```

```
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
```

```
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
```

```
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
```

```
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
```

```
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
```

```
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
```

```
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
```

```
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
```

```
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
```

```
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
```

```
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
```

```
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
```

```
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
```

```
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
```

```
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
```

```
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
```

```
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
```

```
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
```

```
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
```

```
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
```

```
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
```

```
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
```

```
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
```

```
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
```

```
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
```

```
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
```

```
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
```

```
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
```

```
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
```

```
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
```

```
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
```

```
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
```

```
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
```

```
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
```

```
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
```

```
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
```

```
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
```

```
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
```

```
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
```

```
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
```

```
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
```

```
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;

# Deal with external memories, if configured
echo " EXT_L2_MOD_FIFO";
tr 50 M=EXT_L2_MOD_FIFO;
tr 51 M=EXT_L2_MOD_FIFO;
tr 52 M=EXT_L2_MOD_FIFO;
if !$?full_test \
   "local iter_cmd 'ITER=4' "
if $?ext_ip4c_acl_table_size \
   'echo " EXT_ACL144_TCAM_IPV4"; \
    tr 50 M=EXT_ACL144_TCAM_IPV4; \
    tr 51 M=EXT_ACL144_TCAM_IPV4 $iter_cmd; \
    tr 52 M=EXT_ACL144_TCAM_IPV4 $iter_cmd;'
```

```
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 50 M=EXT_ACL144_TCAM_IPV6; \
   tr 51 M=EXT_ACL144_TCAM_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 50 M=EXT_ACL144_TCAM_L2; \
   tr 51 M=EXT_ACL144_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
   tr 50 M=EXT_ACL288_TCAM_IPV4; \
   tr 51 M=EXT_ACL288_TCAM_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL288_TCAM_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
  'echo " EXT_ACL288_TCAM_L2"; \
   tr 50 M=EXT_ACL288_TCAM_L2; \
   tr 51 M=EXT_ACL288_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL288_TCAM_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
   tr 50 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT; \
   tr 51 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_MASK (tr 50 only)"; \
   tr 50 M=EXT_ACL360_TCAM_MASK;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_IPV6_LONG; \
   tr 51 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV4; \
   tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV6; \
   tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_MASK (tr 50 only)"; \
   tr 50 M=EXT_ACL432_TCAM_MASK;'
if $?ext_ip4_fwd_table_size \
```

```
  'echo " EXT_DEFIP_DATA_IPV4"; \
   tr 50 M=EXT_DEFIP_DATA_IPV4; \
   tr 51 M=EXT_DEFIP_DATA_IPV4 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_64"; \
   tr 50 M=EXT_DEFIP_DATA_IPV6_64; \
   tr 51 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_128"; \
   tr 50 M=EXT_DEFIP_DATA_IPV6_128; \
   tr 51 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV4"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV4; \
   tr 51 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV6_64"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV6_64; \
   tr 51 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV6_128"; \
   tr 50 M=EXT_DST_HIT_BITS_IPV6_128; \
   tr 51 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_L2"; \
   tr 50 M=EXT_DST_HIT_BITS_L2; \
   tr 51 M=EXT_DST_HIT_BITS_L2 $iter_cmd; \
   tr 52 M=EXT_DST_HIT_BITS_L2 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_IPV4"; \
   tr 50 M=EXT_FP_CNTR_ACL144_IPV4; \
   tr 51 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_IPV6"; \
   tr 50 M=EXT_FP_CNTR_ACL144_IPV6; \
   tr 51 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_L2"; \
   tr 50 M=EXT_FP_CNTR_ACL144_L2; \
   tr 51 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd; \
```

```
    tr 52 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL288_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_L2"; \
    tr 50 M=EXT_FP_CNTR_ACL288_L2; \
    tr 51 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_CNTR_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
    tr 50 M=EXT_FP_CNTR_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_IPV6"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_IPV6; \
    tr 51 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL144_L2"; \
    tr 50 M=EXT_FP_CNTR8_ACL144_L2; \
    tr 51 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL288_IPV4"; \
```

```
    tr 50 M=EXT_FP_CNTR8_ACL288_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL288_L2"; \
    tr 50 M=EXT_FP_CNTR8_ACL288_L2; \
    tr 51 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_IPV6_LONG"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV6"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV6; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_L2"; \
    tr 50 M=EXT_FP_POLICY_ACL144_L2; \
    tr 51 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL288_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd;'
```

```
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_POLICY_ACL288_L2"; \
   tr 50 M=EXT_FP_POLICY_ACL288_L2; \
   tr 51 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_POLICY_ACL360_IPV6_SHORT; \
   tr 51 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_POLICY_ACL432_IPV6_LONG; \
   tr 51 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
   tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV4; \
   tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
   tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV6; \
   tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP"; \
   tr 50 M=EXT_IPV4_DEFIP; \
   tr 51 M=EXT_IPV4_DEFIP $iter_cmd; \
   tr 52 M=EXT_IPV4_DEFIP $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP_TCAM"; \
   tr 50 M=EXT_IPV4_DEFIP_TCAM; \
   tr 51 M=EXT_IPV4_DEFIP_TCAM $iter_cmd; \
   tr 52 M=EXT_IPV4_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP"; \
   tr 50 M=EXT_IPV6_128_DEFIP; \
   tr 51 M=EXT_IPV6_128_DEFIP $iter_cmd; \
   tr 52 M=EXT_IPV6_128_DEFIP $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP_TCAM"; \
   tr 50 M=EXT_IPV6_128_DEFIP_TCAM; \
   tr 51 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd; \
   tr 52 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP"; \
   tr 50 M=EXT_IPV6_64_DEFIP; \
```

```
    tr 51 M=EXT_IPV6_64_DEFIP $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP_TCAM"; \
    tr 50 M=EXT_IPV6_64_DEFIP_TCAM; \
    tr 51 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd; \
    tr 52 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
    tr 50 M=EXT_L2_ENTRY_DATA; \
    tr 51 M=EXT_L2_ENTRY_DATA $iter_cmd; \
    tr 52 M=EXT_L2_ENTRY_DATA $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_TCAM"; \
    tr 50 M=EXT_L2_ENTRY_TCAM; \
    tr 51 M=EXT_L2_ENTRY_TCAM $iter_cmd; \
    tr 52 M=EXT_L2_ENTRY_TCAM $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV4; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_64; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_128; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 50 M=EXT_SRC_HIT_BITS_L2; \
    tr 51 M=EXT_SRC_HIT_BITS_L2 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_L2 $iter_cmd;'
$done

echo " EXT_L2_MOD_FIFO";
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
if $?ext_ip4c_acl_table_size \
   'echo " EXT_ACL144_TCAM_IPV4"; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
```

```
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
  'echo " EXT_ACL288_TCAM_L2"; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_MASK"; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
  $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_MASK"; \
```

```
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV4"; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_64"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DEFIP_DATA_IPV6_128"; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV4"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV6"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
```

```
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR_ACL144_L2"; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_CNTR_ACL288_L2"; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV4"; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV6"; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_L2"; \
   tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
```

```
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_L2"; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP"; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP"; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
```

```
  'echo " EXT_IPV6_128_DEFIP_TCAM"; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP"; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP_TCAM"; \
   tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_L2_ENTRY_DATA"; \
   tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_L2_ENTRY_TCAM"; \
   tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV4"; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_SRC_HIT_BITS_L2"; \
   tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
```

```
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done
```

```
echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done
```

```
echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge0-ge24 speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=10
```

```
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge0-ge24 speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=ge0-ge24,hg
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=ge0-ge24,hg
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge0-ge24
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge0-ge24
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge0-ge24,hg
$done

echo "Running Traffic Test in PHY mode ..."
```

```
tr 72 RM=PHY PBM=ge0-ge24,hg
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56636sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/field.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_memregs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_memregs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/hurricane3/field.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_fabric_source_routed_cell.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane3/vlan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/wb_db_tmu.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/wb_db_cop.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/cint_sdk_atomics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/field.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/udf.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_fabric_source_routed_cell.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/wb_db_ppe.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_error.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_captured_buffer.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN CAPTURED BUFFER
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_captured_buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vswitch.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vswitch.h
* Purpose:    vswitch internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/vswitch.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       driver.h
* Purpose:    Chip driver declarations
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
*             bcm56685_a0
*             bcm56685_b0
*             bcm56334_a0
*             bcm56334_b0
*             bcm88230_a0
*             bcm88230_b0
*             bcm88230_c0
*             bcm56840_a0
*             bcm56840_b0
*             bcm88650_a0
*             bcm88650_b0
*             bcm88660_a0
*             bcm2801pm_a0
```

```
*          bcm88202_a0
*          bcm88675_a0
*          bcm83207_a0
*          bcm83208_a0
*          bcm88732_a0
*          bcm56440_a0
*          bcm56440_b0
*          bcm88030_a0
*          bcm88030_a1
*          bcm88030_b0
*          bcm56640_a0
*          bcm88750_a0
*          bcm88750_b0
*          bcm88754_a0
*          bcm88950_a0
*          bcm88790_a0
*          bcm56850_a0
*          bcm56450_a0
*          bcm56450_b0
*          bcm56450_b1
*          bcm56340_a0
*          bcm56150_a0
*          bcm53400_a0
*          bcm56960_a0
*          bcm56860_a0
*          bcm56560_a0
*          bcm56560_b0
*          bcm56260_a0
*          bcm56260_b0
*          bcm88375_a0
*          bcm88470_a0
*          bcm88470_b0
*          bcm88270_a0
*          bcm8206_a0
*          bcm88675_b0
*          bcm88375_b0
*          bcm88680_a0
*          bcm88690_a0
*          bcm56160_a0
*          bcm56270_a0
*          bcm56965_a0
*          bcm56970_a0
*          bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/driver.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident2plus.h
* Purpose:     Function declarations for Trident2+ Internal functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/trident2plus.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/sw_an.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.h,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Layer 2 Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/mim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ukernel_debug.c,v 0.1 2014/10/11 samaresm Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:    ukernel_debug.c
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/uc_dbg.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ukernel_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: osl.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OS Independent Layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/osl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io_mmi1.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/io_mmi1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueAgeEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueAgeEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_pll_synce.h Exp $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_pll_synce.h
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
# * $Id: 1g_pmd_gloop_6p25.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *----------------------------------------------------------------------
# * File       : 1g_pmd_gloop_6p25.soc
# * Description: 1g_pmd_gloop_6p25
# ----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
phy raw sbus $port 0.0 0x9010 0x0000

sleep 2
phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010

# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x0002
phy raw sbus $port 1.0 0xd127

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.0 0xd0f4 0x2271
```

```
phy raw sbus $port 1.0 0xd0f4


# osr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.0 0xd080 0x8005
phy raw sbus $port 1.0 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.0 0xd081 0x0002
phy raw sbus $port 1.0 0xd081



# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc113 0x01cb
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.0 0xc050 0x0003
phy raw sbus $port 0.0 0xc050

phy raw sbus $port 0.0 0xc050 0x0103
phy raw sbus $port 0.0 0xc050

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd0d2 0x7
```

phy raw sbus $port 1.0 0xd0d2

phy raw sbus $port 0.0 0xc154 # pcs live link status

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/1g_pmd_gloop_6p25.soc
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_lem_access.h,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lem_access.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bfcmap_int.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_int.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwFetchDataEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchDataEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: common.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:     common.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/common.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbx-qe2k_bscrn.bcm,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX systems.
#
#

os=unix

# Maximum number of COSes
bcm_num_cos=8


# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# The maximum number of consecutive timeslots a QE can hold
# priority for transmitting packets which cross timeslots.
hold_pri_max_timeslots=1

# Maximum number of modules in the system (number of QEs)
# This is setup based on if you are in tme mode or fic.
# inside sbx.soc
# num_modules=64

# By default, run in standalone mode
diag_chassis=0

# Logging can be pointed to a file:
diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
```

```
qe_spi_0=1
qe_spi_1=1

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
qe_spi_1_subport_speed.port13.0=10000

qe_mvt_old_configuration=0

#can control which units should come up
diag_unit_mask=0x3
#diag_disable_interrupts=0
qe_tme_mode=1
force_brdtype=9
qe2k_benchscreen_board=1

fabric_configuration=2
bme_num_esets=128
bcm_cosq_init=0
diag_cosq_init=1
diag_serdes_mask=0x3ffff

# for ss interop with qe2k without LCM, set to 0x3e.
# Our SVKs all use LCMs so set to 0
qe_grant_delay=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-qe2k_bscrn.bcm
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: merlin_koi_interface.h 1075 2015-07-02 22:59:52Z kirand $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
```

```
*                                                                                *
**********************************************************************************
**********************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/merlin_koi/SerDes%20Documents/PMD_Methodology/Serdes%20External%20M
icro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* merlin_koi_interface.h - provides the primary functionality.
*
* merlin_koi_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: api_mode.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       api_mode.h
* Purpose:     API mode header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/diag/api/api_mode.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
```

```
* $Id: tefmod16_sc_lkup_table.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------------
* Description: This file contains enums, elems and doxyten comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph3.h,v 1.120 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* File:       triumph3.h
* Purpose:     Function declarations for Triumph3 Internal functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/triumph3.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_mem_access_callback.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
```

```
*
* FILENAME:       soc_sand_mem_access_callback.c
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_mem_access_callback.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/l2gre.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcOamFwUpgradeApi.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcOamFwUpgradeApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/CtcOamFwUpgradeApi.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: wlan.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    wlan.c
* Purpose: Manages WLAN functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/wlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0BEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0BEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: multicast.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/multicast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/multicast.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
#bcm88030_ucode.0=g3p1a
```

```
bcm88030_ucode.0=g3p1

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=48


# 2xHG10 + 2x1G on WC0
ucode_port.port1.0=clport0.hg10.0.0-1/0/192/1:il1.il50n.0.1-1/64/128
ucode_port.port2.0=clport0.hg10.0.0-1/1/193/1:il1.il50n.0.2-1/65/129
ucode_port.port3.0=clport0.hg10.0.0-1/2/194/1:il1.il50n.0.3-1/66/130
ucode_port.port4.0=clport0.hg10.0.0-1/3/195/1:il1.il50n.0.4-1/67/131
ucode_port.port5.0=clport0.hg10.0.0-1/4/196/1:il1.il50n.0.5-1/68/132
ucode_port.port6.0=clport0.hg10.0.0-1/5/197/1:il1.il50n.0.6-1/69/133
ucode_port.port7.0=clport0.hg10.0.0-1/6/198/1:il1.il50n.0.7-1/70/134
ucode_port.port8.0=clport0.hg10.0.0-1/7/199/1:il1.il50n.0.8-1/71/135
ucode_port.port9.0=clport0.hg10.0.0-1/8/200/1:il1.il50n.0.9-1/72/136
ucode_port.port10.0=clport0.hg10.0.0-1/9/201/1:il1.il50n.0.10-1/73/137
ucode_port.port11.0=clport0.hg10.0.1-1/10/202/1:il1.il50n.0.12-1/74/138
ucode_port.port12.0=clport0.hg10.0.1-1/11/203/1:il1.il50n.0.13-1/75/139
ucode_port.port13.0=clport0.hg10.0.1-1/12/204/1:il1.il50n.0.13-1/76/140
ucode_port.port14.0=clport0.hg10.0.1-1/13/205/1:il1.il50n.0.14-1/77/141
ucode_port.port15.0=clport0.hg10.0.1-1/14/206/1:il1.il50n.0.15-1/78/142
ucode_port.port16.0=clport0.hg10.0.1-1/15/207/1:il1.il50n.0.16-1/79/143
ucode_port.port17.0=clport0.hg10.0.1-1/16/208/1:il1.il50n.0.17-1/80/144
ucode_port.port18.0=clport0.hg10.0.1-1/17/209/1:il1.il50n.0.18-1/81/145
ucode_port.port19.0=clport0.hg10.0.1-1/18/210/1:il1.il50n.0.19-1/82/146
ucode_port.port20.0=clport0.hg10.0.1-1/19/211/1:il1.il50n.0.20-1/83/147
ucode_port.port21.0=clport0.ge.0.2-1/20/212/1:il1.il50n.0.21/84/148
ucode_port.port22.0=clport0.ge.0.3-1/21/213/1:il1.il50n.0.22/85/149

# 2x1G on WC 1
ucode_port.port23.0=clport0.ge.1.0-1/22/214/1:il1.il50n.0.23/86/150
ucode_port.port24.0=clport0.ge.1.1-1/23/215/1:il1.il50n.0.24/87/151


# 2xHG10 on WC 2

ucode_port.port25.0=clport0.hg10.2.0-1/24/216/1:il1.il50n.0.25-1/88/152
ucode_port.port26.0=clport0.hg10.2.0-1/25/217/1:il1.il50n.0.26-1/89/153
ucode_port.port27.0=clport0.hg10.2.0-1/26/218/1:il1.il50n.0.27-1/90/154
ucode_port.port28.0=clport0.hg10.2.0-1/27/219/1:il1.il50n.0.28-1/91/155
ucode_port.port29.0=clport0.hg10.2.0-1/28/220/1:il1.il50n.0.29-1/92/156
ucode_port.port30.0=clport0.hg10.2.0-1/29/221/1:il1.il50n.0.30-1/93/157
ucode_port.port31.0=clport0.hg10.2.0-1/30/222/1:il1.il50n.0.31-1/94/158
ucode_port.port32.0=clport0.hg10.2.0-1/31/223/1:il1.il50n.0.32-1/95/159
ucode_port.port33.0=clport0.hg10.2.0-1/32/224/1:il1.il50n.0.33-1/96/160
ucode_port.port34.0=clport0.hg10.2.0-1/33/225/1:il1.il50n.0.34-1/97/161
```

```
ucode_port.port35.0=clport0.hg10.2.1-1/34/226/1:il1.il50n.0.35-1/98/162
ucode_port.port36.0=clport0.hg10.2.1-1/35/227/1:il1.il50n.0.36-1/99/163
ucode_port.port37.0=clport0.hg10.2.1-1/36/228/1:il1.il50n.0.37-1/100/164
ucode_port.port38.0=clport0.hg10.2.1-1/37/229/1:il1.il50n.0.38-1/101/165
ucode_port.port39.0=clport0.hg10.2.1-1/38/230/1:il1.il50n.0.39-1/102/166
ucode_port.port40.0=clport0.hg10.2.1-1/39/231/1:il1.il50n.0.40-1/103/167
ucode_port.port41.0=clport0.hg10.2.1-1/40/232/1:il1.il50n.0.41-1/104/168
ucode_port.port42.0=clport0.hg10.2.1-1/41/233/1:il1.il50n.0.42-1/105/169
ucode_port.port43.0=clport0.hg10.2.1-1/42/234/1:il1.il50n.0.43-1/106/170
ucode_port.port44.0=clport0.hg10.2.1-1/43/235/1:il1.il50n.0.44-1/107/171

# 2x1G on WC 2
ucode_port.port45.0=clport0.ge.2.2-1/44/236/1:il1.il50n.0.45/108/172
ucode_port.port46.0=clport0.ge.2.3-1/45/237/1:il1.il50n.0.46/109/173

# 2x1G on WC 1
ucode_port.port47.0=clport0.ge.1.2-1/46/238/1:il1.il50n.0.47/110/174
ucode_port.port48.0=clport0.ge.1.3-1/47/239/1:il1.il50n.0.48/111/175

higig2_hdr_mode=1

serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2
serdes_qsgmii_sgmii_override_ge4=2
serdes_qsgmii_sgmii_override_ge5=2
serdes_qsgmii_sgmii_override_ge6=2
serdes_qsgmii_sgmii_override_ge7=2

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_hg0=0x1230
xgxs_rx_lane_map_ge2=0x1032
xgxs_rx_lane_map_hg20=0x1230

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_ge2=0x3210
xgxs_tx_lane_map_hg20=0x1032


phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg10=0x0000
phy_xaui_rx_polarity_flip_ge0=0x0000
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
```

```
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_hg20=0x0001
phy_xaui_rx_polarity_flip_hg30=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0000
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001


phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001
phy_xaui_tx_polarity_flip_ge0=0x0000
phy_xaui_tx_polarity_flip_ge1=0x0000
phy_xaui_tx_polarity_flip_ge2=0x0001
phy_xaui_tx_polarity_flip_ge3=0x0001
phy_xaui_tx_polarity_flip_hg20=0x0000
phy_xaui_tx_polarity_flip_hg30=0x0000
phy_xaui_tx_polarity_flip_ge4=0x0001
phy_xaui_tx_polarity_flip_ge5=0x0001
phy_xaui_tx_polarity_flip_ge6=0x0001
phy_xaui_tx_polarity_flip_ge7=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
```

ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595

ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88030/config-sbx-c3-8x1g_4xhg10-ilkn50n.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror - Broadcom Mirror API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/mirror.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jerp_pp_kaps_xpt.c, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/JERP_PP/jerp_pp_kaps_xpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*     TCAM suppot
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_tcam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  alloc.c
* Purpose: Defines sal routines for memory allocation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/alloc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l3.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: L3 APIs
*
* Purpose:
*     L3 API for Dune Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_l3.h
No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo "there are 971 more memories to test.";echo "tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=min ";tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=min;echo 'done';
echo "there are 970 more memories to test.";echo "tr 50 M=BCAST_BLOCK_MASK IS=min IE=min ";tr 50 M=BCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 969 more memories to test.";echo "tr 50 M=PORT_COS_MAP IS=min IE=min ";tr 50 M=PORT_COS_MAP IS=min IE=min;echo 'done';
echo "there are 968 more memories to test.";echo "tr 50 M=COS_MAP_SEL IS=min IE=min ";tr 50 M=COS_MAP_SEL IS=min IE=min;echo 'done';
echo "there are 967 more memories to test.";echo "tr 50 M=CPU_COS_MAP IS=min IE=min ";tr 50 M=CPU_COS_MAP IS=min IE=min;echo 'done';
echo "there are 966 more memories to test.";echo "tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=min ";tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 965 more memories to test.";echo "tr 50 M=CPU_COS_MAP_ONLY IS=min IE=min ";tr 50 M=CPU_COS_MAP_ONLY IS=min IE=min;echo 'done';
echo "there are 964 more memories to test.";echo "tr 50 M=CPU_PBM IS=min IE=min ";tr 50 M=CPU_PBM IS=min IE=min;echo 'done';
echo "there are 963 more memories to test.";echo "tr 50 M=CPU_PBM_2 IS=min IE=min ";tr 50 M=CPU_PBM_2
```

```
IS=min IE=min;echo 'done';
echo "there are 962 more memories to test.";echo "tr 50 M=CPU_TS_MAP IS=min IE=min ";tr 50
M=CPU_TS_MAP IS=min IE=min;echo 'done';
echo "there are 961 more memories to test.";echo "tr 50 M=DEST_TRUNK_BITMAP IS=min IE=min ";tr 50
M=DEST_TRUNK_BITMAP IS=min IE=min;echo 'done';
echo "there are 960 more memories to test.";echo "tr 50 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=min ";tr 50 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=min;echo 'done';
echo "there are 959 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET IS=min IE=min ";tr 50
M=DLB_HGT_FLOWSET IS=min IE=min;echo 'done';
echo "there are 958 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
IE=min ";tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=min;echo 'done';
echo "there are 957 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X
IS=min IE=min ";tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X IS=min IE=min;echo 'done';
echo "there are 956 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y
IS=min IE=min ";tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y IS=min IE=min;echo 'done';
echo "there are 955 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_X IS=min IE=min ";tr 50
M=DLB_HGT_FLOWSET_X IS=min IE=min;echo 'done';
echo "there are 954 more memories to test.";echo "tr 50 M=DLB_HGT_FLOWSET_Y IS=min IE=min ";tr 50
M=DLB_HGT_FLOWSET_Y IS=min IE=min;echo 'done';
echo "there are 953 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_CONTROL IS=min IE=min ";tr
50 M=DLB_HGT_GROUP_CONTROL IS=min IE=min;echo 'done';
echo "there are 952 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=min
";tr 50 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=min;echo 'done';
echo "there are 951 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_STATS IS=min IE=min ";tr 50
M=DLB_HGT_GROUP_STATS IS=min IE=min;echo 'done';
echo "there are 950 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_STATS_X IS=min IE=min ";tr 50
M=DLB_HGT_GROUP_STATS_X IS=min IE=min;echo 'done';
echo "there are 949 more memories to test.";echo "tr 50 M=DLB_HGT_GROUP_STATS_Y IS=min IE=min ";tr 50
M=DLB_HGT_GROUP_STATS_Y IS=min IE=min;echo 'done';
echo "there are 948 more memories to test.";echo "tr 50 M=DLB_HGT_HIST_LOAD IS=min IE=min ";tr 50
M=DLB_HGT_HIST_LOAD IS=min IE=min;echo 'done';
echo "there are 947 more memories to test.";echo "tr 50 M=DLB_HGT_INST_LOAD IS=min IE=min ";tr 50
M=DLB_HGT_INST_LOAD IS=min IE=min;echo 'done';
echo "there are 946 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=min
";tr 50 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=min;echo 'done';
echo "there are 945 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_STATUS IS=min IE=min ";tr
50 M=DLB_HGT_MEMBER_STATUS IS=min IE=min;echo 'done';
echo "there are 944 more memories to test.";echo "tr 50 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=min
";tr 50 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=min;echo 'done';
echo "there are 943 more memories to test.";echo "tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=min
";tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=min;echo 'done';
echo "there are 942 more memories to test.";echo "tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min
IE=min ";tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min IE=min;echo 'done';
echo "there are 941 more memories to test.";echo "tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min
IE=min ";tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min IE=min;echo 'done';
echo "there are 940 more memories to test.";echo "tr 50 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=min ";tr 50 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=min;echo 'done';
echo "there are 939 more memories to test.";echo "tr 50 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=min
```

```
";tr 50 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=min;echo 'done';
echo "there are 938 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_CONTROL IS=min IE=min
";tr 50 M=DLB_HGT_QUALITY_CONTROL IS=min IE=min;echo 'done';
echo "there are 937 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_MAPPING IS=min IE=min ";tr
50 M=DLB_HGT_QUALITY_MAPPING IS=min IE=min;echo 'done';
echo "there are 936 more memories to test.";echo "tr 50 M=DLB_HGT_QUALITY_RESULT IS=min IE=min ";tr
50 M=DLB_HGT_QUALITY_RESULT IS=min IE=min;echo 'done';
echo "there are 935 more memories to test.";echo "tr 50 M=DLB_HGT_RR_SELECTION_POINTER IS=min
IE=min ";tr 50 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=min;echo 'done';
echo "there are 934 more memories to test.";echo "tr 50 M=DSCP_TABLE IS=min IE=min ";tr 50
M=DSCP_TABLE IS=min IE=min;echo 'done';
echo "there are 933 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS IS=min IE=min ";tr 50
M=E2E_HOL_STATUS IS=min IE=min;echo 'done';
echo "there are 932 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS_1 IS=min IE=min ";tr 50
M=E2E_HOL_STATUS_1 IS=min IE=min;echo 'done';
echo "there are 931 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE IS=min IE=min ";tr 50
M=EFP_COUNTER_TABLE IS=min IE=min;echo 'done';
echo "there are 930 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_X IS=min IE=min ";tr 50
M=EFP_COUNTER_TABLE_X IS=min IE=min;echo 'done';
echo "there are 929 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE_Y IS=min IE=min ";tr 50
M=EFP_COUNTER_TABLE_Y IS=min IE=min;echo 'done';
echo "there are 928 more memories to test.";echo "tr 50 M=EFP_METER_TABLE IS=min IE=min ";tr 50
M=EFP_METER_TABLE IS=min IE=min;echo 'done';
echo "there are 927 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_X IS=min IE=min ";tr 50
M=EFP_METER_TABLE_X IS=min IE=min;echo 'done';
echo "there are 926 more memories to test.";echo "tr 50 M=EFP_METER_TABLE_Y IS=min IE=min ";tr 50
M=EFP_METER_TABLE_Y IS=min IE=min;echo 'done';
echo "there are 925 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE IS=min IE=min ";tr 50
M=EFP_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 924 more memories to test.";echo "tr 50 M=EFP_TCAM IS=min IE=min ";tr 50 M=EFP_TCAM
IS=min IE=min;echo 'done';
echo "there are 923 more memories to test.";echo "tr 50 M=EGR_1588_SA IS=min IE=min ";tr 50
M=EGR_1588_SA IS=min IE=min;echo 'done';
echo "there are 922 more memories to test.";echo "tr 50 M=EGR_COUNTER_CONTROL IS=min IE=min ";tr 50
M=EGR_COUNTER_CONTROL IS=min IE=min;echo 'done';
echo "there are 921 more memories to test.";echo "tr 50 M=EGR_DGPP_TO_NHI IS=min IE=min ";tr 50
M=EGR_DGPP_TO_NHI IS=min IE=min;echo 'done';
echo "there are 920 more memories to test.";echo "tr 50 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=min ";tr
50 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=min;echo 'done';
echo "there are 919 more memories to test.";echo "tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=min ";tr 50
M=EGR_DSCP_ECN_MAP IS=min IE=min;echo 'done';
echo "there are 918 more memories to test.";echo "tr 50 M=EGR_DSCP_TABLE IS=min IE=min ";tr 50
M=EGR_DSCP_TABLE IS=min IE=min;echo 'done';
echo "there are 917 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE IS=min IE=min ";tr 50
M=EGR_DVP_ATTRIBUTE IS=min IE=min;echo 'done';
echo "there are 916 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=min ";tr 50
M=EGR_DVP_ATTRIBUTE_1 IS=min IE=min;echo 'done';
echo "there are 915 more memories to test.";echo "tr 50 M=EGR_EDB_XMIT_CTRL IS=min IE=min ";tr 50
```

```
M=EGR_EDB_XMIT_CTRL IS=min IE=min;echo 'done';
echo "there are 914 more memories to test.";echo "tr 50 M=EGR_EM_MTP_INDEX IS=min IE=min ";tr 50
M=EGR_EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 913 more memories to test.";echo "tr 50 M=EGR_ENABLE IS=min IE=min ";tr 50
M=EGR_ENABLE IS=min IE=min;echo 'done';
echo "there are 912 more memories to test.";echo "tr 50 M=EGR_ETAG_PCP_MAPPING IS=min IE=min ";tr 50
M=EGR_ETAG_PCP_MAPPING IS=min IE=min;echo 'done';
echo "there are 911 more memories to test.";echo "tr 50 M=EGR_FCOE_CONTROL_1 IS=min IE=min ";tr 50
M=EGR_FCOE_CONTROL_1 IS=min IE=min;echo 'done';
echo "there are 910 more memories to test.";echo "tr 50 M=EGR_FC_HEADER_TYPE IS=min IE=min ";tr 50
M=EGR_FC_HEADER_TYPE IS=min IE=min;echo 'done';
echo "there are 909 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 908 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=min;echo 'done';
echo "there are 907 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=min;echo 'done';
echo "there are 906 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 905 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=min;echo 'done';
echo "there are 904 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=min;echo 'done';
echo "there are 903 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 902 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=min;echo 'done';
echo "there are 901 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=min;echo 'done';
echo "there are 900 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 899 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=min;echo 'done';
echo "there are 898 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=min;echo 'done';
echo "there are 897 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 896 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 895 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 894 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 893 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=min ";tr
50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 892 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=min
";tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=min;echo 'done';
echo "there are 891 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=min ";tr 50
```

```
M=EGR_FLEX_CTR_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 890 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=min
";tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 889 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=min ";tr 50
M=EGR_FLEX_CTR_TOS_MAP IS=min IE=min;echo 'done';
echo "there are 888 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE IS=min IE=min ";tr 50
M=EGR_FRAGMENT_ID_TABLE IS=min IE=min;echo 'done';
echo "there are 887 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=min ";tr
50 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=min;echo 'done';
echo "there are 886 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=min ";tr
50 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=min;echo 'done';
echo "there are 885 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES IS=min IE=min ";tr 50
M=EGR_GPP_ATTRIBUTES IS=min IE=min;echo 'done';
echo "there are 884 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=min ";tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=min;echo 'done';
echo "there are 883 more memories to test.";echo "tr 50 M=EGR_IM_MTP_INDEX IS=min IE=min ";tr 50
M=EGR_IM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 882 more memories to test.";echo "tr 50 M=EGR_ING_PORT IS=min IE=min ";tr 50
M=EGR_ING_PORT IS=min IE=min;echo 'done';
echo "there are 881 more memories to test.";echo "tr 50 M=EGR_IPMC IS=min IE=min ";tr 50 M=EGR_IPMC
IS=min IE=min;echo 'done';
echo "there are 880 more memories to test.";echo "tr 50 M=EGR_IPMC_CFG2 IS=min IE=min ";tr 50
M=EGR_IPMC_CFG2 IS=min IE=min;echo 'done';
echo "there are 879 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL IS=min IE=min;echo 'done';
echo "there are 878 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_IPV6 IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL_IPV6 IS=min IE=min;echo 'done';
echo "there are 877 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_MPLS IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL_MPLS IS=min IE=min;echo 'done';
echo "there are 876 more memories to test.";echo "tr 50 M=EGR_L3_INTF IS=min IE=min ";tr 50
M=EGR_L3_INTF IS=min IE=min;echo 'done';
echo "there are 875 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP IS=min IE=min ";tr 50
M=EGR_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 874 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP_1 IS=min IE=min ";tr 50
M=EGR_L3_NEXT_HOP_1 IS=min IE=min;echo 'done';
echo "there are 873 more memories to test.";echo "tr 50 M=EGR_LPORT_PROFILE IS=min IE=min ";tr 50
M=EGR_LPORT_PROFILE IS=min IE=min;echo 'done';
echo "there are 872 more memories to test.";echo "tr 50 M=EGR_MACDA_OUI_PROFILE IS=min IE=min ";tr 50
M=EGR_MACDA_OUI_PROFILE IS=min IE=min;echo 'done';
echo "there are 871 more memories to test.";echo "tr 50 M=EGR_MAC_DA_PROFILE IS=min IE=min ";tr 50
M=EGR_MAC_DA_PROFILE IS=min IE=min;echo 'done';
echo "there are 870 more memories to test.";echo "tr 50 M=EGR_MAP_MH IS=min IE=min ";tr 50
M=EGR_MAP_MH IS=min IE=min;echo 'done';
echo "there are 869 more memories to test.";echo "tr 50 M=EGR_MASK IS=min IE=min ";tr 50 M=EGR_MASK
IS=min IE=min;echo 'done';
echo "there are 868 more memories to test.";echo "tr 50 M=EGR_MASK_MODBASE IS=min IE=min ";tr 50
M=EGR_MASK_MODBASE IS=min IE=min;echo 'done';
echo "there are 867 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=min
```

```
";tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=min;echo 'done';
echo "there are 866 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=min ";tr
50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=min;echo 'done';
echo "there are 865 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=min ";tr
50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=min;echo 'done';
#echo "there are 864 more memories to test.";echo "tr 50 M=EGR_MMU_CREDIT_LIMIT IS=min IE=min ";tr 50
M=EGR_MMU_CREDIT_LIMIT IS=min IE=min;echo 'done';
#echo "there are 863 more memories to test.";echo "tr 50 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=min ";tr
50 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=min;echo 'done';
#echo "there are 862 more memories to test.";echo "tr 50 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=min ";tr
50 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=min;echo 'done';
echo "there are 861 more memories to test.";echo "tr 50 M=EGR_MOD_MAP_TABLE IS=min IE=min ";tr 50
M=EGR_MOD_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 860 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=min;echo 'done';
echo "there are 859 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=min;echo 'done';
echo "there are 858 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 857 more memories to test.";echo "tr 50 M=EGR_MPLS_PRI_MAPPING IS=min IE=min ";tr 50
M=EGR_MPLS_PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 856 more memories to test.";echo "tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=min ";tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=min;echo 'done';
echo "there are 855 more memories to test.";echo "tr 50 M=EGR_MTU IS=min IE=min ";tr 50 M=EGR_MTU
IS=min IE=min;echo 'done';
echo "there are 854 more memories to test.";echo "tr 50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=min ";tr
50 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=min;echo 'done';
echo "there are 853 more memories to test.";echo "tr 50 M=EGR_OLP_CONFIG IS=min IE=min ";tr 50
M=EGR_OLP_CONFIG IS=min IE=min;echo 'done';
echo "there are 852 more memories to test.";echo "tr 50 M=EGR_OLP_DGPP_CONFIG IS=min IE=min ";tr 50
M=EGR_OLP_DGPP_CONFIG IS=min IE=min;echo 'done';
echo "there are 851 more memories to test.";echo "tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min
IE=min ";tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=min;echo 'done';
echo "there are 850 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=min ";tr
50 M=EGR_PERQ_XMT_COUNTERS IS=min IE=min;echo 'done';
echo "there are 849 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=min
";tr 50 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=min;echo 'done';
echo "there are 848 more memories to test.";echo "tr 50 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=min
";tr 50 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=min;echo 'done';
echo "there are 847 more memories to test.";echo "tr 50 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=min ";tr 50 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=min;echo 'done';
echo "there are 846 more memories to test.";echo "tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=min ";tr 50 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=min;echo 'done';
echo "there are 845 more memories to test.";echo "tr 50 M=EGR_PFC_CONTROL IS=min IE=min ";tr 50
M=EGR_PFC_CONTROL IS=min IE=min;echo 'done';
echo "there are 844 more memories to test.";echo "tr 50 M=EGR_PORT IS=min IE=min ";tr 50 M=EGR_PORT
IS=min IE=min;echo 'done';
echo "there are 843 more memories to test.";echo "tr 50 M=EGR_PORT_1 IS=min IE=min ";tr 50
```

```
M=EGR_PORT_1 IS=min IE=min;echo 'done';
echo "there are 842 more memories to test.";echo "tr 50 M=EGR_PORT_CREDIT_RESET IS=min IE=min ";tr 50
M=EGR_PORT_CREDIT_RESET IS=min IE=min;echo 'done';
echo "there are 841 more memories to test.";echo "tr 50 M=EGR_PRI_CNG_MAP IS=min IE=min ";tr 50
M=EGR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 840 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS IS=min IE=min ";tr 50
M=EGR_PW_INIT_COUNTERS IS=min IE=min;echo 'done';
echo "there are 839 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_X IS=min IE=min ";tr
50 M=EGR_PW_INIT_COUNTERS_X IS=min IE=min;echo 'done';
echo "there are 838 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=min ";tr
50 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=min;echo 'done';
echo "there are 837 more memories to test.";echo "tr 50 M=EGR_QCN_CNM_CONTROL_TABLE IS=min
IE=min ";tr 50 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=min;echo 'done';
#echo "there are 836 more memories to test.";echo "tr 50 M=EGR_SER_FIFO IS=min IE=min ";tr 50
M=EGR_SER_FIFO IS=min IE=min;echo 'done';
echo "there are 835 more memories to test.";echo "tr 50 M=EGR_SHAPING_CONTROL IS=min IE=min ";tr 50
M=EGR_SHAPING_CONTROL IS=min IE=min;echo 'done';
echo "there are 834 more memories to test.";echo "tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=min
";tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=min;echo 'done';
echo "there are 833 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=min ";tr
50 M=EGR_TRILL_PARSE_CONTROL IS=min IE=min;echo 'done';
echo "there are 832 more memories to test.";echo "tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=min
";tr 50 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=min;echo 'done';
echo "there are 831 more memories to test.";echo "tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min
IE=min ";tr 50 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=min;echo 'done';
echo "there are 830 more memories to test.";echo "tr 50 M=EGR_TRILL_TREE_PROFILE IS=min IE=min ";tr 50
M=EGR_TRILL_TREE_PROFILE IS=min IE=min;echo 'done';
echo "there are 829 more memories to test.";echo "tr 50 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=min ";tr
50 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 828 more memories to test.";echo "tr 50 M=EGR_VFI IS=min IE=min ";tr 50 M=EGR_VFI IS=min
IE=min;echo 'done';
echo "there are 827 more memories to test.";echo "tr 50 M=EGR_VFT_FIELDS_PROFILE IS=min IE=min ";tr 50
M=EGR_VFT_FIELDS_PROFILE IS=min IE=min;echo 'done';
echo "there are 826 more memories to test.";echo "tr 50 M=EGR_VFT_PRI_MAP IS=min IE=min ";tr 50
M=EGR_VFT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 825 more memories to test.";echo "tr 50 M=EGR_VLAN IS=min IE=min ";tr 50 M=EGR_VLAN
IS=min IE=min;echo 'done';
echo "there are 824 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_1 IS=min IE=min ";tr 50
M=EGR_VLAN_CONTROL_1 IS=min IE=min;echo 'done';
echo "there are 823 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_2 IS=min IE=min ";tr 50
M=EGR_VLAN_CONTROL_2 IS=min IE=min;echo 'done';
echo "there are 822 more memories to test.";echo "tr 50 M=EGR_VLAN_CONTROL_3 IS=min IE=min ";tr 50
M=EGR_VLAN_CONTROL_3 IS=min IE=min;echo 'done';
echo "there are 821 more memories to test.";echo "tr 50 M=EGR_VLAN_STG IS=min IE=min ";tr 50
M=EGR_VLAN_STG IS=min IE=min;echo 'done';
echo "there are 820 more memories to test.";echo "tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=min ";tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=min;echo 'done';
echo "there are 819 more memories to test.";echo "tr 50 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=min ";tr
```

```
50 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=min;echo 'done';
echo "there are 818 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE IS=min IE=min ";tr 50
M=EGR_VLAN_XLATE IS=min IE=min;echo 'done';
echo "there are 817 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_ECC IS=min IE=min ";tr 50
M=EGR_VLAN_XLATE_ECC IS=min IE=min;echo 'done';
echo "there are 816 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_LP IS=min IE=min ";tr 50
M=EGR_VLAN_XLATE_LP IS=min IE=min;echo 'done';
echo "there are 815 more memories to test.";echo "tr 50 M=EGR_VPLAG_GROUP IS=min IE=min ";tr 50
M=EGR_VPLAG_GROUP IS=min IE=min;echo 'done';
echo "there are 814 more memories to test.";echo "tr 50 M=EGR_VPLAG_MEMBER IS=min IE=min ";tr 50
M=EGR_VPLAG_MEMBER IS=min IE=min;echo 'done';
echo "there are 813 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=min ";tr
50 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=min;echo 'done';
echo "there are 812 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=min ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=min;echo 'done';
echo "there are 811 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=min ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=min;echo 'done';
echo "there are 810 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=min ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=min;echo 'done';
echo "there are 809 more memories to test.";echo "tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=min ";tr 50 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=min;echo 'done';
echo "there are 808 more memories to test.";echo "tr 50 M=EGR_VSAN_INTPRI_MAP IS=min IE=min ";tr 50
M=EGR_VSAN_INTPRI_MAP IS=min IE=min;echo 'done';
echo "there are 807 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL IS=min IE=min ";tr 50
M=EMIRROR_CONTROL IS=min IE=min;echo 'done';
echo "there are 806 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL1 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL1 IS=min IE=min;echo 'done';
echo "there are 805 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL2 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL2 IS=min IE=min;echo 'done';
echo "there are 804 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL3 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL3 IS=min IE=min;echo 'done';
echo "there are 803 more memories to test.";echo "tr 50 M=EM_MTP_INDEX IS=min IE=min ";tr 50
M=EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 802 more memories to test.";echo "tr 50 M=ENDPOINT_COS_MAP IS=min IE=min ";tr 50
M=ENDPOINT_COS_MAP IS=min IE=min;echo 'done';
echo "there are 801 more memories to test.";echo "tr 50 M=ENDPOINT_QUEUE_MAP IS=min IE=min ";tr 50
M=ENDPOINT_QUEUE_MAP IS=min IE=min;echo 'done';
echo "there are 800 more memories to test.";echo "tr 50 M=EPC_LINK_BMAP IS=min IE=min ";tr 50
M=EPC_LINK_BMAP IS=min IE=min;echo 'done';
echo "there are 799 more memories to test.";echo "tr 50 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=min
";tr 50 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=min;echo 'done';
echo "there are 798 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 797 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 796 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 795 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_ERROR IS=min IE=min ";tr 50
```

```
M=ES_PIPE0_LLS_L0_ERROR IS=min IE=min;echo 'done';
echo "there are 794 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 793 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 792 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 791 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 790 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_PARENT IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L0_PARENT IS=min IE=min;echo 'done';
echo "there are 789 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 788 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 787 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 786 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L0_XOFF IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L0_XOFF IS=min IE=min;echo 'done';
echo "there are 785 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 784 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 783 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 782 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_ERROR IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L1_ERROR IS=min IE=min;echo 'done';
echo "there are 781 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 780 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 779 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 778 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 777 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_PARENT IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L1_PARENT IS=min IE=min;echo 'done';
echo "there are 776 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 775 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 774 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 773 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L1_XOFF IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L1_XOFF IS=min IE=min;echo 'done';
echo "there are 772 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 771 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min
```

```
IE=min ";tr 50 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 770 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 769 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_ERROR IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L2_ERROR IS=min IE=min;echo 'done';
echo "there are 768 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 767 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_PARENT IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L2_PARENT IS=min IE=min;echo 'done';
echo "there are 766 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 765 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_L2_XOFF IS=min IE=min ";tr 50
M=ES_PIPE0_LLS_L2_XOFF IS=min IE=min;echo 'done';
echo "there are 764 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 763 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 762 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 761 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 760 more memories to test.";echo "tr 50 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min
IE=min ";tr 50 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 759 more memories to test.";echo "tr 50 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=min ";tr 50
M=ES_PIPE0_TDM_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 758 more memories to test.";echo "tr 50 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=min ";tr 50
M=ES_PIPE0_TDM_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 757 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 756 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 755 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 754 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_ERROR IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L0_ERROR IS=min IE=min;echo 'done';
echo "there are 753 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 752 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 751 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 750 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 749 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_PARENT IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L0_PARENT IS=min IE=min;echo 'done';
echo "there are 748 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 747 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=min
```

```
";tr 50 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 746 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 745 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L0_XOFF IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L0_XOFF IS=min IE=min;echo 'done';
echo "there are 744 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 743 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 742 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 741 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_ERROR IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L1_ERROR IS=min IE=min;echo 'done';
echo "there are 740 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 739 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 738 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 737 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 736 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_PARENT IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L1_PARENT IS=min IE=min;echo 'done';
echo "there are 735 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 734 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 733 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 732 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L1_XOFF IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L1_XOFF IS=min IE=min;echo 'done';
echo "there are 731 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=min
";tr 50 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 730 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=min;echo 'done';
echo "there are 729 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING
IS=min IE=min ";tr 50 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=min;echo 'done';
echo "there are 728 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_ERROR IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L2_ERROR IS=min IE=min;echo 'done';
echo "there are 727 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 726 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_PARENT IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L2_PARENT IS=min IE=min;echo 'done';
echo "there are 725 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=min ";tr
50 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=min;echo 'done';
echo "there are 724 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_L2_XOFF IS=min IE=min ";tr 50
M=ES_PIPE1_LLS_L2_XOFF IS=min IE=min;echo 'done';
echo "there are 723 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min
```

```
IE=min ";tr 50 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min IE=min;echo 'done';
echo "there are 722 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min IE=min;echo 'done';
echo "there are 721 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min IE=min;echo 'done';
echo "there are 720 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min IE=min;echo 'done';
echo "there are 719 more memories to test.";echo "tr 50 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min
IE=min ";tr 50 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 718 more memories to test.";echo "tr 50 M=ES_PIPE1_TDM_TABLE_0 IS=min IE=min ";tr 50
M=ES_PIPE1_TDM_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 717 more memories to test.";echo "tr 50 M=ES_PIPE1_TDM_TABLE_1 IS=min IE=min ";tr 50
M=ES_PIPE1_TDM_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 716 more memories to test.";echo "tr 50 M=FCOE_HOP_COUNT_FN IS=min IE=min ";tr 50
M=FCOE_HOP_COUNT_FN IS=min IE=min;echo 'done';
echo "there are 715 more memories to test.";echo "tr 50 M=FC_MAP_PROFILE IS=min IE=min ";tr 50
M=FC_MAP_PROFILE IS=min IE=min;echo 'done';
echo "there are 714 more memories to test.";echo "tr 50 M=FP_COUNTER_TABLE IS=min IE=min ";tr 50
M=FP_COUNTER_TABLE IS=min IE=min;echo 'done';
echo "there are 713 more memories to test.";echo "tr 50 M=FP_COUNTER_TABLE_X IS=min IE=min ";tr 50
M=FP_COUNTER_TABLE_X IS=min IE=min;echo 'done';
echo "there are 712 more memories to test.";echo "tr 50 M=FP_COUNTER_TABLE_Y IS=min IE=min ";tr 50
M=FP_COUNTER_TABLE_Y IS=min IE=min;echo 'done';
#echo "there are 711 more memories to test.";echo "tr 50 M=FP_GLOBAL_MASK_TCAM IS=min IE=min ";tr 50
M=FP_GLOBAL_MASK_TCAM IS=min IE=min;echo 'done';
echo "there are 710 more memories to test.";echo "tr 50 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=min ";tr
50 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=min;echo 'done';
echo "there are 709 more memories to test.";echo "tr 50 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=min ";tr
50 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=min;echo 'done';
echo "there are 708 more memories to test.";echo "tr 50 M=FP_GM_FIELDS IS=min IE=min ";tr 50
M=FP_GM_FIELDS IS=min IE=min;echo 'done';
echo "there are 707 more memories to test.";echo "tr 50 M=FP_HG_CLASSID_SELECT IS=min IE=min ";tr 50
M=FP_HG_CLASSID_SELECT IS=min IE=min;echo 'done';
echo "there are 706 more memories to test.";echo "tr 50 M=FP_I2E_CLASSID_SELECT IS=min IE=min ";tr 50
M=FP_I2E_CLASSID_SELECT IS=min IE=min;echo 'done';
echo "there are 705 more memories to test.";echo "tr 50 M=FP_METER_CONTROL IS=min IE=min ";tr 50
M=FP_METER_CONTROL IS=min IE=min;echo 'done';
echo "there are 704 more memories to test.";echo "tr 50 M=FP_METER_TABLE IS=min IE=min ";tr 50
M=FP_METER_TABLE IS=min IE=min;echo 'done';
echo "there are 703 more memories to test.";echo "tr 50 M=FP_POLICY_TABLE IS=min IE=min ";tr 50
M=FP_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 702 more memories to test.";echo "tr 50 M=FP_PORT_FIELD_SEL IS=min IE=min ";tr 50
M=FP_PORT_FIELD_SEL IS=min IE=min;echo 'done';
echo "there are 701 more memories to test.";echo "tr 50 M=FP_PORT_METER_MAP IS=min IE=min ";tr 50
M=FP_PORT_METER_MAP IS=min IE=min;echo 'done';
echo "there are 700 more memories to test.";echo "tr 50 M=FP_RANGE_CHECK IS=min IE=min ";tr 50
M=FP_RANGE_CHECK IS=min IE=min;echo 'done';
echo "there are 699 more memories to test.";echo "tr 50 M=FP_SLICE_KEY_CONTROL IS=min IE=min ";tr 50
```

```
M=FP_SLICE_KEY_CONTROL IS=min IE=min;echo 'done';
echo "there are 698 more memories to test.";echo "tr 50 M=FP_SLICE_MAP IS=min IE=min ";tr 50
M=FP_SLICE_MAP IS=min IE=min;echo 'done';
echo "there are 697 more memories to test.";echo "tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=min
";tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=min;echo 'done';
echo "there are 696 more memories to test.";echo "tr 50 M=FP_STORM_CONTROL_METERS_X IS=min IE=min
";tr 50 M=FP_STORM_CONTROL_METERS_X IS=min IE=min;echo 'done';
echo "there are 695 more memories to test.";echo "tr 50 M=FP_STORM_CONTROL_METERS_Y IS=min IE=min
";tr 50 M=FP_STORM_CONTROL_METERS_Y IS=min IE=min;echo 'done';
echo "there are 694 more memories to test.";echo "tr 50 M=FP_TCAM IS=min IE=min ";tr 50 M=FP_TCAM
IS=min IE=min;echo 'done';
echo "there are 693 more memories to test.";echo "tr 50 M=GTP_PORT_TABLE IS=min IE=min ";tr 50
M=GTP_PORT_TABLE IS=min IE=min;echo 'done';
echo "there are 692 more memories to test.";echo "tr 50 M=HG_TRUNK_BITMAP IS=min IE=min ";tr 50
M=HG_TRUNK_BITMAP IS=min IE=min;echo 'done';
echo "there are 691 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=min
";tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=min;echo 'done';
echo "there are 690 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_SET IS=min IE=min ";tr 50
M=HG_TRUNK_FAILOVER_SET IS=min IE=min;echo 'done';
echo "there are 689 more memories to test.";echo "tr 50 M=HG_TRUNK_GROUP IS=min IE=min ";tr 50
M=HG_TRUNK_GROUP IS=min IE=min;echo 'done';
echo "there are 688 more memories to test.";echo "tr 50 M=HG_TRUNK_MEMBER IS=min IE=min ";tr 50
M=HG_TRUNK_MEMBER IS=min IE=min;echo 'done';
echo "there are 687 more memories to test.";echo "tr 50 M=HIGIG_TRUNK_CONTROL IS=min IE=min ";tr 50
M=HIGIG_TRUNK_CONTROL IS=min IE=min;echo 'done';
echo "there are 686 more memories to test.";echo "tr 50 M=IARB_ING_PORT_TABLE IS=min IE=min ";tr 50
M=IARB_ING_PORT_TABLE IS=min IE=min;echo 'done';
echo "there are 685 more memories to test.";echo "tr 50 M=IARB_MAIN_TDM IS=min IE=min ";tr 50
M=IARB_MAIN_TDM IS=min IE=min;echo 'done';
echo "there are 684 more memories to test.";echo "tr 50 M=IARB_MAIN_TDM_X IS=min IE=min ";tr 50
M=IARB_MAIN_TDM_X IS=min IE=min;echo 'done';
echo "there are 683 more memories to test.";echo "tr 50 M=IARB_MAIN_TDM_Y IS=min IE=min ";tr 50
M=IARB_MAIN_TDM_Y IS=min IE=min;echo 'done';
echo "there are 682 more memories to test.";echo "tr 50 M=ICONTROL_OPCODE_BITMAP IS=min IE=min ";tr
50 M=ICONTROL_OPCODE_BITMAP IS=min IE=min;echo 'done';
echo "there are 681 more memories to test.";echo "tr 50 M=IFP_COS_MAP IS=min IE=min ";tr 50
M=IFP_COS_MAP IS=min IE=min;echo 'done';
echo "there are 680 more memories to test.";echo "tr 50 M=IFP_REDIRECTION_PROFILE IS=min IE=min ";tr 50
M=IFP_REDIRECTION_PROFILE IS=min IE=min;echo 'done';
echo "there are 679 more memories to test.";echo "tr 50 M=IMIRROR_BITMAP IS=min IE=min ";tr 50
M=IMIRROR_BITMAP IS=min IE=min;echo 'done';
echo "there are 678 more memories to test.";echo "tr 50 M=IM_MTP_INDEX IS=min IE=min ";tr 50
M=IM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 677 more memories to test.";echo "tr 50 M=ING_1588_INGRESS_CTRL IS=min IE=min ";tr 50
M=ING_1588_INGRESS_CTRL IS=min IE=min;echo 'done';
echo "there are 676 more memories to test.";echo "tr 50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=min ";tr
50 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=min;echo 'done';
echo "there are 675 more memories to test.";echo "tr 50 M=ING_DEST_PORT_ENABLE IS=min IE=min ";tr 50
```

```
M=ING_DEST_PORT_ENABLE IS=min IE=min;echo 'done';
echo "there are 674 more memories to test.";echo "tr 50 M=ING_DNAT_ADDRESS_TYPE IS=min IE=min ";tr 50
M=ING_DNAT_ADDRESS_TYPE IS=min IE=min;echo 'done';
echo "there are 673 more memories to test.";echo "tr 50 M=ING_DVP_2_TABLE IS=min IE=min ";tr 50
M=ING_DVP_2_TABLE IS=min IE=min;echo 'done';
echo "there are 672 more memories to test.";echo "tr 50 M=ING_DVP_TABLE IS=min IE=min ";tr 50
M=ING_DVP_TABLE IS=min IE=min;echo 'done';
echo "there are 671 more memories to test.";echo "tr 50 M=ING_EGRMSKBMAP IS=min IE=min ";tr 50
M=ING_EGRMSKBMAP IS=min IE=min;echo 'done';
echo "there are 670 more memories to test.";echo "tr 50 M=ING_EN_EFILTER_BITMAP IS=min IE=min ";tr 50
M=ING_EN_EFILTER_BITMAP IS=min IE=min;echo 'done';
echo "there are 669 more memories to test.";echo "tr 50 M=ING_ETAG_PCP_MAPPING IS=min IE=min ";tr 50
M=ING_ETAG_PCP_MAPPING IS=min IE=min;echo 'done';
echo "there are 668 more memories to test.";echo "tr 50 M=ING_FC_HEADER_TYPE IS=min IE=min ";tr 50
M=ING_FC_HEADER_TYPE IS=min IE=min;echo 'done';
echo "there are 667 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 666 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=min;echo 'done';
echo "there are 665 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=min;echo 'done';
echo "there are 664 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 663 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=min;echo 'done';
echo "there are 662 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=min;echo 'done';
echo "there are 661 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 660 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=min;echo 'done';
echo "there are 659 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=min;echo 'done';
echo "there are 658 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 657 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=min;echo 'done';
echo "there are 656 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=min;echo 'done';
echo "there are 655 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=min;echo 'done';
echo "there are 654 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min IE=min;echo 'done';
echo "there are 653 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min IE=min;echo 'done';
echo "there are 652 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=min;echo 'done';
echo "there are 651 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min
```

```
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min IE=min;echo 'done';
echo "there are 650 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min IE=min;echo 'done';
echo "there are 649 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=min;echo 'done';
echo "there are 648 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min IE=min;echo 'done';
echo "there are 647 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min IE=min;echo 'done';
echo "there are 646 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=min;echo 'done';
echo "there are 645 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min IE=min;echo 'done';
echo "there are 644 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min IE=min;echo 'done';
echo "there are 643 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 642 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 641 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 640 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 639 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=min;echo 'done';
echo "there are 638 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=min;echo 'done';
echo "there are 637 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=min;echo 'done';
echo "there are 636 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=min;echo 'done';
echo "there are 635 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 634 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=min;echo 'done';
echo "there are 633 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PORT_MAP IS=min IE=min ";tr 50
M=ING_FLEX_CTR_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 632 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 631 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_TOS_MAP IS=min IE=min ";tr 50
M=ING_FLEX_CTR_TOS_MAP IS=min IE=min;echo 'done';
echo "there are 630 more memories to test.";echo "tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=min ";tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=min;echo 'done';
echo "there are 629 more memories to test.";echo "tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
IE=min ";tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=min;echo 'done';
echo "there are 628 more memories to test.";echo "tr 50 M=ING_L3_NEXT_HOP IS=min IE=min ";tr 50
M=ING_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 627 more memories to test.";echo "tr 50 M=ING_MOD_MAP_TABLE IS=min IE=min ";tr 50
```

```
M=ING_MOD_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 626 more memories to test.";echo "tr 50 M=ING_MPLS_EXP_MAPPING IS=min IE=min ";tr 50
M=ING_MPLS_EXP_MAPPING IS=min IE=min;echo 'done';
echo "there are 625 more memories to test.";echo "tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=min ";tr 50 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=min;echo 'done';
echo "there are 624 more memories to test.";echo "tr 50
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=min ";tr 50
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=min;echo 'done';
echo "there are 623 more memories to test.";echo "tr 50 M=ING_PRI_CNG_MAP IS=min IE=min ";tr 50
M=ING_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 622 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM IS=min IE=min ";tr 50
M=ING_PW_TERM_SEQ_NUM IS=min IE=min;echo 'done';
echo "there are 621 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=min ";tr
50 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=min;echo 'done';
echo "there are 620 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=min ";tr
50 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=min;echo 'done';
echo "there are 619 more memories to test.";echo "tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=min
";tr 50 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=min;echo 'done';
#echo "there are 618 more memories to test.";echo "tr 50 M=ING_SER_FIFO IS=min IE=min ";tr 50
M=ING_SER_FIFO IS=min IE=min;echo 'done';
#echo "there are 617 more memories to test.";echo "tr 50 M=ING_SER_FIFO_X IS=min IE=min ";tr 50
M=ING_SER_FIFO_X IS=min IE=min;echo 'done';
#echo "there are 616 more memories to test.";echo "tr 50 M=ING_SER_FIFO_Y IS=min IE=min ";tr 50
M=ING_SER_FIFO_Y IS=min IE=min;echo 'done';
echo "there are 615 more memories to test.";echo "tr 50 M=ING_SNAT IS=min IE=min ";tr 50 M=ING_SNAT
IS=min IE=min;echo 'done';
echo "there are 614 more memories to test.";echo "tr 50 M=ING_SNAT_DATA_ONLY IS=min IE=min ";tr 50
M=ING_SNAT_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 613 more memories to test.";echo "tr 50 M=ING_SNAT_HIT_ONLY IS=min IE=min ";tr 50
M=ING_SNAT_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 612 more memories to test.";echo "tr 50 M=ING_SNAT_HIT_ONLY_X IS=min IE=min ";tr 50
M=ING_SNAT_HIT_ONLY_X IS=min IE=min;echo 'done';
echo "there are 611 more memories to test.";echo "tr 50 M=ING_SNAT_HIT_ONLY_Y IS=min IE=min ";tr 50
M=ING_SNAT_HIT_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 610 more memories to test.";echo "tr 50 M=ING_SNAT_ONLY IS=min IE=min ";tr 50
M=ING_SNAT_ONLY IS=min IE=min;echo 'done';
echo "there are 609 more memories to test.";echo "tr 50 M=ING_TRILL_PARSE_CONTROL IS=min IE=min ";tr
50 M=ING_TRILL_PARSE_CONTROL IS=min IE=min;echo 'done';
echo "there are 608 more memories to test.";echo "tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min
IE=min ";tr 50 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=min;echo 'done';
echo "there are 607 more memories to test.";echo "tr 50 M=ING_UNTAGGED_PHB IS=min IE=min ";tr 50
M=ING_UNTAGGED_PHB IS=min IE=min;echo 'done';
echo "there are 606 more memories to test.";echo "tr 50 M=ING_VFT_PRI_MAP IS=min IE=min ";tr 50
M=ING_VFT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 605 more memories to test.";echo "tr 50 M=ING_VLAN_RANGE IS=min IE=min ";tr 50
M=ING_VLAN_RANGE IS=min IE=min;echo 'done';
echo "there are 604 more memories to test.";echo "tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=min ";tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=min;echo 'done';
```

```
echo "there are 603 more memories to test.";echo "tr 50 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=min ";tr
50 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=min;echo 'done';
echo "there are 602 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=min ";tr
50 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=min;echo 'done';
echo "there are 601 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=min ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=min;echo 'done';
echo "there are 600 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=min ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=min;echo 'done';
echo "there are 599 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=min ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=min;echo 'done';
echo "there are 598 more memories to test.";echo "tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=min ";tr 50 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=min;echo 'done';
echo "there are 597 more memories to test.";echo "tr 50 M=ING_VSAN IS=min IE=min ";tr 50 M=ING_VSAN
IS=min IE=min;echo 'done';
echo "there are 596 more memories to test.";echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=min ";tr 50
M=INITIAL_ING_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 595 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP IS=min IE=min ";tr 50
M=INITIAL_L3_ECMP IS=min IE=min;echo 'done';
echo "there are 594 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP_GROUP IS=min IE=min ";tr 50
M=INITIAL_L3_ECMP_GROUP IS=min IE=min;echo 'done';
echo "there are 593 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE IS=min IE=min ";tr 50
M=INITIAL_PROT_NHI_TABLE IS=min IE=min;echo 'done';
echo "there are 592 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=min ";tr
50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 591 more memories to test.";echo "tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=min ";tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=min;echo 'done';
echo "there are 590 more memories to test.";echo "tr 50 M=IP_MULTICAST_TCAM IS=min IE=min ";tr 50
M=IP_MULTICAST_TCAM IS=min IE=min;echo 'done';
echo "there are 589 more memories to test.";echo "tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=min ";tr 50 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=min;echo 'done';
echo "there are 588 more memories to test.";echo "tr 50 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=min ";tr
50 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=min;echo 'done';
echo "there are 587 more memories to test.";echo "tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 586 more memories to test.";echo "tr 50 M=L2MC IS=min IE=min ";tr 50 M=L2MC IS=min
IE=min;echo 'done';
echo "there are 585 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_DATA IS=min IE=min ";tr 50
M=L2_BULK_MATCH_DATA IS=min IE=min;echo 'done';
echo "there are 584 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_MASK IS=min IE=min ";tr 50
M=L2_BULK_MATCH_MASK IS=min IE=min;echo 'done';
echo "there are 583 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_DATA IS=min IE=min ";tr 50
M=L2_BULK_REPLACE_DATA IS=min IE=min;echo 'done';
echo "there are 582 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_MASK IS=min IE=min ";tr 50
M=L2_BULK_REPLACE_MASK IS=min IE=min;echo 'done';
echo "there are 581 more memories to test.";echo "tr 50 M=L2_ENDPOINT_ID IS=min IE=min ";tr 50
M=L2_ENDPOINT_ID IS=min IE=min;echo 'done';
echo "there are 580 more memories to test.";echo "tr 50 M=L2X IS=min IE=min ";tr 50 M=L2X IS=min
IE=min;echo 'done';
```

```
echo "there are 579 more memories to test.";echo "tr 50 M=L2_ENTRY_LP IS=min IE=min ";tr 50
M=L2_ENTRY_LP IS=min IE=min;echo 'done';
echo "there are 578 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY IS=min IE=min ";tr 50
M=L2_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 577 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY_ECC IS=min IE=min ";tr 50
M=L2_ENTRY_ONLY_ECC IS=min IE=min;echo 'done';
echo "there are 576 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY IS=min IE=min ";tr 50
M=L2_HITDA_ONLY IS=min IE=min;echo 'done';
echo "there are 575 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY_X IS=min IE=min ";tr 50
M=L2_HITDA_ONLY_X IS=min IE=min;echo 'done';
echo "there are 574 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY_Y IS=min IE=min ";tr 50
M=L2_HITDA_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 573 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY IS=min IE=min ";tr 50
M=L2_HITSA_ONLY IS=min IE=min;echo 'done';
echo "there are 572 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY_X IS=min IE=min ";tr 50
M=L2_HITSA_ONLY_X IS=min IE=min;echo 'done';
echo "there are 571 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY_Y IS=min IE=min ";tr 50
M=L2_HITSA_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 570 more memories to test.";echo "tr 50 M=L2_LEARN_INSERT_FAILURE IS=min IE=min ";tr
50 M=L2_LEARN_INSERT_FAILURE IS=min IE=min;echo 'done';
echo "there are 569 more memories to test.";echo "tr 50 M=L2_MOD_FIFO IS=min IE=min ";tr 50
M=L2_MOD_FIFO IS=min IE=min;echo 'done';
echo "there are 568 more memories to test.";echo "tr 50 M=L2_USER_ENTRY IS=min IE=min ";tr 50
M=L2_USER_ENTRY IS=min IE=min;echo 'done';
echo "there are 567 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=min ";tr
50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 566 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=min ";tr 50
M=L2_USER_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 565 more memories to test.";echo "tr 50 M=L3_DEFIP IS=min IE=min ";tr 50 M=L3_DEFIP
IS=min IE=min;echo 'done';
echo "there are 564 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_ECC IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_ECC IS=min IE=min;echo 'done';
#echo "there are 563 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=min ";tr
50 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=min;echo 'done';
#echo "there are 562 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=min
";tr 50 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=min;echo 'done';
#echo "there are 561 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=min
";tr 50 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=min;echo 'done';
#echo "there are 560 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4 IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_IPV4 IS=min IE=min;echo 'done';
#echo "there are 559 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=min;echo 'done';
#echo "there are 558 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=min;echo 'done';
#echo "there are 557 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=min;echo 'done';
#echo "there are 556 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=min;echo 'done';
```

```
#echo "there are 555 more memories to test.";echo "tr 50 M=L3_DEFIP_ALPM_RAW IS=min IE=min ";tr 50
M=L3_DEFIP_ALPM_RAW IS=min IE=min;echo 'done';
echo "there are 554 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=min
";tr 50 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=min;echo 'done';
echo "there are 553 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_SCRATCH IS=min IE=min ";tr 50
M=L3_DEFIP_AUX_SCRATCH IS=min IE=min;echo 'done';
echo "there are 552 more memories to test.";echo "tr 50 M=L3_DEFIP_AUX_TABLE IS=min IE=min ";tr 50
M=L3_DEFIP_AUX_TABLE IS=min IE=min;echo 'done';
echo "there are 551 more memories to test.";echo "tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 550 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 549 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY_X IS=min IE=min ";tr 50
M=L3_DEFIP_HIT_ONLY_X IS=min IE=min;echo 'done';
echo "there are 548 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY_Y IS=min IE=min ";tr 50
M=L3_DEFIP_HIT_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 547 more memories to test.";echo "tr 50 M=L3_DEFIP_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_ONLY IS=min IE=min;echo 'done';
echo "there are 546 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128 IS=min IE=min ";tr 50
M=L3_DEFIP_PAIR_128 IS=min IE=min;echo 'done';
echo "there are 545 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=min
";tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 544 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=min ";tr
50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 543 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=min
";tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=min;echo 'done';
echo "there are 542 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=min
";tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 541 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_PAIR_128_ONLY IS=min IE=min;echo 'done';
echo "there are 540 more memories to test.";echo "tr 50 M=L3_ECMP IS=min IE=min ";tr 50 M=L3_ECMP
IS=min IE=min;echo 'done';
echo "there are 539 more memories to test.";echo "tr 50 M=L3_ECMP_COUNT IS=min IE=min ";tr 50
M=L3_ECMP_COUNT IS=min IE=min;echo 'done';
echo "there are 538 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=min ";tr 50
M=L3_ENTRY_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 537 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY_X IS=min IE=min ";tr 50
M=L3_ENTRY_HIT_ONLY_X IS=min IE=min;echo 'done';
echo "there are 536 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY_Y IS=min IE=min ";tr 50
M=L3_ENTRY_HIT_ONLY_Y IS=min IE=min;echo 'done';
echo "there are 535 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=min ";tr
50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=min;echo 'done';
echo "there are 534 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=min ";tr 50
M=L3_ENTRY_IPV4_UNICAST IS=min IE=min;echo 'done';
echo "there are 533 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=min ";tr
50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=min;echo 'done';
echo "there are 532 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=min ";tr 50
M=L3_ENTRY_IPV6_UNICAST IS=min IE=min;echo 'done';
```

```
echo "there are 531 more memories to test.";echo "tr 50 M=L3_ENTRY_LP IS=min IE=min ";tr 50
M=L3_ENTRY_LP IS=min IE=min;echo 'done';
echo "there are 530 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY IS=min IE=min ";tr 50
M=L3_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 529 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY_ECC IS=min IE=min ";tr 50
M=L3_ENTRY_ONLY_ECC IS=min IE=min;echo 'done';
echo "there are 528 more memories to test.";echo "tr 50 M=L3_IIF IS=min IE=min ";tr 50 M=L3_IIF IS=min
IE=min;echo 'done';
echo "there are 527 more memories to test.";echo "tr 50 M=L3_IIF_PROFILE IS=min IE=min ";tr 50
M=L3_IIF_PROFILE IS=min IE=min;echo 'done';
echo "there are 526 more memories to test.";echo "tr 50 M=L3_IPMC IS=min IE=min ";tr 50 M=L3_IPMC IS=min
IE=min;echo 'done';
echo "there are 525 more memories to test.";echo "tr 50 M=L3_IPMC_1 IS=min IE=min ";tr 50 M=L3_IPMC_1
IS=min IE=min;echo 'done';
echo "there are 524 more memories to test.";echo "tr 50 M=L3_IPMC_REMAP IS=min IE=min ";tr 50
M=L3_IPMC_REMAP IS=min IE=min;echo 'done';
echo "there are 523 more memories to test.";echo "tr 50 M=L3_MTU_VALUES IS=min IE=min ";tr 50
M=L3_MTU_VALUES IS=min IE=min;echo 'done';
echo "there are 522 more memories to test.";echo "tr 50 M=L3_TUNNEL IS=min IE=min ";tr 50 M=L3_TUNNEL
IS=min IE=min;echo 'done';
echo "there are 521 more memories to test.";echo "tr 50 M=L3_TUNNEL_DATA_ONLY IS=min IE=min ";tr 50
M=L3_TUNNEL_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 520 more memories to test.";echo "tr 50 M=L3_TUNNEL_ONLY IS=min IE=min ";tr 50
M=L3_TUNNEL_ONLY IS=min IE=min;echo 'done';
echo "there are 519 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=min ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=min;echo 'done';
echo "there are 518 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=min ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=min;echo 'done';
echo "there are 517 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=min ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=min;echo 'done';
echo "there are 516 more memories to test.";echo "tr 50 M=LPORT_TAB IS=min IE=min ";tr 50 M=LPORT_TAB
IS=min IE=min;echo 'done';
echo "there are 515 more memories to test.";echo "tr 50 M=MAC_BLOCK IS=min IE=min ";tr 50
M=MAC_BLOCK IS=min IE=min;echo 'done';
echo "there are 513 more memories to test.";echo "tr 50 M=MIRROR_CONTROL IS=min IE=min ";tr 50
M=MIRROR_CONTROL IS=min IE=min;echo 'done';
echo "there are 512 more memories to test.";echo "tr 50 M=MMU_AGING_CTR IS=min IE=min ";tr 50
M=MMU_AGING_CTR IS=min IE=min;echo 'done';
echo "there are 511 more memories to test.";echo "tr 50 M=MMU_AGING_EXP IS=min IE=min ";tr 50
M=MMU_AGING_EXP IS=min IE=min;echo 'done';
echo "there are 510 more memories to test.";echo "tr 50 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=min
";tr 50 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=min;echo 'done';
echo "there are 509 more memories to test.";echo "tr 50 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=min
";tr 50 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=min;echo 'done';
echo "there are 508 more memories to test.";echo "tr 50 M=MMU_CBPData0 IS=min IE=min ";tr 50
M=MMU_CBPData0 IS=min IE=min;echo 'done';
echo "there are 507 more memories to test.";echo "tr 50 M=MMU_CBPData1 IS=min IE=min ";tr 50
M=MMU_CBPData1 IS=min IE=min;echo 'done';
```

```
echo "there are 506 more memories to test.";echo "tr 50 M=MMU_CBPData10 IS=min IE=min ";tr 50
M=MMU_CBPData10 IS=min IE=min;echo 'done';
echo "there are 505 more memories to test.";echo "tr 50 M=MMU_CBPData11 IS=min IE=min ";tr 50
M=MMU_CBPData11 IS=min IE=min;echo 'done';
echo "there are 504 more memories to test.";echo "tr 50 M=MMU_CBPData12 IS=min IE=min ";tr 50
M=MMU_CBPData12 IS=min IE=min;echo 'done';
echo "there are 503 more memories to test.";echo "tr 50 M=MMU_CBPData13 IS=min IE=min ";tr 50
M=MMU_CBPData13 IS=min IE=min;echo 'done';
echo "there are 502 more memories to test.";echo "tr 50 M=MMU_CBPData14 IS=min IE=min ";tr 50
M=MMU_CBPData14 IS=min IE=min;echo 'done';
echo "there are 501 more memories to test.";echo "tr 50 M=MMU_CBPData15 IS=min IE=min ";tr 50
M=MMU_CBPData15 IS=min IE=min;echo 'done';
echo "there are 500 more memories to test.";echo "tr 50 M=MMU_CBPData16 IS=min IE=min ";tr 50
M=MMU_CBPData16 IS=min IE=min;echo 'done';
echo "there are 499 more memories to test.";echo "tr 50 M=MMU_CBPData17 IS=min IE=min ";tr 50
M=MMU_CBPData17 IS=min IE=min;echo 'done';
echo "there are 498 more memories to test.";echo "tr 50 M=MMU_CBPData18 IS=min IE=min ";tr 50
M=MMU_CBPData18 IS=min IE=min;echo 'done';
echo "there are 497 more memories to test.";echo "tr 50 M=MMU_CBPData19 IS=min IE=min ";tr 50
M=MMU_CBPData19 IS=min IE=min;echo 'done';
echo "there are 496 more memories to test.";echo "tr 50 M=MMU_CBPData2 IS=min IE=min ";tr 50
M=MMU_CBPData2 IS=min IE=min;echo 'done';
echo "there are 495 more memories to test.";echo "tr 50 M=MMU_CBPData20 IS=min IE=min ";tr 50
M=MMU_CBPData20 IS=min IE=min;echo 'done';
echo "there are 494 more memories to test.";echo "tr 50 M=MMU_CBPData21 IS=min IE=min ";tr 50
M=MMU_CBPData21 IS=min IE=min;echo 'done';
echo "there are 493 more memories to test.";echo "tr 50 M=MMU_CBPData22 IS=min IE=min ";tr 50
M=MMU_CBPData22 IS=min IE=min;echo 'done';
echo "there are 492 more memories to test.";echo "tr 50 M=MMU_CBPData23 IS=min IE=min ";tr 50
M=MMU_CBPData23 IS=min IE=min;echo 'done';
echo "there are 491 more memories to test.";echo "tr 50 M=MMU_CBPData24 IS=min IE=min ";tr 50
M=MMU_CBPData24 IS=min IE=min;echo 'done';
echo "there are 490 more memories to test.";echo "tr 50 M=MMU_CBPData25 IS=min IE=min ";tr 50
M=MMU_CBPData25 IS=min IE=min;echo 'done';
echo "there are 489 more memories to test.";echo "tr 50 M=MMU_CBPData26 IS=min IE=min ";tr 50
M=MMU_CBPData26 IS=min IE=min;echo 'done';
echo "there are 488 more memories to test.";echo "tr 50 M=MMU_CBPData27 IS=min IE=min ";tr 50
M=MMU_CBPData27 IS=min IE=min;echo 'done';
echo "there are 487 more memories to test.";echo "tr 50 M=MMU_CBPData28 IS=min IE=min ";tr 50
M=MMU_CBPData28 IS=min IE=min;echo 'done';
echo "there are 486 more memories to test.";echo "tr 50 M=MMU_CBPData29 IS=min IE=min ";tr 50
M=MMU_CBPData29 IS=min IE=min;echo 'done';
echo "there are 485 more memories to test.";echo "tr 50 M=MMU_CBPData3 IS=min IE=min ";tr 50
M=MMU_CBPData3 IS=min IE=min;echo 'done';
echo "there are 484 more memories to test.";echo "tr 50 M=MMU_CBPData30 IS=min IE=min ";tr 50
M=MMU_CBPData30 IS=min IE=min;echo 'done';
echo "there are 483 more memories to test.";echo "tr 50 M=MMU_CBPData31 IS=min IE=min ";tr 50
M=MMU_CBPData31 IS=min IE=min;echo 'done';
```

```
echo "there are 482 more memories to test.";echo "tr 50 M=MMU_CBPData32 IS=min IE=min ";tr 50
M=MMU_CBPData32 IS=min IE=min;echo 'done';
echo "there are 481 more memories to test.";echo "tr 50 M=MMU_CBPData33 IS=min IE=min ";tr 50
M=MMU_CBPData33 IS=min IE=min;echo 'done';
echo "there are 480 more memories to test.";echo "tr 50 M=MMU_CBPData34 IS=min IE=min ";tr 50
M=MMU_CBPData34 IS=min IE=min;echo 'done';
echo "there are 479 more memories to test.";echo "tr 50 M=MMU_CBPData35 IS=min IE=min ";tr 50
M=MMU_CBPData35 IS=min IE=min;echo 'done';
echo "there are 478 more memories to test.";echo "tr 50 M=MMU_CBPData36 IS=min IE=min ";tr 50
M=MMU_CBPData36 IS=min IE=min;echo 'done';
echo "there are 477 more memories to test.";echo "tr 50 M=MMU_CBPData37 IS=min IE=min ";tr 50
M=MMU_CBPData37 IS=min IE=min;echo 'done';
echo "there are 476 more memories to test.";echo "tr 50 M=MMU_CBPData38 IS=min IE=min ";tr 50
M=MMU_CBPData38 IS=min IE=min;echo 'done';
echo "there are 475 more memories to test.";echo "tr 50 M=MMU_CBPData39 IS=min IE=min ";tr 50
M=MMU_CBPData39 IS=min IE=min;echo 'done';
echo "there are 474 more memories to test.";echo "tr 50 M=MMU_CBPData4 IS=min IE=min ";tr 50
M=MMU_CBPData4 IS=min IE=min;echo 'done';
echo "there are 473 more memories to test.";echo "tr 50 M=MMU_CBPData40 IS=min IE=min ";tr 50
M=MMU_CBPData40 IS=min IE=min;echo 'done';
echo "there are 472 more memories to test.";echo "tr 50 M=MMU_CBPData41 IS=min IE=min ";tr 50
M=MMU_CBPData41 IS=min IE=min;echo 'done';
echo "there are 471 more memories to test.";echo "tr 50 M=MMU_CBPData42 IS=min IE=min ";tr 50
M=MMU_CBPData42 IS=min IE=min;echo 'done';
echo "there are 470 more memories to test.";echo "tr 50 M=MMU_CBPData43 IS=min IE=min ";tr 50
M=MMU_CBPData43 IS=min IE=min;echo 'done';
echo "there are 469 more memories to test.";echo "tr 50 M=MMU_CBPData44 IS=min IE=min ";tr 50
M=MMU_CBPData44 IS=min IE=min;echo 'done';
echo "there are 468 more memories to test.";echo "tr 50 M=MMU_CBPData45 IS=min IE=min ";tr 50
M=MMU_CBPData45 IS=min IE=min;echo 'done';
echo "there are 467 more memories to test.";echo "tr 50 M=MMU_CBPData46 IS=min IE=min ";tr 50
M=MMU_CBPData46 IS=min IE=min;echo 'done';
echo "there are 466 more memories to test.";echo "tr 50 M=MMU_CBPData47 IS=min IE=min ";tr 50
M=MMU_CBPData47 IS=min IE=min;echo 'done';
echo "there are 465 more memories to test.";echo "tr 50 M=MMU_CBPData48 IS=min IE=min ";tr 50
M=MMU_CBPData48 IS=min IE=min;echo 'done';
echo "there are 464 more memories to test.";echo "tr 50 M=MMU_CBPData49 IS=min IE=min ";tr 50
M=MMU_CBPData49 IS=min IE=min;echo 'done';
echo "there are 463 more memories to test.";echo "tr 50 M=MMU_CBPData5 IS=min IE=min ";tr 50
M=MMU_CBPData5 IS=min IE=min;echo 'done';
echo "there are 462 more memories to test.";echo "tr 50 M=MMU_CBPData50 IS=min IE=min ";tr 50
M=MMU_CBPData50 IS=min IE=min;echo 'done';
echo "there are 461 more memories to test.";echo "tr 50 M=MMU_CBPData51 IS=min IE=min ";tr 50
M=MMU_CBPData51 IS=min IE=min;echo 'done';
echo "there are 460 more memories to test.";echo "tr 50 M=MMU_CBPData52 IS=min IE=min ";tr 50
M=MMU_CBPData52 IS=min IE=min;echo 'done';
echo "there are 459 more memories to test.";echo "tr 50 M=MMU_CBPData53 IS=min IE=min ";tr 50
M=MMU_CBPData53 IS=min IE=min;echo 'done';
```

```
echo "there are 458 more memories to test.";echo "tr 50 M=MMU_CBPData54 IS=min IE=min ";tr 50
M=MMU_CBPData54 IS=min IE=min;echo 'done';
echo "there are 457 more memories to test.";echo "tr 50 M=MMU_CBPData55 IS=min IE=min ";tr 50
M=MMU_CBPData55 IS=min IE=min;echo 'done';
echo "there are 456 more memories to test.";echo "tr 50 M=MMU_CBPData56 IS=min IE=min ";tr 50
M=MMU_CBPData56 IS=min IE=min;echo 'done';
echo "there are 455 more memories to test.";echo "tr 50 M=MMU_CBPData57 IS=min IE=min ";tr 50
M=MMU_CBPData57 IS=min IE=min;echo 'done';
echo "there are 454 more memories to test.";echo "tr 50 M=MMU_CBPData58 IS=min IE=min ";tr 50
M=MMU_CBPData58 IS=min IE=min;echo 'done';
echo "there are 453 more memories to test.";echo "tr 50 M=MMU_CBPData59 IS=min IE=min ";tr 50
M=MMU_CBPData59 IS=min IE=min;echo 'done';
echo "there are 452 more memories to test.";echo "tr 50 M=MMU_CBPData6 IS=min IE=min ";tr 50
M=MMU_CBPData6 IS=min IE=min;echo 'done';
echo "there are 451 more memories to test.";echo "tr 50 M=MMU_CBPData60 IS=min IE=min ";tr 50
M=MMU_CBPData60 IS=min IE=min;echo 'done';
echo "there are 450 more memories to test.";echo "tr 50 M=MMU_CBPData61 IS=min IE=min ";tr 50
M=MMU_CBPData61 IS=min IE=min;echo 'done';
echo "there are 449 more memories to test.";echo "tr 50 M=MMU_CBPData62 IS=min IE=min ";tr 50
M=MMU_CBPData62 IS=min IE=min;echo 'done';
echo "there are 448 more memories to test.";echo "tr 50 M=MMU_CBPData63 IS=min IE=min ";tr 50
M=MMU_CBPData63 IS=min IE=min;echo 'done';
echo "there are 447 more memories to test.";echo "tr 50 M=MMU_CBPData64 IS=min IE=min ";tr 50
M=MMU_CBPData64 IS=min IE=min;echo 'done';
echo "there are 446 more memories to test.";echo "tr 50 M=MMU_CBPData65 IS=min IE=min ";tr 50
M=MMU_CBPData65 IS=min IE=min;echo 'done';
echo "there are 445 more memories to test.";echo "tr 50 M=MMU_CBPData66 IS=min IE=min ";tr 50
M=MMU_CBPData66 IS=min IE=min;echo 'done';
echo "there are 444 more memories to test.";echo "tr 50 M=MMU_CBPData67 IS=min IE=min ";tr 50
M=MMU_CBPData67 IS=min IE=min;echo 'done';
echo "there are 443 more memories to test.";echo "tr 50 M=MMU_CBPData68 IS=min IE=min ";tr 50
M=MMU_CBPData68 IS=min IE=min;echo 'done';
echo "there are 442 more memories to test.";echo "tr 50 M=MMU_CBPData69 IS=min IE=min ";tr 50
M=MMU_CBPData69 IS=min IE=min;echo 'done';
echo "there are 441 more memories to test.";echo "tr 50 M=MMU_CBPData7 IS=min IE=min ";tr 50
M=MMU_CBPData7 IS=min IE=min;echo 'done';
echo "there are 440 more memories to test.";echo "tr 50 M=MMU_CBPData70 IS=min IE=min ";tr 50
M=MMU_CBPData70 IS=min IE=min;echo 'done';
echo "there are 439 more memories to test.";echo "tr 50 M=MMU_CBPData71 IS=min IE=min ";tr 50
M=MMU_CBPData71 IS=min IE=min;echo 'done';
echo "there are 438 more memories to test.";echo "tr 50 M=MMU_CBPData72 IS=min IE=min ";tr 50
M=MMU_CBPData72 IS=min IE=min;echo 'done';
echo "there are 437 more memories to test.";echo "tr 50 M=MMU_CBPData73 IS=min IE=min ";tr 50
M=MMU_CBPData73 IS=min IE=min;echo 'done';
echo "there are 436 more memories to test.";echo "tr 50 M=MMU_CBPData74 IS=min IE=min ";tr 50
M=MMU_CBPData74 IS=min IE=min;echo 'done';
echo "there are 435 more memories to test.";echo "tr 50 M=MMU_CBPData75 IS=min IE=min ";tr 50
M=MMU_CBPData75 IS=min IE=min;echo 'done';
```

```
echo "there are 434 more memories to test.";echo "tr 50 M=MMU_CBPData76 IS=min IE=min ";tr 50
M=MMU_CBPData76 IS=min IE=min;echo 'done';
echo "there are 433 more memories to test.";echo "tr 50 M=MMU_CBPData77 IS=min IE=min ";tr 50
M=MMU_CBPData77 IS=min IE=min;echo 'done';
echo "there are 432 more memories to test.";echo "tr 50 M=MMU_CBPData78 IS=min IE=min ";tr 50
M=MMU_CBPData78 IS=min IE=min;echo 'done';
echo "there are 431 more memories to test.";echo "tr 50 M=MMU_CBPData79 IS=min IE=min ";tr 50
M=MMU_CBPData79 IS=min IE=min;echo 'done';
echo "there are 430 more memories to test.";echo "tr 50 M=MMU_CBPData8 IS=min IE=min ";tr 50
M=MMU_CBPData8 IS=min IE=min;echo 'done';
echo "there are 429 more memories to test.";echo "tr 50 M=MMU_CBPData80 IS=min IE=min ";tr 50
M=MMU_CBPData80 IS=min IE=min;echo 'done';
echo "there are 428 more memories to test.";echo "tr 50 M=MMU_CBPData81 IS=min IE=min ";tr 50
M=MMU_CBPData81 IS=min IE=min;echo 'done';
echo "there are 427 more memories to test.";echo "tr 50 M=MMU_CBPData82 IS=min IE=min ";tr 50
M=MMU_CBPData82 IS=min IE=min;echo 'done';
echo "there are 426 more memories to test.";echo "tr 50 M=MMU_CBPData83 IS=min IE=min ";tr 50
M=MMU_CBPData83 IS=min IE=min;echo 'done';
echo "there are 425 more memories to test.";echo "tr 50 M=MMU_CBPData9 IS=min IE=min ";tr 50
M=MMU_CBPData9 IS=min IE=min;echo 'done';
echo "there are 424 more memories to test.";echo "tr 50 M=MMU_CCP0_RESEQ_MEM IS=min IE=min ";tr 50
M=MMU_CCP0_RESEQ_MEM IS=min IE=min;echo 'done';
echo "there are 423 more memories to test.";echo "tr 50 M=MMU_CCP1_RESEQ_MEM IS=min IE=min ";tr 50
M=MMU_CCP1_RESEQ_MEM IS=min IE=min;echo 'done';
echo "there are 422 more memories to test.";echo "tr 50 M=MMU_CCP_MEM IS=min IE=min ";tr 50
M=MMU_CCP_MEM IS=min IE=min;echo 'done';
echo "there are 421 more memories to test.";echo "tr 50 M=MMU_CELL_LINK IS=min IE=min ";tr 50
M=MMU_CELL_LINK IS=min IE=min;echo 'done';
echo "there are 420 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK0 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK0 IS=min IE=min;echo 'done';
echo "there are 419 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK1 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK1 IS=min IE=min;echo 'done';
echo "there are 418 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK10 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK10 IS=min IE=min;echo 'done';
echo "there are 417 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK11 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK11 IS=min IE=min;echo 'done';
echo "there are 416 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK12 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK12 IS=min IE=min;echo 'done';
echo "there are 415 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK13 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK13 IS=min IE=min;echo 'done';
echo "there are 414 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK14 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK14 IS=min IE=min;echo 'done';
echo "there are 413 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK15 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK15 IS=min IE=min;echo 'done';
echo "there are 412 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK16 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK16 IS=min IE=min;echo 'done';
echo "there are 411 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK17 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK17 IS=min IE=min;echo 'done';
```

```
echo "there are 410 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK18 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK18 IS=min IE=min;echo 'done';
echo "there are 409 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK19 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK19 IS=min IE=min;echo 'done';
echo "there are 408 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK2 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK2 IS=min IE=min;echo 'done';
echo "there are 407 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK20 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK20 IS=min IE=min;echo 'done';
echo "there are 406 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK3 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK3 IS=min IE=min;echo 'done';
echo "there are 405 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK4 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK4 IS=min IE=min;echo 'done';
echo "there are 404 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK5 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK5 IS=min IE=min;echo 'done';
echo "there are 403 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK6 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK6 IS=min IE=min;echo 'done';
echo "there are 402 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK7 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK7 IS=min IE=min;echo 'done';
echo "there are 401 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK8 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK8 IS=min IE=min;echo 'done';
echo "there are 400 more memories to test.";echo "tr 50 M=MMU_CFAP_BANK9 IS=min IE=min ";tr 50
M=MMU_CFAP_BANK9 IS=min IE=min;echo 'done';
echo "there are 399 more memories to test.";echo "tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=min
";tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=min;echo 'done';
echo "there are 398 more memories to test.";echo "tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=min
";tr 50 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=min;echo 'done';
echo "there are 397 more memories to test.";echo "tr 50 M=MMU_CTR_ING_DROP_MEM IS=min IE=min ";tr 50
M=MMU_CTR_ING_DROP_MEM IS=min IE=min;echo 'done';
echo "there are 396 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=min ";tr
50 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=min;echo 'done';
echo "there are 395 more memories to test.";echo "tr 50 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=min ";tr
50 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=min;echo 'done';
echo "there are 394 more memories to test.";echo "tr 50 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=min ";tr
50 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=min;echo 'done';
echo "there are 393 more memories to test.";echo "tr 50 M=MMU_CTR_UC_DROP_MEM IS=min IE=min ";tr 50
M=MMU_CTR_UC_DROP_MEM IS=min IE=min;echo 'done';
echo "there are 392 more memories to test.";echo "tr 50 M=MMU_ENQ_PBI_DB IS=min IE=min ";tr 50
M=MMU_ENQ_PBI_DB IS=min IE=min;echo 'done';
echo "there are 391 more memories to test.";echo "tr 50 M=MMU_EPRG_MEM IS=min IE=min ";tr 50
M=MMU_EPRG_MEM IS=min IE=min;echo 'done';
echo "there are 390 more memories to test.";echo "tr 50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=min ";tr
50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=min;echo 'done';
echo "there are 389 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL0 IS=min IE=min;echo 'done';
echo "there are 388 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL1 IS=min IE=min;echo 'done';
echo "there are 387 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL2 IS=min IE=min;echo 'done';
```

```
echo "there are 386 more memories to test.";echo "tr 50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=min ";tr
50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=min;echo 'done';
echo "there are 385 more memories to test.";echo "tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=min
";tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=min;echo 'done';
echo "there are 384 more memories to test.";echo "tr 50 M=MMU_INTFI_PFC_ST_TBL IS=min IE=min ";tr 50
M=MMU_INTFI_PFC_ST_TBL IS=min IE=min;echo 'done';
echo "there are 383 more memories to test.";echo "tr 50 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=min ";tr
50 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=min;echo 'done';
echo "there are 382 more memories to test.";echo "tr 50 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=min ";tr 50
M=MMU_INTFI_ST_TRANS_TBL IS=min IE=min;echo 'done';
echo "there are 381 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=min
";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=min;echo 'done';
echo "there are 380 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=min
";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=min;echo 'done';
echo "there are 379 more memories to test.";echo "tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=min
";tr 50 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=min;echo 'done';
echo "there are 378 more memories to test.";echo "tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=min
";tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=min;echo 'done';
echo "there are 377 more memories to test.";echo "tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=min
";tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=min;echo 'done';
echo "there are 376 more memories to test.";echo "tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=min
";tr 50 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=min;echo 'done';
echo "there are 375 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min
IE=min ";tr 50 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=min;echo 'done';
echo "there are 374 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=min ";tr 50 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=min;echo 'done';
echo "there are 373 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=min ";tr
50 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=min;echo 'done';
echo "there are 372 more memories to test.";echo "tr 50 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=min ";tr
50 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=min;echo 'done';
echo "there are 371 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=min
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 370 more memories to test.";echo "tr 50 M=MMU_MCFP IS=min IE=min ";tr 50 M=MMU_MCFP
IS=min IE=min;echo 'done';
echo "there are 369 more memories to test.";echo "tr 50 M=MMU_MCQDB0 IS=min IE=min ";tr 50
M=MMU_MCQDB0 IS=min IE=min;echo 'done';
echo "there are 368 more memories to test.";echo "tr 50 M=MMU_MCQDB1 IS=min IE=min ";tr 50
M=MMU_MCQDB1 IS=min IE=min;echo 'done';
echo "there are 367 more memories to test.";echo "tr 50 M=MMU_MCQE IS=min IE=min ";tr 50
M=MMU_MCQE IS=min IE=min;echo 'done';
echo "there are 366 more memories to test.";echo "tr 50 M=MMU_MCQN IS=min IE=min ";tr 50
M=MMU_MCQN IS=min IE=min;echo 'done';
echo "there are 365 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=min ";tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=min;echo 'done';
echo "there are 364 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1
IS=min IE=min ";tr 50 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1 IS=min IE=min;echo 'done';
echo "there are 363 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
IS=min IE=min ";tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=min;echo 'done';
```

```
echo "there are 362 more memories to test.";echo "tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1
IS=min IE=min ";tr 50 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1 IS=min IE=min;echo 'done';
echo "there are 361 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=min;echo 'done';
echo "there are 360 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=min;echo 'done';
echo "there are 359 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=min;echo 'done';
echo "there are 358 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=min;echo 'done';
echo "there are 357 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=min;echo 'done';
echo "there are 356 more memories to test.";echo "tr 50 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=min
";tr 50 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=min;echo 'done';
echo "there are 355 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=min ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=min;echo 'done';
echo "there are 354 more memories to test.";echo "tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1
IS=min IE=min ";tr 50 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1 IS=min IE=min;echo 'done';
echo "there are 353 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_0 IS=min IE=min ";tr 50
M=MMU_MTRO_L0_MEM_0 IS=min IE=min;echo 'done';
echo "there are 352 more memories to test.";echo "tr 50 M=MMU_MTRO_L0_MEM_1 IS=min IE=min ";tr 50
M=MMU_MTRO_L0_MEM_1 IS=min IE=min;echo 'done';
echo "there are 351 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_0 IS=min IE=min ";tr 50
M=MMU_MTRO_L1_MEM_0 IS=min IE=min;echo 'done';
echo "there are 350 more memories to test.";echo "tr 50 M=MMU_MTRO_L1_MEM_1 IS=min IE=min ";tr 50
M=MMU_MTRO_L1_MEM_1 IS=min IE=min;echo 'done';
echo "there are 349 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_0 IS=min IE=min ";tr 50
M=MMU_MTRO_L2_MEM_0 IS=min IE=min;echo 'done';
echo "there are 348 more memories to test.";echo "tr 50 M=MMU_MTRO_L2_MEM_1 IS=min IE=min ";tr 50
M=MMU_MTRO_L2_MEM_1 IS=min IE=min;echo 'done';
echo "there are 347 more memories to test.";echo "tr 50 M=MMU_PDB0 IS=min IE=min ";tr 50 M=MMU_PDB0
IS=min IE=min;echo 'done';
echo "there are 346 more memories to test.";echo "tr 50 M=MMU_PDB1 IS=min IE=min ";tr 50 M=MMU_PDB1
IS=min IE=min;echo 'done';
echo "there are 345 more memories to test.";echo "tr 50 M=MMU_PKTHDR IS=min IE=min ";tr 50
M=MMU_PKTHDR IS=min IE=min;echo 'done';
echo "there are 344 more memories to test.";echo "tr 50 M=MMU_PKT_LINK IS=min IE=min ";tr 50
M=MMU_PKT_LINK IS=min IE=min;echo 'done';
echo "there are 343 more memories to test.";echo "tr 50 M=MMU_PORTCNT IS=min IE=min ";tr 50
M=MMU_PORTCNT IS=min IE=min;echo 'done';
echo "there are 342 more memories to test.";echo "tr 50 M=MMU_PQE0_MEM IS=min IE=min ";tr 50
M=MMU_PQE0_MEM IS=min IE=min;echo 'done';
echo "there are 341 more memories to test.";echo "tr 50 M=MMU_PQE1_MEM IS=min IE=min ";tr 50
M=MMU_PQE1_MEM IS=min IE=min;echo 'done';
echo "there are 340 more memories to test.";echo "tr 50 M=MMU_QCN_CNM_COUNTER IS=min IE=min ";tr 50
M=MMU_QCN_CNM_COUNTER IS=min IE=min;echo 'done';
echo "there are 339 more memories to test.";echo "tr 50 M=MMU_QCN_CNM_QUEUE0 IS=min IE=min ";tr 50
M=MMU_QCN_CNM_QUEUE0 IS=min IE=min;echo 'done';
```

```
echo "there are 338 more memories to test.";echo "tr 50 M=MMU_QCN_CNM_QUEUE1 IS=min IE=min ";tr 50
M=MMU_QCN_CNM_QUEUE1 IS=min IE=min;echo 'done';
echo "there are 337 more memories to test.";echo "tr 50 M=MMU_QCN_CPQST_QLEN IS=min IE=min ";tr 50
M=MMU_QCN_CPQST_QLEN IS=min IE=min;echo 'done';
echo "there are 336 more memories to test.";echo "tr 50 M=MMU_QCN_CPQST_TSSLS IS=min IE=min ";tr 50
M=MMU_QCN_CPQST_TSSLS IS=min IE=min;echo 'done';
echo "there are 335 more memories to test.";echo "tr 50 M=MMU_QCN_ENABLE_0 IS=min IE=min ";tr 50
M=MMU_QCN_ENABLE_0 IS=min IE=min;echo 'done';
echo "there are 334 more memories to test.";echo "tr 50 M=MMU_QCN_ENABLE_1 IS=min IE=min ";tr 50
M=MMU_QCN_ENABLE_1 IS=min IE=min;echo 'done';
echo "there are 333 more memories to test.";echo "tr 50 M=MMU_QCN_QFBTB IS=min IE=min ";tr 50
M=MMU_QCN_QFBTB IS=min IE=min;echo 'done';
echo "there are 332 more memories to test.";echo "tr 50 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=min ";tr
50 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=min;echo 'done';
echo "there are 331 more memories to test.";echo "tr 50 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=min ";tr
50 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=min;echo 'done';
echo "there are 330 more memories to test.";echo "tr 50 M=MMU_QCN_SITB IS=min IE=min ";tr 50
M=MMU_QCN_SITB IS=min IE=min;echo 'done';
echo "there are 329 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO0 IS=min IE=min ";tr 50
M=MMU_REPL_GROUP_INFO0 IS=min IE=min;echo 'done';
echo "there are 328 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INFO1 IS=min IE=min ";tr 50
M=MMU_REPL_GROUP_INFO1 IS=min IE=min;echo 'done';
echo "there are 327 more memories to test.";echo "tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=min ";tr 50 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=min;echo 'done';
echo "there are 326 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL IS=min IE=min ";tr 50
M=MMU_REPL_HEAD_TBL IS=min IE=min;echo 'done';
echo "there are 325 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=min ";tr
50 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=min;echo 'done';
echo "there are 324 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=min ";tr
50 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=min;echo 'done';
echo "there are 323 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL IS=min IE=min ";tr 50
M=MMU_REPL_LIST_TBL IS=min IE=min;echo 'done';
echo "there are 322 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=min ";tr
50 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=min;echo 'done';
echo "there are 321 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=min ";tr
50 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=min;echo 'done';
echo "there are 320 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=min ";tr
50 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=min;echo 'done';
echo "there are 319 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=min ";tr
50 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=min;echo 'done';
echo "there are 318 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=min
";tr 50 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=min;echo 'done';
echo "there are 317 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=min
";tr 50 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=min;echo 'done';
echo "there are 316 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=min;echo 'done';
echo "there are 315 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=min;echo 'done';
```

```
echo "there are 314 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=min;echo 'done';
echo "there are 313 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=min;echo 'done';
echo "there are 312 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min IE=min;echo 'done';
echo "there are 311 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min IE=min;echo 'done';
echo "there are 310 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min IE=min;echo 'done';
echo "there are 309 more memories to test.";echo "tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min IE=min;echo 'done';
echo "there are 308 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=min
";tr 50 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=min;echo 'done';
echo "there are 307 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=min
";tr 50 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=min;echo 'done';
echo "there are 306 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=min;echo 'done';
echo "there are 305 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=min;echo 'done';
echo "there are 304 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=min;echo 'done';
echo "there are 303 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=min;echo 'done';
echo "there are 302 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min IE=min;echo 'done';
echo "there are 301 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min IE=min;echo 'done';
echo "there are 300 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min IE=min;echo 'done';
echo "there are 299 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min IE=min;echo 'done';
echo "there are 298 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=min;echo 'done';
echo "there are 297 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min IE=min;echo 'done';
echo "there are 296 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=min;echo 'done';
echo "there are 295 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=min;echo 'done';
echo "there are 294 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=min;echo 'done';
echo "there are 293 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=min;echo 'done';
echo "there are 292 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min IE=min;echo 'done';
echo "there are 291 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min IE=min;echo 'done';
```

```
echo "there are 290 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min IE=min;echo 'done';
echo "there are 289 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min IE=min;echo 'done';
echo "there are 288 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=min;echo 'done';
echo "there are 287 more memories to test.";echo "tr 50 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min
IE=min ";tr 50 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min IE=min;echo 'done';
echo "there are 286 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=min;echo 'done';
echo "there are 285 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min IE=min;echo 'done';
echo "there are 284 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=min;echo 'done';
echo "there are 283 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=min;echo 'done';
echo "there are 282 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=min;echo 'done';
echo "there are 281 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min IE=min;echo 'done';
echo "there are 280 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min IE=min;echo 'done';
echo "there are 279 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min IE=min;echo 'done';
echo "there are 278 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=min;echo 'done';
echo "there are 277 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min IE=min;echo 'done';
echo "there are 276 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=min;echo 'done';
echo "there are 275 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=min;echo 'done';
echo "there are 274 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=min;echo 'done';
echo "there are 273 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=min;echo 'done';
echo "there are 272 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min IE=min;echo 'done';
echo "there are 271 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min IE=min;echo 'done';
echo "there are 270 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min IE=min;echo 'done';
echo "there are 269 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min IE=min;echo 'done';
echo "there are 268 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=min;echo 'done';
echo "there are 267 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min IE=min;echo 'done';
```

```
echo "there are 266 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=min;echo 'done';
echo "there are 265 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=min;echo 'done';
echo "there are 264 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=min;echo 'done';
echo "there are 263 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=min;echo 'done';
echo "there are 262 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min IE=min;echo 'done';
echo "there are 261 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min IE=min;echo 'done';
echo "there are 260 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min IE=min;echo 'done';
echo "there are 259 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min IE=min;echo 'done';
echo "there are 258 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=min;echo 'done';
echo "there are 257 more memories to test.";echo "tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min
IE=min ";tr 50 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min IE=min;echo 'done';
echo "there are 256 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=min ";tr
50 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=min;echo 'done';
echo "there are 255 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=min
";tr 50 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=min;echo 'done';
echo "there are 254 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=min
";tr 50 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=min;echo 'done';
echo "there are 253 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=min;echo 'done';
echo "there are 252 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=min;echo 'done';
echo "there are 251 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=min;echo 'done';
echo "there are 250 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=min;echo 'done';
echo "there are 249 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=min;echo 'done';
echo "there are 248 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=min;echo 'done';
echo "there are 247 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=min;echo 'done';
echo "there are 246 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=min;echo 'done';
echo "there are 245 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=min;echo 'done';
echo "there are 244 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min IE=min;echo 'done';
echo "there are 243 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min IE=min;echo 'done';
```

```
echo "there are 242 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=min;echo 'done';
echo "there are 241 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min IE=min;echo 'done';
echo "there are 240 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min IE=min;echo 'done';
echo "there are 239 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=min;echo 'done';
echo "there are 238 more memories to test.";echo "tr 50 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=min;echo 'done';
echo "there are 237 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=min ";tr
50 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=min;echo 'done';
echo "there are 236 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=min
";tr 50 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=min;echo 'done';
echo "there are 235 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=min
";tr 50 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=min;echo 'done';
echo "there are 234 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min IE=min;echo 'done';
echo "there are 233 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min IE=min;echo 'done';
echo "there are 232 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min IE=min;echo 'done';
echo "there are 231 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min IE=min;echo 'done';
echo "there are 230 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min IE=min;echo 'done';
echo "there are 229 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min IE=min;echo 'done';
echo "there are 228 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min IE=min;echo 'done';
echo "there are 227 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min IE=min;echo 'done';
echo "there are 226 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min IE=min;echo 'done';
echo "there are 225 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min IE=min;echo 'done';
echo "there are 224 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min IE=min;echo 'done';
echo "there are 223 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_RESUME_PORT IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_RESUME_PORT IS=min IE=min;echo 'done';
echo "there are 222 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min IE=min;echo 'done';
echo "there are 221 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min IE=min;echo 'done';
echo "there are 220 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min IE=min;echo 'done';
echo "there are 219 more memories to test.";echo "tr 50 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min
IE=min ";tr 50 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min IE=min;echo 'done';
```

```
echo "there are 218 more memories to test.";echo "tr 50 M=MMU_UCQDB0 IS=min IE=min ";tr 50
M=MMU_UCQDB0 IS=min IE=min;echo 'done';
echo "there are 217 more memories to test.";echo "tr 50 M=MMU_UCQDB1 IS=min IE=min ";tr 50
M=MMU_UCQDB1 IS=min IE=min;echo 'done';
echo "there are 216 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=min
";tr 50 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=min;echo 'done';
echo "there are 215 more memories to test.";echo "tr 50 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=min
";tr 50 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 214 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=min ";tr
50 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=min;echo 'done';
echo "there are 213 more memories to test.";echo "tr 50 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=min ";tr
50 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 212 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=min;echo 'done';
echo "there are 211 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 210 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=min;echo 'done';
echo "there are 209 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 208 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=min;echo 'done';
echo "there are 207 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 206 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=min;echo 'done';
echo "there are 205 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 204 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=min;echo 'done';
echo "there are 203 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 202 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=min;echo 'done';
echo "there are 201 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 200 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=min;echo 'done';
echo "there are 199 more memories to test.";echo "tr 50 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 198 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=min ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=min;echo 'done';
echo "there are 197 more memories to test.";echo "tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=min ";tr 50
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 196 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=min;echo 'done';
```

```
echo "there are 195 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 194 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=min;echo 'done';
echo "there are 193 more memories to test.";echo "tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE
IS=min IE=min ";tr 50 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 192 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=min;echo 'done';
echo "there are 191 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=min;echo 'done';
echo "there are 190 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=min;echo 'done';
echo "there are 189 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=min;echo 'done';
echo "there are 188 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=min;echo 'done';
echo "there are 187 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=min;echo 'done';
echo "there are 186 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=min;echo 'done';
echo "there are 185 more memories to test.";echo "tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=min ";tr 50
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=min;echo 'done';
echo "there are 184 more memories to test.";echo "tr 50 M=MODID_BASE_PTR IS=min IE=min ";tr 50
M=MODID_BASE_PTR IS=min IE=min;echo 'done';
echo "there are 183 more memories to test.";echo "tr 50 M=MODPORT_MAP_M0 IS=min IE=min ";tr 50
M=MODPORT_MAP_M0 IS=min IE=min;echo 'done';
echo "there are 182 more memories to test.";echo "tr 50 M=MODPORT_MAP_M1 IS=min IE=min ";tr 50
M=MODPORT_MAP_M1 IS=min IE=min;echo 'done';
echo "there are 181 more memories to test.";echo "tr 50 M=MODPORT_MAP_M2 IS=min IE=min ";tr 50
M=MODPORT_MAP_M2 IS=min IE=min;echo 'done';
echo "there are 180 more memories to test.";echo "tr 50 M=MODPORT_MAP_M3 IS=min IE=min ";tr 50
M=MODPORT_MAP_M3 IS=min IE=min;echo 'done';
echo "there are 179 more memories to test.";echo "tr 50 M=MODPORT_MAP_MIRROR IS=min IE=min ";tr 50
M=MODPORT_MAP_MIRROR IS=min IE=min;echo 'done';
echo "there are 178 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT IS=min IE=min ";tr 50
M=MODPORT_MAP_SUBPORT IS=min IE=min;echo 'done';
echo "there are 177 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=min ";tr
50 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=min;echo 'done';
echo "there are 176 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=min ";tr
50 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=min;echo 'done';
```

```
echo "there are 175 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=min ";tr
50 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=min;echo 'done';
echo "there are 174 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=min ";tr
50 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=min;echo 'done';
echo "there are 173 more memories to test.";echo "tr 50 M=MODPORT_MAP_SUBPORT_MIRROR IS=min
IE=min ";tr 50 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=min;echo 'done';
echo "there are 172 more memories to test.";echo "tr 50 M=MODPORT_MAP_SW IS=min IE=min ";tr 50
M=MODPORT_MAP_SW IS=min IE=min;echo 'done';
echo "there are 171 more memories to test.";echo "tr 50 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=min
";tr 50 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=min;echo 'done';
echo "there are 170 more memories to test.";echo "tr 50 M=MPLS_ENTRY IS=min IE=min ";tr 50
M=MPLS_ENTRY IS=min IE=min;echo 'done';
echo "there are 169 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=min
";tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=min;echo 'done';
echo "there are 168 more memories to test.";echo "tr 50 M=MY_STATION_TCAM IS=min IE=min ";tr 50
M=MY_STATION_TCAM IS=min IE=min;echo 'done';
echo "there are 167 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2 IS=min IE=min ";tr 50
M=MY_STATION_TCAM_2 IS=min IE=min;echo 'done';
echo "there are 166 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 165 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 164 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 163 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 162 more memories to test.";echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=min ";tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 161 more memories to test.";echo "tr 50 M=NUM_QCN_CNM_RECEIVED IS=min IE=min ";tr 50
M=NUM_QCN_CNM_RECEIVED IS=min IE=min;echo 'done';
echo "there are 160 more memories to test.";echo "tr 50 M=PFS_PACKET_TYPE_OFFSET IS=min IE=min ";tr 50
M=PFS_PACKET_TYPE_OFFSET IS=min IE=min;echo 'done';
echo "there are 159 more memories to test.";echo "tr 50 M=PHB2_COS_MAP IS=min IE=min ";tr 50
M=PHB2_COS_MAP IS=min IE=min;echo 'done';
echo "there are 158 more memories to test.";echo "tr 50 M=PORT_BRIDGE_BMAP IS=min IE=min ";tr 50
M=PORT_BRIDGE_BMAP IS=min IE=min;echo 'done';
echo "there are 157 more memories to test.";echo "tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=min ";tr
50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=min;echo 'done';
echo "there are 156 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE IS=min IE=min ";tr 50
M=PORT_CBL_TABLE IS=min IE=min;echo 'done';
echo "there are 155 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE_MODBASE IS=min IE=min ";tr
50 M=PORT_CBL_TABLE_MODBASE IS=min IE=min;echo 'done';
echo "there are 154 more memories to test.";echo "tr 50 M=PORT_LAG_FAILOVER_SET IS=min IE=min ";tr 50
M=PORT_LAG_FAILOVER_SET IS=min IE=min;echo 'done';
echo "there are 153 more memories to test.";echo "tr 50 M=PORT_TAB IS=min IE=min ";tr 50 M=PORT_TAB
IS=min IE=min;echo 'done';
echo "there are 152 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK0 IS=min IE=min ";tr 50
M=REPLICATION_FIFO_BANK0 IS=min IE=min;echo 'done';
```

```
echo "there are 151 more memories to test.";echo "tr 50 M=REPLICATION_FIFO_BANK1 IS=min IE=min ";tr 50
M=REPLICATION_FIFO_BANK1 IS=min IE=min;echo 'done';
echo "there are 150 more memories to test.";echo "tr 50 M=RH_ECMP_DROPS IS=min IE=min ";tr 50
M=RH_ECMP_DROPS IS=min IE=min;echo 'done';
echo "there are 149 more memories to test.";echo "tr 50 M=RH_ECMP_DROPS_X IS=min IE=min ";tr 50
M=RH_ECMP_DROPS_X IS=min IE=min;echo 'done';
echo "there are 148 more memories to test.";echo "tr 50 M=RH_ECMP_DROPS_Y IS=min IE=min ";tr 50
M=RH_ECMP_DROPS_Y IS=min IE=min;echo 'done';
echo "there are 147 more memories to test.";echo "tr 50 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=min ";tr 50 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=min;echo 'done';
echo "there are 146 more memories to test.";echo "tr 50 M=RH_ECMP_FLOWSET IS=min IE=min ";tr 50
M=RH_ECMP_FLOWSET IS=min IE=min;echo 'done';
echo "there are 145 more memories to test.";echo "tr 50 M=RH_HGT_DROPS IS=min IE=min ";tr 50
M=RH_HGT_DROPS IS=min IE=min;echo 'done';
echo "there are 144 more memories to test.";echo "tr 50 M=RH_HGT_DROPS_X IS=min IE=min ";tr 50
M=RH_HGT_DROPS_X IS=min IE=min;echo 'done';
echo "there are 143 more memories to test.";echo "tr 50 M=RH_HGT_DROPS_Y IS=min IE=min ";tr 50
M=RH_HGT_DROPS_Y IS=min IE=min;echo 'done';
echo "there are 142 more memories to test.";echo "tr 50 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=min ";tr 50 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=min;echo 'done';
echo "there are 141 more memories to test.";echo "tr 50 M=RH_HGT_FLOWSET IS=min IE=min ";tr 50
M=RH_HGT_FLOWSET IS=min IE=min;echo 'done';
echo "there are 140 more memories to test.";echo "tr 50 M=RH_HGT_GROUP_CONTROL IS=min IE=min ";tr 50
M=RH_HGT_GROUP_CONTROL IS=min IE=min;echo 'done';
echo "there are 139 more memories to test.";echo "tr 50 M=RH_LAG_DROPS IS=min IE=min ";tr 50
M=RH_LAG_DROPS IS=min IE=min;echo 'done';
echo "there are 138 more memories to test.";echo "tr 50 M=RH_LAG_DROPS_X IS=min IE=min ";tr 50
M=RH_LAG_DROPS_X IS=min IE=min;echo 'done';
echo "there are 137 more memories to test.";echo "tr 50 M=RH_LAG_DROPS_Y IS=min IE=min ";tr 50
M=RH_LAG_DROPS_Y IS=min IE=min;echo 'done';
echo "there are 136 more memories to test.";echo "tr 50 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=min ";tr 50 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=min;echo 'done';
echo "there are 135 more memories to test.";echo "tr 50 M=RH_LAG_FLOWSET IS=min IE=min ";tr 50
M=RH_LAG_FLOWSET IS=min IE=min;echo 'done';
echo "there are 134 more memories to test.";echo "tr 50 M=RQE_FREE_LIST IS=min IE=min ";tr 50
M=RQE_FREE_LIST IS=min IE=min;echo 'done';
echo "there are 133 more memories to test.";echo "tr 50 M=RQE_LINK_LIST IS=min IE=min ";tr 50
M=RQE_LINK_LIST IS=min IE=min;echo 'done';
echo "there are 132 more memories to test.";echo "tr 50 M=RTAG7_FLOW_BASED_HASH IS=min IE=min ";tr
50 M=RTAG7_FLOW_BASED_HASH IS=min IE=min;echo 'done';
echo "there are 131 more memories to test.";echo "tr 50 M=RTAG7_PORT_BASED_HASH IS=min IE=min ";tr 50
M=RTAG7_PORT_BASED_HASH IS=min IE=min;echo 'done';
echo "there are 130 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE IS=min IE=min ";tr 50
M=RX_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 129 more memories to test.";echo "tr 50 M=SERVICE_COS_MAP IS=min IE=min ";tr 50
M=SERVICE_COS_MAP IS=min IE=min;echo 'done';
echo "there are 128 more memories to test.";echo "tr 50 M=SERVICE_PORT_MAP IS=min IE=min ";tr 50
M=SERVICE_PORT_MAP IS=min IE=min;echo 'done';
```

```
echo "there are 127 more memories to test.";echo "tr 50 M=SERVICE_QUEUE_MAP IS=min IE=min ";tr 50
M=SERVICE_QUEUE_MAP IS=min IE=min;echo 'done';
echo "there are 126 more memories to test.";echo "tr 50 M=SER_MEMORY IS=min IE=min ";tr 50
M=SER_MEMORY IS=min IE=min;echo 'done';
echo "there are 125 more memories to test.";echo "tr 50 M=SER_RESULT_0 IS=min IE=min ";tr 50
M=SER_RESULT_0 IS=min IE=min;echo 'done';
echo "there are 124 more memories to test.";echo "tr 50 M=SER_RESULT_1 IS=min IE=min ";tr 50
M=SER_RESULT_1 IS=min IE=min;echo 'done';
echo "there are 123 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_0 IS=min IE=min ";tr 50
M=SER_RESULT_DATA_0 IS=min IE=min;echo 'done';
echo "there are 122 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_1 IS=min IE=min ";tr 50
M=SER_RESULT_DATA_1 IS=min IE=min;echo 'done';
echo "there are 121 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_0 IS=min IE=min ";tr 50
M=SER_RESULT_EXPECTED_0 IS=min IE=min;echo 'done';
echo "there are 120 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_1 IS=min IE=min ";tr 50
M=SER_RESULT_EXPECTED_1 IS=min IE=min;echo 'done';
echo "there are 119 more memories to test.";echo "tr 50 M=SGPP_TO_PIPE_MAPPING IS=min IE=min ";tr 50
M=SGPP_TO_PIPE_MAPPING IS=min IE=min;echo 'done';
echo "there are 118 more memories to test.";echo "tr 50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=min ";tr
50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=min;echo 'done';
echo "there are 117 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=min ";tr
50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 116 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=min
";tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=min;echo 'done';
echo "there are 115 more memories to test.";echo "tr 50 M=SOURCE_VP IS=min IE=min ";tr 50 M=SOURCE_VP
IS=min IE=min;echo 'done';
echo "there are 114 more memories to test.";echo "tr 50 M=SOURCE_VP_2 IS=min IE=min ";tr 50
M=SOURCE_VP_2 IS=min IE=min;echo 'done';
echo "there are 113 more memories to test.";echo "tr 50 M=SRC_MODID_EGRESS IS=min IE=min ";tr 50
M=SRC_MODID_EGRESS IS=min IE=min;echo 'done';
echo "there are 112 more memories to test.";echo "tr 50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=min ";tr
50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=min;echo 'done';
echo "there are 111 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP IS=min IE=min ";tr 50
M=SUBPORT_TAG_SGPP_MAP IS=min IE=min;echo 'done';
echo "there are 110 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=min ";tr 50 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 109 more memories to test.";echo "tr 50 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=min
";tr 50 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=min;echo 'done';
echo "there are 108 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE IS=min IE=min ";tr 50
M=SYSTEM_CONFIG_TABLE IS=min IE=min;echo 'done';
echo "there are 107 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=min ";tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=min;echo 'done';
echo "there are 106 more memories to test.";echo "tr 50 M=TCP_FN IS=min IE=min ";tr 50 M=TCP_FN IS=min
IE=min;echo 'done';
echo "there are 105 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_X IS=min IE=min ";tr 50
M=THDI_PORT_PG_BST_X IS=min IE=min;echo 'done';
echo "there are 104 more memories to test.";echo "tr 50 M=THDI_PORT_PG_BST_Y IS=min IE=min ";tr 50
M=THDI_PORT_PG_BST_Y IS=min IE=min;echo 'done';
```

```
echo "there are 103 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=min;echo 'done';
echo "there are 102 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=min;echo 'done';
echo "there are 101 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=min;echo 'done';
echo "there are 100 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=min;echo 'done';
echo "there are 99 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=min;echo 'done';
echo "there are 98 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=min;echo 'done';
echo "there are 97 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=min;echo 'done';
echo "there are 96 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=min ";tr
50 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=min;echo 'done';
echo "there are 95 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_X IS=min IE=min ";tr 50
M=THDI_PORT_PG_CONFIG_X IS=min IE=min;echo 'done';
echo "there are 94 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG_Y IS=min IE=min ";tr 50
M=THDI_PORT_PG_CONFIG_Y IS=min IE=min;echo 'done';
echo "there are 93 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_BST_X IS=min IE=min;echo 'done';
echo "there are 92 more memories to test.";echo "tr 50 M=THDI_PORT_SP_BST_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_BST_Y IS=min IE=min;echo 'done';
echo "there are 91 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=min;echo 'done';
echo "there are 90 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=min;echo 'done';
echo "there are 89 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=min;echo 'done';
echo "there are 88 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=min;echo 'done';
echo "there are 87 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG0_X IS=min IE=min;echo 'done';
echo "there are 86 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG0_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG0_Y IS=min IE=min;echo 'done';
echo "there are 85 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG1_X IS=min IE=min;echo 'done';
echo "there are 84 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG1_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG1_Y IS=min IE=min;echo 'done';
echo "there are 83 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG2_X IS=min IE=min;echo 'done';
echo "there are 82 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG2_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG2_Y IS=min IE=min;echo 'done';
echo "there are 81 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_X IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG_X IS=min IE=min;echo 'done';
echo "there are 80 more memories to test.";echo "tr 50 M=THDI_PORT_SP_CONFIG_Y IS=min IE=min ";tr 50
M=THDI_PORT_SP_CONFIG_Y IS=min IE=min;echo 'done';
```

```
echo "there are 79 more memories to test.";echo "tr 50 M=TOS_FN IS=min IE=min ";tr 50 M=TOS_FN IS=min
IE=min;echo 'done';
echo "there are 78 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS IS=min IE=min ";tr 50
M=TRILL_DROP_STATS IS=min IE=min;echo 'done';
echo "there are 77 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_X IS=min IE=min ";tr 50
M=TRILL_DROP_STATS_X IS=min IE=min;echo 'done';
echo "there are 76 more memories to test.";echo "tr 50 M=TRILL_DROP_STATS_Y IS=min IE=min ";tr 50
M=TRILL_DROP_STATS_Y IS=min IE=min;echo 'done';
echo "there are 75 more memories to test.";echo "tr 50 M=TRUNK_BITMAP IS=min IE=min ";tr 50
M=TRUNK_BITMAP IS=min IE=min;echo 'done';
echo "there are 74 more memories to test.";echo "tr 50 M=TRUNK_CBL_TABLE IS=min IE=min ";tr 50
M=TRUNK_CBL_TABLE IS=min IE=min;echo 'done';
echo "there are 73 more memories to test.";echo "tr 50 M=TRUNK_GROUP IS=min IE=min ";tr 50
M=TRUNK_GROUP IS=min IE=min;echo 'done';
echo "there are 72 more memories to test.";echo "tr 50 M=TRUNK_MEMBER IS=min IE=min ";tr 50
M=TRUNK_MEMBER IS=min IE=min;echo 'done';
echo "there are 71 more memories to test.";echo "tr 50 M=TTL_FN IS=min IE=min ";tr 50 M=TTL_FN IS=min
IE=min;echo 'done';
echo "there are 70 more memories to test.";echo "tr 50 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=min
";tr 50 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 69 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=min ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=min;echo 'done';
echo "there are 68 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=min ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=min;echo 'done';
echo "there are 67 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET IS=min IE=min ";tr 50
M=FP_UDF_OFFSET IS=min IE=min;echo 'done';
echo "there are 66 more memories to test.";echo "tr 50 M=FP_UDF_TCAM IS=min IE=min ";tr 50
M=FP_UDF_TCAM IS=min IE=min;echo 'done';
echo "there are 65 more memories to test.";echo "tr 50 M=UNKNOWN_HGI_BITMAP IS=min IE=min ";tr 50
M=UNKNOWN_HGI_BITMAP IS=min IE=min;echo 'done';
echo "there are 64 more memories to test.";echo "tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 63 more memories to test.";echo "tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 62 more memories to test.";echo "tr 50 M=VFI IS=min IE=min ";tr 50 M=VFI IS=min IE=min;echo
'done';
echo "there are 61 more memories to test.";echo "tr 50 M=VFI_1 IS=min IE=min ";tr 50 M=VFI_1 IS=min
IE=min;echo 'done';
echo "there are 60 more memories to test.";echo "tr 50 M=VFI_PROFILE IS=min IE=min ";tr 50
M=VFI_PROFILE IS=min IE=min;echo 'done';
echo "there are 59 more memories to test.";echo "tr 50 M=VFI_PROFILE_2 IS=min IE=min ";tr 50
M=VFI_PROFILE_2 IS=min IE=min;echo 'done';
echo "there are 58 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=min
";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=min;echo 'done';
echo "there are 57 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=min
";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=min;echo 'done';
echo "there are 56 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE IS=min IE=min ";tr 50
M=VFP_POLICY_TABLE IS=min IE=min;echo 'done';
```

```
echo "there are 55 more memories to test.";echo "tr 50 M=VFP_TCAM IS=min IE=min ";tr 50 M=VFP_TCAM
IS=min IE=min;echo 'done';
echo "there are 54 more memories to test.";echo "tr 50 M=VLAN_TAB IS=min IE=min ";tr 50 M=VLAN_TAB
IS=min IE=min;echo 'done';
echo "there are 53 more memories to test.";echo "tr 50 M=VLAN_MAC IS=min IE=min ";tr 50 M=VLAN_MAC
IS=min IE=min;echo 'done';
echo "there are 52 more memories to test.";echo "tr 50 M=VLAN_MPLS IS=min IE=min ";tr 50 M=VLAN_MPLS
IS=min IE=min;echo 'done';
echo "there are 51 more memories to test.";echo "tr 50 M=VLAN_PROFILE_TAB IS=min IE=min ";tr 50
M=VLAN_PROFILE_TAB IS=min IE=min;echo 'done';
echo "there are 50 more memories to test.";echo "tr 50 M=VLAN_PROFILE_2 IS=min IE=min ";tr 50
M=VLAN_PROFILE_2 IS=min IE=min;echo 'done';
echo "there are 49 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL IS=min IE=min ";tr 50
M=VLAN_PROTOCOL IS=min IE=min;echo 'done';
echo "there are 48 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=min ";tr 50
M=VLAN_PROTOCOL_DATA IS=min IE=min;echo 'done';
echo "there are 47 more memories to test.";echo "tr 50 M=STG_TAB IS=min IE=min ";tr 50 M=STG_TAB IS=min
IE=min;echo 'done';
echo "there are 46 more memories to test.";echo "tr 50 M=VLAN_SUBNET IS=min IE=min ";tr 50
M=VLAN_SUBNET IS=min IE=min;echo 'done';
echo "there are 45 more memories to test.";echo "tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=min ";tr 50
M=VLAN_SUBNET_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 44 more memories to test.";echo "tr 50 M=VLAN_SUBNET_ONLY IS=min IE=min ";tr 50
M=VLAN_SUBNET_ONLY IS=min IE=min;echo 'done';
echo "there are 43 more memories to test.";echo "tr 50 M=VLAN_XLATE IS=min IE=min ";tr 50
M=VLAN_XLATE IS=min IE=min;echo 'done';
echo "there are 42 more memories to test.";echo "tr 50 M=VLAN_XLATE_ECC IS=min IE=min ";tr 50
M=VLAN_XLATE_ECC IS=min IE=min;echo 'done';
echo "there are 41 more memories to test.";echo "tr 50 M=VLAN_XLATE_LP IS=min IE=min ";tr 50
M=VLAN_XLATE_LP IS=min IE=min;echo 'done';
echo "there are 40 more memories to test.";echo "tr 50 M=VOQ_COS_MAP IS=min IE=min ";tr 50
M=VOQ_COS_MAP IS=min IE=min;echo 'done';
echo "there are 39 more memories to test.";echo "tr 50 M=VOQ_MOD_MAP IS=min IE=min ";tr 50
M=VOQ_MOD_MAP IS=min IE=min;echo 'done';
echo "there are 38 more memories to test.";echo "tr 50 M=VOQ_PORT_MAP IS=min IE=min ";tr 50
M=VOQ_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 37 more memories to test.";echo "tr 50 M=VRF IS=min IE=min ";tr 50 M=VRF IS=min
IE=min;echo 'done';
#echo "there are 36 more memories to test.";echo "tr 50 M=XLPORT_WC_UCMEM_DATA IS=min IE=min ";tr
50 M=XLPORT_WC_UCMEM_DATA IS=min IE=min;echo 'done';
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 35  more memories to test.';echo 'tr 50  M=EDB_1DBG_B IS=min IE=min';tr 50
M=EDB_1DBG_B IS=min IE=min; echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=min';tr 50 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min
IE=min';tr 50 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=min';tr
```

```
50 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 50  M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=min';tr
50 M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=min';tr 50 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min
IE=min';tr 50 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 28  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=min';tr
50 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 27  more memories to test.';echo 'tr 50  M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=min';tr
50 M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 26  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
IE=min';tr 50 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 25  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min
IE=min';tr 50 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 24  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=min';tr
50 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=min; echo 'done';
#echo 'there are 23  more memories to test.';echo 'tr 50  M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=min';tr
50 M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=min; echo 'done';
#echo 'there are 22  more memories to test.';echo 'tr 50  M=ING_SERVICE_PRI_MAP IS=min IE=min';tr 50
M=ING_SERVICE_PRI_MAP IS=min IE=min; echo 'done';
#echo 'there are 21  more memories to test.';echo 'tr 50  M=LINK_STATUS IS=min IE=min';tr 50
M=LINK_STATUS IS=min IE=min; echo 'done';
#echo 'there are 20  more memories to test.';echo 'tr 50  M=LMEP IS=min IE=min';tr 50 M=LMEP IS=min IE=min;
echo 'done';
#echo 'there are 19  more memories to test.';echo 'tr 50  M=LMEP_DA IS=min IE=min';tr 50 M=LMEP_DA
IS=min IE=min; echo 'done';
#echo 'there are 18  more memories to test.';echo 'tr 50  M=MAID_REDUCTION IS=min IE=min';tr 50
M=MAID_REDUCTION IS=min IE=min; echo 'done';
#echo 'there are 17  more memories to test.';echo 'tr 50  M=MA_INDEX IS=min IE=min';tr 50 M=MA_INDEX
IS=min IE=min; echo 'done';
#echo 'there are 16  more memories to test.';echo 'tr 50  M=MA_STATE IS=min IE=min';tr 50 M=MA_STATE
IS=min IE=min; echo 'done';
#echo 'there are 15  more memories to test.';echo 'tr 50  M=OAM_LM_COUNTERS IS=min IE=min';tr 50
M=OAM_LM_COUNTERS IS=min IE=min; echo 'done';
#echo 'there are 14  more memories to test.';echo 'tr 50  M=OAM_OPCODE_CONTROL_PROFILE IS=min
IE=min';tr 50 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=min; echo 'done';
#echo 'there are 13  more memories to test.';echo 'tr 50  M=RMEP IS=min IE=min';tr 50 M=RMEP IS=min IE=min;
echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 12 more memories to test.';echo 'tr 50 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=min';tr
50 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=min;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES IS=min IE=min';tr 50
M=EGR_MAX_USED_ENTRIES IS=min IE=min;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES_X IS=min IE=min';tr 50
M=EGR_MAX_USED_ENTRIES_X IS=min IE=min;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES_Y IS=min IE=min';tr 50
M=EGR_MAX_USED_ENTRIES_Y IS=min IE=min;echo 'done';
```

#echo 'there are 8 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS IS=min IE=min';tr 50 M=EGR_MMU_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS_X IS=min IE=min';tr 50 M=EGR_MMU_REQUESTS_X IS=min IE=min;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS_Y IS=min IE=min';tr 50 M=EGR_MMU_REQUESTS_Y IS=min IE=min;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS IS=min IE=min';tr 50 M=EGR_PORT_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS_X IS=min IE=min';tr 50 M=EGR_PORT_REQUESTS_X IS=min IE=min;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS_Y IS=min IE=min';tr 50 M=EGR_PORT_REQUESTS_Y IS=min IE=min;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=min;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 IS=min IE=min';tr 50 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 IS=min IE=min;echo 'done';

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr50_bcm56860_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cyclic_buffer.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SHARED CYCLIC BUFFER
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/cyclic_buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.h,v 1.1 2013/12/02 03:56:10 kevinwu Exp $
* $Copyright: (c) 2013 Broadcom Corp.
* All Rights Reserved.$
*
* File:    flashDrvLib.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/flashDrvLib.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_fap_vlan_translation.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_fap_vlan_translation.c
* Purpose: Example for utilizing the VLAN Translation APIs
*
* A VLAN action modifies the VLAN tag(s) attributes of the packet according to the packet
* VLAN tag structure. You can configure the default VLAN action for all ports at ingress
* and at egress. A lookup key with the Port-Class and the Packet VLAN(s) is built afterwards.
* If found, the keys lookup retrieves a VLAN action. This VLAN action is applied to the packet,
* and the default VLAN action is not.
*
* CINT usage:
*  -   Modifies the port class of the port
*  -   At ingress (and then at egress), sets the default VLAN action and then provides an
*      example of lookup entry. The entry is for double-tagged lookups.
*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_fap_vlan_translation.c
*      BCM> cint
*      cint> run();
* 1.  run();
*     Initalize basic vlan briding and basic vlan translation case
*     Traffics
*         ? port_3, (0x8100,2)  --> port_1, (0x9100,3,0x8100,2)
* 2. vlan_translation_run_1(unit, 10, 20, 30);
*     vlan translation case 1 for s_tag at ingress rx-pp and c_tag at egress rx-pp
*     Traffics
*         ? port_3, (0x8100,3) --> port_1, (0x8100,20,0x9100,30)
* OR
* vlan_translation_run_2(unit, 10, 20);
*     vlan translation case 2 for s_tag at ingress rx-pp and s_tag at egress rx-pp
*     Traffics
*         ? port_3, (0x8100,3) --> port_1, (0x8100,10,0x9100,20)
* OR
* vlan_translation_run_3(unit, 10, 20);
*     vlan translation case 3 for s_tag at ingress rx-pp and untag at egress rx-pp
*     Traffics
*         ? port_3, (0x8100,3) --> port_1, (0x8100,10,0x9100,20)
* AND
* vlan_translation_stop(unit, 3, 3);
*     to remove vlan translations on vlan 3 that were configured by vlan_translation_run_1/2/3
*
* OR
```

```
* vlan_translation_run_4(0unit 10, 20, 30);
*     vlan translation case 4 for s_c_tag at ingress rx-pp and s_tag at egress rx-pp
*     Traffics
*         ? port_3, (0x8100,3,0x9100,10) --> port_1, (0x8100,20,0x9100,30)
* OR
* vlan_translation_run_5(unit, 10, 20, 30);
*     vlan translation case 5 for s_c_tag at ingress rx-pp and c_tag at egress rx-pp
*     Traffics
*         ? port_3, (0x8100,3,0x9100,10) --> port_1, (0x8100,20,0x9100,30)
* OR
* vlan_translation_run_6(unit, 10, 20, 20);
*     vlan translation case 6 for s_c_tag at ingress rx-pp and s_c_c_tag at egress
*     Traffics
*         ? port_3, (0x8100,3,0x9100,10) --> port_1, (0x8100,20,0x9100,20,0x9100,10)
* OR
* vlan_translation_run_7(unit, 10, 20, 30);
*     vlan translation case 7 for s_c_tag at ingress rx-pp and s_c_tag at egress rx_pp
*     Traffics
*         ? port_3, (0x8100,3,0x9100,10) --> port_1, (0x8100,20,0x9100,30,0x9100,10)
* AND
* vlan_translation_stop_1(unit, 3, 10);
*     to remove vlan translations on AC (3,10) that were configured by vlan_translation_run_4/5/6/7
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fap_vlan_translation.c
No license file was found, but licenses were detected in source scan.

```
/*

* $Id: fabric.c,v 1.96 Broadcom SDK $

*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.h,v 1.5 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE PORT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN WB
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_wb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_oam.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_oam.c
* Purpose: Maintains all the debug information for mmu
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/oam/trident2_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* NIV initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memscan.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Error Scan
*
* This is an optional module that can be used to detect and correct
* memory errors in certain static hardware memories (tables).
*
* Additional CPU time is required to do the scanning.  Table DMA is
* used to reduce this overhead.  The application may choose the overall
* scan rate in entries/sec.
*
* There is also a requirement of additional memory needed to store
* backing caches of the chip memories.  The backing caches are the same
* ones used by the soc_mem_cache() mechanism.  Note that enabling the
* memory cache for frequently updates tables can have significant
* performance benefits.
*
* When the memory scanning thread is enabled, it simply scans all
* memories for which caching is enabled, because these static memories
* are the ones amenable to software error scanning.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/memscan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_12x10g_1xhg127.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_12x10g_1xhg127.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_1xil100_1xhg127.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sync.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/sync.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$Id: state.h,v 1.13 Broadcom SDK $
* All Rights Reserved.$
*
* File:       state.h
* Purpose:    Single point of reference for all BCM state of a unit.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/state.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bradley.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bradley.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/bradley.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ingress_packet_queuing.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_ingress_packet_queuing.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/failover.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: regex_api.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/regex_api.h
No license file was found, but licenses were detected in source scan.

```
/*
  Copyright 2001, Broadcom Corporation
  All Rights Reserved.

  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
  the contents of this file may not be disclosed to third parties, copied or
  duplicated in any form, in whole or in part, without the prior written
  permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bcmutils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/et_vx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmutils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/et_vx.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bcmutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: caladan3_dispatch.h
* Purpose: caladan3 driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/caladan3_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_tmcapi_reg_access.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_reg_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVlanMem.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibVlanMem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_red.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbx_red.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_drv.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_ocb_dram_buffers.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_drv.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_intr.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeMaxBurstEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeMaxBurstEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: mde_agent_msg.h,v 1.5 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:      mde_agent_msg.h
*
* Purpose:   MDE Agent
*
*           Message related defines shared between the MDE Agent and the MDE
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mde_agent_msg.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: falcon2_dino_interface.h 1356 2016-02-12 23:27:16Z cvazquez $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon2_dino/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
```

Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* falcon2_dino_interface.h - provides the primary functionality.
*
* falcon2_dino_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_interface.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppa_api.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_ppa_api.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: tcam.h,v 1.19.54.2 Broadcom SDK $
*
* TAPS internal tcam defines/interfaces
*
----------/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/tcam.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: trie_v6.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: trie_v6.c
* Purpose: Custom Trie Data structure
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/trie_v6.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Notes on Copper/Fiber Combination Ports
Curt McDowell, Broadcom Corp. 11-27-02
Last Updated: 02-18-04
---

1) Combination Ports

Combination (combo) ports are those which support more than one medium type, such as copper and fiber, on the same switch port. Of course, only one medium type may be active at a time because they share the same switch port.

1.1) PHYs Supporting Combo Ports

The BCM5421S, BCM5461S and BCM5464S are PHYs which support copper/fiber combo ports. Boards using these PHYs can be built with gigabit ports that simultaneously have an RJ45 and fiber module, or an RJ45 and a GBIC.

These PHYs also support automatic detection of signal/energy on each medium. A user can plug or unplug either medium type and the PHY (and software driver) can automatically switch the medium type. In case both medium types are active, one medium is selected based on a configurable priority, the default being fiber.

1.2) Automatic Medium Selection

Automatic medium selection is optional. Ports may also be forced to one mode or the other by the application using the API calls to disable the inactive medium (this enable value is provided in the bcm_phy_config_t structure as discussed later).

If only the copper side is plugged in, the combo port driver will detect it and link up copper.

If only the fiber side is plugged in, the combo port driver will detect it and link up fiber.

If both sides are plugged in, only the medium that is configured as the 'preferred medium' (see below) will link up.

If fiber is the preferred medium and linked up, then plugging and unplugging the copper side will not have any effect on the fiber side.

If copper is the preferred medium and linked up, then plugging and unplugging the fiber side will not have any effect on the copper side.

1.3) Port Signal/Energy Detect Considerations

It is important to note that certain situations may result in link behavior that does not seem intuitive, but is unavoidable. These cases are discussed individually below.

1.3.1) Auto Medium with Fiber Preferred

In Auto Medium mode with Fiber Preferred, when fiber link is active the copper TX is powered down to prevent false link on copper remote link partner.

When the fiber link is inactive, both fiber and copper TX are enabled to permit selection of interface that has receive energy. This allows connection between two Auto Medium combo ports. Medium selection is based on receive energy, and the link partner TX provides this. To enable an Auto Medium combo port to connect properly to another Auto Medium combo port, the TX energy to the remote link must be active.

Fiber TX energy is always active to permit an Auto Medium combo port to connect to another Auto Medium combo port.

1.3.2) Auto Medium with Copper Preferred

In Auto Medium mode with Copper Preferred, when the copper link is active the fiber autonegotiation is not active. This prevents false link on the fiber remote link partner. However, the fiber TX may provide energy to remote link partner and result in false link if

autonegotiation is disabled on remote link partner.

When the copper link is inactive, both fiber and copper TX are enabled to permit selection of interface that has receive energy. The BCM5464 will be in pass-through mode to permit fiber interface to perform autonegotiation. This allows connection between two Auto Medium combo ports. Medium selection is based on receive energy, and the link partner TX provides this. To enable an Auto Medium combo port to connect properly to another Auto Medium combo port, the TX from the remote partner should be active.

Copper TX energy is always active to permit an Auto Medium combo port to connect to another Auto Medium combo port.

1.3.3) Copper Forced Mode

In this mode the fiber interface should be inactive. However, a fiber link partner with autonegotiation disabled may still see link up due to energy provided by the fiber interface.

1.3.4) Fiber forced mode.

In this mode, only the fiber interface is active. The copper TX is powered down to prevent false link up on copper link partner.

2) Control Properties

The soc_property mechanism is used to make certain driver configurations related to the combo ports. Please see the sal_config_set()/get() APIs and the $SDK/rc/config.bcm configuration file.

As with all port-based properties, the property name can be suffixed with an underscore and a port number. If it is, the property will only apply to a single port. The suffixes are:

_feX	Zero-based FE port number X
_geX	Zero-based GE port number X
_xeX	Zero-based 10-GE port number X
_hgX	Zero-based Higig port number X
_portY	One-based switch port number Y (any port type)

Also as with all port-based properties, the property name can be suffixed with a period (.) and a SOC unit (device) number. If it is, the property will only apply to that specific unit. The unit number suffix, if any, must come after the port suffix. See below for examples.

2.1) General

2.1.1) phy_5690

If a port is wired directly from a BCM5690 to a fiber module and there is no external PHY, no property setting is needed. The code in phyident.c will detect that there is no external PHY and automatically default to direct-attached fiber.

However, on the 24-port 5690 SDK boards there is a 5434 or 5464 PHY and there is a resistor stuffing option that can be used to bypass the PHY or not. Please refer to the SDK user guide and schematics for more information.

Even if the PHY is bypassed, it is still present on the MDIO bus and the software will be fooled into trying to use it. To get around this, set the following property so that the probing procedure in phyident.c will ignore the PHY detected on the MII bus and assume a direct connection from BCM5690 to the fiber module:

```
phy_5690_ge10=1
phy_5690_ge11=1
```

2.1.2) phy_automedium

If the PHY is to be used in automatic medium selection mode, the following properties should be used (example assumes a 5690 with three attached 5464s):

```
phy_automedium_ge8.1=0
phy_automedium_ge9.1=0
phy_automedium_ge10.1=1
phy_automedium_ge11.1=1
```

For 5464, the default is off (0). See phy_5464S property.
For 5464S, the default is on (1). See phy_5464S property.

2.1.3) phy_fiber_pref

If the PHY is used in automatic medium selection mode, then the priority medium is selected to be fiber or copper by setting the phy_fiber_pref property.

If the PHY is NOT used in automatic medium selection mode, then this property indicates the fixed fiber or copper operation mode of the PHY (example assumes a 5690 with three attached 5464s):

```
phy_fiber_pref_ge8.1=0
phy_fiber_pref_ge9.1=0
```

phy_fiber_pref_ge10.1=1
phy_fiber_pref_ge11.1=1

For 5464, the default is copper (0). See phy_5464S property.
For 5464S, the default is fiber (1). See phy_5464S property.

2.1.4) if_tbi

This property applies to any PHY used in TBI mode. The BCM5421S may be used in TBI + fiber mode but not TBI + copper mode. See comments in the PHY driver for more information (example assumes a 5645 with two attached 5421s):

if_tbi_ge0.0=1 (Or if_tbi_port25.0=1)
if_tbi_ge1.0=1 (Or if_tbi_port26.0=1)

TBI is a deprecated mode and GMII should be used instead.

2.2) BCM5464S

The following properties apply specifically to BCM5464S.

2.2.1) phy_5464S

If the PHY is a BCM5464S, then this property must be set. This is because 5464 and 5464S have the same PHY ID and the software can not determine the chip type from the PHY ID alone. For example, if ports 9 through 12 on unit 1 are 5464S, the properties should be set as:

phy_5464S_ge8.1=1
phy_5464S_ge9.1=1
phy_5464S_ge10.1=1
phy_5464S_ge11.1=1

It is necessary to declare all four ports of a Quad PHY as 5464S so that the errata workarounds execute correctly for certain revisions. If 5464S is being used for copper only, this property is actually unnecessary since 5464S is a superset of 5464. Automedium must be disabled for 5464/5464S to work as copper-only, otherwise a floating fiber-detect input pin could cause the port to switch to fiber mode.

2.3) BCM5421S

The following properties apply specifically to BCM5421S.

2.3.1) phy_fiber_deglitch_usecs

Some problematic GBICs may cause a brief fiber energy detect signal when

inserted, even without a link. If fiber is the preferred medium, this could cause the copper link to be dropped temporarily.

For ports with this issue, an energy detect de-glitch is provided. The property phy_fiber_deglitch_usecs may be set to the de-glitch time in usec. The PHY driver ignores transitions of the Energy Detect signal from false to true unless they are present for at least the number of microseconds specified by this property.

```
phy_fiber_deglitch_usecs_ge0=2000000
phy_fiber_deglitch_usecs_ge1=2000000
```

2.4) Recommended settings

2.4.1) 24-port 5690 SDK with Fiber-Direct resistors

On these boards, unit 1 can be configured so the last two ports of the last quad-PHY (ports 11 and 12) bypass the 5434/5464 PHY device.

In this configuration, the settings are

```
phy_5690_ge10.1=1
phy_5690_ge11.1=1
```

In this case the 5434/5464 drivers are not used for those ports and the internal SERDES driver (phy5690) is used instead.

2.4.2) 24-port 5690 SDK with all ports copper 5434 or 5464

In this configuration, no settings are necessary. The default will be copper on all ports.

2.4.3) 24-port 5690 SDK with ports 23 and 24 as 5464 combo ports

If the boards are configured without Fiber-Direct (as above) then the last two ports of the last quad PHY may be used as forced copper or fiber, or automedium detection.

2.4.3.1) Forced Copper or Fiber

The phy_5464S property needs to be set to tell the driver that the last quad PHY is a 5464S. However, the first two quad PHYs can be left as 5464 even if they are 5464S without causing any problem. This is because the 5464 is a subset of the 5464S. Also, if they are not left as 5464 you would have to set phy_automedium and phy_fiber_pref properties explicitly for them.

It is necessary to declare all four ports of a Quad PHY as 5464S so that

the errata workarounds execute correctly.

```
phy_5464S_ge8.1=1
phy_5464S_ge9.1=1
phy_5464S_ge10.1=1
phy_5464S_ge11.1=1

phy_automedium_ge8.1=0
phy_automedium_ge9.1=0
phy_automedium_ge10.1=0
phy_automedium_ge11.1=0

phy_fiber_pref_ge8.1=0
phy_fiber_pref_ge9.1=0

phy_fiber_pref_ge10.1=0 # Use this for forced copper
phy_fiber_pref_ge10.1=1 # Use this for forced fiber

phy_fiber_pref_ge11.1=0 # Use this for forced copper
phy_fiber_pref_ge11.1=1 # Use this for forced fiber
```

2.4.3.2) Automatic Medium Selection

Note that automedium actually defaults to 1 for 5464S, so it must be explicitly turned off for ports 9 and 10. In automedium mode, the phy_fiber_pref property determines which medium to use if BOTH media are active.

```
phy_5464S_ge8.1=1
phy_5464S_ge9.1=1
phy_5464S_ge10.1=1
phy_5464S_ge11.1=1

phy_automedium_ge8.1=0
phy_automedium_ge9.1=0
phy_automedium_ge10.1=1
phy_automedium_ge11.1=1

phy_fiber_pref_ge10.1=0 # Use this to prefer copper
phy_fiber_pref_ge10.1=1 # Use this to prefer fiber (default)

phy_fiber_pref_ge11.1=0 # Use this to prefer copper
phy_fiber_pref_ge11.1=1 # Use this to prefer fiber (default)
```

3) Medium Configuration Parameters

Medium Configuration Parameters include:

```
enable            PHY enable state
preferred          True if the medium is the preferred one
autoneg_enable      Autoneg enable state
autoneg_advert      Advertisement values for when autoneg is enabled
force_speed         Forced speed for when autoneg is disabled
force_duplex        Forced duplex for when autoneg is disabled
master            Master/slave mode for 1000TX
mdix              Auto-MDIX setting
```

These configuration parameters are kept in a bcm_phy_config_t structure (same as soc_phy_config_t at the SOC layer).

Combo PHY drivers keep one set of configuration parameters per medium type. When the PHY callouts, and correspondingly the bcm_port API calls, are used on the combo port, only the set of parameters for the active medium are updated.

Whenever the medium type changes, the driver's link_get routine restores the set of parameters corresponding to the new media type.

Each combo PHY driver has a medium_config_set/get routine. The BCM API calls bcm_port_medium_config_set()/get() API calls can be used to retrieve, modify, and write back this set of parameters, on a per-medium-type basis.

It is not necessary to deal with the parameters for multiple medium types if not desired. Instead, a medium change callback can be installed using the bcm_port_medium_status_register()/unregister() API calls to be notified of a change in medium type. The callback occurs after the saved parameters are restored to the PHY, hence the user's callback routine may overwrite any of the parameters if any changes are needed.

4) Diagnostics 'combo' command

The 'combo' command reveals the bcm_port_medium_config_set()/get() API calls (see below for more detail) to the diagnostics command shell. The command allows access to the parameter set that is maintained for each media type. Parameters can be viewed and updated, even for the media which are not currently active. The combo command also shows the currently-active medium type.

```
Usage (COMBO): Parameters: <ports> [copper|fiber [<option>=<value>]]
    Display or update operating parameters of copper/fiber combo PHY.
    Note: the 'port' command operates on the currently active medium.
    Example: combo ge1 fiber autoneg_enable=1 autoneg_advert=1000,pause
```

4.1) Displaying the combo port medium configuration

For example, on a dual-BCM5690 combo SDK, the 23rd and 24th front panel ports are combo ports. These correspond to 5690 unit 1, ports 11 and 12 (numbering from 1). Thus, the following command displays the settings for the 23rd front panel port:

```
BCM.1> combo 11
Port 11 BCM5464:
   Copper:
      enable=1 preferred=0 force_speed=1000 force_duplex=1
      autoneg_enable=1 autoneg_advert=100,10,pause(0xc0f) master=Auto
  *Fiber:
      enable=1 preferred=1 force_speed=1000 force_duplex=1
      autoneg_enable=1 autoneg_advert=1000full,pause(0xc20) master=None
```

Here, the fiber connection shows as currently active.

The command "combo 11 fiber" displays only the fiber information for the same port while the command "combo 11 copper" displays only the copper information, for example:

```
BCM.1> combo 11 fiber
Port 11 BCM5464:
  *Fiber:
      enable=1 preferred=1 force_speed=1000 force_duplex=1
      autoneg_enable=1 autoneg_advert=1000full,pause(0xc20) master=None
```

4.2) Changing the combo port medium configuration

When the 'port' command is used to modify a port parameter, the medium parameters corresponding to the active medium are updated.

When the parameters for the active medium are changed using the 'combo' command, they are immediately reflected in the PHY (possibly causing a link down and re-autonegotiation).

If the parameters are changed for an inactive medium, they will not take effect until that medium becomes active. The 'combo' command is the only way to change parameters for an inactive medium.

Any of the parameters shown in the combo port status display can be changed simply by specifying the changes on the command line as "parameter=value", for example:

```
BCM.1> combo 11-12 fiber autoneg_enable=0
BCM.1> combo 11-12 copper autoneg_enable=1 autoneg_advert=1000full,pause
BCM.1> combo 11-12 copper autoneg_enable=1 autoneg_advert=100,10
BCM.1> combo 11-12 copper preferred=1; combo 11-12 fiber preferred=0
```

When setting the autoneg advertisement the port mode is parsed from the following list:

String	soc_port_mode_t	Equivalent string
full	SOC_PM_FD	1000full,100full,10full
half	SOC_PM_HD	1000half,100half,10half
1000	SOC_PM_1000MB	1000full,1000half
1000full	SOC_PM_1000MB_FD	1000full
1000half	SOC_PM_1000MB_HD	1000half
100	SOC_PM_100MB	100full,100half
100full	SOC_PM_100MB_FD	100full
100half	SOC_PM_100MB_HD	100half
10	SOC_PM_10MB	10full,10half
10full	SOC_PM_10MB_FD	10full
10half	SOC_PM_10MB_HD	10half
pause	SOC_PM_PAUSE	pause_tx,pause_rx
pause_tx	SOC_PM_PAUSE_TX	pause_tx
pause_rx	SOC_PM_PAUSE_RX	pause_rx

5) Using the PHY drivers

5.1) Debug Messages

To save space, the phy5421S.c and phy5464.c drivers incorporate debug messages into the binary only if compiled with

```
#define DPRINTF_ENABLE          1
```

This is the default. If debug messages are compiled in, they will display only when DK_PHY is enabled (from the BCM command line: "debug +phy").

Additional debugging information is displayed when DK_VERBOSE is enabled. Generally, this is the information from routines which are called on every iteration of linkscan, such as the link_get and media_check routines. This can result in a lot of output. It may be useful to run linkscan at a slow rate (such as "linkscan interval=5000000" for every 5 seconds).

5.2) Medium control functions

BCM API support for multiple media types is available in releases SDK 4.2.3 and later although this informational file was not updated in SDK 4.2.3.

5.2.1) Medium types

The medium types are enumerated as bcm_port_medium_t:

```
BCM_PORT_MEDIUM_NONE
BCM_PORT_MEDIUM_COPPER
BCM_PORT_MEDIUM_FIBER
```

5.2.2) Medium Status Retrieval

The routine to determine whether the current port is currently operating in fiber or copper mode is:

```
int bcm_port_medium_get(int unit,
                        bcm_port_t port,
                        bcm_port_medium_t *medium);
```

The current medium is also available in the bcm_port_info_t structure that is retrieved by bcm_port_info_get()-type API calls.

The current medium is also available on each link up event, in the bcm_port_info_t structure that is passed to callback routines registered with the linkscan task via bcm_linkscan_register().

5.2.3) Medium Configuration Retrieval

The medium configuration parameters for a specified port and medium type may be retrieved all at once using the following API routine:

```
int bcm_port_medium_config_get(int unit,
                               bcm_port_t port,
                               bcm_port_medium_t medium,
                               bcm_phy_config_t *config);
```

Please see the if_combo() routine in diag/if.c for example usage.

5.2.4) Medium Configuration Update

The medium configuration parameters for a specified port and medium type may be updated all at once using the following API routine:

```
int bcm_port_medium_config_set(int unit,
                               bcm_port_t port,
                               bcm_port_medium_t medium,
                               bcm_phy_config_t *config);
```

For best operation, it is recommended that the caller use bcm_port_medium_config_get(), then update the required fields in the configuration structure, then use bcm_port_medium_config_set().

This API will update the parameters for a specified medium even if the medium is not active. If the active medium is updated, the changes will take effect immediately, which may cause autonegotiation to restart.

Please see the if_combo() routine in diag/if.c for example usage.

5.2.5) Medium Status Change Callback

A callback is available for when the active medium type changes. Whenever the active medium type changes, the configuration parameters for the new medium type are written to the PHY, and then the callback (if any) is made.

If desired, this callback could be used to reprogram port parameters (via the bcm_port API) and potentially override the values written by from the medium configuration structure. In fact, the entire concept of multiple sets of parameters per medium could be ignored, although we do not prefer that be done. The problem is that a medium may link up after the medium change, but before the application is notified via callback. Then link may go back down and up when the application adjusts the parameters.

The type for the callback routine is:

```
typedef void (*bcm_port_medium_status_cb_t)
        (int unit,
         bcm_port_t port,
         bcm_port_medium_t medium,
         void *user_arg);

extern int bcm_port_medium_status_unregister(
  int                        unit,
  bcm_port_t                 port,
  bcm_port_medium_status_cb_t  callback,
  void                       *user_data);
```

The routine to register a callback function is:

```
int bcm_port_medium_status_register
        (int unit,
         bcm_port_t port,
         bcm_port_medium_status_cb_t callback,
         void *user_arg);
```

The routine to unregister a callback function is:

```
int bcm_port_medium_status_unregister
```

```
            (int unit,
             bcm_port_t port,
             bcm_port_medium_status_cb_t callback,
             void *user_arg);
```

The callback and user_arg must also match when unregistering. Only one
function may be registered at a time.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/combo-ports.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF LINK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/link.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
* $Id: diag_signals_dump.c,v 1.0 28/10/2014 18:28 idanu Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_signals_dump.c
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/diag/dcmn/diag_signals_dump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_port.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: PORT APIs
*
* Purpose:
*     PORT API for Dune Packet Processor devices
*     Warm boot support
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/bcm_int/sbx/caladan3/wb_db_port.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on        Fri Oct  3 13:28:10 2014
*               MD5 Checksum        53eb1bfa56a0a70733d895957409458e
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser          3.0
*               rdb2macro.pm        4.0
*               Perl Interpreter    5.014001
*               Operating System    linux
*
* Spec Versions:  DDR34_PHY_ADDR_CTL   04
*               DDR34_PHY_BYTE_LANE  04
*
* RDB Files:
/projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_top_blockdef.rdb
*           /projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_addr_ctl.rdb
*           /projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_regtypes.rdb
*           /projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_byte_lane.rdb
*           /projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_regtypes.rdb
*
/projects/ntsw_ddr/users/mbasoglu/sw/SDK_TOT/src/soc/phy/regs/ddr34/ddr34_phy_byte_lane_regtypes.rdb
```

```
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phy_and28_f0.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ipv4.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_ipv4.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_ipv4.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pp_mac.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_pp_mac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_pp_mac.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_multicast_applications.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_multicast_application_device_lvl_example.c
* Purpose: Example of device level multicast configuration.
*
* The configuration needed is defined in the cint_multicast_applications.c file.
* The configuration includes the following:
*  o   Ingress FAPs: Open MC group defined by a set of destination FAPs.
*  o   Egress FAPs:
*      For each MC group holding a member port on this FAP, open a group using one of two methods:
*          o   LAN Membership - the MC group is defined by the set of destination (local) ports
*          o   General  - the MC group is defined by the set of {destination local ports, CUD}
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_multicast_application_device_lvl_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       memory.h
* Purpose:     Base definitions for memory types
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/memory.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: plibde.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/bde/pli/plibde.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpVlanIndTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56640sanity.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56640 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x2
local pbmxe 0x1ffe0

if !"expr $bcm56640_3x42_4x32 + 0" \
  'local pbmhg 0x22220000; local pbmport 0x2223ffe2'
if "expr $bcm56640_3x42_4x32 + 0" \
  'config add bcm56640_3x40_3x42=1; local pbmhg 0x22200000; local pbmport 0x2221ffe2'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
```

```
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

tr3_mem.soc
```

```
# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done
```

```
#tr 18 PortBitMap=$pbmhg Speed=30G
#$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 30 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg Speed=30G
$done


#tr 48 pbm=$pbmport
#$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE port in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE port in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE port in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE port in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
```

```
$done


#tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=30G
#$done

echo "Running Traffic Test on HG port in PHY mode ..."

tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=30G
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
```

```
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56640sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_g.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_g.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_end2end_scheduler.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_end2end_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: acl_field.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       acl_field.c
*
* Purpose:
*     Field Processor specific functionality for ACL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/acl/acl_field.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle2_tsc2pll_field_access.c                                        *
*  Created On    :  29/04/2013                                                           *
*  Created By    :  Kiran Divakar                                                        *
*  Description   :  APIs to access Serdes IP Registers and Reg fields                    *
*  Revision      :  $Id: eagle2_tsc2pll_field_access.c 1374 2016-03-12 01:19:55Z cvazquez $ *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_field_access_c.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_traverse.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_traverse.c
```

```
* Purpose: Example demonstrates how to traverse the MACT.
*
* Demonstrate:
*  - aging enable and aging time setting
*  - add mact that points to unicast/multicast destinations
*  - print the content of the MAC Table
*
* Default settings:
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    By default, learning is managed by device without interference from the CPU.
*  o    By default, aging is disabled.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
* Note: Without running diag_init, ports are not associated with any TPID,
*       and thus all packets would be considered as untagged.
*       Besides, only untagged packets are accepted.
*
* Traffic:
* Flooding (sending packet with unknown DA):
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and unknown DA.
*  o    Packet is flooded to all VLAN members.
*  o    Packet is accepted in all ports without any editing.
*  o    The SA of the packet is learned:
*     o    Call l2_print_mact(unit) to print MAC table content.
* Sending packet to known DA:
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and known DA.
*  o    Packet will be forwarded to single port according to MAC table.
* Sending packet to MC group:
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and DA points to mulitcast group
*  o    Packet is duplicated to members of the multicast (by default packet will be forwarded to ports 1 and 4)
*
* Remarks:
*  o    In all cases above, the packet will not be sent back to the incoming port.
*     -    For flooding, packet is received on all ports except the incoming port.
*     -    For Unicast (known DA) sending packet to same port, packet is discarded.
*
* Traverse:
*  o    L2 traverse.
*     -    traverse all entries in the l2 table.
*          flags = 0;
*          print l2_traverse(unit, l2_traverse, flags, NULL, NULL);
*
*  o    L2 match traverse.
*     -    traverse matching STATIC entries in the l2 table.
*          flags = BCM_L2_TRAVERSE_MATCH_STATIC;
```

```
*         print l2_traverse(unit, l2_match_traverse, flags, NULL, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching VLAN entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_VLAN;
*         l2_addr.vid = l2_mact_table_info1.vid1;
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching MAC entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_MAC;
*         l2_addr.mac[0] = 0;
*         l2_addr.mac[1] = 0;
*         l2_addr.mac[2] = 0;
*         l2_addr.mac[3] = 0;
*         l2_addr.mac[4] = 0x01;
*         l2_addr.mac[5] = 0x30;
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching UNICAST DEST entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST;
*         BCM_GPORT_LOCAL_SET(l2_addr.port, l2_mact_table_info1.dest_port_1);
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching MULTICAST DEST entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST;
*         BCM_GPORT_MCAST_SET(l2_addr.port, l2_mact_table_info1.mc_id);
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching MAC+VLAN entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_MAC |
*               BCM_L2_TRAVERSE_MATCH_VLAN;
*         l2_addr.vid = l2_mact_table_info1.vid1;
*         l2_addr.mac[0] = 0;
*         l2_addr.mac[1] = 0;
*         l2_addr.mac[2] = 0;
*         l2_addr.mac[3] = 0;
*         l2_addr.mac[4] = 0x01;
*         l2_addr.mac[5] = 0x30;
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*
*  o   L2 match traverse.
*     -   traverse matching MAC+VLAN+DEST entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_MAC |
*               BCM_L2_TRAVERSE_MATCH_VLAN | BCM_L2_TRAVERSE_MATCH_DEST;
```

```
*         l2_addr.vid = l2_mact_table_info1.vid1;
*         BCM_GPORT_LOCAL_SET(l2_addr.port, l2_mact_table_info1.dest_port_2);
*         l2_addr.mac[0] = 0;
*         l2_addr.mac[1] = 0;
*         l2_addr.mac[2] = 0;
*         l2_addr.mac[3] = 0;
*         l2_addr.mac[4] = 0x01;
*         l2_addr.mac[5] = 0x30;
*         print l2_traverse(unit, l2_match_traverse, flags, &l2_addr, NULL);
*  o   L2 match mask traverse.
*     -   traverse matching all UNICAST entries in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST;
*         BCM_GPORT_LOCAL_SET(l2_addr.port, 0);
*         l2_addr_mask.port=0x30000;
*         print l2_traverse(unit, l2_match_mask_traverse, flags, &l2_addr, &l2_addr_mask);
*
*  o   L2 match mask traverse.
*     -   traverse matching all MULTICAST entries in the l2 table.
*         flags =  BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST;
*         BCM_GPORT_MCAST_SET(l2_addr.port, 0);
*         l2_addr_mask.port=0x30000;
*         print l2_traverse(unit, l2_match_mask_traverse, flags, &l2_addr, &l2_addr_mask);
*
*  o   L2 match mask traverse.
*     -   traverse matching UNICAST entries with mask in the l2 table.
*         flags = BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST |
*               BCM_L2_TRAVERSE_MATCH_MAC;
*         BCM_GPORT_LOCAL_SET(l2_addr.port, 0);
*         l2_addr.mac[0] = 0;
*         l2_addr.mac[1] = 0;
*         l2_addr.mac[2] = 0;
*         l2_addr.mac[3] = 0;
*         l2_addr.mac[4] = 0x01;
*         l2_addr.mac[5] = 0x30;
*         l2_addr_mask.port=0x30000;
*         l2_addr_mask.mac[0] = 0xff;
*         l2_addr_mask.mac[1] = 0xff;
*         l2_addr_mask.mac[2] = 0xff;
*         l2_addr_mask.mac[3] = 0xff;
*         l2_addr_mask.mac[4] = 0xff;
*         l2_addr_mask.mac[5] = 0xfc;
*         print l2_traverse(unit, l2_match_mask_traverse, flags, &l2_addr, &l2_addr_mask);
*
*  o   L2 match mask traverse.
*     -   traverse matching MULTICAST entries with mask in the l2 table.
*         flags =  BCM_L2_TRAVERSE_MATCH_STATIC | BCM_L2_TRAVERSE_MATCH_DEST |
*               BCM_L2_TRAVERSE_MATCH_MAC;
*         BCM_GPORT_MCAST_SET(l2_addr.port, 0);
```

```
*          l2_addr.mac[0] = 0;
*          l2_addr.mac[1] = 0;
*          l2_addr.mac[2] = 0;
*          l2_addr.mac[3] = 0;
*          l2_addr.mac[4] = 0x01;
*          l2_addr.mac[5] = 0x35;
*          l2_addr_mask.port=0x30000;
*          l2_addr_mask.mac[0] = 0xff;
*          l2_addr_mask.mac[1] = 0xff;
*          l2_addr_mask.mac[2] = 0xff;
*          l2_addr_mask.mac[3] = 0xff;
*          l2_addr_mask.mac[4] = 0xff;
*          l2_addr_mask.mac[5] = 0xfe;
*          print l2_traverse(unit, l2_match_mask_traverse, flags, &l2_addr, &l2_addr_mask);
*
* Run Script:
*   BCM> examples/dpp/utility/cint_utils_multicast.c
*      BCM> examples/dpp/cint_l2_traverse.c
*      BCM> cint
*      cint> print l2_mact_run(unit, port1, port2);
*      cint> print l2_traverse(unit, api_idx, flags, l2_addr, l2_addr_mask);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_traverse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPriExpTosRewriteConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpPriExpTosRewriteConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
```

```
*
* Definition file for the BCMI_TSCE_DPLL_XGXS.
* This file provides all basic definitions required to program the BCMI_TSCE_DPLL_XGXS.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tsce_dpll_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaPmLastLine.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaPmLastLine.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sand_multi_set.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_multi_set.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 Stack API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcRateLimitApi.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcRateLimitApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/CtcRateLimitApi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_ptg.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_ptg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/mirror.c
* Purpose:     BCMX Mirroring APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.120 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port parameters.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port parameters.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sync.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    sync_monotonic.c
* Purpose: Defines sal routines for mutexes and semaphores using more modern
*          condition variables and the monotonic clock.
*
* Mutex and Binary Semaphore abstraction
*
* Note: the SAL mutex abstraction is required to allow the same mutex
* to be taken recursively by the same thread without deadlock.
*
* The POSIX mutex used here has been further abstracted to ensure this.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/sync_monotonic.c
No license file was found, but licenses were detected in source scan.

```
/** \file bcm_int/dnx/l3/l3_arp.h
*
* Internal DNX L3 ARP APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/l3/l3_arp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/topo.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/topo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.24 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_access_timna.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_access_timna.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dos.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC driver for DOS attach filter
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/robo/tbx/dos.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                            *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane DDR/SDRAM controller core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbmemc.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbmemc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: physim.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* The part of PCID that simulates a PHY
*
* Requires:
*
* Provides:
*     soc_internal_miim_op
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/physim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_lif_cos.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_lif_cos.h
*
* MODULE PREFIX:  soc_ppd_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_lif_cos.h
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvram_vxworks.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/nvram_vxworks.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_names.i
* Purpose:    Register names.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_names.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: regtest.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register Test
*
*
* This module is also used by the main SOC diagnostics register tests,
* fronted by user interface code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/regtest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
* Purpose:    Implementation of bcm multiplexing
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/mbcm_sat.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/mbcm_pp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/mbcm.c
No license file was found, but licenses were detected in source scan.

;;; Broadcom Proprietary and Confidential. All rights reserved.$

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/tmu_taps1_ut.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/tmu_taps_ut.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/tmu_taps_ipv6_ut.asm
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/tmu_tapsp_ut.asm
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm88230_a0.c
* Purpose: bcm88230_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88230_a0.c
No license file was found, but licenses were detected in source scan.

$Id: BCM953022K.bcm,v 1.2 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

```
pbmp_valid.0=0x0000011f
# internal GPHY
phy_sys_interface_ge4.0=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM958622HR.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_port.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 PORT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC_JER_REG_ACCESS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: siutils.c,v 1.6 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/siutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv4Only.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashIPv4Only.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm53570_a0.c
* Purpose:    bcm53570_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm53570_a0.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPriEntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLnaPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fe200.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fe200.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/fabric.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_elements.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_scheduler_elements.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Broadcom Switch API calls compatible with Robo, Strata, and XGS
```

```
*  device driver API's and SDK's.
*
*  This module provides a high-level programming abstraction
*  for programming Layer-2 ethernet switch ASIC's.
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.h,v 1.3 2007/10/08 22:31:11 iakramov Exp $
*
*  TODO: Support for DiffServ, Layer3, Filtering
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/swapi.h
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:

File Name:
   cls_types.h

File Description:

$Revision: 1.1.2.1 $  - Visual SourceSafe revision number

History:
   Date          Name          Comment
   ----          ----          -------
   09/05/01
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/classification/cls_types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_topology.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC TOPOLOGY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_topology.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_cint.stg,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cop_cint_data.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/t3p1_cop_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: system_snake.c,v 1.39 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System Snake
*
* This file runs a system-level snake test.  Packets are injected into
* a set of closed loops running around the system and left to cycle for
* a period of time.  At a certain interval, the counters are checked to
* confirm that traffic continues to flow.  At the end of the test, the
* packets are drained and verified against the transmitted packets.
* The final counter values are displayed on success.
*
* Port speed used is default (set in rc.soc) unless overridden on cmd
* line.  Full duplex is used for snake test.  Loopback modes are MAC
* and PHY.  EXT mode uses cables (crossover or straight) between ports
* 1&2, 3&4, 5&6, etc.  Exposed HiGig ports are connected externally.
*
* Details:
*
* Initialization includes placing all of the ports into the proper
* forwarding and/or loopback state.  VLANs are configured to include
* all ports.  On 5690, the L2 table is programmed to forward the
* packets to the next destination.  On 5670, the UC table is used.  The
* packets are drained with filters.  All packet I/O takes place on one
* 5690 for simplicity.
*
* The implementation borrows significantly from the test/lb_util.c
* library of loopback utilities.  The packet I/O and verification
* routines, port interconnection functions, and counter monitoring
* procedures are the most important pieces of recycling.
*
* The default paths implemented here are 12 closed loops corresponding
* to a 5690 port number.  That is, for a given path, a packet travels
* from port n on the first 5690 to port n on each succeeding 5690 (via
* the Higig uplinks to 5670).  From the final 5690 in the system, the
* packet travel to the 5670 and loops externally out the back panel
* ports.  Thus, the back panel ports must be connected in pairs by
* cable.  After traveling these external loops, the packet is returned
* to the first 5690 unit and continues the cycle.  The path is broken
* at the end of the test by means of a filter on the first 5690.
*
* The first section of this file contains a number of defines which
* might be tweaked to alter the parameters of the test.  Changing the
* number of paths will require reworking the path interconnection
* declarations.  Also, the test currently expects all ports to be
* involved.  Omitting some paths or ports will produce a test failure.
*
* Exceeding bandwidth rates will result in dropped packets and test
```

```
* failure.  For the 12 paths defined below, the 10 packets used in each
* path were experimentally determined.  They result in traffic near
* line rate on the 5670; they also do not exceed the CPU's ability to
* drain packets before the system drops packets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/system_snake.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_oam.h,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_oam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibPCT.h
*
* <pre>
*
* ==================================================================
* ==  sbZfSbQe2000ElibPCT.h - Port Counter Table ZFrame  ==
* ==================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibPCT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
```

```
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibPCT.zf
*
* ABSTRACT:
*
*     Port Counter Table ZFrame Definition
*     An entry in the port count table is 16 counts
*     That is, a per-class count for one port.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-November-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPCT.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_error_code.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Management/sand_error_code.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_error_code.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_tdm.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptp.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ptp.c
*
* Purpose:
*
* Functions:
*     bcm_petra_ptp_acceptable_master_add
*     bcm_petra_ptp_acceptable_master_enabled_get
*     bcm_petra_ptp_acceptable_master_enabled_set
*     bcm_petra_ptp_acceptable_master_list
*     bcm_petra_ptp_acceptable_master_remove
*     bcm_petra_ptp_acceptable_master_table_clear
*     bcm_petra_ptp_acceptable_master_table_size_get
*     bcm_petra_ptp_cb_register
*     bcm_petra_ptp_cb_unregister
*     bcm_petra_ptp_clock_accuracy_get
*     bcm_petra_ptp_clock_accuracy_set
*     bcm_petra_ptp_clock_create
*     bcm_petra_ptp_clock_current_dataset_get
*     bcm_petra_ptp_clock_default_dataset_get
*     bcm_petra_ptp_clock_domain_get
*     bcm_petra_ptp_clock_domain_set
*     bcm_petra_ptp_clock_get
*     bcm_petra_ptp_clock_parent_dataset_get
*     bcm_petra_ptp_clock_port_announce_receipt_timeout_get
*     bcm_petra_ptp_clock_port_announce_receipt_timeout_set
*     bcm_petra_ptp_clock_port_configure
*     bcm_petra_ptp_clock_port_dataset_get
*     bcm_petra_ptp_clock_port_delay_mechanism_get
*     bcm_petra_ptp_clock_port_delay_mechanism_set
*     bcm_petra_ptp_clock_port_disable
*     bcm_petra_ptp_clock_port_enable
*     bcm_petra_ptp_clock_port_identity_get
*     bcm_petra_ptp_clock_port_info_get
*     bcm_petra_ptp_clock_port_latency_get
*     bcm_petra_ptp_clock_port_latency_set
*     bcm_petra_ptp_clock_port_log_announce_interval_get
*     bcm_petra_ptp_clock_port_log_announce_interval_set
```

* bcm_petra_ptp_clock_port_log_min_delay_req_interval_get
* bcm_petra_ptp_clock_port_log_min_delay_req_interval_set
* bcm_petra_ptp_clock_port_log_min_pdelay_req_interval_get
* bcm_petra_ptp_clock_port_log_min_pdelay_req_interval_set
* bcm_petra_ptp_clock_port_log_sync_interval_get
* bcm_petra_ptp_clock_port_log_sync_interval_set
* bcm_petra_ptp_clock_port_mac_get
* bcm_petra_ptp_clock_port_protocol_get
* bcm_petra_ptp_clock_port_type_get
* bcm_petra_ptp_clock_port_version_number_get
* bcm_petra_ptp_clock_priority1_get
* bcm_petra_ptp_clock_priority1_set
* bcm_petra_ptp_clock_priority2_get
* bcm_petra_ptp_clock_priority2_set
* bcm_petra_ptp_clock_slaveonly_get
* bcm_petra_ptp_clock_slaveonly_set
* bcm_petra_ptp_clock_time_get
* bcm_petra_ptp_clock_time_properties_get
* bcm_petra_ptp_clock_time_set
* bcm_petra_ptp_clock_timescale_get
* bcm_petra_ptp_clock_timescale_set
* bcm_petra_ptp_clock_traceability_get
* bcm_petra_ptp_clock_traceability_set
* bcm_petra_ptp_clock_user_description_set
* bcm_petra_ptp_clock_utc_get
* bcm_petra_ptp_clock_utc_set
* bcm_petra_ptp_ctdev_alarm_callback_register
* bcm_petra_ptp_ctdev_alarm_callback_unregister
* bcm_petra_ptp_ctdev_alpha_get
* bcm_petra_ptp_ctdev_alpha_set
* bcm_petra_ptp_ctdev_enable_get
* bcm_petra_ptp_ctdev_enable_set
* bcm_petra_ptp_ctdev_verbose_get
* bcm_petra_ptp_ctdev_verbose_set
* bcm_petra_ptp_detach
* bcm_petra_ptp_foreign_master_dataset_get
* bcm_petra_ptp_lock
* bcm_petra_ptp_unlock
* bcm_petra_ptp_init
* bcm_petra_ptp_input_channel_precedence_mode_set
* bcm_petra_ptp_input_channel_switching_mode_set
* bcm_petra_ptp_input_channels_get
* bcm_petra_ptp_input_channels_set
* bcm_petra_ptp_modular_enable_get
* bcm_petra_ptp_modular_enable_set
* bcm_petra_ptp_modular_phyts_get
* bcm_petra_ptp_modular_phyts_set
* bcm_petra_ptp_modular_portbitmap_get

* bcm_petra_ptp_modular_portbitmap_set
* bcm_petra_ptp_modular_verbose_get
* bcm_petra_ptp_modular_verbose_set
* bcm_petra_ptp_packet_counters_get
* bcm_petra_ptp_peer_dataset_get
* bcm_petra_ptp_primary_domain_get
* bcm_petra_ptp_primary_domain_set
* bcm_petra_ptp_servo_configuration_get
* bcm_petra_ptp_servo_configuration_set
* bcm_petra_ptp_servo_status_get
* bcm_petra_ptp_servo_threshold_get
* bcm_petra_ptp_servo_threshold_set
* bcm_petra_ptp_signal_output_get
* bcm_petra_ptp_signal_output_remove
* bcm_petra_ptp_signal_output_set
* bcm_petra_ptp_signaled_unicast_master_add
* bcm_petra_ptp_signaled_unicast_master_remove
* bcm_petra_ptp_signaled_unicast_slave_list
* bcm_petra_ptp_signaled_unicast_slave_table_clear
* bcm_petra_ptp_signaling_arbiter_register
* bcm_petra_ptp_signaling_arbiter_unregister
* bcm_petra_ptp_stack_create
* bcm_petra_ptp_static_unicast_master_add
* bcm_petra_ptp_static_unicast_master_list
* bcm_petra_ptp_static_unicast_master_table_clear
* bcm_petra_ptp_static_unicast_master_table_size_get
* bcm_petra_ptp_static_unicast_slave_add
* bcm_petra_ptp_static_unicast_slave_list
* bcm_petra_ptp_static_unicast_slave_remove
* bcm_petra_ptp_static_unicast_slave_table_clear
* bcm_petra_ptp_sync_phy
* bcm_petra_ptp_telecom_g8265_init
* bcm_petra_ptp_telecom_g8265_network_option_get
* bcm_petra_ptp_telecom_g8265_network_option_set
* bcm_petra_ptp_telecom_g8265_packet_master_add
* bcm_petra_ptp_telecom_g8265_packet_master_best_get
* bcm_petra_ptp_telecom_g8265_packet_master_get
* bcm_petra_ptp_telecom_g8265_packet_master_list
* bcm_petra_ptp_telecom_g8265_packet_master_lockout_set
* bcm_petra_ptp_telecom_g8265_packet_master_non_reversion_set
* bcm_petra_ptp_telecom_g8265_packet_master_priority_override
* bcm_petra_ptp_telecom_g8265_packet_master_priority_set
* bcm_petra_ptp_telecom_g8265_packet_master_remove
* bcm_petra_ptp_telecom_g8265_packet_master_wait_duration_set
* bcm_petra_ptp_telecom_g8265_pktstats_thresholds_get
* bcm_petra_ptp_telecom_g8265_pktstats_thresholds_set
* bcm_petra_ptp_telecom_g8265_quality_level_set
* bcm_petra_ptp_telecom_g8265_receipt_timeout_get

```
*      bcm_petra_ptp_telecom_g8265_receipt_timeout_set
*      bcm_petra_ptp_telecom_g8265_shutdown
*      bcm_petra_ptp_time_format_set
*      bcm_petra_ptp_timesource_input_status_get
*      bcm_petra_ptp_tod_input_sources_get
*      bcm_petra_ptp_tod_input_sources_set
*      bcm_petra_ptp_tod_output_get
*      bcm_petra_ptp_tod_output_remove
*      bcm_petra_ptp_tod_output_set
*      bcm_petra_ptp_transparent_clock_default_dataset_get
*      bcm_petra_ptp_transparent_clock_port_dataset_get
*      bcm_petra_ptp_unicast_request_duration_get
*      bcm_petra_ptp_unicast_request_duration_max_get
*      bcm_petra_ptp_unicast_request_duration_max_set
*      bcm_petra_ptp_unicast_request_duration_min_get
*      bcm_petra_ptp_unicast_request_duration_min_set
*      bcm_petra_ptp_unicast_request_duration_set
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/ptp/ptp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,v 1.17 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tx.c
* Purpose: Implementation of bcm_petra_tx* API for dune devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_stack.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 STACK H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_stack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: applrefIface.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/applref/applrefIface.h
No license file was found, but licenses were detected in source scan.

```
/**
*
*
* $Id: cmu_diags_c.stg,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_cmu_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_cmu_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vswitch.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vswitch.h
* Purpose:     Vswitch internal definitions
```

```
*            specific to FE2000 BCM API implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/vswitch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_cmic.c,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_cmic.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm3200_mem_access.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains definitions for BM3200 memory access.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm3200_mem_access.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra_cfg_seq.h 2014/01/17 aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/quadra28/tier1/quadra28_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
   BCM53xx Register definitions
   Supports: BCM5325m, BCM5335

   Copyright 2002, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.

   $Id: etc53xx.h,v 1.4 2011/09/13 07:24:29 mlarsen Exp $

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etc53xx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_cli_files.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_cli_files.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       robo.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/dev.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd_pack.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd_pack.c
* Purpose:    BFD pack and unpack routines for:
*             - BFD Control messages
*             - Network Packet headers (PDUs)
*
*
* BFD control messages
*
* BFD messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The BFD control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/bfd_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rate.h
* Purpose:    rate internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/rate.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_fp.c,v 1.79 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* $
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_fp.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_fp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_xmac.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_xmac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc.c
* Purpose:     Board driver SOC interfaces
*
* SOC interfaces are defined here; all other functions needed SOC
* intefaces should use these functions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/soc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/mcast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_intr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Interrupt handling
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkBrgApi.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkBrgApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkBrgApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nsgmac.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Gigabit Ethernet MAC (Unimac) core.
*
* This file implements the chip-specific routines for the GMAC core.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/nsgmac.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_multi_set.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/***
* NAME:
* dnx_sand_multi_set_tests
* TYPE:
* PROC
* DATE:
* June 01 2015
* FUNCTION:
* Tests the multiset module
*
*INPUT:
* DNX_SAND_DIRECT:
* DNX_SAND_IN uint32 silent -
* Indicator.
* 1 - Do not print debuging info.
* 0 - Print various debuging info.
* DNX_SAND_INDIRECT:
* None.
*OUTPUT:
* DNX_SAND_DIRECT:
* uint32 -
* Indicator.
* 1 - Test pass.
* 0 - Test fail.
* DNX_SAND_INDIRECT:
* NON
REMARKS: SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
***/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_multi_set.h
No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl -w

#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$
#


use strict;
use warnings;
use File::Basename;
use IO::File;
use File::Copy;
use Data::Dumper;

my $arg;
my @files = ();
my $verbose = 0;
my $backup = 0;

while ( defined ( $arg = shift @ARGV) ) {
 if ( $arg eq '-h' || $arg eq '-help' ) {
      print_help();
  exit 0;
 }
 if ( $arg eq '-f' ) {
      while ( defined ( my $tmp = shift @ARGV ) ) {
         if ( $tmp !~ /^-/ ) {
            push ( @files, $tmp );
         } else {
            unshift ( @ARGV, $tmp );
            last;
         }
      }
      next;
   }
 if ( $arg eq '-v' ) {
  $verbose = 1;
  next;
 }
 if ( $arg eq '-b' ) {
```

```
  $backup = 1;
  next;
 }
   print "Illegal option $arg\n";
}

   foreach my $file ( @files ) {
  copy("$file", "$file.bak") or die "Copy failed: $!" if ( $backup );
      my $savedline;
      my $line;
      print "Processing file $file\n" if ($verbose );
      my $fhr = IO::File->new("$file",'r') || die "$! Unable to open file $file for reading\n";
      my $fhw = IO::File->new("$file.$$",'w') || die "$! Unable to open file $file.$$ for writing\n";
      while ( $line=<$fhr> ) {
         chomp ( $line );
# Delete one line so i can check in.
   $line =~ s/[^!-~\s]//g;
         if ( $line =~ s/\\$/ / ) {
            $savedline .= $line;
            next;
         }
         if ( defined $savedline ) {
            $line =~ s/^\s+//;
            $line = $savedline . $line;
            undef $savedline;
         }
         print $fhw $line, "\n";
      }
      close ( $fhr );
      close ( $fhw );
      rename ( "$file.$$", "$file") || die "$! Unable to rename $file.$$ to $file\n"
   }

sub print_help {
   print << "EOT"
$0 -f <files>
```

This script converts DOS lf/cr to UNIX format and remove all non-ASCII caharacters. It also joins lines seperated by \ character into a single line.

OPTIONS:

-v	Enable verbose
-b	Make backup of original files
-h	help
-help	help

USAGE:

```
$0 -f *.c *.h -v -b

EOT
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/cformat.pl
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linkctrl.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       linkctrl.h
* Purpose:     Hardware Linkscan Control module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/linkctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_vlan_egress_membership.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Example of outbound mirroring and BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED flag
*
* Tests scenario:
*
* step 1:  Mirroring is disabled
*         packet enters from port A and exits from port B
*
* step 2:  Mirroring is enabled and BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED is not set
*         packet enters from port A and exits from port B
*         in addition, mirrored packet exits from port C
*
* step 3:  Mirroring is enabled and BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED is set
*         packet enter from port A and exit from port B
*         NO mirrored packet exits from port C
*
* Example:
*
* 1. Traffic is configured from port 200 to port 201
*
*             INPUT        ___________________________        OUTPUT
```

```
*                       |                     |
*       port 200, vlan 100 |                     | port 201, vlan 100
*                       |                     |
*     ---------------------->|                     |------------------------->
*                       |_____________________________|
*
* 2. Traffic is configured from port 200 to port 201 and port 201 vlan 100 mirrored to port 203
*    BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED is not set
*
*              INPUT        ____________________________        OUTPUT
*                       |                     | port 201, vlan 100
*       port 200, vlan 100 |  packet is mirrored    |------------------------->
*                       |  to port 203          |
*     ---------------------->|                     |port 203, vlan 100
*                       |_____________________________|------------------------->
*
* 3. Traffic is configured from port 200 to port 201 and port 201 vlan 100 mirrored to port 203
*    BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED is set for port 201
*
*              INPUT        ____________________________        OUTPUT
*                       |                     | port 201, vlan 100
*                 port 200 | packet is not mirrored |------------------------->
*                 vlan 100 | to port 203           |
*     ---------------------->|                     |
*                       |_____________________________|
*
*
* SOC properties:
* custom_feature_outer_vid_existence_class_mode = 1
* bcm886xx_vlan_translate_mode = 1
*
* CINT files:
* cd ../../../../src/examples/dpp/
* cint_utils_l2.c
* cint_mirror.c
* cint_utils_vlan.c
* cint_utils_port.c
* cint_vlan_mirror_outbound_untagged.c
*
* vlan_mirror_outbound_untagged__start_run(int unit, vlan_mirror_outbound_untagged_s *test_data) - test_data =
NULL for default params
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vlan_mirror_outbound_untagged.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/* $Id: madura_sdk_interface.h 3438 2015-06-30 06:39:49Z binliu $
*
*  Broadcom Confidential/Proprietary.
*  Copyright (c) 2015 Broadcom Corporation. All rights reserved.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_sdk_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.17 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpInstruction.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpInstruction.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_1EntryConsole.hx

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88750_b0.c
* Purpose:     bcm88750_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88750_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ipv6.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_ipv6.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_ipv6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2notify.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2notify.c
* Purpose:     L2 table change notification, async task
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/l2notify.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.165 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Triumph3 L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_drv.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_drv.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_mac_management.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_mac_management.c
*
* Purpose: An example of how to use BCM APIs to implement MAC management functions.
*
* To Activate Above Settings:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/pon/cint_pon_utils.c
```

```
*      BCM> cint examples/dpp/pon/cint_pon_mac_management.c
*      BCM> cint
*      cint>
*      cint> print pon_l2_app(unit, pon, nni);
*      cint> print l2_mact_run_1(unit);
*      cint> print l2_mact_run_1(unit);
*      cint> print l2_mact_run_2(unit);
*      cint> print l2_mact_run_3(unit, is_both, delete_entries);
*
* To clean pon application configuration:
*      cint> print pon_l2_app_clean(unit);
*
* run functions one by one in cint_pon_mac_management.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_mac_management.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: extender.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       extender.h
* Purpose:     Helper function declarations for the extender module BCM APIs.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/extender.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_tx_analog_functions.h                                      *
*  Created On    :  04/20/2015                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  Functions to Configure Merlin16 TXFIR                               *
*  Revision      :  *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
```

```
*      5300 California Avenue                                    *
*      Irvine, CA  92617                                         *
*                                                                *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                                    *
*                                                                *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_tx_analog_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* Required functions exported by the port-specific (os-dependent) driver
* to common (os-independent) driver code.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: et_export.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/et_export.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pack_pbmp.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: pack_pbmp.c
* Purpose: BCM API Type Packers - port bitmaps
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/pack_pbmp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dport.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The diag shell port mapping functions are located in the SOC layer
```

```
* for historical reasons, but the mappings are not used internally
* in either the SOC layer or the BCM layer.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dport.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_mpls_term.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_mpls_term.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr_glif.c,v 1.312 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr_glif.c
* Purpose:     Global lif allocation manager for DNX chips.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/alloc_mngr_glif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.59 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     field.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/ea/tk371x/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hash.c
* Purpose:    Tomahawk hash table calculation routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_oam.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tsn.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/tsn.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_cards_consts.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/bsp_cards_consts.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_ingress_scheduler.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_efp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_efp.c
* Purpose: Maintains all the debug information for efp
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/trident2plus_efp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_lag_hashing.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Lag hashing example script
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_lag_hashing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp32BitRewriteConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIp32BitRewriteConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dmaTx.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/dmaTx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdes100fx.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     physerdes100fx.c
* Purpose:
*     Fiber driver for serdes100fx using internal Serdes PHY.
*
* For BCM56514, the internal GMACC core of the GPORT should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     phy_serdes100fx_notify_duplex
*     phy_serdes100fx_notify_speed
*     phy_serdes100fx_notify_stop
*     phy_serdes100fx_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
```

```
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes100fx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_drop_static_sa_transplant.c
* Purpose: Example of how to use Learn_or_Transplant qualifier in Ingress FP.
*
* When inserting a Static entry to MACT with a specific destination, it is
* expected that packets with this L2 address as their SA, will arrive from
* the source that was specified as the destination.
* When there is no match between the Source port/vlan and the Destination,
* transplant can be performed.
* The decision of learn/transplant can be used in the Field Processor.
*
* CINT Usage:
*
*  1. Run:
*      cint cint_field_drop_static_sa_transplant.c
*      cint
*      field_drop_static_sa_transplant_example(int unit);
*
*  2. In order to verify add static entry with some destination (port/vlan),
*     and send packet with SA as L2 address in entry, from a different port.
*     Packet should be dropped.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_drop_static_sa_transplant.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_xmod_pe_api.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_xmod_pe_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lotus_service.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/lotus_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_sand_exact_match_hash.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_exact_match_hash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_port_down_sequence.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mmu_port_down_sequence.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv6.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.c
* Purpose:     BCM definitions  for bcm_switch_control
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/switch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ofp_rates.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_qax_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_tsc_field_access.h                                    *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: falcon_tsc_field_access.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
```

```
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
************************************************************************************
************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_field_access.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

ucode_num_port_override.0=1
ucode_num_ports.0=24
ucode_port.port1.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port2.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port3.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port4.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port5.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port6.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port7.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port8.0=clport0.hg10.0.0-1:il1.il100.0.0-1
ucode_port.port9.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port10.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port11.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port12.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port13.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port14.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port15.0=clport0.hg10.0.1-1:il1.il100.0.1-1
ucode_port.port16.0=clport0.hg10.0.1-1:il1.il100.0.1-1
```

```
ucode_port.port17.0=clport0.xe.1.0:il1.il100.0.2
ucode_port.port18.0=clport0.xe.1.1:il1.il100.0.3
ucode_port.port19.0=clport0.xe.1.2:il1.il100.0.4
ucode_port.port20.0=clport0.xe.1.3:il1.il100.0.5
ucode_port.port21.0=clport0.xe.2.0:il1.il100.0.6
ucode_port.port22.0=clport0.xe.2.1:il1.il100.0.7
ucode_port.port23.0=clport0.xe.2.2:il1.il100.0.8
ucode_port.port24.0=clport0.xe.2.3:il1.il100.0.9


higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_hg0=0x1230
xgxs_rx_lane_map_xe0=0x1032
xgxs_rx_lane_map_xe4=0x1230

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_xe0=0x3210
xgxs_tx_lane_map_xe4=0x1032


phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg9=0x0000
phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0000
phy_xaui_rx_polarity_flip_xe7=0x0001


phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg9=0x0001
phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
phy_xaui_tx_polarity_flip_xe4=0x0000
phy_xaui_tx_polarity_flip_xe5=0x0000
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
```

```
#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
```

ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98

```
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-8x10g_2xhg10-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
-----------------------------------------------------------------------------
                    New COS queue API functions
               Joe Dadek, Broadcom Corp. 05-20-2004
                     Last Updated: 05-20-2004
-----------------------------------------------------------------------------

The BCM API has four new functions defined to allow enhanced
configuration of the 5665/50/55 family of chips.  These APIs are:


/*
```

```
* Function:
*     bcm_cosq_detach
* Purpose:
*     Discard all COS schedule/mapping state.
* Parameters:
*     unit - StrataSwitch unit number.
* Returns:
*     BCM_E_XXX
*/

int bcm_cosq_detach(int unit)


/*
* Function:
*     bcm_cosq_port_sched_weight_max_get
* Purpose:
*     Retrieve maximum weights for given COS policy.
* Parameters:
*     unit - StrataSwitch unit number.
*     mode - Scheduling mode, one of BCM_COSQ_xxx
* weight_max - (output) Maximum weight for COS queue.
*  0 if mode is BCM_COSQ_STRICT.
*  1 if mode is BCM_COSQ_ROUND_ROBIN.
*  -1 if not applicable to mode.
* Returns:
*     BCM_E_XXX
*/

int bcm_cosq_port_sched_weight_max_get(int unit, int mode, int *weight_max)


/*
* Function:
*     bcm_cosq_port_bandwidth_set
* Purpose:
*     Set bandwidth values for given COS policy.
* Parameters:
*     unit - StrataSwitch unit number.
* port - port to configure, -1 for all ports.
*     cosq - COS queue to configure, -1 for all COS queues.
*     kbits_sec_min - minimum bandwidth, kbits/sec.
*     kbits_sec_max - maximum bandwidth, kbits/sec.
*     flags - may include:
*             BCM_COSQ_BW_EXCESS_PREF
*             BCM_COSQ_BW_MINIMUM_PREF
* Returns:
*     BCM_E_XXX
```

```
*/

extern int bcm_cosq_port_bandwidth_set(int unit,
                                       bcm_port_t port,  /* -1 for all */
                                       bcm_cos_queue_t cosQ, /* -1 for all */
                                       uint32 kbits_sec_min,
                                       uint32 kbits_sec_max,
                                       uint32 flags);


/*
* Function:
*     bcm_cosq_port_bandwidth_get
* Purpose:
*     Retrieve bandwidth values for given COS policy.
* Parameters:
*     unit - StrataSwitch unit number.
* port - port to retrieve.
*     cosq - COS queue to retrieve
*     kbits_sec_min - (OUT) minimum bandwidth, kbits/sec.
*     kbits_sec_max - (OUT) maximum bandwidth, kbits/sec.
*     flags - (OUT) may include:
*         BCM_COSQ_BW_EXCESS_PREF
*         BCM_COSQ_BW_MINIMUM_PREF
* Returns:
*     BCM_E_XXX
*/

extern int bcm_cosq_port_bandwidth_get(int unit,
                                       bcm_port_t port,  /* -1 for any */
                                       bcm_cos_queue_t cosQ, /* -1 for any */
                                       uint32 *kbits_sec_min,
                                       uint32 *kbits_sec_max,
                                       uint32 *flags);
```

The allowable scheduling modes now supported are:

BCM_COSQ_STRICT
BCM_COSQ_ROUND_ROBIN (formerly BCM_COSQ_WEIGHTED_ROUND_ROBIN)
BCM_COSQ_WEIGHTED_ROUND_ROBIN (formerly BCM_COSQ_WEIGHTED_FAIR_ROUND_ROBIN)
BCM_COSQ_WEIGHTED_FAIR_QUEUING
BCM_COSQ_BOUNDED_DELAY

Some defines for use in assembling weights:

BCM_COSQ_WEIGHT_STRICT

BCM_COSQ_WEIGHT_MIN

Theory of use:

bcm_cosq_port_sched_weight_max_get is applicable on any switch, but not fabrics. It returns the maximum weight specification for a given mode.

bcm_cosq_port_bandwidth_set/get are currently only available for the 5665/50/55 family of chips. Note that the supplied bandwidth values may be rounded up to the nearest value supported by the HW. The available flags are

BCM_COSQ_BW_EXCESS_PREF - Allocate bandwidth above the combined minimums to queues with this flag first, up to the maximum for a COS.
BCM_COSQ_BW_MINIMUM_PREF - Satisfy minimum bandwidth requirement for queues with this flag before other queues receive minimum.

The maximum bandwidth setting is applicable to any mode supported on 5665/50/55. The minimum bandwidth settings and the preference flags are only valid in WEIGHTED_FAIR_QUEUING mode. The order of the calls bcm_cosq_port_bandwidth_set and bcm_cosq_port_sched_set is not important.

566X PRG to BCM API translation matrix (from pp 77-79 of the 566X-PG201-R)

Strict Priority

Call bcm_cosq_port_sched_set with mode argument of BCM_COSQ_STRICT. Note that this is not implemented as described in the PRG, but as a special case of the SP+WFQ combination on p. 79.

Round-Robin

Call bcm_cosq_port_sched_set with mode argument of BCM_COSQ_ROUND_ROBIN.

Weighted Round-Robin

Call bcm_cosq_port_sched_set with mode argument of BCM_COSQ_WEIGHTED_ROUND_ROBIN. Supply non-zero weights in the weights array argument. Note that this is not implemented as described in the

PRG, but as a special case of the SQ+WRR combination on p. 78.

Weighted Fair Queuing

Call bcm_cosq_port_sched_set with mode argument of
BCM_COSQ_WEIGHTED_FAIR_QUEUING. Supply non-zero weights in the
weights array argument. Also, call bcm_cosq_port_bandwidth_set to
specify bandwidth parameters for the WFQ.

SP+RR Combination

Call bcm_cosq_port_sched_set with mode argument of
BCM_COSQ_WEIGHTED_ROUND_ROBIN. Supply weights in the weights array
argument, with BCM_COSQ_WEIGHT_STRICT for strict priority queues and
BCM_COSQ_WEIGHT_MIN for round robin queues.

SP+WRR Combination

Call bcm_cosq_port_sched_set with mode argument of
BCM_COSQ_WEIGHTED_ROUND_ROBIN. Supply weights in the weights array
argument, with BCM_COSQ_WEIGHT_STRICT for strict priority queues and
non-zero values for weighted round robin queues.

SP_WFQ Combination

Call bcm_cosq_port_sched_set with mode argument of
BCM_COSQ_WEIGHTED_FAIR_QUEUING. Supply weights in the weights array
argument, with BCM_COSQ_WEIGHT_STRICT for strict priority queues and
non-zero values for weighted fair queuing queues. Also, call
bcm_cosq_port_bandwidth_set to specify bandwidth parameters for the
WFQ.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/wfq_cos.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: schan.c,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* S-Channel (internal command bus) support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/schan.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sync.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sync.c
* Purpose: Defines sal routines for mutexes and semaphores
*
* Mutex and Binary Semaphore abstraction
*
* Note: the SAL mutex abstraction is required to allow the same mutex
* to be taken recursively by the same thread without deadlock.
*
* The POSIX mutex used here has been further abstracted to ensure this.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/sync.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qux_appl_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QUX/qux_intr_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: console.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  console.c
* Purpose: User TTY I/O
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/console.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/unix/console.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field_class.c
* Purpose:    BCM56960 Field Processor Group management functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field_class.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
/*
* Misc useful OS-independent routines.
*
* $Id: bcmutils.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/bcmutils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_jer2_jer2_jer2_tmcapi_reg_access.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_reg_access.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pca9548.c,v 1.5.84.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Phillips PCA9548 i2c switch
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pca9548.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Make definitions for compilation of WRX for an executable that serves
# all architectures including JR2
#
# INTR is taken off the feature untill soc/dnx will support it
#FEATURE_LIST := L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU ATPTRANS_SOCKET INTR APIMODE PTP KBP
FEATURE_LIST := L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE CUSTOMER
TEST CHASSIS MSTP RCPU ATPTRANS_SOCKET APIMODE PTP KBP

DEBUG_CFLAGS=-Wdeclaration-after-statement

BCM_PTL_SPT=1

#
# Specify that, in addition to DPP, we want to compile for the new DNX line, starting
# with JR2
#
ALL_DNX_CHIPS = 1

# Includes XML library and enables use of "diag pp dump" utility for PP import/export facilities
DATAIO_SUPPORT = 1
KERN_VER=3.7.10

CFGFLAGS += -DSTATIC=static
# To be returned after fixing crash recovery mechanism (clean from dpp)
#CFGFLAGS += -DCRASH_RECOVERY_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
```

```
CFGFLAGS += -DBCM_EASY_RELOAD_WB_COMPAT_SUPPORT
CFGFLAGS += -DBCM_CONTROL_API_TRACKING
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
CFGFLAGS += -DPHYS_ADDRS_ARE_64BITS -DSAL_BDE_32BIT_USER_64BIT_KERNEL
CFGFLAGS += -D_SIMPLE_MEMORY_ALLOCATION_=0 -DUSE_LINUX_BDE_MMAP=1
CFGFLAGS += -DSCACHE_CRC_CHECK

CFGFLAGS += -DBROADCOM_SVK

KBP_DEVICE := KBP_ALG

VENDOR_LIST=CUSTOMER78 BROADCOM DNX
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/dnx/Make.custom.wrx_dnx_only
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_stat_if.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_stat_if.c
*
* MODULE PREFIX:  soc_tmcstat
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_stat_if.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcoe.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* DNX FCOE implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/fcoe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeThreshLutEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsAgeThreshLutEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmgmacmib.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hardware-specific MIB definition for
* Broadcom Home Networking Division
* GbE Unimac core
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/bcmgmacmib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: draco_arltest.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Draco ARL Test definitions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/draco_arltest.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* this module is used to store and acquire all of the device lock's, semaphores, mutexes etc.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_sync_db.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_cb_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_sync_db.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_tbl_access.h,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tbl_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyfege.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    phy.c
* Purpose: Defines PHY driver routines, and standard 802.3 10/100/1000
*      PHY interface routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyfege.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pktspeed.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       pktspeed.c
* Purpose:     Run a TX or RX reload test to check DMA speed
*
* Test Parameters:
*       PORT       - TX port
*       RXPORT     - RX port
*       PKTsize    - What size packets to use
*       ALLOCsize  - What allocation size to use for packets
*       ChainLen   - How many DMA'd packets to set up in loop
*       Seconds    - How many seconds to run
*
*   Test reports speed once per second.
*
* Notes:       Code originally from appl/diag/txrx.c
*              Moved here to address PR SDK/422
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/pktspeed.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCBSEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceCBSEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bst.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BST - Buffer Statistics Tracking
* Purpose: API to set and manage various BST resources
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bst.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_ac.h,v 1.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_ac.h
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DCMN CELLS BUFFER H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_cells_buffer.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassHashVlanIPv6Console.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv6Console.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: enet.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/enet.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_regs.h,v 1.0 Broadcom SDK $
*

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_regs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: feature.c,v 1.938 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Functions returning TRUE/FALSE providing chip/feature matrix.
* TRUE means chip supports feature.
*
* File:       feature.c
* Purpose:    Define features by chip, functionally.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/feature.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_u.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_u.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
```

```
*  Revision      :  $Id: falcon_api_uc_common.h 1261 2015-11-19 15:51:37Z eroes $  *
*                                                                                  *
*  Description   :  Defines and Enumerations required by Falcon ucode              *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ctrl_eth_if.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/ctrl_eth_if.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pvtmon.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: PVTmon funcitonality
*   - Currently Implements temperature monitor
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/pvtmon.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains filed process module definitions internal to
* the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyconfig.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines PHY configuration modes.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/phyconfig.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: viper_pmd_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : viper_pmd_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
/*
```

```
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_pmd_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: falcon_api_uc_common.h 1172 2015-10-06 19:34:58Z kirand $  *
*                                                                             *
*  Description   :  Defines and Enumerations required by Falcon ucode          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: chip.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: chip.c
* Purpose: Chip driver table defined
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/chip.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-core.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/bcm-core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/humv/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	bcm56270_a0.c
* Purpose:	bcm56270_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56270_a0.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_chip_defines.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       dnx_sand_chip_defines.c
*
* FILE DESCRIPTION: dnx_sand chip general utilities
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_chip_defines.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dev.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/dev.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/dev.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------
* $Id: tscmod_enum_defines.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
```

```
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* Description: This file is automatically generated. It contains enums,
* elems, and doxygen comments needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-net.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-net/bcm-net.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsCm.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsDataTxRx.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOsCm.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_chip_defines.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_chip_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_chip_defines.h
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------
**
** $Id: sbDq.h,v 1.10 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbDq.h: doubly linked lists
**
** ----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/sbDq.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  eagle_tsc_dv_functions.c                                    *
*  Created On    :  22/05/2014                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs for Serdes IPs ported over from DV                     *
*  Revision      :  $Id: eagle_tsc_dv_functions.c 1140 2015-09-18 21:05:29Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.                                                *
* Broadcom Proprietary and Confidential. All rights reserved.$                  *
*  No portions of this material may be reproduced in any form without           *
*  the written permission of:                                                   *
*      Broadcom Corporation                                                     *
*      5300 California Avenue                                                   *
*      Irvine, CA  92617                                                        *
*                                                                               *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_dv_functions_c.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    Functions to support CLI port commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_c.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_c.i

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_jer_fc_ilkn_inb_config_example.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_jer_fc_ilkn_inb_config_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm89500_a0.c
* Purpose: bcm89500_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm89500_a0.c
No license file was found, but licenses were detected in source scan.

```
/*  $Id: lb_key.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cint_trunk_ecmp_lb_key_and_member_retrieve.c.c
* Purpose: This CINT emulates the trunk(LAG) member and FEC resolution process preformed by the Arad.
*          The file contains 3 essential functions:
*              - fer_lb_key - Emulating the Arad's trunk and Ecmp LB keys calculation HW.
*              - lag resolution - calculating the destination flow id or system physical port.
*              - ecmp_resolution - ECMP resolution as described in the Arad PP Arch Spec under "FEC Resolution".
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/examples/dpp/cint_trunk_ecmp_lb_key_and_member_retrieve.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_debug.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_qax_ingress_traffic_mgmt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mact_bulk_operations.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mact_bulk_operations.c
No license file was found, but licenses were detected in source scan.

```
/*  ************************************************************************
   *  SB1250 Board Support Package
   *
   *  L1C initialization   File: bcmcore_l1cache.S
   *
   *  This module contains code for various CPU cache operations
   *
   *  Note: the init routines in this module rely on registers only,
   *        since DRAM may not be active yet.
   *
   *  Author:  Mitch Lichtenberg
   *
```

```
 ***********************************************************************
 *
 *  Copyright 2000,2001
 *  Broadcom Corporation. All rights reserved.
 *
 *  This software is furnished under license and may be used and
 *  copied only in accordance with the following terms and
 *  conditions.  Subject to these conditions, you may download,
 *  copy, install, use, modify and distribute modified or unmodified
 *  copies of this software in source and/or binary form.  No title
 *  or ownership is transferred hereby.
 *
 *  1) Any source code used, modified or distributed must reproduce
 *     and retain this copyright notice and list of conditions
 *     as they appear in the source file.
 *
 *  2) No right is granted to use any trade name, trademark, or
 *     logo of Broadcom Corporation.  The "Broadcom Corporation"
 *     name may not be used to endorse or promote products derived
 *     from this software without the prior written permission of
 *     Broadcom Corporation.
 *
 *  3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR
 *     IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED
 *     WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
 *     PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT
 *     SHALL BROADCOM BE LIABLE FOR ANY DAMAGES WHATSOEVER, AND IN
 *     PARTICULAR, BROADCOM SHALL NOT BE LIABLE FOR DIRECT, INDIRECT,
 *     INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
 *     (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
 *     GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
 *     BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 *     OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 *     TORT (INCLUDING NEGLIGENCE OR OTHERWISE), EVEN IF ADVISED OF
 *     THE POSSIBILITY OF SUCH DAMAGE.
 ********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmcore_l1cache.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmcore_l1cache.s
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_ser_correction.h, v1 16/06/2014 09:55:39 itamar $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header for ser correction.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_ser_correction.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk2.h
* Purpose:     Function declarations for Tomahawk2 Internal functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tomahawk2.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1251 2015-11-18 22:47:25Z abhished $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/eagle_dpll/tier1/public/srds_api_err_code_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_pp_general.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/dnx_sand/src/dnx_sand_pp_general.c
*
* MODULE PREFIX:  dnx_sand_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_pp_general.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* : qmod_enum_defines.h,
* : n *
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*-----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------------
* Description: This file contains enums, elems, and doxygen comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
```

```
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
/*
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod_enum_defines.h#8
h#8 $Copyright: (c) 2016 Broadcom.
h#8 Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdpll_inputs.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tdpll_inputs.c
*
* Purpose: Telecom DPLL input clock monitoring, reference selection, and switching.
*
* Functions:
*     bcm_tdpll_input_clock_init
*     bcm_tdpll_input_clock_shutdown
*     bcm_tdpll_input_clock_control
*     bcm_tdpll_input_clock_port_lookup
*     bcm_tdpll_input_clock_mac_lookup
*     bcm_tdpll_input_clock_mac_get
*     bcm_tdpll_input_clock_mac_set
*     bcm_tdpll_input_clock_reference_mac_get
*     bcm_tdpll_input_clock_frequency_error_get
*     bcm_tdpll_input_clock_threshold_state_get
*     bcm_tdpll_input_clock_enable_get
*     bcm_tdpll_input_clock_enable_set
*     bcm_tdpll_input_clock_l1mux_get
*     bcm_tdpll_input_clock_l1mux_set
*     bcm_tdpll_input_clock_valid_get
*     bcm_tdpll_input_clock_valid_set
*     bcm_tdpll_input_clock_dpll_use_get
*     bcm_tdpll_input_clock_dpll_use_set
*     bcm_tdpll_input_clock_frequency_get
*     bcm_tdpll_input_clock_frequency_set
*     bcm_tdpll_input_clock_ql_get
*     bcm_tdpll_input_clock_ql_set
*     bcm_tdpll_input_clock_priority_get
*     bcm_tdpll_input_clock_priority_set
```

```
*     bcm_tdpll_input_clock_lockout_get
*     bcm_tdpll_input_clock_lockout_set
*     bcm_tdpll_input_clock_monitor_interval_get
*     bcm_tdpll_input_clock_monitor_interval_set
*     bcm_tdpll_input_clock_monitor_threshold_get
*     bcm_tdpll_input_clock_monitor_threshold_set
*     bcm_tdpll_input_clock_ql_enabled_get
*     bcm_tdpll_input_clock_ql_enabled_set
*     bcm_tdpll_input_clock_revertive_get
*     bcm_tdpll_input_clock_revertive_set
*     bcm_tdpll_input_clock_best_get
*     bcm_tdpll_input_clock_dpll_reference_get
*     bcm_tdpll_input_clock_monitor_cb_register
*     bcm_tdpll_input_clock_monitor_cb_unregister
*     bcm_tdpll_input_clock_selector_cb_register
*     bcm_tdpll_input_clock_selector_cb_unregister
*
*     bcm_tdpll_input_clock_state_machine
*     bcm_tdpll_input_clock_reference_selector
*     bcm_tdpll_input_clock_monitor_gateway
*     bcm_tdpll_input_clock_monitor_data_get
*     bcm_tdpll_input_clock_monitor_calc
*     bcm_tdpll_input_clock_monitor_eval
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/tdpll_inputs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Katana2 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       counter.h
* Purpose:     Extern declarations for counter support.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/counter.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_o.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_o.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.239 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet Statistics Counter Management
*
* Firebolt     1024 bytes per port (128 * uint64)
* Helix        1024 bytes per port (128 * uint64)
* Felix        1024 bytes per port (128 * uint64)
* Raptor       1024 bytes per port (128 * uint64)
* Hercules:    1024 bytes per port (128 * uint64)
* HUMV:        2048 bytes per port (256 * uint64)
* Bradley:     2048 bytes per port (256 * uint64)
* Goldwing:    2048 bytes per port (256 * uint64)
* Triumph:     4096 bytes per port (512 * uint64)
*
* BCM5670 Endian: on Hercules, the well-intentioned ES_BIG_ENDIAN_OTHER
* causes counter DMA to write the most significant word first in the
* DMA buffer.  This is wrong because not all big-endian hosts have the
* same setting for ES_BIG_ENDIAN_OTHER (e.g. mousse and idtrp334).
```

```
* This problem makes it necessary to check the endian select to
* determine whether to swap words.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lkm.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/lkm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: version.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       version.c
* Purpose:     Default version file with "unknown.  Allows
*              building without version info (to compare binaries).
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/version.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_sw_db.h,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmSlqCntrsEntryConsole.hx,v 1.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmSlqCntrsEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_ofp_rates.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_ofp_rates.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_64cnt.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_64cnt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_64cnt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsQ2EcEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQ2EcEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkOamApiCommon.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: TkOamApiCommon.c
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkOamApiCommon.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassDefaultQEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassDefaultQEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer2_jer_defs.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JER2_JERICHO DEFS H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_defs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassPortEnablesEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassPortEnablesEntryConsole.hx

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/rx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_framework.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_api_framework.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cfp.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/cfp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/robo/tbx/cfp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Katana L2 functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mbcm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bitop.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Bit Array Operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bitop.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: phymod.xml,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier2/eagle_dpll.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier2/tsce_dpll_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier2/eagle_dpll_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier2/tsce_dpll.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3Pp.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/c3Pp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/switch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

User Guide for Shared BDE Library
Broadcom Corp. September 19, 2014
Last Updated: March 6, 2015

---

(1) Background

The Broadcom SDK requires that a number of hardware abstraction functions are provided through the Configuration Manager (CM) initialization. The SDK includes sample implementations of these functions in the Broadcom Device Enumerator (BDE) modules located in the $SDK/systems/bde directory.

In addition to providing the required functions for CM initialization, the BDE probes for switch devices and performs additional system initialization such as PCI bridge tuning. Many newer Broadcom switch devices also contain an embedded microcontroller (iProc) which needs to be configured switch access to work correctly from a host CPU across a PCI bus.

For more information on the CM interface and initialization, please refer to the Network Switching Software Platform Guide.

(2) Shared BDE Library

In order to support source code sharing between different BDEs and customer equivalents, certain pieces of the BDE code have been rewritten to allow sharing as well as easy integration in non-BDE implementations of the CM hardware abstraction functions.

The shared BDE source code can be found in the following directory:

$SDK/systems/bde/shared

Two classes of shared BDE functions exist:

1. PCI initialization functions
2. iProc initialization functions

The two classes of functions share the same system interface, see below for more details.

(3) System Interface

Users of the shared BDE functions must provide a simple interface to perform the actual hardware acccess. The system interface structure looks like this:

```
/* Hardware abstraction functions */
typedef struct shbde_hal_s {

  /* Optional log output interface */
  shbde_log_func_t log_func;

  /* PCI configuration access */
  unsigned char (*pcic8_read)(void *pci_dev, unsigned int reg);
  void (*pcic8_write)(void *pci_dev, unsigned int reg, unsigned char data);
  unsigned short (*pcic16_read)(void *pci_dev, unsigned int reg);
  void (*pcic16_write)(void *pci_dev, unsigned int reg, unsigned short data);
  unsigned int (*pcic32_read)(void *pci_dev, unsigned int reg);
  void (*pcic32_write)(void *pci_dev, unsigned int reg, unsigned int data);

  /* iProc register access */
  unsigned int (*io32_read)(void *addr);
  void (*io32_write)(void *addr, unsigned int);

  /* usleep function (optional) */
  void (*usleep)(int usec);

} shbde_hal_t;
```

The log output function is optional, but allows the shared BDE functions print warning and debug messages. The interface supports a severity level, a string and one parameter:

```
typedef void (*shbde_log_func_t)(int level, const char *str, int param);

#define SHBDE_ERR       0
#define SHBDE_WARN      1
#define SHBDE_DBG       2
```

The PCI configuration access functions must read/write 8/16/32-bit

entities to the PCI configuration space. An example implementation of the 16-bit access functions for Linux could look like this:

```
static unsigned short
linux_pcic16_read(void *pci_dev, unsigned int addr)
{
  u16 data;
  pci_read_config_word((struct pci_dev *)pci_dev, addr, &data);
  return data;
}

static void
linux_pcic16_write(void *pci_dev, unsigned int addr, unsigned short data)
{
  pci_write_config_word((struct pci_dev *)pci_dev, addr, (u16)data);
}
```

The iProc access functions must support memory-mapped registers in the PCI device. Usually this involves mapping a PCI Base Address Register (BAR) value into the CPU virtual memory address space.

The shared BDE iProc access functions will use a pointer to CPU virtual memory space when reading and writing registers. A sample implementation could look like this:

```
static unsigned int
linux_io32_read(void *addr)
{
  return *((volatile u32 *)addr);
}

static void
linux_io32_write(void *addr, unsigned int data)
{
  *((volatile u32 *)addr) = data;
}
```

The usleep function is optional, but provides the shared BDE functions to suspend execution for microsecond intervals. An example implementation of the usleep function for Linux could look like this:

```
static void
linux_usleep(int usec)
{
  udelay(usec);
}
```

(4) Shared BDE PCI Initialization Functions

Currently the following functions are defined:

```
extern unsigned int
shbde_pci_pcie_cap(shbde_hal_t *shbde, void *pci_dev);
```

The function requires a pointer to an initialized hardware abstraction structure (shbde) and a PCI device handle (pci_dev.) It will return a non-zero value (PCIe capability offset) if the device contains PCIe (PCI Express) capability.

```
extern unsigned int
shbde_pci_is_pcie(shbde_hal_t *shbde, void *pci_dev);
```

The function requires a pointer to an initialized hardware abstraction structure (shbde) and a PCI device handle (pci_dev.) It will return a non-zero value if the device is a PCIe (PCI Express) device.

```
extern unsigned int
shbde_pci_is_iproc(shbde_hal_t *shbde, void *pci_dev);
```

The function requires a pointer to an initialized hardware abstraction structure (shbde) and a PCI device handle (pci_dev.) It will return a non-zero value if the device has an embedded iProc microcontroller.

```
extern int
shbde_pci_max_payload_set(shbde_hal_t *shbde, void *pci_dev, int maxpayload);
```

The function requires a pointer to an initialized hardware abstraction structure (shbde), and a PCI device handle (pci_dev) and a maximum PCIe payload size (in bytes.)

The PCI device handle (pci_dev) is not used by the shared BDE functions, but it will be passed back to the caller via the HAL for use in the PCI configuration access functions.

(5) Shared BDE iProc Initialization Functions

Currently the following functions are defined:

```
extern int
shbde_iproc_paxb_init(shbde_hal_t *shbde, void *iproc_regs,
                      shbde_iproc_config_t *icfg);
```

The function requires a pointer to an initialized hardware abstraction

structure (shbde), a pointer to the iProc register memory window (iproc_regs) and the desired iProc configuration (icfg).

```
extern int
shbde_iproc_pcie_preemphasis_set(shbde_hal_t *shbde, void *iproc_regs,
                                 shbde_iproc_config_t *icfg, void *pci_dev);
```

The function requires a pointer to an initialized hardware abstraction structure (shbde), a pointer to the iProc register memory window (iproc_regs) and the desired iProc configuration (icfg), and a PCI device handle (pci_dev).

The iProc configuration structure must be initialized first using the following function:

```
extern int
shbde_iproc_config_init(shbde_iproc_config_t *icfg,
                        unsigned int dev_id, unsigned int dev_rev);
```

Note that the shbde_iproc_paxb_init function will return the iProc PCI core number used for the host CPU connection. If this value is 1 (instead of normally 0), then the SAL_DEV_BUS_ALT flag must be set in the bus_type member of the soc_cm_device_vectors_t structure when soc_cm_device_init() is called. The SAL_DEV_BUS_ALT flag is defined in $SDK/include/sal/types.h, and it is used by the switch DMA controller to map DMA transfers into the host CPU memory space.

If the system is configured to use MSI interrupts on the PCI bus, then this needs to be communicated to the switch driver through a similar flag called SAL_DEV_BUS_MSI.

Example:

```
int
iproc_init(pci_device_t *pci_dev, shbde_hal_t *shbde, void *iproc_regs)
{
  int pci_core_num;
  shbde_iproc_config_t icfg;
  soc_cm_device_vectors_t cm_dev;
 ...

  memset(&icfg, 0, sizeof(icfg));
  shbde_iproc_config_init(&icfg, pci_dev->device_id, pci_dev->rev);
  icfg.use_msi = use_msi_interrrupt;

  pci_core_num = shbde_iproc_paxb_init(shbde, iproc_regs, &icfg);
 ...
```

```
  if (pci_core_num == 1) {
     cm_dev.bus_type |= SAL_DEV_BUS_ALT;
  }
  if (use_msi_interrupt == 1) {
     cm_dev.bus_type |= SAL_DEV_BUS_MSI;
  }
 ...

  shbde_iproc_pcie_preemphasis_set(shbde, iproc_regs, &icfg, pci_dev);
 ...
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/bde-library.txt
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_pmf_low_level_pgm.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_pmf_low_level.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_pmf_low_level_pgm.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: falcon_furia_common.h 1010 2015-04-15 22:02:27Z kirand $ *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
```

```
*                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                       *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                       *
*************************************************************************
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_common.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                       *
*  Revision      :  $Id: eagle_tsc_fields_public.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                       *
*  Description   :  Register access macros for EAGLE_TSC                       *
*                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                       *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                       *
*************************************************************************
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/public/eagle_tsc_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/*
*
```

```
* $Id: quadra28_micr0_seq.c, 2014/12/16 aman $
*
5 *
5 * $Copyright: (c) 2016 Broadcom.
5 * Broadcom Proprietary and Confidential. All rights reserved.$
7  *
8  * File: quadra28.c
  * Purpose: tier1 phymod microcode download support for Broadcom 40G Quadra28
  * note
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_micro_seq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dnx_sand_exact_match.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_exact_match.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_tdm.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tdm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ethdma.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    dma.c
* Purpose:     SOC DMA LLC (Link Layer) driver; used for sending
*              and receiving packets over MII (and later, the uplink).
*      Interface via ethernet et module of bcm47xx.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ethdma.c
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporatione
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmutils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bcmutils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bcmutils.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon16_tsc_prbs.c                                    *
*  Created On    :  04 Nov 2015                                            *
*  Created By    :  Brent Roberts                                          *
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :        *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_prbs.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.1.4.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyacd.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyacd.c
* Purpose:     PHY ACD routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyacd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5482robo.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5482.c
* Purpose:     PHY driver for BCM5482 and BCM5482S
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports   Media                       MAC Interface
*     5482    2       Copper, Serdes              SGMII
*     5482S   2       Copper, Serdes              SGMII
*
* Workarounds:
*
* References:
* MCS5482S-DS200R    BCM5482S Preliminary Data Sheet
```

```
* 5482S-AN103-R      BCM5482S Configuration Guide for SFP Module with
*                    Optical/Copper Applications
* 5482S-ES101-R      BCM5482S Errata Sheet
* 5482_5482S-AN102-R Designing with BCM5482/BCM5482S
*
*    +----------+   +---------------------------+
*    |         |  |  SGMII     +->Copper      |<--> Magnetic
*    |  SGMII   |<->| (Primary <-+             |
*    | (SerDes) |  |  SerDes)   |             |
*    |         |  |           +->SGMII/      |<--> (PHY)SFP (10/100/1000)
*    +----------+   |              1000BASE-X/ |<--> 1000BASE-X SFP
*       MAC        |              100BASE-FX  |<--> 100BASE-FX SFP
*                  |             (Secondary  |
*                  |              SerDes)    |
*                  +---------------------------+
*                           5482S
*
* Notes:
* 1. Media auto-negotiation and MAC SGMII auto-negotiation must be enabled
*    to automatically detect between
*    SGMII SFP and 1000BASE-X SFP.
* 2. Auto detecting 100FX SFP is not supported.
* 3. To use 100BASE-FX,
*       First, insert the 100BASE-FX SFP and connect the fiber cable.
*       The PHY will detect energy on fiber side and switch to fiber mode.
*       Second, disable autoneg mode.
*       Third, force speed to 100. Since the PHY is in fiber mode, forcing
*       speed to 100 will put the PHY to 100BASE-FX mode.
* 4. Forcing speed on the 5482S PHY with SGMII SFP is not supported in this
*    driver. To use SGMII SFP, autoneg must be enabled.
* 5. Some SFP continues to provide energy to the PHY even when the media
*    connected is removed. For those SFPs, the PHY will not switch to
*    copper medium in combo mode even when there is no link on the fiber
*    medium because the PHY is not switching to copper mode.
* 6. If the MAC/SerDes attached to the PHY support SGMII autoneg, SGMII
*    autoneg should be enabled with "config add phy_sgmii_autoneg_ge0=1".
* 7. If the SFP module report loss of signal instead of signal detect, the
*    signal detect should be inverted with "config add phy_fiber_detect=-2".
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5482robo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: acl.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       acl.c
* Purpose:
*     Advanced ContentAware Enhanced Software (ACES) implementation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/acl/acl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    subport.c
* Purpose: Triumph SUBPORT functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane2.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane2.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_modid_local_map.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF MODID LOCAL MAP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/dnxf_modid_local_map.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_frwrd_ipv4_lpm_mngr.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4_lpm_mngr.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_fap21v_api.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap21v_api.h
No license file was found, but licenses were detected in source scan.

/*
* ! \file bcm_int/dnx/mirror/mirror_profile.h Internal DNX MIRROR PROFILE APIs
PIs $Copyright: (c) 2016 Broadcom.
PIs Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mirror/mirror_profile.h
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_fe200_chip_defines_indirect.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_fe200_chip_defines_indirect.h
No license file was found, but licenses were detected in source scan.

/* $Id: c3hppc_etu_test1.c,v 1.14 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_etu_test1.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_pb_api.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_pb_api.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: serdes.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: serdes.h
* Purpose: Defines common PHY driver routines for Broadcom XGXS core.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_frwrd_fec.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_fec.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etu_tcam.h,v 1.2 Broadcom SDK $
* File: etu_tcam.h
* Purpose: Defintions for the External TCAM

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/etu_tcam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.c,v 1.594 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chip.c
* Purpose:    Chip driver table defined
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
```

* bcm56685_a0
* bcm56685_b0
* bcm56334_a0
* bcm56334_b0
* bcm88230_a0
* bcm88230_b0
* bcm88230_c0
* bcm56840_a0
* bcm56840_b0
* bcm88650_a0
* bcm88650_b0
* bcm88660_a0
* bcm2801pm_a0
* bcm88202_a0
* bcm88675_a0
* bcm83207_a0
* bcm83208_a0
* bcm88732_a0
* bcm56440_a0
* bcm56440_b0
* bcm88030_a0
* bcm88030_a1
* bcm88030_b0
* bcm56640_a0
* bcm88750_a0
* bcm88750_b0
* bcm88754_a0
* bcm88950_a0
* bcm88790_a0
* bcm56850_a0
* bcm56450_a0
* bcm56450_b0
* bcm56450_b1
* bcm56340_a0
* bcm56150_a0
* bcm53400_a0
* bcm56960_a0
* bcm56860_a0
* bcm56560_a0
* bcm56560_b0
* bcm56260_a0
* bcm56260_b0
* bcm88375_a0
* bcm88470_a0
* bcm88470_b0
* bcm88270_a0
* bcm8206_a0
* bcm88675_b0

```
*           bcm88375_b0
*           bcm88680_a0
*           bcm88690_a0
*           bcm56160_a0
*           bcm56270_a0
*           bcm56965_a0
*           bcm56970_a0
*           bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/chip.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriLutEntry.hx
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc
init mmu
# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1

echo "there are 635 more memories to test.";echo "tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 51 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1";tr 51 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 51 M=PORT_COS_MAP IS=min IE=4 ITERations=1";tr 51 M=PORT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 51 M=COS_MAP_SEL IS=min IE=4 ITERations=1";tr 51 M=COS_MAP_SEL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 631 more memories to test.";echo "tr 51 M=CPU_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 629 more memories to test.";echo "tr 51 M=CPU_COS_MAP_ONLY IS=min IE=4
ITERations=1";tr 51 M=CPU_COS_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 628 more memories to test.";echo "tr 51 M=CPU_PBM IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 627 more memories to test.";echo "tr 51 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 51 M=CPU_TS_MAP IS=min IE=4 ITERations=1";tr 51
M=CPU_TS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 51 M=CTR_DEQ_STATUS_MEM IS=min IE=4
ITERations=1";tr 51 M=CTR_DEQ_STATUS_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 624 more memories to test.";echo "tr 51 M=CTR_FLEX_COUNT_0 IS=min IE=4 ITERations=1";tr
51 M=CTR_FLEX_COUNT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 623 more memories to test.";echo "tr 51 M=CTR_FLEX_COUNT_1 IS=min IE=4 ITERations=1";tr
51 M=CTR_FLEX_COUNT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 51 M=CTR_FLEX_COUNT_2 IS=min IE=4 ITERations=1";tr
51 M=CTR_FLEX_COUNT_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 51 M=CTR_FLEX_COUNT_3 IS=min IE=4 ITERations=1";tr
51 M=CTR_FLEX_COUNT_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 51 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min
IE=4 ITERations=1";tr 51 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 619 more memories to test.";echo "tr 51 M=DSCP_TABLE IS=min IE=4 ITERations=1";tr 51
M=DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 618 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS IS=min IE=4 ITERations=1";tr 51
M=E2E_HOL_STATUS IS=min IE=4 ITERations=1;echo "done";
echo "there are 617 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1";tr
51 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 616 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE IS=min IE=4
ITERations=1";tr 51 M=EFP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 615 more memories to test.";echo "tr 51 M=EFP_METER_TABLE IS=min IE=4 ITERations=1";tr
51 M=EFP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 613 more memories to test.";echo "tr 51 M=EFP_TCAM IS=min IE=4 ITERations=1";tr 51
M=EFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 612 more memories to test.";echo "tr 51 M=EGR_1588_SA IS=min IE=4 ITERations=1";tr 51
M=EGR_1588_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 611 more memories to test.";echo "tr 51 M=EGR_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=EGR_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 610 more memories to test.";echo "tr 51 M=EGR_CPU_COS_MAP IS=min IE=4 ITERations=1";tr
51 M=EGR_CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 51 M=EGR_DNX_HEADER IS=min IE=0 ITERations=1";tr
51 M=EGR_DNX_HEADER IS=min IE=0 ITERations=1;echo "done";
echo "there are 608 more memories to test.";echo "tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=4
```

```
ITERations=1";tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 51 M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1";tr 51
M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=4
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 605 more memories to test.";echo "tr 51 M=EGR_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 51 M=EGR_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 604 more memories to test.";echo "tr 51 M=EGR_ENABLE IS=min IE=4 ITERations=1";tr 51
M=EGR_ENABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 603 more memories to test.";echo "tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 602 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 600 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 599 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 598 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 597 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 590 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4
ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 588 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=4
ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=4 ITERations=1;echo "done";
echo "there are 587 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4
ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 586 more memories to test.";echo "tr 51 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1";tr
51 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 585 more memories to test.";echo "tr 51 M=EGR_IPMC IS=min IE=4 ITERations=1";tr 51
M=EGR_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 584 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1";tr 51
```

```
M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 583 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4
ITERations=1";tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 582 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=4
ITERations=1";tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 51 M=EGR_L3_INTF IS=min IE=4 ITERations=1";tr 51
M=EGR_L3_INTF IS=min IE=4 ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
51 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 579 more memories to test.";echo "tr 51 M=EGR_LM_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_LM_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 578 more memories to test.";echo "tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 577 more memories to test.";echo "tr 51 M=EGR_MAP_MH IS=min IE=4 ITERations=1";tr 51
M=EGR_MAP_MH IS=min IE=4 ITERations=1;echo "done";
echo "there are 576 more memories to test.";echo "tr 51 M=EGR_MASK IS=min IE=4 ITERations=1";tr 51
M=EGR_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 51 M=EGR_MASK_MODBASE IS=min IE=4
ITERations=1";tr 51 M=EGR_MASK_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 574 more memories to test.";echo "tr 51 M=EGR_MA_INDEX IS=min IE=4 ITERations=1";tr 51
M=EGR_MA_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 573 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 572 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 571 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 570 more memories to test.";echo "tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 565 more memories to test.";echo "tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=4 ITERations=1";tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 51 M=EGR_MP_GROUP IS=min IE=4 ITERations=1";tr 51
M=EGR_MP_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 563 more memories to test.";echo "tr 51 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 562 more memories to test.";echo "tr 51 M=EGR_OAM_DGLP_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_OAM_DGLP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 561 more memories to test.";echo "tr 51 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL
IS=min IE=4 ITERations=1";tr 51 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=4
```

```
ITERations=1;echo "done";
echo "there are 560 more memories to test.";echo "tr 51 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=4
ITERations=1";tr 51 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 559 more memories to test.";echo "tr 51 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 558 more memories to test.";echo "tr 51 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 557 more memories to test.";echo "tr 51 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min
IE=4 ITERations=1";tr 51 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 556 more memories to test.";echo "tr 51 M=EGR_OAM_OPCODE_GROUP IS=min IE=4
ITERations=1";tr 51 M=EGR_OAM_OPCODE_GROUP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 555 more memories to test.";echo "tr 51 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1";tr
51 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=4
ITERations=1";tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 553 more memories to test.";echo "tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 51 M=EGR_PCP_DE_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_PCP_DE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 51 M=EGR_PHYSICAL_PORT IS=min IE=4
ITERations=1";tr 51 M=EGR_PHYSICAL_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 550 more memories to test.";echo "tr 51 M=EGR_PORT IS=min IE=4 ITERations=1";tr 51
M=EGR_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 51 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=4
ITERations=1";tr 51 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 548 more memories to test.";echo "tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min
IE=0 ITERations=1";tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 547 more memories to test.";echo "tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min
IE=0 ITERations=1";tr 51 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 51 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
51 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=4
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 51 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 51 M=EGR_SAT_CONFIG_MAC_SA IS=min IE=4
ITERations=1";tr 51 M=EGR_SAT_CONFIG_MAC_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 51 M=EGR_SAT_SAMP_DATA IS=min IE=4
ITERations=1";tr 51 M=EGR_SAT_SAMP_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 51 M=EGR_SAT_SAMP_DATA_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_SAT_SAMP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 540 more memories to test.";echo "tr 51 M=EGR_SAT_SAMP_TCAM IS=min IE=4
ITERations=1";tr 51 M=EGR_SAT_SAMP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 51 M=EGR_SERVICE_PRI_MAP_0 IS=min IE=4
ITERations=1";tr 51 M=EGR_SERVICE_PRI_MAP_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 51 M=EGR_SERVICE_PRI_MAP_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_SERVICE_PRI_MAP_1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 537 more memories to test.";echo "tr 51 M=EGR_SERVICE_PRI_MAP_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_SERVICE_PRI_MAP_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 536 more memories to test.";echo "tr 51 M=EGR_SER_FIFO IS=min IE=4 ITERations=1";tr 51
M=EGR_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 51 M=EGR_VFI IS=min IE=4 ITERations=1";tr 51
M=EGR_VFI IS=min IE=4 ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 51 M=EGR_VLAN IS=min IE=4 ITERations=1";tr 51
M=EGR_VLAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 51 M=EGR_VLAN_STG IS=min IE=4 ITERations=1";tr 51
M=EGR_VLAN_STG IS=min IE=4 ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1";tr
51 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1";tr
51 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL1 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL2 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL3 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 51 M=EM_MTP_INDEX IS=min IE=3 ITERations=1";tr 51
M=EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
#echo "there are 523 more memories to test.";echo "tr 51 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 51
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 51 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=3
ITERations=1";tr 51 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min
IE=4 ITERations=1";tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 520 more memories to test.";echo "tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min
IE=4 ITERations=1";tr 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 519 more memories to test.";echo "tr 51 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1";tr
51 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 518 more memories to test.";echo "tr 51 M=FP_FLEX_KEY_SELECTOR IS=min IE=3
ITERations=1";tr 51 M=FP_FLEX_KEY_SELECTOR IS=min IE=3 ITERations=1;echo "done";
echo "there are 517 more memories to test.";echo "tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=4
ITERations=1";tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 515 more memories to test.";echo "tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 514 more memories to test.";echo "tr 51 M=FP_METER_TABLE IS=min IE=4 ITERations=1";tr 51
M=FP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 51 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 51 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1";tr
51 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 51 M=FP_PORT_METER_MAP IS=min IE=4
ITERations=1";tr 51 M=FP_PORT_METER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 51 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1";tr
51 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 509 more memories to test.";echo "tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 508 more memories to test.";echo "tr 51 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 51
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=4
ITERations=1";tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 51 M=FP_TCAM IS=min IE=4 ITERations=1";tr 51
M=FP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 51 M=GTP_PORT_TABLE IS=min IE=3 ITERations=1";tr 51
M=GTP_PORT_TABLE IS=min IE=3 ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 51 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1";tr
51 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 503 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=4
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 51 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1";tr
51 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 500 more memories to test.";echo "tr 51 M=HG_TRUNK_MEMBER IS=min IE=4
ITERations=1";tr 51 M=HG_TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
#echo "there are 499 more memories to test.";echo "tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 51 M=IARB_ING_PHYSICAL_PORT IS=min IE=4
ITERations=1";tr 51 M=IARB_ING_PHYSICAL_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 51 M=IARB_TDM_TABLE IS=min IE=4 ITERations=1";tr 51
M=IARB_TDM_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 51 M=IARB_TDM_TABLE_1 IS=min IE=4 ITERations=1";tr
51 M=IARB_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=4
ITERations=1";tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 51 M=IFP_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=IFP_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 51 M=IMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 51
M=IMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 51 M=IM_MTP_INDEX IS=min IE=3 ITERations=1";tr 51
M=IM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
```

```
echo "there are 490 more memories to test.";echo "tr 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE
IS=min IE=4 ITERations=1";tr 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 51 M=ING_DVP_TABLE IS=min IE=4 ITERations=1";tr 51
M=ING_DVP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 51 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1";tr
51 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 487 more memories to test.";echo "tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 475 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 473 more memories to test.";echo "tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=3 ITERations=1";tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 472 more memories to test.";echo "tr 51 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
51 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 51 M=ING_LM_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 51 M=ING_LM_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 470 more memories to test.";echo "tr 51 M=ING_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=ING_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 469 more memories to test.";echo "tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=4
ITERations=1";tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 51 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=4
ITERations=1";tr 51 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 467 more memories to test.";echo "tr 51 M=ING_OAM_LM_COUNTERS_0 IS=min IE=4
ITERations=1";tr 51 M=ING_OAM_LM_COUNTERS_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 466 more memories to test.";echo "tr 51 M=ING_OAM_LM_COUNTERS_1 IS=min IE=4
ITERations=1";tr 51 M=ING_OAM_LM_COUNTERS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 51 M=ING_OAM_LM_COUNTERS_2 IS=min IE=4
ITERations=1";tr 51 M=ING_OAM_LM_COUNTERS_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 51 M=ING_PHYSICAL_PORT_TABLE IS=min IE=4
ITERations=1";tr 51 M=ING_PHYSICAL_PORT_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 51 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
51 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=4
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=4 ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 51 M=ING_QUEUE_MAP IS=min IE=4 ITERations=1";tr 51
M=ING_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min
IE=4 ITERations=1";tr 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 459 more memories to test.";echo "tr 51 M=ING_SAT_SAMP_DATA IS=min IE=4
ITERations=1";tr 51 M=ING_SAT_SAMP_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 51 M=ING_SAT_SAMP_TCAM IS=min IE=4
ITERations=1";tr 51 M=ING_SAT_SAMP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 457 more memories to test.";echo "tr 51 M=ING_SERVICE_PRI_MAP_0 IS=min IE=4
ITERations=1";tr 51 M=ING_SERVICE_PRI_MAP_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 456 more memories to test.";echo "tr 51 M=ING_SERVICE_PRI_MAP_1 IS=min IE=4
ITERations=1";tr 51 M=ING_SERVICE_PRI_MAP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 51 M=ING_SERVICE_PRI_MAP_2 IS=min IE=4
ITERations=1";tr 51 M=ING_SERVICE_PRI_MAP_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 454 more memories to test.";echo "tr 51 M=ING_SER_FIFO IS=min IE=4 ITERations=1";tr 51
M=ING_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 453 more memories to test.";echo "tr 51 M=ING_SVM_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_SVM_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 452 more memories to test.";echo "tr 51 M=ING_SVM_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_SVM_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 451 more memories to test.";echo "tr 51 M=ING_SVM_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_SVM_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 450 more memories to test.";echo "tr 51 M=ING_SVM_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_SVM_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 51 M=ING_SVM_TOS_MAP IS=min IE=4 ITERations=1";tr
51 M=ING_SVM_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 448 more memories to test.";echo "tr 51 M=ING_UNTAGGED_PHB IS=min IE=4
ITERations=1";tr 51 M=ING_UNTAGGED_PHB IS=min IE=4 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 51 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1";tr
51 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4
ITERations=1";tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1";tr 51
```

```
M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=4
ITERations=1";tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 442 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 441 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min IE=4 ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=3 ITERations=1";tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 438 more memories to test.";echo "tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 51 M=L2MC IS=min IE=4 ITERations=1";tr 51 M=L2MC
IS=min IE=4 ITERations=1;echo "done";
#echo "there are 436 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 435 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_VLANS_PORT_A IS=min IE=4
ITERations=1";tr 51 M=L2_BULK_MATCH_VLANS_PORT_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_VLANS_PORT_B IS=min IE=4
ITERations=1";tr 51 M=L2_BULK_MATCH_VLANS_PORT_B IS=min IE=4 ITERations=1;echo "done";
#echo "there are 432 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 431 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 51 M=L2X IS=min IE=4 ITERations=1";tr 51 M=L2X IS=min
IE=4 ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 428 more memories to test.";echo "tr 51 M=L2_ENTRY_OVERFLOW IS=min IE=1
ITERations=1";tr 51 M=L2_ENTRY_OVERFLOW IS=min IE=1 ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_HITDA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_HITSA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 51 M=L2_MOD_FIFO IS=min IE=4 ITERations=1";tr 51
M=L2_MOD_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 424 more memories to test.";echo "tr 51 M=L2_USER_ENTRY IS=min IE=4 ITERations=1";tr 51
M=L2_USER_ENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 423 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 51 M=L3_DEFIP IS=min IE=4 ITERations=1";tr 51
M=L3_DEFIP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 420 more memories to test.";echo "tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1";tr
51 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 418 more memories to test.";echo "tr 51 M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1";tr 51
M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1";tr
51 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 51 M=L3_ECMP IS=min IE=4 ITERations=1";tr 51
M=L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 51 M=L3_ECMP_COUNT IS=min IE=4 ITERations=1";tr 51
M=L3_ECMP_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 51
M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 51 M=L3_IIF IS=min IE=4 ITERations=1";tr 51 M=L3_IIF
IS=min IE=4 ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 51 M=L3_IPMC IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 51 M=L3_IPMC_1 IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 51 M=L3_IPMC_REMAP IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC_REMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 51 M=L3_MTU_VALUES IS=min IE=4 ITERations=1";tr 51
M=L3_MTU_VALUES IS=min IE=4 ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 51 M=L3_TUNNEL IS=min IE=4 ITERations=1";tr 51
M=L3_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 399 more memories to test.";echo "tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 51 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1";tr
51 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 51 M=LLS_L0_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 396 more memories to test.";echo "tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 51 M=LLS_L0_CONFIG IS=min IE=4 ITERations=1";tr 51
M=LLS_L0_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 394 more memories to test.";echo "tr 51 M=LLS_L0_EF_NEXT IS=min IE=4 ITERations=1";tr 51
M=LLS_L0_EF_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 51 M=LLS_L0_ERROR IS=min IE=4 ITERations=1";tr 51
M=LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 51 M=LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 391 more memories to test.";echo "tr 51 M=LLS_L0_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 51 M=LLS_L0_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 51 M=LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 51 M=LLS_L0_PARENT IS=min IE=4 ITERations=1";tr 51
M=LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 51 M=LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 386 more memories to test.";echo "tr 51 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 51 M=LLS_L0_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 51 M=LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 51 M=LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 382 more memories to test.";echo "tr 51 M=LLS_L0_XOFF IS=min IE=3 ITERations=1";tr 51
M=LLS_L0_XOFF IS=min IE=3 ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 51 M=LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 51 M=LLS_L1_CONFIG IS=min IE=4 ITERations=1";tr 51
M=LLS_L1_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 378 more memories to test.";echo "tr 51 M=LLS_L1_EF_NEXT IS=min IE=4 ITERations=1";tr 51
M=LLS_L1_EF_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 51 M=LLS_L1_ERROR IS=min IE=4 ITERations=1";tr 51
M=LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 51 M=LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 375 more memories to test.";echo "tr 51 M=LLS_L1_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 51 M=LLS_L1_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 51 M=LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 372 more memories to test.";echo "tr 51 M=LLS_L1_PARENT IS=min IE=4 ITERations=1";tr 51
M=LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 51 M=LLS_L1_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 370 more memories to test.";echo "tr 51 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 51 M=LLS_L1_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 51 M=LLS_L1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 51 M=LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 366 more memories to test.";echo "tr 51 M=LLS_L1_XOFF IS=min IE=4 ITERations=1";tr 51
M=LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 51 M=LLS_L2_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 51 M=LLS_L2_EMPTY_STATE IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_EMPTY_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 51 M=LLS_L2_ERROR IS=min IE=4 ITERations=1";tr 51
M=LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
#echo "there are 361 more memories to test.";echo "tr 51 M=LLS_L2_MIN_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_MIN_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 51 M=LLS_L2_MIN_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_MIN_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 51 M=LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 51 M=LLS_L2_PARENT IS=min IE=4 ITERations=1";tr 51
M=LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 357 more memories to test.";echo "tr 51 M=LLS_L2_SHAPER_BUCKET IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_SHAPER_BUCKET IS=min IE=4 ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 51 M=LLS_L2_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_L2_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 51 M=LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1";tr
51 M=LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 354 more memories to test.";echo "tr 51 M=LLS_L2_XOFF IS=min IE=4 ITERations=1";tr 51
M=LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 51 M=LLS_PORT_CONFIG IS=min IE=4 ITERations=1";tr
51 M=LLS_PORT_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 51 M=LLS_PORT_ERROR IS=min IE=4 ITERations=1";tr 51
M=LLS_PORT_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 351 more memories to test.";echo "tr 51 M=LLS_PORT_HEADS IS=min IE=4 ITERations=1";tr 51
M=LLS_PORT_HEADS IS=min IE=4 ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 51 M=LLS_PORT_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 349 more memories to test.";echo "tr 51 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 348 more memories to test.";echo "tr 51 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
#echo "there are 347 more memories to test.";echo "tr 51 M=LLS_PORT_TAILS IS=min IE=4 ITERations=1";tr 51
M=LLS_PORT_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 51 M=LLS_PORT_TDM IS=min IE=4 ITERations=1";tr 51
M=LLS_PORT_TDM IS=min IE=4 ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 51 M=LLS_PORT_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
#echo "there are 344 more memories to test.";echo "tr 51 M=LLS_PORT_XOFF IS=min IE=0 ITERations=1";tr 51
M=LLS_PORT_XOFF IS=min IE=0 ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 51 M=LLS_S1_CONFIG IS=min IE=4 ITERations=1";tr 51
M=LLS_S1_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 51 M=LLS_S1_ERROR IS=min IE=4 ITERations=1";tr 51
M=LLS_S1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 51 M=LLS_S1_HEADS IS=min IE=4 ITERations=1";tr 51
M=LLS_S1_HEADS IS=min IE=4 ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 51 M=LLS_S1_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=LLS_S1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 339 more memories to test.";echo "tr 51 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=4
ITERations=1";tr 51 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 51 M=LLS_S1_SHAPER_CONFIG_C IS=min IE=4
ITERations=1";tr 51 M=LLS_S1_SHAPER_CONFIG_C IS=min IE=4 ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 51 M=LLS_S1_TAILS IS=min IE=4 ITERations=1";tr 51
M=LLS_S1_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 51 M=LLS_S1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=LLS_S1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 51 M=LMEP IS=min IE=4 ITERations=1";tr 51 M=LMEP
IS=min IE=4 ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 51 M=LMEP_1 IS=min IE=4 ITERations=1";tr 51
M=LMEP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=4 ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 332 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=4 ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=4
ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 51 M=LPORT_TAB IS=min IE=4 ITERations=1";tr 51
M=LPORT_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 51 M=MAC_BLOCK IS=min IE=4 ITERations=1";tr 51
M=MAC_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 51 M=MAID_REDUCTION IS=min IE=4 ITERations=1";tr
51 M=MAID_REDUCTION IS=min IE=4 ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 51 M=MA_INDEX IS=min IE=4 ITERations=1";tr 51
M=MA_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 51 M=MA_STATE IS=min IE=4 ITERations=1";tr 51
M=MA_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 51 M=MIRROR_CONTROL IS=min IE=4 ITERations=1";tr
51 M=MIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 325 more memories to test.";echo "tr 51 M=MMU_AGING_CTR_INT IS=min IE=4
ITERations=1";tr 51 M=MMU_AGING_CTR_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 51 M=MMU_AGING_EXP_INT IS=min IE=4
ITERations=1";tr 51 M=MMU_AGING_EXP_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 51 M=MMU_AGING_LMT_INT IS=min IE=4
ITERations=1";tr 51 M=MMU_AGING_LMT_INT IS=min IE=4 ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 51 M=MMU_CBPI_0 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 51 M=MMU_CBPI_1 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 51 M=MMU_CBPI_10 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 51 M=MMU_CBPI_11 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 318 more memories to test.";echo "tr 51 M=MMU_CBPI_2 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 317 more memories to test.";echo "tr 51 M=MMU_CBPI_3 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 51 M=MMU_CBPI_4 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 51 M=MMU_CBPI_5 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 314 more memories to test.";echo "tr 51 M=MMU_CBPI_6 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 313 more memories to test.";echo "tr 51 M=MMU_CBPI_7 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 312 more memories to test.";echo "tr 51 M=MMU_CBPI_8 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 51 M=MMU_CBPI_9 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPI_9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 310 more memories to test.";echo "tr 51 M=MMU_CCPI_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_CCPI_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 309 more memories to test.";echo "tr 51 M=MMU_CELLLINKI IS=min IE=4 ITERations=1";tr 51
M=MMU_CELLLINKI IS=min IE=4 ITERations=1;echo "done";
echo "there are 308 more memories to test.";echo "tr 51 M=MMU_CFAPI_BITMAP IS=min IE=4
ITERations=1";tr 51 M=MMU_CFAPI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 51 M=MMU_CFAPI_STACK IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAPI_STACK IS=min IE=4 ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4
ITERations=1";tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 51
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=4 ITERations=1;echo "done";
#echo "there are 304 more memories to test.";echo "tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 303 more memories to test.";echo "tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min IE=4
```

```
ITERations=1";tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 51 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min
IE=4 ITERations=1";tr 51 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 300 more memories to test.";echo "tr 51 M=MMU_ENQ_FAP_BITMAP IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_FAP_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 51 M=MMU_ENQ_FAP_STACK IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_FAP_STACK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 298 more memories to test.";echo "tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 297 more memories to test.";echo "tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 51 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 51 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 51 M=MMU_EXT_MC_GROUP_MAP IS=min IE=4
ITERations=1";tr 51 M=MMU_EXT_MC_GROUP_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 51 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=4
ITERations=1";tr 51 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 51 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=4
ITERations=1";tr 51 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 51 M=MMU_INITIAL_NHOP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INITIAL_NHOP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=3
ITERations=1";tr 51 M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=3 ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 283 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 282 more memories to test.";echo "tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 281 more memories to test.";echo "tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
#echo "there are 280 more memories to test.";echo "tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 279 more memories to test.";echo "tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 278 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 51 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 51 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 275 more memories to test.";echo "tr 51 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 274 more memories to test.";echo "tr 51 M=MMU_IPMC_GROUP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_IPMC_GROUP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 273 more memories to test.";echo "tr 51 M=MMU_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=MMU_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 272 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 271 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 270 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 269 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 268 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=4
ITERations=1";tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 267 more memories to test.";echo "tr 51 M=MMU_QSTRUCT_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_QSTRUCT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 266 more memories to test.";echo "tr 51 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 265 more memories to test.";echo "tr 51 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 264 more memories to test.";echo "tr 51 M=MMU_RDE_TXQ_FLL IS=min IE=4 ITERations=1";tr
51 M=MMU_RDE_TXQ_FLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 263 more memories to test.";echo "tr 51 M=MMU_RDE_TXQ_QLL IS=min IE=4 ITERations=1";tr
51 M=MMU_RDE_TXQ_QLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 262 more memories to test.";echo "tr 51 M=MMU_RDE_TXQ_STATE IS=min IE=4
ITERations=1";tr 51 M=MMU_RDE_TXQ_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 261 more memories to test.";echo "tr 51 M=MMU_REPL_GRP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_GRP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 260 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 259 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 258 more memories to test.";echo "tr 51 M=MMU_REPL_MAP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 257 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 256 more memories to test.";echo "tr 51 M=MMU_RPFAP_BITMAP IS=min IE=4
ITERations=1";tr 51 M=MMU_RPFAP_BITMAP IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 255 more memories to test.";echo "tr 51 M=MMU_RPFAP_STACK IS=min IE=4 ITERations=1";tr
51 M=MMU_RPFAP_STACK IS=min IE=4 ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 51 M=MMU_RQE_QMGR_FLL IS=min IE=4
ITERations=1";tr 51 M=MMU_RQE_QMGR_FLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 253 more memories to test.";echo "tr 51 M=MMU_RQE_QMGR_QLL IS=min IE=4
ITERations=1";tr 51 M=MMU_RQE_QMGR_QLL IS=min IE=4 ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 51 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min IE=4
ITERations=1";tr 51 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 251 more memories to test.";echo "tr 51 M=MMU_RQE_WORK_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_RQE_WORK_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 51 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 51 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min IE=4 ITERations=1;echo "done";
echo "there are 248 more memories to test.";echo "tr 51 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 247 more memories to test.";echo "tr 51 M=MMU_THDO_OPNCONFIG_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNCONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 246 more memories to test.";echo "tr 51 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 51 M=THDO_OPNCOUNT_QENTRY IS=min IE=4
ITERations=1";tr 51 M=THDO_OPNCOUNT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 244 more memories to test.";echo "tr 51 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 243 more memories to test.";echo "tr 51 M=MMU_THDO_OPNOFFSET_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNOFFSET_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 242 more memories to test.";echo "tr 51 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 51 M=MMU_THDO_OPNSTATUS_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_OPNSTATUS_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 51 M=MMU_THDO_QCONFIG_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QCONFIG_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 51 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 238 more memories to test.";echo "tr 51 M=MMU_THDO_QCOUNT_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QCOUNT_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 51 M=THDO_QCOUNT_QENTRY IS=min IE=4
ITERations=1";tr 51 M=THDO_QCOUNT_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 51 M=MMU_THDO_QOFFSET_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QOFFSET_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 235 more memories to test.";echo "tr 51 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 234 more memories to test.";echo "tr 51 M=MMU_THDO_QRESET_VALUE_CELL IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QRESET_VALUE_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 51 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 232 more memories to test.";echo "tr 51 M=MMU_THDO_QSTATUS_CELL IS=min IE=4
```

```
ITERations=1";tr 51 M=MMU_THDO_QSTATUS_CELL IS=min IE=4 ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 51 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 51 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 229 more memories to test.";echo "tr 51 M=MMU_TOQ_STATE_MEM0 IS=min IE=4
ITERations=1";tr 51 M=MMU_TOQ_STATE_MEM0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 228 more memories to test.";echo "tr 51 M=MMU_TOQ_STATE_MEM1 IS=min IE=4
ITERations=1";tr 51 M=MMU_TOQ_STATE_MEM1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 227 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 226 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 222 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 221 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 220 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min IE=4 ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 217 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min IE=4 ITERations=1;echo "done";
#echo "there are 216 more memories to test.";echo "tr 51 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min IE=4 ITERations=1;echo "done";
#echo "there are 215 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER IS=min IE=4
ITERations=1;echo "done";
#echo "there are 214 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY IS=min IE=4
ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min
```

```
IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min IE=4 ITERations=1;echo
"done";
echo "there are 212 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 211 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 210 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min IE=4 ITERations=1;echo
"done";
echo "there are 209 more memories to test.";echo "tr 51 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min
IE=4 ITERations=1";tr 51 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 51 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 51 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 51 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 51 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 51 M=MODPORT_MAP_MIRROR IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 51 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 51 M=MPLS_ENTRY IS=min IE=4 ITERations=1";tr 51
M=MPLS_ENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 51 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=4
ITERations=1";tr 51 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 51 M=MP_GROUP IS=min IE=4 ITERations=1";tr 51
M=MP_GROUP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 199 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 51 M=MY_STATION_TCAM IS=min IE=4 ITERations=1";tr
51 M=MY_STATION_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 51 M=NHI_GROUP_TC_PROFILE IS=min IE=4
ITERations=1";tr 51 M=NHI_GROUP_TC_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 192 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min IE=4 ITERations=1;echo
```

```
"done";
echo "there are 191 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 190 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 188 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 186 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 185 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 184 more memories to test.";echo "tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 183 more memories to test.";echo "tr 51 M=OAMP_PE_0_PROG_TCAM IS=min IE=4
ITERations=1";tr 51 M=OAMP_PE_0_PROG_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 51 M=OAMP_PE_1_PROG_TCAM IS=min IE=4
ITERations=1";tr 51 M=OAMP_PE_1_PROG_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 51 M=OAMP_RX_OAM_ID_TCAM IS=min IE=4
ITERations=1";tr 51 M=OAMP_RX_OAM_ID_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 51 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 179 more memories to test.";echo "tr 51 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min
IE=4 ITERations=1";tr 51 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 178 more memories to test.";echo "tr 51 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=4
ITERations=1";tr 51 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=4 ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 51 M=OAM_DGLP_PROFILE IS=min IE=4 ITERations=1";tr
51 M=OAM_DGLP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 51 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min
IE=4 ITERations=1";tr 51 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 175 more memories to test.";echo "tr 51 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4
ITERations=1";tr 51 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 174 more memories to test.";echo "tr 51 M=OAM_OPCODE_GROUP IS=min IE=4
ITERations=1";tr 51 M=OAM_OPCODE_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 51 M=PHB2_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=PHB2_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 51 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=4
ITERations=1";tr 51 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=4 ITERations=1;echo "done";
```

```
#echo "there are 171 more memories to test.";echo "tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 170 more memories to test.";echo "tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 169 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE IS=min IE=4 ITERations=1";tr 51
M=PORT_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 51 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=4
ITERations=1";tr 51 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 51 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=4
ITERations=1";tr 51 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=4 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 51 M=PORT_TAB IS=min IE=4 ITERations=1";tr 51
M=PORT_TAB IS=min IE=4 ITERations=1;echo "done";
#echo "there are 164 more memories to test.";echo "tr 51 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=0
ITERations=1";tr 51 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 163 more memories to test.";echo "tr 51 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=0
ITERations=1";tr 51 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 162 more memories to test.";echo "tr 51 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=0
ITERations=1";tr 51 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 161 more memories to test.";echo "tr 51 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=0
ITERations=1";tr 51 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=0 ITERations=1;echo "done";
echo "there are 160 more memories to test.";echo "tr 51 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 51 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=4 ITERations=1";tr 51 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 158 more memories to test.";echo "tr 51 M=RMEP IS=min IE=4 ITERations=1";tr 51 M=RMEP
IS=min IE=4 ITERations=1;echo "done";
echo "there are 157 more memories to test.";echo "tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=4
ITERations=1";tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=4
ITERations=1";tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER0 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER1 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER10 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER11 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 151 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER2 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 150 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER3 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 149 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER4 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 148 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER5 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER5 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 147 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER6 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER7 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER8 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 51 M=RXLP_DEBUG_COUNTER9 IS=min IE=4
ITERations=1";tr 51 M=RXLP_DEBUG_COUNTER9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 142 more memories to test.";echo "tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 141 more memories to test.";echo "tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 140 more memories to test.";echo "tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 139 more memories to test.";echo "tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 138 more memories to test.";echo "tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 137 more memories to test.";echo "tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 136 more memories to test.";echo "tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min
IE=4 ITERations=1";tr 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 135 more memories to test.";echo "tr 51 M=RXLP_MAX_FRAME_SIZE IS=min IE=4
ITERations=1";tr 51 M=RXLP_MAX_FRAME_SIZE IS=min IE=4 ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=4
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=4 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=4
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=4 ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 51 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1";tr
51 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 51 M=SER_ACC_TYPE_MAP IS=min IE=4 ITERations=1";tr
51 M=SER_ACC_TYPE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 51 M=SER_MEMORY IS=min IE=4 ITERations=1";tr 51
M=SER_MEMORY IS=min IE=4 ITERations=1;echo "done";
```

```
#echo "there are 127 more memories to test.";echo "tr 51 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 126 more memories to test.";echo "tr 51 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 125 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 124 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 123 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 122 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 121 more memories to test.";echo "tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 120 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 118 more memories to test.";echo "tr 51 M=SOURCE_VP IS=min IE=4 ITERations=1";tr 51
M=SOURCE_VP IS=min IE=4 ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 51 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1";tr
51 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4
ITERations=1";tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY
IS=min IE=4 ITERations=1";tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY IS=min IE=4
ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min
IE=4 ITERations=1";tr 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 112 more memories to test.";echo "tr 51 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=4
ITERations=1";tr 51 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 51 M=SVM_METER_TABLE IS=min IE=4 ITERations=1";tr
51 M=SVM_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 51 M=SVM_OFFSET_TABLE IS=min IE=4 ITERations=1";tr
51 M=SVM_OFFSET_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 109 more memories to test.";echo "tr 51 M=SVM_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=SVM_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=4
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 107 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 51 M=TCP_FN IS=min IE=4 ITERations=1";tr 51
M=TCP_FN IS=min IE=4 ITERations=1;echo "done";
#echo "there are 105 more memories to test.";echo "tr 51 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 51 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
```

```
#echo "there are 104 more memories to test.";echo "tr 51 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 51 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
#echo "there are 103 more memories to test.";echo "tr 51 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=4
ITERations=1";tr 51 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo "done";
#echo "there are 102 more memories to test.";echo "tr 51 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 51 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 101 more memories to test.";echo "tr 51 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 51 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
#echo "there are 100 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 99 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 51 M=TOS_FN IS=min IE=4 ITERations=1";tr 51 M=TOS_FN
IS=min IE=4 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 51 M=TRUNK_BITMAP IS=min IE=4 ITERations=1";tr 51
M=TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 51 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1";tr
51 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 51 M=TRUNK_GROUP IS=min IE=4 ITERations=1";tr 51
M=TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 51 M=TRUNK_MEMBER IS=min IE=4 ITERations=1";tr 51
M=TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 51 M=TTL_FN IS=min IE=4 ITERations=1";tr 51 M=TTL_FN
IS=min IE=4 ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER0 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER1 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER10 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER11 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER2 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER3 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER4 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER5 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 84 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER6 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 83 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER7 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER8 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 51 M=TXLP_DEBUG_COUNTER9 IS=min IE=4
ITERations=1";tr 51 M=TXLP_DEBUG_COUNTER9 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 80 more memories to test.";echo "tr 51 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min
IE=4 ITERations=1";tr 51 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 79 more memories to test.";echo "tr 51 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=3
ITERations=1";tr 51 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=3 ITERations=1;echo "done";
echo "there are 78 more memories to test.";echo "tr 51 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min
IE=3 ITERations=1";tr 51 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 77 more memories to test.";echo "tr 51 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 76 more memories to test.";echo "tr 51 M=INITIAL_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=4 ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 74 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=4 ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 73 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET IS=min IE=4 ITERations=1";tr 51
M=FP_UDF_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 51 M=FP_UDF_TCAM IS=min IE=4 ITERations=1";tr 51
M=FP_UDF_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 68 more memories to test.";echo "tr 51 M=VFI IS=min IE=4 ITERations=1";tr 51 M=VFI IS=min
IE=4 ITERations=1;echo "done";
echo "there are 67 more memories to test.";echo "tr 51 M=VFI_1 IS=min IE=4 ITERations=1";tr 51 M=VFI_1
IS=min IE=4 ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4
ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4
ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4 ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 51 M=VFP_TCAM IS=min IE=4 ITERations=1";tr 51
M=VFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 51 M=VLAN_TAB IS=min IE=4 ITERations=1";tr 51
M=VLAN_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 61 more memories to test.";echo "tr 51 M=VLAN_MAC IS=min IE=4 ITERations=1";tr 51
M=VLAN_MAC IS=min IE=4 ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 51 M=VLAN_MAC_OVERFLOW IS=min IE=4
ITERations=1";tr 51 M=VLAN_MAC_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 51 M=VLAN_MPLS IS=min IE=4 ITERations=1";tr 51
M=VLAN_MPLS IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 58 more memories to test.";echo "tr 51 M=VLAN_OR_VFI_MAC_COUNT IS=min IE=4
ITERations=1";tr 51 M=VLAN_OR_VFI_MAC_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 57 more memories to test.";echo "tr 51 M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=4
ITERations=1";tr 51 M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=4 ITERations=1;echo "done";
echo "there are 56 more memories to test.";echo "tr 51 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1";tr
51 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 55 more memories to test.";echo "tr 51 M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1";tr 51
M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 54 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL IS=min IE=4 ITERations=1";tr 51
M=VLAN_PROTOCOL IS=min IE=4 ITERations=1;echo "done";
echo "there are 53 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=4
ITERations=1";tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 52 more memories to test.";echo "tr 51 M=STG_TAB IS=min IE=4 ITERations=1";tr 51
M=STG_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 51 more memories to test.";echo "tr 51 M=VLAN_SUBNET IS=min IE=4 ITERations=1";tr 51
M=VLAN_SUBNET IS=min IE=4 ITERations=1;echo "done";
echo "there are 50 more memories to test.";echo "tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 49 more memories to test.";echo "tr 51 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1";tr
51 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 48 more memories to test.";echo "tr 51 M=VLAN_XLATE IS=min IE=4 ITERations=1";tr 51
M=VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 47 more memories to test.";echo "tr 51 M=VLAN_XLATE_OVERFLOW IS=min IE=4
ITERations=1";tr 51 M=VLAN_XLATE_OVERFLOW IS=min IE=4 ITERations=1;echo "done";
echo "there are 46 more memories to test.";echo "tr 51 M=VRF IS=min IE=4 ITERations=1";tr 51 M=VRF IS=min
IE=4 ITERations=1;echo "done";
#echo "there are 45 more memories to test.";echo "tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=4
ITERations=1";tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=4 ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 44  more memories to test.';echo 'tr 51 M=EGRESS_PACKET_BUFFER0 IS=min IE=4
ITERations=1';tr 51 M=EGRESS_PACKET_BUFFER0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 43  more memories to test.';echo 'tr 51 M=EGRESS_PACKET_BUFFER1 IS=min IE=4
ITERations=1';tr 51 M=EGRESS_PACKET_BUFFER1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 42  more memories to test.';echo 'tr 51 M=EGRESS_PACKET_BUFFER2 IS=min IE=4
ITERations=1';tr 51 M=EGRESS_PACKET_BUFFER2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 41  more memories to test.';echo 'tr 51 M=EGRESS_PACKET_BUFFER3 IS=min IE=4
ITERations=1';tr 51 M=EGRESS_PACKET_BUFFER3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 40  more memories to test.';echo 'tr 51 M=EGR_PBE_DEBUG_0 IS=min IE=4 ITERations=1';tr 51
M=EGR_PBE_DEBUG_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 39  more memories to test.';echo 'tr 51 M=EGR_PBE_DEBUG_1 IS=min IE=4 ITERations=1';tr 51
M=EGR_PBE_DEBUG_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 38  more memories to test.';echo 'tr 51 M=IARB_GIH_DEBUG IS=min IE=4 ITERations=1';tr 51
M=IARB_GIH_DEBUG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 37  more memories to test.';echo 'tr 51 M=IARB_IPAD_DEBUG IS=min IE=4 ITERations=1';tr 51
M=IARB_IPAD_DEBUG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 36  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_0_HI IS=min IE=4 ITERations=1';tr
51 M=ING_PBI_DEBUG_0_HI IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 35  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_0_LO IS=min IE=4 ITERations=1';tr
```

```
51 M=ING_PBI_DEBUG_0_LO IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 51 M=ING_PBI_DEBUG_1 IS=min IE=4 ITERations=1';tr 51
M=ING_PBI_DEBUG_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER0 IS=min IE=4
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER1 IS=min IE=4
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER2 IS=min IE=4
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER2 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 51 M=IPARS_PACKET_BUFFER3 IS=min IE=4
ITERations=1';tr 51 M=IPARS_PACKET_BUFFER3 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 51 M=LINK_STATUS IS=min IE=4 ITERations=1';tr 51
M=LINK_STATUS IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 51 M=EGR_EDBIL_PKT_SOP IS=min IE=4 ITERations=1';tr
51 M=EGR_EDBIL_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 27 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=4
ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1';tr
51 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 51 M=EGR_PORT_PKT_SOP IS=min IE=4 ITERations=1';tr
51 M=EGR_PORT_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
51 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 51 M=IARB_CELL_PKT_SOP IS=min IE=4 ITERations=1';tr
51 M=IARB_CELL_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 51 M=MMU_INTFI_DEBUG_MEM IS=min IE=4
ITERations=1';tr 51 M=MMU_INTFI_DEBUG_MEM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 51 M=OAMP_PE_GEN_MEM IS=min IE=4 ITERations=1';tr
51 M=OAMP_PE_GEN_MEM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 51 M=OAMP_PE_PROGRAM IS=min IE=4 ITERations=1';tr
51 M=OAMP_PE_PROGRAM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 51 M=OAMP_SAT_RX_FLOW_ID IS=min IE=4
ITERations=1';tr 51 M=OAMP_SAT_RX_FLOW_ID IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 51 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=4
ITERations=1';tr 51 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 51 M=OAMP_SAT_RX_FLOW_STATS IS=min IE=4
ITERations=1';tr 51 M=OAMP_SAT_RX_FLOW_STATS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 51 M=OAMP_SAT_TX IS=min IE=4 ITERations=1';tr 51
M=OAMP_SAT_TX IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 51 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min IE=4
ITERations=1';tr 51 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 51 M=RXLP_ERROR_ACTION_MAP_DATA IS=min IE=4
ITERations=1';tr 51 M=RXLP_ERROR_ACTION_MAP_DATA IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 51 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min IE=4
ITERations=1';tr 51 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 51 M=RXLP_INTR_DATA_MEM IS=min IE=4
ITERations=1';tr 51 M=RXLP_INTR_DATA_MEM IS=min IE=4 ITERations=1;echo 'done';
```

```
#echo 'there are 11 more memories to test.';echo 'tr 51 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=4
ITERations=1';tr 51 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 51 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=4
ITERations=1';tr 51 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 51 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=4
ITERations=1';tr 51 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 51 M=THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1';tr
51 M=THDI_PORT_SP_CNTRS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 51 M=THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1';tr
51 M=THDI_PORT_SP_CONFIG IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 51 M=TXLP_PORT_MMU_REQUESTS IS=min IE=4
ITERations=1';tr 51 M=TXLP_PORT_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 51 M=TXLP_PORT_PKT_SOP IS=min IE=4 ITERations=1';tr
51 M=TXLP_PORT_PKT_SOP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 51 M=TXLP_PORT_REQUESTS IS=min IE=4 ITERations=1';tr
51 M=TXLP_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 51 M=TXLP_PORT_USED_ENTRIES IS=min IE=4
ITERations=1';tr 51 M=TXLP_PORT_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 51 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=4
ITERations=1';tr 51 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 51 M=TXLP_STREAM_USED_ENTRIES IS=min IE=4
ITERations=1';tr 51 M=TXLP_STREAM_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- VENDOR memories-----------------------------------------------------------------
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr51_bcm56270_a0.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_pb_pp_acc2.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_pb_pp_acc2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Internal regex function prototypes.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bregex.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: entry.h
* Purpose: BCM API RPC entry enumeration
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/rpc/entry.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsConfig.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flashFsConfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaPortPriEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaPortPriEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp_rop.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_kbp_rop.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: huracan_reg_access.c 2014/12/18 Aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/huracan_reg_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: api_ref.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: api_ref.h
* Purpose: BCM API routines reference
* Generator: mkdispatch
* Generated: Fri Aug 19 23:36:26 2011
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/api_ref.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_l2cache.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Module: L2_CACHE APIs
*
* Purpose:
*     L2_CACHE API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_l2cache.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_sf.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter/robo_sf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpc.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  dpc.c
* Purpose:  Deferred Procedure Call module
*
* sal_dpc_init() starts a thread to process deferred procedure calls.
* sal_dpc_term() stops the thread.
*
* sal_dpc() enqueues a function that will be called by the thread ASAP.
* sal_dpc_time() enqueues a function that will be called by the
*  thread a specified amount of time in the future.
*
* DPC allows owner range in full uint32 range but keeps owner status for
* owner between 0 and SAL_DPC_MAX_NUM_UNITS, which is ususally the unit ID
* in a multi-chip environment. DPC will check the status of owners in this
* range while executing DPC from them. The following functions are supported
* for the owners in SAL_DPC_MAX_NUM_UNITS range.
*
* sal_dpc_enable() enable a specified owner to execute DPCs
* sal_dpc_disable() submit a dpc to disable a specified owner to execute DPCs
* sal_dpc_disable_and_wait() disable a specified owner to execute DPCs and
```

```
*      wait until all reamining dpc's are executed for this owner
*
* When DPC user pass NULL for parameter owner, DPC will assign the owner
* to be SAL_DPC_OWNER_NULL so we can avoid unexpected owner value
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/dpc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_error_entry.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        cint_error_entry.h
* Purpose:     Declare error constants depending on CINT_ERROR_LIST_ENTRY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_error_entry.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ddr.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/ddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmexterncend.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmexterncend.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_dram.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_dram.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mpls.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/mpls.h
No license file was found, but licenses were detected in source scan.

/**
****
* *
* Revision : $Id: falcon_api_uc_vars_rdwr_defns.h 857 2015-01-16 22:22:38Z kirand $ *
* *
* Description : Read/Write macros to Falcon IP's uC RAM's User variables *
* *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ *
* No portions of this material may be reproduced in any form without *
* the written permission of: *
* Broadcom Corporation *
* 5300 California Avenue *
* Irvine, CA 92617 *
* *
* All information contained in this document is Broadcom Corporation *
* company private proprietary, and trade secret. *
* *
****
**/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_api_uc_vars_rdwr_defns.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_sesto_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_petra_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_petra_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hw_log.c,v 1 2014/09/22 12:12:10 Miry Heller Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Hw Log journal for Crash Recovery LOG Mechanism.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/hwstate/hw_log.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: error.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common error codes to be shared between API layers.
*
* Its contents are not used directly by applications; it is used only
```

* by header files of parent APIs which need to define error codes.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/error.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_ip_route_basic.c,v 1.34 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/sand/cint_ip_route_basic.c
No license file was found, but licenses were detected in source scan.

/* $Id: l3.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hurricane2 LPM implementation
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/l3.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_framework.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_framework.h
No license file was found, but licenses were detected in source scan.

/*
* OS Abstraction Layer
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: osl.h,v 1.1 Broadcom SDK $

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/osl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bregex.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bregex.c
* Purpose:    Regex common APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/bregex.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    util.c
*
* Purpose:
*
* Functions:
*      _bcm_ptp_uint16_read
*      _bcm_ptp_uint32_read
*      _bcm_ptp_uint64_read
*      _bcm_ptp_uint16_write
*      _bcm_ptp_uint32_write
*      _bcm_ptp_uint64_write
*      _bcm_ptp_int64_read
*      _bcm_ptp_function_precheck
*      _bcm_ptp_clock_lookup
*      _bcm_ptp_peer_address_convert
*      _bcm_ptp_port_address_convert
*      _bcm_ptp_peer_address_raw_compare
*      _bcm_ptp_peer_address_compare
*      _bcm_ptp_port_address_compare
*      _bcm_ptp_addr_len
*      _bcm_ptp_is_clockid_null
*      _bcm_ptp_port_address_cmp
```

```
*      _bcm_ptp_dump_hex
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/util.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: falcon_furia_internal.h 1010 2015-04-15 22:02:27Z kirand $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56640_a0.c
* Purpose:     bcm56640_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56640_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriLutAddrConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane chipcommon serial flash interface
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sflash.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sflash.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_s.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_s.i
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: memtune.h,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       memtune.h
* Purpose:     External memory interface tuning routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/memtune.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_multi_device_utils.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_multi_device_utils.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_reg_access.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       soc_tmcreg_access.c
*
* MODULE PREFIX:  soc_tmcreg_access
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_reg_access.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_em.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_sim_em.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_user_callback.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_user_callback.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_user_callback.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: autocli.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/autocli.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: wb_db_vswitch.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:
* Warm boot support to handle vswitch module.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_vswitch.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLastSentPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLastSentPriEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision     :  $Id: srds_api_enum.h 1355 2016-02-12 23:21:46Z cvazquez $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/common/srds_api_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/public/srds_api_enum_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_util.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ============================================================
* == qe2000_util.c - QE util routines                       ==
* ============================================================
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_util.c
No license file was found, but licenses were detected in source scan.

```
/*
  $Id: $
  $Copyright: (c) 2016 Broadcom.
  Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* Skeleton interface for Bison's Yacc-like parsers in C

    Copyright (C) 1984, 1989, 1990, 2000, 2001, 2002, 2003, 2004, 2005, 2006
  Free Software Foundation, Inc.

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.

  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */
/* As a special exception, you may create a larger work that contains
  part or all of the Bison parser skeleton and distribute that work
  under terms of your choice, so long as that work isn't itself a
  parser generator using the skeleton or a modified version thereof
  as a parser skeleton.  Alternatively, if you modify or redistribute
  the parser skeleton itself, you may (at your option) remove this
  special exception, which will cause the skeleton and the resulting
  Bison output files to be licensed under the GNU General Public
  License without this special exception.

  This special exception was added by the Free Software Foundation in
  version 2.2 of Bison.  */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/api_grammar.tab.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: northstar_service.c,v 1.17 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/northstar_service.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Make definitions for compilation of WRX for an executable that serves
# all architectures including JR2
#
FEATURE_LIST := CINT L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE TCL BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU ATPTRANS_SOCKET DUNE_UI INTR APIMODE PTP KBP

DEBUG_CFLAGS=-Wdeclaration-after-statement

BCM_PTL_SPT=1

ALL_DPP_CHIPS = 1
#
# Specify that, in addition to DPP, we want to compile for the new DNX line, starting
# with JR2
#
ALL_DNX_CHIPS = 1
ALL_DNXF_CHIPS = 1
ALL_DFE_CHIPS = 1

KERN_VER=3.7.10

CFGFLAGS += -DSTATIC=static
# To be returned after fixing crash recovery mechanism (clean from dpp)
#CFGFLAGS += -DCRASH_RECOVERY_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -DBCM_EASY_RELOAD_WB_COMPAT_SUPPORT
CFGFLAGS += -DBCM_CONTROL_API_TRACKING
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
CFGFLAGS += -DPHYS_ADDRS_ARE_64BITS -DSAL_BDE_32BIT_USER_64BIT_KERNEL
CFGFLAGS += -D_SIMPLE_MEMORY_ALLOCATION_=0 -DUSE_LINUX_BDE_MMAP=1
CFGFLAGS += -DSCACHE_CRC_CHECK
```

```
CFGFLAGS += -DBROADCOM_SVK

KBP_DEVICE := KBP_ALG
#
# Original line was:
#   VENDOR_LIST=CUSTOMER78 BROADCOM DNX
# TEMPORARILY, remove 'BROADCOM' since this causes collision between PEMLA drv
# on QAX and on DNX.
# See src\soc\dpp\QAX\Makefile
# Once this collision is fixed, the line above may be brought back.
#/
VENDOR_LIST=CUSTOMER78 BROADCOM
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/dnx/Make.custom.wrx_dnx_dpp
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_bfd_ipv6.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_bfd_ipv6.c
* Purpose: Example of using BFD IPv6 APIs that tests for BFD connection to bring seesions UP.
*
* Soc Properties configuration:
*     mcs_load_uc0=bfd_bhh to configure to load the mcs image.
*     custom_feature_bfd_ipv6_mode=2 to configure to support the BFD over IPv6 by uKernel
*     bfd_simple_password_keys=8 to configure the simple password auth key number.
*     bfd_sha1_keys=8 to configure the sha1 auth key number
*     port_priorities.BCM88650=8 to configure the number of priorities at egq.
*     num_queues_pci=32 to configure the ARAD cosq numbers, from 0-32.
*     num_queues_uc0=8 to configure the ARM core 0 cosq numbers, from 32-40.
*     ucode_port_204.BCM88650=CPU.32 to configure local port 204 to send the DSP packet.
*     tm_port_header_type_in_204.BCM88650=INJECTED_2_PP
*     tm_port_header_type_out_204.BCM88650=CPU to trap the BFD packet to uKernel with the FTMH and PPH
header
*
* Service Model:
*     Back-to-back tests using 2 ARAD_PLUS(A, B):
*     1) Send the BFD IPv6 packet from port_a of arad_plus_a to port_b of arad_plus_b.
*     2) Send the BFD IPv6 packet from port_b of arad_plus_b to port_a of arad_plus_a.
* Service connection:
*     --------------                --------------
*     | arad_plus_a  |<--------->| arad_plus_b  |
```

```
*     --------------                --------------
*                    port_a       port_b
*
* To run IPV6 test:
* BCM> cint examples/dpp/utility/cint_utils_global.c
* BCM> cint examples/dpp/utility/cint_utils_l3.c
* BCM> cint examples/dpp/cint_ip_route.c
* BCM> cint examples/dpp/cint_bfd.c
* BCM> cint examples/dpp/cint_bfd_ipv6.c
* BCM> cint examples/dpp/cint_field_bfd_ipv6_single_hop.c
* BCM> cint
* print bfd_ipv6_single_hop_field_action(unit);
* print bfd_ipv6_service_init(unit, in_port, out_port, type);
* print bfd_ipv6_run_with_defaults(unit, endpoint_id, is_acc, is_single_hop, auth_type, auth_index, punt_rate);
*
*
* comments:
* 1) Normally, bfd_ipv6_trap(unit) is not used.
*     But if the bfd_ipv6_single_hop_field_action(unit) not works to trap the BFD packet to uKernel,
*     we can use the bfd_ipv6_trap(unit) instead to trap all BFD single hop packet to uKernel for
*     debug purpose.
* 2) For simple password auth and sha1 auth, you can select the key by key_index.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_bfd_ipv6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cop.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_cop.c
* Purpose: Caladan3 COP test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sflash.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    sflash.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/sflash.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_sw_db.h,v 1.102 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: libc.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Some routines to avoid dependence on libc in the driver.  Define
* RTOS_STRINGS if your RTOS already has these routines, because the RTOS
* implementations may be more efficient and save room.
*
* Note: ONLY libc routines needed by library code (drv or bcm) should
* be here.  This file is not a general dumping-ground for all libc
* routines needed by diagnostics, etc.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/libc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv6ClassEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaRbClassIPv6ClassEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndRecordConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpVlanIndRecordConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464robo.c,v 1.69 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5464.c
* Purpose: PHY driver for BCM5461 and BCM5464
*
* Supported BCM546X Family of PHY devices:
*
*  Device  Ports   Media              MAC Interface
*  5461    1   Copper             GMII
*  5461S   1   Copper, Serdes         GMII, SGMII
*  5464    4   Copper, Serdes         GMII, SGMII
*  5464R   4   Copper, Serdes         SGMII
*  5464S   4   Copper, Serdes, Passthru    GMII, SGMII
*  5464SR  4   Copper, Serdes, Passthru    SGMII
*  5466    4   Copper, Serdes         GMII, SGMII
*  5466R   4   Copper, Serdes         SGMII
*  5466S   4   Copper, Serdes, Passthru    GMII, SGMII
*  5466SR  4   Copper, Serdes, Passthru    SGMII
*
* The 5466 devices have a strapping option that will make them act
* identically to the corresponding 5464 device (including PHY ID
* register values).
*
* Other devices in this family, but not supported by this driver:
*  5464H   4   Copper             RGMII(HSTL)
*  5465    4   Copper             RGMII
*
* This driver works with both 569x switches that have an SGMII interface
* and with Strata and 5665 switches with a GMII interface.  There is no
* support in this driver for RGMII, TBI, or RTBI interfaces.
*
```

```
* All of these PHY devices support a 100FX media mode, but currently this
* driver does not.
*
* If this driver is compiled without 569x support, then only GMII (Copper,
* Fiber) and SGMII (Copper) support will be enabled.
*
* SGMII support:
*  The 5690 and 5695 switch devices provide a serial GMII (SGMII)
*  MAC interface to a PHY device.  The PHY devices above with an SGMII
*  interface and no Passthru support are supported as copper only
*  PHYs.  Although the PHYs have a Serdes media interface suitable for
*  fiber media, it shares the same electronics as the SGMII MAC interface.
*  The 569x internal serdes is kept into passthru mode and the PHY
*  performs all signaling.
*
*  Those PHYs with a Passthru media interface can support both Copper
*  (as above) and Fiber media (by putting the PHY into passthru mode
*  and having the 569x serdes handle all signaling).  There is no way
*  for the driver to determine from the PHY device if it has a Passthru
*  media interface, so properties must be set if Fiber media is to be
*  used.  The property "phy_5464S" or "phy_5464S_portXX" must be set if
*  the PHY device is a 5464S or 5464SR.
*
*  In all of the cases for 569x connections, the PHY's 1000BASE-X
*  registers are never enabled.
*
*  The 569x switches do not support SGMII auto-negotiation.  They only
*  support Serdes auto-negotiation.  In Copper mode, 569x autoneg must
*  be off and the PHY device autoneg on the SGMII mac interface must
*  also be off.  In Passthru (Fiber) mode, the 569x is used for Serdes
*  autoneg and the 5464 is in passthru.
*
* GMII support:
*  The Strata and 5665 family of switch devices provide a GMII MAC
*  interface to a PHY device.  The PHY devices with a GMII interface
*  can be connected to these switches.  Any PHY device with a Serdes
*  media interface can be used for both Copper and Fiber media
*  connections.  Those PHY devices without a Serdes interface can only
*  be used in Copper mode.
*
*  The Passthru mode in any PHY devices is ignored.
*
* Auto-medium selection:
*  Automatic selection of copper vs. fiber medium type is enabled when
*  the "phy_fiber_automedium" property is 1 (default 0 for 5464 on 569x
*  and 1 otherwise).  If both copper and fiber signals are present, the
*  driver consults the configuration property "phy_fiber_pref_portXX"
*  (default 1) to determine whether copper or fiber is preferred.
```

```
*
*  See sdk/doc/combo-ports.txt for more information.
*
*  NOTE: auto-medium REQUIRES the fiber module energy detect pin to be
*  wired to the LED4 pin on the 5464S.
*
* Workarounds:
*  ERRATA_FIX: (default 0)
*  The driver will deal with various errata for 5464 A0 and 5461 A0
*  revision PHY devices.  It is not enabled by default because
*  production use of these PHYs should be using A1 or later revisions.
*
*  LINK_DOWN_RESET_WAR: (default 1)
*     The PHY will be reset each time link down is detected on copper.
*  This is due to the 100TX_SWAP erratum on 5464 A0 revision parts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5464robo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbxpkt_test.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_unit/sbxpkt_test.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : sesto_cfg_seq.h
* Description: c functions implementing Tier1
*-----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
* Id
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_diag_seq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_cfg_seq.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ramon_mbcm.c
* Purpose: Init the bcm multiplexing function table for RAMON
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/mbcm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: scorpion.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: scorpion.h
* Purpose: Function declarations for Scorpion bcm functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/scorpion.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_l3_multipath.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l3_multipath.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: trie_util.h,v 1.3 Broadcom SDK $
*
* TAPS utility defines/functions
*
*-----------------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/trie_util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.40 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     port.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/common/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.h,v 1.3.474.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       counter.h
* Purpose:     SBX Software Counter Collection module definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/counter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pci.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PCI memory and configuration space routines.
*
* NOTE: the base address used in this file is opaque. This means that
* the PCI device must first have its base-address programmed by
* writing the start offset to PCI configuration offset 0x10.
* Writes to the memory space afterwards requires the address to be
* based on the base-address plus the offset to the desire register
* to be accessed.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/pci.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_inq.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_inq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmBaaCfgTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmBaaCfgTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.c,v 1.13 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       debug.c
* Purpose: BCM API Debug declarations
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88375_b0.c
* Purpose:     bcm88375_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88375_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredDropNPart2EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart2EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: eagle_merlin_api_uc_common.h 874 2015-12-03 22:46:33Z jgaither $ *
*                                                                                        *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs               *
*                                                                                        *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                  *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                              *
*                                                                  *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/soc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*
*
* $Id: phy8806x.c,v 1.2.2.26 Broadcom SDK $
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software
* and all intellectual property rights therein.  IF YOU HAVE
* NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
```

```
* IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1.     This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof,
* and to use this information only in connection with your use of
* Broadcom integrated circuit products.
*
* 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
* PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
* BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
* INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
* ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
* TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
* THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
* WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_diag.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/diag/phymod_diag.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/phymod_util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stats.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    stats.c
*
* Purpose:
*
* Functions:
*      bcm_common_ptp_packet_counters_get
*      bcm_common_ptp_peer_dataset_get
*
*      _bcm_ptp_packet_counters_msg_get
*      _bcm_ptp_packet_counters_pci_get
*      _bcm_ptp_update_peer_counts
*      _bcm_ptp_update_peer_dataset
*      _bcm_ptp_peer_dataset_get
*      _bcm_ptp_clock_description_get
*      _bcm_ptp_show_system_info
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/stats.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-12x10g-ilkn100.bcm,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

#TDM 12x10G with wdrr
bcm88030_config=28
```

```
#Following is applicable only to B0
#ucode_num_ports.0=12
#ucode_port.port1.0=clport0.xe.0.0-1/0/192/3:il1.il100.0.0-1/64/128
#ucode_port.port2.0=clport0.xe.0.1-1/1/195/3:il1.il100.0.1-1/65/129
#ucode_port.port3.0=clport0.xe.0.2-1/2/198/3:il1.il100.0.2-1/66/130
#ucode_port.port4.0=clport0.xe.0.3-1/3/201/3:il1.il100.0.3-1/67/131
#ucode_port.port5.0=clport0.xe.1.0-1/4/204/3:il1.il100.0.4-1/68/132
#ucode_port.port6.0=clport0.xe.1.1-1/5/207/3:il1.il100.0.5-1/69/133
#ucode_port.port7.0=clport0.xe.1.2-1/6/210/3:il1.il100.0.6-1/70/134
#ucode_port.port8.0=clport0.xe.1.3-1/7/213/3:il1.il100.0.7-1/71/135
#ucode_port.port9.0=clport0.xe.2.0-1/8/216/3:il1.il100.0.8-1/72/136
#ucode_port.port10.0=clport0.xe.2.1-1/9/219/3:il1.il100.0.9-1/73/137
#ucode_port.port11.0=clport0.xe.2.2-1/10/222/3:il1.il100.0.10-1/74/138
#ucode_port.port12.0=clport0.xe.2.3-1/11/225/3:il1.il100.0.11-1/75/139

ucode_num_ports.0=12
ucode_port.port1.0=clport0.xe.0.0-1/0/192/3:il1.il100.0.0-1/64/128
ucode_port.port2.0=clport0.xe.0.1-1/1/195/3:il1.il100.0.1-1/65/129
ucode_port.port3.0=clport0.xe.0.2-1/2/198/3:il1.il100.0.2-1/66/130
ucode_port.port4.0=clport0.xe.0.3-1/3/201/1:il1.il100.0.3-1/67/131
ucode_port.port5.0=clport0.xe.1.0-1/4/202/1:il1.il100.0.4-1/68/132
ucode_port.port6.0=clport0.xe.1.1-1/5/203/1:il1.il100.0.5-1/69/133
ucode_port.port7.0=clport0.xe.1.2-1/6/204/1:il1.il100.0.6-1/70/134
ucode_port.port8.0=clport0.xe.1.3-1/7/205/1:il1.il100.0.7-1/71/135
ucode_port.port9.0=clport0.xe.2.0-1/8/206/1:il1.il100.0.8-1/72/136
ucode_port.port10.0=clport0.xe.2.1-1/9/207/1:il1.il100.0.9-1/73/137
ucode_port.port11.0=clport0.xe.2.2-1/10/208/1:il1.il100.0.10-1/74/138
ucode_port.port12.0=clport0.xe.2.3-1/11/209/1:il1.il100.0.11-1/75/139

#App reserved queue
app_queues_start=123
app_queues_num=2
config_queue123_tdm28=1000,1000,1000,500,200,200
config_queue124_tdm28=1000,1000,1000,500,200,200

#WDRR Weights
wdrr_weight_queue_49=16
wdrr_weight_queue_64=255
wdrr_weight_queue_65=255
wdrr_weight_queue_66=255
wdrr_weight_queue_67=255
wdrr_weight_queue_68=255
wdrr_weight_queue_69=255
wdrr_weight_queue_70=255
wdrr_weight_queue_71=255
wdrr_weight_queue_72=255
wdrr_weight_queue_73=255
wdrr_weight_queue_74=255
```

```
wdrr_weight_queue_75=255
wdrr_weight_queue_123=255
wdrr_weight_queue_124=1


diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_xe10=0x0000
phy_xaui_rx_polarity_flip_xe11=0x0001


phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_xe10=0x0001
phy_xaui_tx_polarity_flip_xe11=0x0001



#C3 Fabric side HG[126] in TDM3/1 lane swap
```

```
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
```

ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393

```
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-nj-12x10g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod_cfg_seq.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : temod_cfg_seq.c
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_cfg_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_defi.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_defi.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  falcon2_madura_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                     *
*  Created By    :  Kiran Divakar                                                  *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: falcon2_madura_usr_includes.h 996 2015-03-30 22:39:03Z kirand $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_sweept20_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_sweept20_api.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_grammar.y,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        cint_grammar.y
* Purpose:     CINT C Parser
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_grammar.y
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: portmod_chain.c,v 1.2.2.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/portmod_chain.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.331 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Manages L3 interface table, forwarding table, routing table
*/
/* Configure the member's attributions */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/l3.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
```

```
*  File Name     :  merlin_pll_config.c                                  *
*  Created On    :  14/07/2013                                          *
*  Created By    :  Kiran Divakar                                       *
*  Description   :  Merlin PLL Configuration API                        *
*  Revision      :  $Id: merlin_pll_config.c 1263 2015-11-19 19:49:45Z jgaither $ *
*                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                           *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                                *
*                                                                       *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                       *
*                                                                       *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ingress_traffic_mgmt.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_sw_db.c,v 1.91 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_sw_db.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56542sanity.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56542 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x201ffffffe
local pbmport 0x4447ffffffffe

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
```

```
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

fb4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
tr 55

echo "Running MDIO Linkscan test"
tr 60
$done
```

```
#echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 21 Gb/s HG ports"
tr 18 PortBitMap=hg2,hg3 Speed=21G
$done

echo "Testing MAC Loopback - 42 Gb/s HG ports"
tr 18 PortBitMap=hg0,hg1 Speed=42G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 21 Gb/s all HG21 ports"
tr 19 PortBitMap=hg2,hg3 speed=21G; $done'

echo "Testing PHY Loopback - 42 Gb/s all HG42 ports"
tr 19 PortBitMap=hg0,hg1 Speed=42G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
```

```
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on HG21 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=hg0,hg1 c=10 sp=21G
$done

echo "Running Traffic Test on HG21 ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=hg0,hg1 c=10 sp=21G
$done

echo "Running Traffic Test on HG42 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=hg0,hg1 c=10 sp=42G
$done

echo "Running Traffic Test on HG42 ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=hg0,hg1 c=10 sp=42G
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56542sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

* $Id: c3_12x10g_1xil100.h,v 1.2.24.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4cos_12x10g_1xil100.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_scheduler_flow_converts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_flow_converts.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fabric.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Fabric Control API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/fabric.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pmf_2pass_snoop.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_pmf_2pass_snoop.c
No license file was found, but licenses were detected in source scan.

/* $Id: qos.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains QOS module definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/qos.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.h
* Purpose:     Defines common PHY driver routines for Broadcom XGXS core.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2_efp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk2_efp.c
* Purpose: Maintains all the debug information for efp
*          feature for tomahawk2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/tomahawk2_efp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id:  $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/error.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Management
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bslmgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/bslmgmt.h
No license file was found, but licenses were detected in source scan.

/*
* vxWorks END device driver for
* Broadcom BCM47XX 10/100 Mbps Ethernet Controller
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: et_vx.c,v 1.6 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/et_vx.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File: regacc.h
* Purpose: Register accessor declarations
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/mcm/regacc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls.h
* Purpose:     mpls internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: Bsc.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/Bsc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flowcnt_common.c,  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flowcnt_common.c
* Purpose:     Manage common functionality for flow counter implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flowcnt/flowcnt_common.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g2eplib.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE2000 Ingress library Initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/g2eplib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_shr_template.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dnx_shr_template.h
* Purpose:     Internal routines to the BCM library for template
*              gu2 management.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/dnx_shr_template.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.354 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stack.c
* Purpose:     BCM level APIs for stacking applications
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_cfg_seq.c 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_traffic_mgmt.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ingress_traffic_mgmt.c
*
* MODULE PREFIX:  soc_tmcitm
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmcast.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmcast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaSrManualDeskewEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaSrManualDeskewEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56150_a0.c
* Purpose:    bcm56150_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56150_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_esem_access.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_esem_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_counter.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: COUNTER warmboot
*
* Purpose:
*     Counter Management Unit
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/wb_db_counter.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod_diagnostics.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* Copyright: (c) 2012 Broadcom Corp.
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : temod_diagnostics.c
* Description: C sequences which utilize tier1s to build configurations
*              which target only the diagnostic features of the Serdes
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_diagnostics.c

No license file was found, but licenses were detected in source scan.

```
/** \file template_mngr_callbacks.h
*
* Internal DNX template manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/template_mngr/template_mngr_callbacks.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_extender_cb_uc.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_extender_cb_uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_main.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip main functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_main.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_cell.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_cell.c
*
```

* MODULE PREFIX: tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_cell.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bmacsec_timesync_defs.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bmacsec_timesync_defs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_regs.c,v 1.0 13/07/2014 14:07:36 nhefetz Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_regs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmgenerictblmgr.c,v 1.1.6.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr_refapp/nlmdevmgr_refapp.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr_refapp/nlmdevmgr_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmsdksmoketest/nlmsdksmoketest.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr_refapp/nlmgenerictblmgr_refapp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmsdksmoketest/nlmsdksmoketest.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr/nlmgenerictblmgr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr_refapp/nlmgenerictblmgr_refapp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_header_parsing_utils.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_header_parsing_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm53314_a0.c
* Purpose:     bcm53314_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm53314_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy542xx_regdefs.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy542xx_regdefs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_packet.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_packet.c
*
* MODULE PREFIX:  soc_tmcpkt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_packet.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm83208_a0.c
* Purpose:    bcm83208_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm83208_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: util.h,v 1.10 Broadcom SDK $
*
* util.h : util defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/util.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_y.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_y.i

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriLutAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriLutAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       regsabove64.c
* Purpose:     Registers above 64 bit descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/regsabove64.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_group_member_list.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_group_member_list.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_group_member_list.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_tx_analog_functions.c                                  *
*  Created On    :  29/04/2013                                                    *
*  Created By    :  Kiran Divakar                                                 *
```

```
*  Description   :  Functions to Configure Merlin TXFIR                    *
*  Revision      :  $Id: merlin_tx_analog_functions.c 924 2015-02-24 18:08:11Z eroes $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_tx_analog_functions.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_tx_analog_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi4Selected_1Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_1Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_defs.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ARAD DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_defs.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pd63000.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for PD63000 8-bit PoE Microcontroller Unit.
* The MCU communicates with message types of 15-byte long packet.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/pd63000.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: sbFeISupport.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFeISupport.h
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFeISupport.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.137 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.c
* Purpose:    Bidirectional Forwarding Detection APIs.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/bfd.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIp16BitRewriteConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIp16BitRewriteConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: platform.c,v 1.7 2011/07/21 16:14:58 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/platform.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer_ingress_packet_queuing.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_ingress_packet_queuing.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_framework.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_api_framework.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SAL I/O abstraction
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/io.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: drv_internal.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/drv_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/drv_internal.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_trap.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcmap_cmn.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    fcmap_cmn.c
* Purpose: FCMAP software module intergation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/fcmap_cmn.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_gal_o_pwe_o_mpls.c
* Purpose: Example of using field processor to trap GACHoGALoPWEoLSPoETH packets to the CPU.
*          The trapped packet should contain PWE InLif in the PPH.
*
*  The cint uses cint_mpls_lsr.c to create VSwitch with MPLS termination.
*  GACHoGALoPWEoLSPoETH packet is trapped to the CPU with the PWE inLif,
*  and the trap is mpls_unexpected_no_bos.
*
*  Field processor is used to change the MPLS InLif to PWE Inlif.
*
*  NOTE: soc property custom_feature_mpls_termination_check_bos_disable should be set.
*
*  Usage:
*  cint src/examples/dpp/cint_port_tpid.c
*  cint src/examples/dpp/cint_qos.c
*  cint src/examples/dpp/utility/cint_utils_l3.c
*  cint src/examples/dpp/cint_vswitch_vpls.c
*  cint src/examples/dpp/cint_mpls_lsr.c
*  cint src/examples/dpp/cint_advanced_vlan_translation_mode.c
*  cint src/examples/dpp/cint_field_pwe_gal_lif_update.c
*  cint src/examples/dpp/cint_gal_o_pwe_o_mpls.c
*  cint
*  int unit=0; int port1 = 13; int port2 = 14;
*  print gal_o_pwe_o_mpls_example(unit, port1, port2);
*
*  When the packet of the following structure will be sent on port 1,
*  it will be trapped to the cpu with the PWE InLif.
*
* Headers:
*
*   ~~~
```

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_gal_o_pwe_o_mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_pll_synce_init.c, v1 17/09/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_pll_synce.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_vsi.h
*
* MODULE PREFIX:  soc_ppc_vsi
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_vsi.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_vlan.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file provides vlan editing basic functionality and defines vlan editing global variables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: simintf.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX SIM SDK interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/simintf.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_tsc_dv_functions.c                                    *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: falcon_tsc_dv_functions.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_dv_functions_c.h
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.fast,v 1.9 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
```

```
REPOS = sdk/systems/ecos
REPOS = sdk/regress
REPOS = sdk

REPOS_TOP = $(firstword $(subst /, ,$(REPOS)))

PRISTINE = ../pristine

REMOTE_SITE = xl-sj1-11.sj.broadcom.com

REMOTE_WORK_DIR = /projects/sandburst_scratch/$(LOGNAME)/pristine

REMOTE_CVS_ROOT_DIR = /projects/ntsw-cvs2/swcvs4/minerva

CVS_ARGS = -Ad

domainname := $(shell domainname)

ifeq ($(domainname),mhtb)
 BSUB = bsub -Is -q mht-car -n9
 PSERVER = :pserver:$(LOGNAME)@cvsps-sj1-1.sj.broadcom.com:$(REMOTE_CVS_ROOT_DIR)
endif

ifeq ($(domainname),sanjose)
 BSUB = bsub -Is -q sj-ntsw -n9
 PSERVER = $(REMOTE_CVS_ROOT_DIR)
endif

NEW_CVSROOT = $(PSERVER)

.PHONY: help cvs-co build clean-build

$(PRISTINE):
 rm -rf $(PRISTINE)-tmp
 mkdir -p $(PRISTINE)-tmp
ifeq ($(domainname),sanjose)
 ( cd $(PRISTINE)-tmp && cvs -d $(PSERVER) co $(CVS_ARGS) $(REPOS) )
else
 #
 # Remote cvs checkout and then create tarfile
 #
 ssh $(REMOTE_SITE) 'mkdir -p $(REMOTE_WORK_DIR) && cd $(REMOTE_WORK_DIR) && rm -rf
$(REPOS) && cvs -d $(REMOTE_CVS_ROOT_DIR) co $(REPOS) && tar -zcf $(REPOS_TOP).tgz $(REPOS)'
 #
 # scp tar file locally
 #
 scp $(REMOTE_SITE):$(REMOTE_WORK_DIR)/$(REPOS_TOP).tgz $(PRISTINE)-tmp
```

```
 #
 # untar
 #
 ( cd $(PRISTINE)-tmp && tar -zxf $(REPOS_TOP).tgz )
 #
 # Change CVS/Root files
 #
 tools/cvs-newroot $(NEW_CVSROOT) $(PRISTINE)-tmp/$(REPOS_TOP)
endif
 #
 mv $(PRISTINE)-tmp $(PRISTINE)

cvs-co:
 #
 # Verify current directory is new area
 # If src/ exists, area is not new
 #
 if [ -d src ] ; then exit 1 ; fi
 #
 # Create $(PRISTINE) if not already there
 #
 $(MAKE) $(PRISTINE)
 #
 # CVS Update $(PRISTINE)/$(REPOS)
 #
ifneq ($(domainname),sanjose)
 ( cd $(PRISTINE) && cvs -d $(PSERVER) -fqn up -l $(REPOS) ) || cvs -d $(PSERVER) login
endif
 ( cd $(PRISTINE) && cvs -d $(PSERVER) -fq up $(CVS_ARGS) $(REPOS) )
 #
 # Copy $(PRISTINE) area to here
 #
 cp -af $(PRISTINE)/$(REPOS)/* .

help:
 #
 # INTRODUCTION:
 #
 # A lot of time can be saved by keeping a local copy of a
 # $(PRISTINE)/$(REPOS) sandbox.  After getting the sandbox
 # the first time, we'll run cvs update there, instead of
 # checking out a new sandbox everytime.
 #
 # During the build, we'll also save a lot of time by running
 # compiles in parallel.
 #
 # CREATE NEW BUILD AREA:
 #
```

```
# To create a new $(REPOS) area, first move the old one:
#
#   cd ..
#   mv $(REPOS) $(REPOS).old
#
# Then checkout the latest makefiles:
#
#   cvs -d $(PSERVER) -fq co $(REPOS)/Makefile
#   cd $(REPOS)
#   cvs -fq up $(CVS_ARGS) -l make
#
# CVS update $(PRISTINE)/$(REPOS) area and copy to current directory.
# If $(PRISTINE)/$(REPOS) doesn't exist, it will checked out first.
#
#   make cvs-co PRISTINE=$(PRISTINE) FAST=1 -n
#
# BUILD:
#
#   make build BUILD=metrocore-2_6 FAST=1 -n
#   make build BUILD=gto-2_6 FAST=1 -n
#
# CLEAN:
#
#   make clean-build BUILD=metrocore-2_6 FAST=1 -n
#   make clean-build BUILD=gto-2_6 FAST=1 -n

BUILD_ENV = \
 time env \
 --unset=CROSS_COMPILE \
 MYSDK=sdktot \
 SDK=$(CURDIR) \
 TCL_LIBRARY=$(CURDIR)/src/appl/tcl8.3.3/library

FAST=1

BUILD=metrocore-2_6
BUILD=gto-2_6
BUILD=BUILD_not_set

build:
 $(BSUB) $(BUILD_ENV) make -C systems/linux/user/$(BUILD) FAST=$(FAST)

clean-build:
 $(BUILD_ENV) make -C systems/linux/user/$(BUILD) clean

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.fast
```

No license file was found, but licenses were detected in source scan.

```
/*
DESCRIPTION
This module provides a generic boot ROM facility.  The target-specific
romInit.s module performs the minimal preliminary board initialization and
then jumps to the C routine romStart().  This routine, still executing out
of ROM, copies the first stage of the startup code to a RAM address and
jumps to it.  The next stage clears memory and then uncompresses the
remainder of ROM into the final VxWorks ROM image in RAM.

A modified version of the Public Domain \f3zlib\fP library is used to
uncompress the VxWorks boot ROM executable linked with it.  Compressing
object code typically achieves over 55% compression, permitting much
larger systems to be burned into ROM.  The only expense is the added few
seconds delay while the first two stages complete.

ROM AND RAM MEMORY LAYOUT
Example memory layout for a 1-megabyte board:
.CS
  --------------  0x00100000 = LOCAL_MEM_SIZE = sysMemTop()
  |            |
  |    RAM     |
  |  0 filled  |
  |            |
  |------------| = (romInit+ROM_COPY_SIZE) or binArrayStart
  | ROM image  |
  |----------- |  0x00090000  = RAM_HIGH_ADRS
  | STACK_SAVE |
  |------------|
  |            |  0x00080000  = 0.5 Megabytes
  |            |
  |            |
  | 0 filled   |
  |            |
  |            |  0x00001000  = RAM_ADRS & RAM_LOW_ADRS
  |            |
  |            |  exc vectors, bp anchor, exc msg, bootline
  |            |
  |            |
  --------------  0x00000000  = LOCAL_MEM_LOCAL_ADRS
.CE
.CS
  --------------
  |    ROM     |
  |            |  0xff8xxxxx  = binArrayStart
  |            |
  |            |  0xff800008  = ROM_TEXT_ADRS
```

---------- 0xff800000 = ROM_BASE_ADRS
.CE

SEE ALSO:
inflate(), romInit(), and deflate

AUTHOR
The original compression software for zlib was written by Jean-loup Gailly
and Mark Adler. See the manual pages of inflate and deflate for
more information on their freely available compression software.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/all/bootInit.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR0WdtEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0WdtEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_scheduler_flows.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_flows.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmWredCurvesTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredCurvesTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_ingress_large_termination.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_ingress_large_termination.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: counter.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Counter CLI support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/counter.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: drc_combo28_init.c,v 1.1.2.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/DRC/drc_combo28_init.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: ltc4258.c,v 1.1 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Linear Technology LTC4258 Powered
* Ethernet Controller Chip.
* The LTC4258 is used to control DC power supplied over an ethernet
* link.
*
* See the LTC4258 datasheet for more details.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/ltc4258.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       memregs.h
* Purpose:    Memory entry declarations, memory and register macros
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
*             bcm56685_a0
*             bcm56685_b0
```

* bcm56334_a0
* bcm56334_b0
* bcm88230_a0
* bcm88230_b0
* bcm88230_c0
* bcm56840_a0
* bcm56840_b0
* bcm88650_a0
* bcm88650_b0
* bcm88660_a0
* bcm2801pm_a0
* bcm88202_a0
* bcm88675_a0
* bcm83207_a0
* bcm83208_a0
* bcm88732_a0
* bcm56440_a0
* bcm56440_b0
* bcm88030_a0
* bcm88030_a1
* bcm88030_b0
* bcm56640_a0
* bcm88750_a0
* bcm88750_b0
* bcm88754_a0
* bcm88950_a0
* bcm88790_a0
* bcm56850_a0
* bcm56450_a0
* bcm56450_b0
* bcm56450_b1
* bcm56340_a0
* bcm56150_a0
* bcm53400_a0
* bcm56960_a0
* bcm56860_a0
* bcm56560_a0
* bcm56560_b0
* bcm56260_a0
* bcm56260_b0
* bcm88375_a0
* bcm88470_a0
* bcm88470_b0
* bcm88270_a0
* bcm8206_a0
* bcm88675_b0
* bcm88375_b0
* bcm88680_a0

```
*           bcm88690_a0
*           bcm56160_a0
*           bcm56270_a0
*           bcm56965_a0
*           bcm56970_a0
*           bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/memregs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: oam.c,v 1.34.4.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*  oam.c
*
* Purpose:
*  OAM implementation for Triumph3 family of devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/oam.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: eagle_tsc_enum.h 1140 2015-09-18 21:05:29Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_enum.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: qmod.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod.h#3 $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bsc_devs.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C driver for BSC (Broadcom Serial control). This
* module provides for discovery and loading of I2C device drivers and
* manipulation of I2C device state.
*
* See also: bus.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/bsc_devs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bcm-core.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-core/bcm-core.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_tcm.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_tcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_tcm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbQe2000MemAccess.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: sbQe2000MemAccess.c
* Purpose: sbx commands to read/write qe2000 indirect mems
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbQe2000MemAccess.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_ipv4.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ipv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
        $SDK/systems
      SDK 5 (02-22-04)
```

Build Hints

MAKE_PAR

Set this environment variable to "-j" to achieve fast
parallel builds of the BCM drivers.

NO_BCM

Typing "gmake" in a systems/<TARGETBASE>/<TARGETPLAT> directory
ordinarily builds bcm_libraries, driver_libraries, then the BSP,
and links. You can use "gmake NO_BCM=1" to avoid recompiling
bcm_libraries driver_libraries if they are already built to your
satisfaction.

DEBUG_OPTIMIZE

When debugging, use "setenv DEBUG_OPTIMIZE FALSE" to turn off
the -O flag. Optimization severely cripples debugger accuracy.
If DEBUG_OPTIMIZE is TRUE or not set, high optimization is used.
Alternately you can set DEBUG_OPTIMIZE to your own option string
such as "-O3".

BSP Descriptions

---

vxworks/mousse

Complete VxWorks BSP for the Broadcom Mousse PowerPC processor
card. This BSP was originally derived from the Motorola
Sandpoint BSP for MPC8240 (Kahlua), but no longer has much in
common with it. Has support for MMU mapping of the BCM56xx.
A primitive flash disk driver is provided, which works fine
but is slow and lacks features like wear-leveling (i.e. it
should really only be used for static data).

Use "make" or "make bcm" to generate bcm.mousse. This same
image will work on all supported BCM56xx devices. Use "make
bcm.mousse.Z" or "make bcm.Z" to generate a compressed version;
the boot ROM will also boot .Z images.

vxworks/idtrp334
VxWorks BSP for the Broadcom MIPS CompactPCI card with an
IDT RC32332/RC32334 CPU. Has support for MMU mapping of the
BCM56xx. Despite a large number of warnings from the linker,
this code runs and drives the StataSwitch. Currently no flash
disk is provided due to the large sector size.

Use "make" or "make bcm" to generate bcm.idtrp334. This same
image will work on all supported BCM56xx devices. Use "make
bcm.idtrp334.Z" or "make bcm.Z" to generate a compressed version;
the boot ROM will also boot .Z images.

vxworks/jag
VxWorks BSP for the Broadcom BCM4704 MIPS CPU-based CompactPCI
card (JAG).

Use "make" or "make bcm" to generate bcm.jag. This same
image will work on all supported BCM56xx devices. Use "make
bcm.jag.Z" or "make bcm.Z" to generate a compressed version;
the boot ROM will also boot .Z images.

vxworks/bmw
Complete VxWorks BSP for the MPC8245-based SDK and reference
designs from Broadcom, including: BMW (CPCI card), White Knight,
Merlin, Galahad, and Lancelot.

Use "make" or "make bcm" to generate bcm.bmw. This same
image will work on all supported BCM56xx devices. Use "make
bcm.bmw.Z" or "make bcm.Z" to generate a compressed version;
the boot ROM will also boot .Z images.

sim
This directory contains a simple main program stub that allows
compilation of the BCM56xx driver and diagnostics shell under
Linux and Solaris. At Broadcom, this application connects via
network to software Verilog simulations of the BCM56xx and other
devices. Building in this directory will also compile the
PCI Daemon (pcid), see below.

sim/pcid
This directory contains a very rudimentary StrataSwitch
simulator called 'pcid', which models a subset of the chips,
mainly the CMIC and other simple non-packet-switching functions.

This is has been useful for writing the BCM library and
diagnostics monitor commands without needing real hardware.

drv
Systems driver library for miscellaneous additional drivers.

Contains VxWorks SENS (Enhanced Network Driver) for BCM. This
requires either vxWorks 5.4 (Tornado 2) or VxWorks 5.3.x
(Tornado 1) with the SENS patch loaded. To configure the
network driver from the BCM prompt:

```
maca * cbit=1  # Configure the network interface MAC address range
ifconfig 1 =  # Interactively configure and bring up port 1
 # with user-specified IP parameters.
```

linux
Linux driver directory. This directory contains the source code
for kernel driver modules allowing the BCM driver and diagnostic
shell to be run either in the kernel or in user mode.
NOTE 1: these are not Linux kernels, just linux modules. Please
refer to other README files in the systems/linux hierarchy for
more information.
NOTE 2: Broadcom is expanding and enhancing our Linux support
for running the driver in both kernel mode and user mode.
Broadcom can only help with problems relating to very specific
versions of Linux and Linux distributions which we specify for
development support (please contact your Broadcom Apps Engineer).

bde
Broadcom Device Enumerator.
This fundamental layer sits between the device driver and the
underlying hardware and O/S and abstracts the methods for
PCI setup, register access, and interrupt connection. There are
currently three BDEs:

bde/vxworks
Simple, direct PCI access methods for VxWorks.
bde/pli
PCI access methods for PLI and PCID simulator.
Here, all PCI accesses are sent via RPC to a verilog model.
bde/linux/kern
PCI access methods for Linux kernel.
bde/linux/user
PCI access methods for Linux user mode.
Here, PCI memory space is mapped into the user process
and device interrupts are turned into signals.
The entire driver and diagnostics shell can run in user mode.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/README
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_rx_ipv6_tunnel_termination_forwarding_hop_count0_1 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_ipv6_tunnel_termination_forwarding_hop_count0_1.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2gre.c,v 1.15 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mldp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mvpn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_types.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_types.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56560_a0.c
* Purpose:    bcm56560_a0 chip specific information (register, memories, etc)
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56560_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws_test5.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws_test5.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS TR3 L2 Table Manipulation API routines.
*
* A low-level L2 shadow table is optionally kept in soc->arlShadow by
* using a callback to get all inserts/deletes from the l2xmsg task.  It
* can be disabled by setting the l2xmsg_avl property to 0.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph3/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.2.10.11.2.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       link.h
* Purpose:    LINK internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/switch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/bcm_int/dnxf/switch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/link.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_links.h,v 1.8.60.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC LINKS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_links.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_ac.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_eg_ac.h
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_ac.h
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: pkg_c3_lib_h.stg,v 1.18 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Author: vn-1109210841
*
* C3Asm3__PkgInt.h
*
* Support library for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/asm3/asm3_pkg_intf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: device_wred.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       device_wred.c
* Purpose:     Implement WRED configuration parameter algorithm. This could be
*              shared across devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/device_wred.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_trap_mgmt.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_trap_mgmt.h
*
* MODULE PREFIX:  soc_ppd_api_trap_mgmt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
```

* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_trap_mgmt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: tcam.c,v 1.52 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tcam.c
* Purpose: TR3 specific ESM code.
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph3/tcam.c
No license file was found, but licenses were detected in source scan.

/*----------
* $Id: temod_sc_lkup_table.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------
* File : temod_sc_lkup_table.c
* Description: c functions implementing SC Tier1s for TEMod Serdes Driver
----------/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_sc_lkup_table.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_sc_lkup_table.c

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
```

ff8000000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224080a093281f4c03fd8000
224080a093281f4d03fda000
224080a093281f4e03fdc000
224080a093281f4f03fde000
224080a093281f4803fd0000
224080a093281f4903fd2000
224080a093281f4a03fd4000
224080a093281f4b03fd6000
224080a093281f4403fc8000
224080a093281f4503fca000
224080a093281f4603fcc000
224080a093281f4703fce000
224080a093281f4003fc0000
224080a093281f4103fc2000
224080a093281f4203fc4000
224080a093281f4303fc6000

224080a2ffe81330027f8000
24c4007dffe0000000000000
22408061ffe81f5403fe8000
22408061ffe81f5503fea000
22408061ffe81f5603fec000
22408061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22408068fff01ff400000000
22408068fff01ff500000000
22408068fff01ff600000000
22408068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
2240806fffe81f5003fe0000
2240806fffe81f5103fe2000
2240806fffe81f5203fe4000
2240806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22408076fff01ff000000000
22408076fff01ff100000000
22408076fff01ff200000000
22408076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
22c080a6ffe81f2d03ff6000
22c080a6ffe81f2c03ff4000
22c080a6ffe81f2b03ff2000
22c080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000
224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241015093281f4c03fd8000
4241015093281f4d03fda000
4241015093281f4e03fdc000
4241015093281f4f03fde000
4241015093281f4803fd0000
4241015093281f4903fd2000
4241015093281f4a03fd4000
4241015093281f4b03fd6000
4241015093281f4403fc8000
4241015093281f4503fca000
4241015093281f4603fcc000
4241015093281f4703fce000
4241015093281f4003fc0000
4241015093281f4103fc2000
4241015093281f4203fc4000
4241015093281f4303fc6000
42410152ffe81330027f8000
42410154ffe81f5403fe8000
42410154ffe81f5503fea000
42410154ffe81f5603fec000
42410154ffe81f5703fee000
42410154ffe81f5003fe0000
42410154ffe81f5103fe2000
42410154ffe81f5203fe4000
42410154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c10156ffe81f2d03ff6000
42c10156ffe81f2c03ff4000
42c10156ffe81f2b03ff2000

42c10156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000
42410158ffe81f5803e30000
42410158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000

4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000

2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000
2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 1
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c171c38ffe0003000000000
281e10b893381f0700000000
ff8000000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
```

24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
22c088a6ffe81f2d03ff6000
22c088a6ffe81f2c03ff4000
22c088a6ffe81f2b03ff2000
22c088a6ffe81f2a03ff0000
253f03a2fff100a200000001
224088a093281f4c03fd8000
224088a093281f4d03fda000
224088a093281f4e03fdc000
224088a093281f4f03fde000
224088a093281f4803fd0000
224088a093281f4903fd2000
224088a093281f4a03fd4000
224088a093281f4b03fd6000
224088a093281f4403fc8000
224088a093281f4503fca000
224088a093281f4603fcc000
224088a093281f4703fce000
224088a093281f4003fc0000
224088a093281f4103fc2000
224088a093281f4203fc4000
224088a093281f4303fc6000
224088a2ffe81330027f8000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000

2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
224088a4ffe81f5403fe8000
224088a4ffe81f5503fea000
224088a4ffe81f5603fec000
224088a4ffe81f5703fee000
224088a4ffe81f5003fe0000
224088a4ffe81f5103fe2000
224088a4ffe81f5203fe4000
224088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000

224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000
228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000

44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b8fff81f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000

44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42410950ffe81f4c03fd8000
42410950ffe81f4d03fda000
42410950ffe81f4e03fdc000
42410950ffe81f4f03fde000
42410950ffe81f4803fd0000
42410950ffe81f4903fd2000
42410950ffe81f4a03fd4000
42410950ffe81f4b03fd6000
42410950ffe81f4403fc8000
42410950ffe81f4503fca000
42410950ffe81f4603fcc000
42410950ffe81f4703fce000
42410950ffe81f4003fc0000
42410950ffe81f4103fc2000
42410950ffe81f4203fc4000
42410950ffe81f4303fc6000
42410952ffe81330027f8000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42410954ffe81f5403fe8000
42410954ffe81f5503fea000
42410954ffe81f5603fec000
42410954ffe81f5703fee000
42410954ffe81f5003fe0000
42410954ffe81f5103fe2000
42410954ffe81f5203fe4000

42410954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42c10956ffe81f2d03ff6000
42c10956ffe81f2c03ff4000
42c10956ffe81f2b03ff2000
42c10956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000
2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42410958ffe81f6003e40000
42410958ffe81f6103e42000
42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000

42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc0000000000000000000000
24c41f56fff01f0cee220000
2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000
24c41f58fff01f0dee110000
2240899dffe81f5803e30000
24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000

2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000
2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 2
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff108aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff208aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280902e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228090aaffe0000000000000
2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000

24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
224090a093281f4803fd0000
224090a093281f4903fd2000
224090a093281f4a03fd4000
224090a093281f4b03fd6000
224090a093281f4403fc8000
224090a093281f4503fca000
224090a093281f4603fcc000
224090a093281f4703fce000
224090a2ffe81330027f8000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
224090a4ffe81f5403fe8000
224090a4ffe81f5503fea000
224090a4ffe81f5603fec000
224090a4ffe81f5703fee000
224090a4ffe81f5003fe0000

224090a4ffe81f5103fe2000
224090a4ffe81f5203fe4000
224090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
22c090a6ffe81f2d03ff6000
22c090a6ffe81f2c03ff4000
22c090a6ffe81f2b03ff2000
22c090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000

000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000
228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000

44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000

44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241115093281f4c03fd8000
4241115093281f4d03fda000
4241115093281f4e03fdc000
4241115093281f4f03fde000
4241115093281f4803fd0000
4241115093281f4903fd2000
4241115093281f4a03fd4000
4241115093281f4b03fd6000
4241115093281f4403fc8000
4241115093281f4503fca000
4241115093281f4603fcc000
4241115093281f4703fce000
4241115093281f4003fc0000
4241115093281f4103fc2000
4241115093281f4203fc4000
4241115093281f4303fc6000
42411152ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c11156ffe81f2d03ff6000
42c11156ffe81f2c03ff4000
42c11156ffe81f2b03ff2000
42c11156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42411154ffe81f5403fe8000
42411154ffe81f5503fea000
42411154ffe81f5603fec000
42411154ffe81f5703fee000
42411154ffe81f5003fe0000

42411154ffe81f5103fe2000
42411154ffe81f5203fe4000
42411154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000
453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42411158ffe81f6603e4c000
42411158ffe81f6703e4e000
000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000

4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000
2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000
24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000

2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 3
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000030000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000

24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224098a093281f4c03fd8000
224098a093281f4d03fda000
224098a093281f4e03fdc000
224098a093281f4f03fde000
224098a093281f4803fd0000
224098a093281f4903fd2000
224098a093281f4a03fd4000
224098a093281f4b03fd6000
224098a093281f4403fc8000
224098a093281f4503fca000
224098a093281f4603fcc000
224098a093281f4703fce000
224098a093281f4003fc0000
224098a093281f4103fc2000
224098a093281f4203fc4000
224098a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22409861ffe81f5403fe8000
22409861ffe81f5503fea000
22409861ffe81f5603fec000
22409861ffe81f5703fee000
24c440a2ffe0000000000001
22809869ffe0000000000000
22409868fff01ff400000000
22409868fff01ff500000000
22409868fff01ff600000000
22409868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
2240986fffe81f5003fe0000
2240986fffe81f5103fe2000

2240986fffe81f5203fe4000
2240986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22409876fff01ff000000000
22409876fff01ff100000000
22409876fff01ff200000000
22409876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
224098a8ffe81330027f8000
22c098a4ffe81f2d03ff6000
22c098a4ffe81f2c03ff4000
22c098a4ffe81f2b03ff2000
22c098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000
224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000
224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000
245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000

245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
481204b8fff81f0400000000
481608b8fff81f0500000000
481a0cb8fff81f0600000000
4c930c38ffe0003800000000
481e10b8fff81f0700000000
ff8000000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42411950ffe81f4c03fd8000
42411950ffe81f4d03fda000

42411950ffe81f4e03fdc000
42411950ffe81f4f03fde000
42411950ffe81f4803fd0000
42411950ffe81f4903fd2000
42411950ffe81f4a03fd4000
42411950ffe81f4b03fd6000
42411950ffe81f4403fc8000
42411950ffe81f4503fca000
42411950ffe81f4603fcc000
42411950ffe81f4703fce000
42411950ffe81f4003fc0000
42411950ffe81f4103fc2000
42411950ffe81f4203fc4000
42411950ffe81f4303fc6000
42411952ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c11956ffe81f2d03ff6000
42c11956ffe81f2c03ff4000
42c11956ffe81f2b03ff2000
42c11956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42411954ffe81f5403fe8000
42411954ffe81f5503fea000
42411954ffe81f5603fec000
42411954ffe81f5703fee000
42411954ffe81f5003fe0000
42411954ffe81f5103fe2000
42411954ffe81f5203fe4000
42411954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000

4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000
42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000
44c41f15fff01f1540000000
4281195dffe0000000000000
44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000
2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240999dffe81f6003e40000
24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000

2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f06fff28baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555

29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281214b893381f0400000000
29141820fff81f1100000000
281a18b893381f0600000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000
24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000
24c41f46fff01f0633360000
24c41f47fff01f0644460000
24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000

24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
2240a0a093281f4c03fd8000
2240a0a093281f4d03fda000
2240a0a093281f4e03fdc000
2240a0a093281f4f03fde000
2240a0a093281f4803fd0000
2240a0a093281f4903fd2000
2240a0a093281f4a03fd4000
2240a0a093281f4b03fd6000
2240a0a093281f4403fc8000
2240a0a093281f4503fca000
2240a0a093281f4603fcc000
2240a0a093281f4703fce000
2240a0a093281f4003fc0000
2240a0a093281f4103fc2000
2240a0a093281f4203fc4000
2240a0a093281f4303fc6000
2240a0a2ffe81330027f8000
24c4007dffe0000000000000
2240a061ffe81f5403fe8000
2240a061ffe81f5503fea000
2240a061ffe81f5603fec000
2240a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
2240a068fff01ff400000000
2240a068fff01ff500000000
2240a068fff01ff600000000
2240a068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000
24c4007dffe0000000000001
2240a06fffe81f5003fe0000
2240a06fffe81f5103fe2000
2240a06fffe81f5203fe4000
2240a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
2240a076fff01ff000000000
2240a076fff01ff100000000

2240a076fff01ff200000000
2240a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
22c0a0a6ffe81f2d03ff6000
22c0a0a6ffe81f2c03ff4000
22c0a0a6ffe81f2b03ff2000
22c0a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000

2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555
4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303

47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241215093281f4c03fd8000
4241215093281f4d03fda000
4241215093281f4e03fdc000
4241215093281f4f03fde000
4241215093281f4803fd0000
4241215093281f4903fd2000
4241215093281f4a03fd4000
4241215093281f4b03fd6000

4241215093281f4403fc8000
4241215093281f4503fca000
4241215093281f4603fcc000
4241215093281f4703fce000
4241215093281f4003fc0000
4241215093281f4103fc2000
4241215093281f4203fc4000
4241215093281f4303fc6000
42412152ffe81330027f8000
42412154ffe81f5403fe8000
42412154ffe81f5503fea000
42412154ffe81f5603fec000
42412154ffe81f5703fee000
42412154ffe81f5003fe0000
42412154ffe81f5103fe2000
42412154ffe81f5203fe4000
42412154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c12156ffe81f2d03ff6000
42c12156ffe81f2c03ff4000
42c12156ffe81f2b03ff2000
42c12156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
4c991122ffe0003000000000
4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000

44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000
4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000
44c41f15fff01f1504000000
4281215dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000
2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000
24c41f63fff01f12ff660000
2240a19dffe81f6303e46000
24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000

2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000

2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c130c38ffe0003400000000
281e10b893381f0700000000
ff8000000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c41f54fff00f28888c0000
24c41f55fff00f28007c0000
24c41f56ffe0000000000000
24c41f57ffe0000000000000
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe0000000000000
24c41f53ffe0000000000000
245900a2fff01f3911223344

253f03a2fff100a200000001
245900a2fff01f3855667788
2240a8a093281f4c03fd8000
2240a8a093281f4d03fda000
2240a8a093281f4e03fdc000
2240a8a093281f4f03fde000
2240a8a093281f4803fd0000
2240a8a093281f4903fd2000
2240a8a093281f4a03fd4000
2240a8a093281f4b03fd6000
2240a8a093281f4403fc8000
2240a8a093281f4503fca000
2240a8a093281f4603fcc000
2240a8a093281f4703fce000
2240a8a093281f4003fc0000
2240a8a093281f4103fc2000
2240a8a093281f4203fc4000
2240a8a093281f4303fc6000
2240a8a2ffe81330027f8000
2240a8a4ffe81f5403fe8000
2240a8a4ffe81f5503fea000
2240a8a4ffe81f5603fec000
2240a8a4ffe81f5703fee000
2240a8a4ffe81f5003fe0000
2240a8a4ffe81f5103fe2000
2240a8a4ffe81f5203fe4000
2240a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000
2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001
245900a2fff01f3900003344
253f03a2fff100a200000001
245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc

253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000
2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000
24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000

2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
4c171c38ffe0005000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481204b893381f0400000000
481624b893381f0500000000
49181822fff81f1200000000

44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000
44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241295093281f4c03fd8000
4241295093281f4d03fda000
4241295093281f4e03fdc000
4241295093281f4f03fde000
4241295093281f4803fd0000
4241295093281f4903fd2000
4241295093281f4a03fd4000
4241295093281f4b03fd6000
4241295093281f4403fc8000
4241295093281f4503fca000
4241295093281f4603fcc000
4241295093281f4703fce000
4241295093281f4003fc0000
4241295093281f4103fc2000

4241295093281f4203fc4000
4241295093281f4303fc6000
42412952ffe81330027f8000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42412954ffe81f5403fe8000
42412954ffe81f5503fea000
42412954ffe81f5603fec000
42412954ffe81f5703fee000
42412954ffe81f5003fe0000
42412954ffe81f5103fe2000
42412954ffe81f5203fe4000
42412954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42c12956ffe81f2d03ff6000
42c12956ffe81f2c03ff4000
42c12956ffe81f2b03ff2000
42c12956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff

44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000
42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428129a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000

24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000
2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000
2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000

2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 6
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000

2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000

2240b0a093281f4803fd0000
2240b0a093281f4903fd2000
2240b0a093281f4a03fd4000
2240b0a093281f4b03fd6000
2240b0a093281f4403fc8000
2240b0a093281f4503fca000
2240b0a093281f4603fcc000
2240b0a093281f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a2ffe81330027f8000
24c4007dffe0000000000000
2240b061ffe81f5403fe8000
2240b061ffe81f5503fea000
2240b061ffe81f5603fec000
2240b061ffe81f5703fee000
24c440a2ffe0000000000001
2280b069ffe0000000000000
2240b068fff01ff400000000
2240b068fff01ff500000000
2240b068fff01ff600000000
2240b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
2240b06fffe81f5003fe0000
2240b06fffe81f5103fe2000
2240b06fffe81f5203fe4000
2240b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
2240b076fff01ff000000000
2240b076fff01ff100000000
2240b076fff01ff200000000
2240b076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b077ffe0000000000000
24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
22c0b0a6ffe81f2d03ff6000
22c0b0a6ffe81f2c03ff4000
22c0b0a6ffe81f2b03ff2000

22c0b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000
2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000
2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000
24c41f15fff01f1520000000
2280b0adffe0000000000000
24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309
47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241315093281f4c03fd8000
4241315093281f4d03fda000
4241315093281f4e03fdc000
4241315093281f4f03fde000
4241315093281f4803fd0000
4241315093281f4903fd2000
4241315093281f4a03fd4000
4241315093281f4b03fd6000
4241315093281f4403fc8000
4241315093281f4503fca000
4241315093281f4603fcc000
4241315093281f4703fce000
4241315093281f4003fc0000
4241315093281f4103fc2000
4241315093281f4203fc4000
4241315093281f4303fc6000
42413152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000

4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c13156ffe81f2d03ff6000
42c13156ffe81f2c03ff4000
42c13156ffe81f2b03ff2000
42c13156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42413154ffe81f5403fe8000
42413154ffe81f5503fea000
42413154ffe81f5603fec000
42413154ffe81f5703fee000
42413154ffe81f5003fe0000
42413154ffe81f5103fe2000
42413154ffe81f5203fe4000
42413154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102

27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c38ffe0005000000000
2240b8a093281f4c03fd8000
2240b8a093281f4d03fda000
2240b8a093281f4e03fdc000
2240b8a093281f4f03fde000
2240b8a093281f4803fd0000
2240b8a093281f4903fd2000
2240b8a093281f4a03fd4000
2240b8a093281f4b03fd6000
2240b8a093281f4403fc8000
2240b8a093281f4503fca000

2240b8a093281f4603fcc000
2240b8a093281f4703fce000
2240b8a093281f4003fc0000
2240b8a093281f4103fc2000
2240b8a093281f4203fc4000
2240b8a093281f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
2240b861ffe81f5403fe8000
2240b861ffe81f5503fea000
2240b861ffe81f5603fec000
2240b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
2240b868fff01ff400000000
2240b868fff01ff500000000
2240b868fff01ff600000000
2240b868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
2240b86fffe81f5003fe0000
2240b86fffe81f5103fe2000
2240b86fffe81f5203fe4000
2240b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
2240b876fff01ff000000000
2240b876fff01ff100000000
2240b876fff01ff200000000
2240b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001
2240b8a2fff8007d00000000
2c171c76ffe0006000000000
2240b8a8ffe81330027f8000
22c0b8a4ffe81f2d03ff6000
22c0b8a4ffe81f2c03ff4000
22c0b8a4ffe81f2b03ff2000
22c0b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000

24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001
253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000
2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000

44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428138de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000

44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241395093281f4c03fd8000
4241395093281f4d03fda000
4241395093281f4e03fdc000
4241395093281f4f03fde000
4241395093281f4803fd0000
4241395093281f4903fd2000
4241395093281f4a03fd4000
4241395093281f4b03fd6000
4241395093281f4403fc8000
4241395093281f4503fca000
4241395093281f4603fcc000
4241395093281f4703fce000
4241395093281f4003fc0000
4241395093281f4103fc2000
4241395093281f4203fc4000
4241395093281f4303fc6000
42413952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000

44c41f2afff00f08c0060000
42c13956ffe81f2d03ff6000
42c13956ffe81f2c03ff4000
42c13956ffe81f2b03ff2000
42c13956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42413954ffe81f5403fe8000
42413954ffe81f5503fea000
42413954ffe81f5603fec000
42413954ffe81f5703fee000
42413954ffe81f5003fe0000
42413954ffe81f5103fe2000
42413954ffe81f5203fe4000
42413954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000
4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000

2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000
4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000

2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000
2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000

```
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
```

ff8000000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
2240c0a093281f4c03fd8000
2240c0a093281f4d03fda000
2240c0a093281f4e03fdc000
2240c0a093281f4f03fde000
2240c0a093281f4803fd0000
2240c0a093281f4903fd2000
2240c0a093281f4a03fd4000
2240c0a093281f4b03fd6000
2240c0a093281f4403fc8000
2240c0a093281f4503fca000
2240c0a093281f4603fcc000
2240c0a093281f4703fce000
2240c0a093281f4003fc0000
2240c0a093281f4103fc2000
2240c0a093281f4203fc4000
2240c0a093281f4303fc6000

2240c0a2ffe81330027f8000
24c4007dffe0000000000000
2240c061ffe81f5403fe8000
2240c061ffe81f5503fea000
2240c061ffe81f5603fec000
2240c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
2240c068fff01ff400000000
2240c068fff01ff500000000
2240c068fff01ff600000000
2240c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
2240c06fffe81f5003fe0000
2240c06fffe81f5103fe2000
2240c06fffe81f5203fe4000
2240c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
2240c076fff01ff000000000
2240c076fff01ff100000000
2240c076fff01ff200000000
2240c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
22c0c0a6ffe81f2d03ff6000
22c0c0a6ffe81f2c03ff4000
22c0c0a6ffe81f2b03ff2000
22c0c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000
2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241415093281f4c03fd8000
4241415093281f4d03fda000
4241415093281f4e03fdc000
4241415093281f4f03fde000
4241415093281f4803fd0000
4241415093281f4903fd2000
4241415093281f4a03fd4000
4241415093281f4b03fd6000
4241415093281f4403fc8000
4241415093281f4503fca000
4241415093281f4603fcc000
4241415093281f4703fce000
4241415093281f4003fc0000
4241415093281f4103fc2000
4241415093281f4203fc4000
4241415093281f4303fc6000
42414152ffe81330027f8000
42414154ffe81f5403fe8000
42414154ffe81f5503fea000
42414154ffe81f5603fec000
42414154ffe81f5703fee000
42414154ffe81f5003fe0000
42414154ffe81f5103fe2000
42414154ffe81f5203fe4000
42414154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c14156ffe81f2d03ff6000
42c14156ffe81f2c03ff4000
42c14156ffe81f2b03ff2000

42c14156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000
42414158ffe81f5803e30000
42414158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000

4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000

2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000
2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 9
ff80000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff108aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff208aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106
27fc0036ffe81f3403e10006
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
000000000000000000000000
281e10b893381f0700000000
ff80000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
```

24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555
2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2240c8a093281f4c03fd8000
2240c8a093281f4d03fda000
2240c8a093281f4e03fdc000
2240c8a093281f4f03fde000
2240c8a093281f4803fd0000
2240c8a093281f4903fd2000
2240c8a093281f4a03fd4000
2240c8a093281f4b03fd6000
2240c8a093281f4403fc8000
2240c8a093281f4503fca000
2240c8a093281f4603fcc000
2240c8a093281f4703fce000
2240c8a093281f4003fc0000
2240c8a093281f4103fc2000
2240c8a093281f4203fc4000
2240c8a093281f4303fc6000
2240c8a2ffe81330027f8000
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa

253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
2240c8a4ffe81f5403fe8000
2240c8a4ffe81f5503fea000
2240c8a4ffe81f5603fec000
2240c8a4ffe81f5703fee000
2240c8a4ffe81f5003fe0000
2240c8a4ffe81f5103fe2000
2240c8a4ffe81f5203fe4000
2240c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000
2c130c79ffe0005800000000
2c130c78ffe0005c00000000
2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000

2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000
2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000

44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b893381f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000

44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241495093281f4c03fd8000
4241495093281f4d03fda000
4241495093281f4e03fdc000
4241495093281f4f03fde000
4241495093281f4803fd0000
4241495093281f4903fd2000
4241495093281f4a03fd4000
4241495093281f4b03fd6000
4241495093281f4403fc8000
4241495093281f4503fca000
4241495093281f4603fcc000
4241495093281f4703fce000
4241495093281f4003fc0000
4241495093281f4103fc2000
4241495093281f4203fc4000
4241495093281f4303fc6000
42414952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42414954ffe81f5403fe8000
42414954ffe81f5503fea000
42414954ffe81f5603fec000
42414954ffe81f5703fee000
42414954ffe81f5003fe0000
42414954ffe81f5103fe2000
42414954ffe81f5203fe4000

42414954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42c14956ffe81f2d03ff6000
42c14956ffe81f2c03ff4000
42c14956ffe81f2b03ff2000
42c14956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000
2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42414958ffe81f6003e40000
42414958ffe81f6103e42000
42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000

000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c99dffe81f5803e30000
24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000

2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 10
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280d02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d0aaffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000

24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d0a093281f4803fd0000
2240d0a093281f4903fd2000
2240d0a093281f4a03fd4000
2240d0a093281f4b03fd6000
2240d0a093281f4403fc8000
2240d0a093281f4503fca000
2240d0a093281f4603fcc000
2240d0a093281f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240d0a2ffe81330027f8000
24c4007dffe0000000000000
2240d061ffe81f5403fe8000
2240d061ffe81f5503fea000
2240d061ffe81f5603fec000
2240d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
2240d068fff01ff400000000
2240d068fff01ff500000000
2240d068fff01ff600000000
2240d068fff01ff700000000

24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
2240d06fffe81f5003fe0000
2240d06fffe81f5103fe2000
2240d06fffe81f5203fe4000
2240d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
2240d076fff01ff000000000
2240d076fff01ff100000000
2240d076fff01ff200000000
2240d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001
22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
22c0d0a6ffe81f2d03ff6000
22c0d0a6ffe81f2c03ff4000
22c0d0a6ffe81f2b03ff2000
22c0d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000

000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000
2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000

44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000

44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241515093281f4c03fd8000
4241515093281f4d03fda000
4241515093281f4e03fdc000
4241515093281f4f03fde000
4241515093281f4803fd0000
4241515093281f4903fd2000
4241515093281f4a03fd4000
4241515093281f4b03fd6000
4241515093281f4403fc8000
4241515093281f4503fca000
4241515093281f4603fcc000
4241515093281f4703fce000
4241515093281f4003fc0000
4241515093281f4103fc2000
4241515093281f4203fc4000
4241515093281f4303fc6000
42415152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c15156ffe81f2d03ff6000
42c15156ffe81f2c03ff4000
42c15156ffe81f2b03ff2000
42c15156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42415154ffe81f5403fe8000
42415154ffe81f5503fea000
42415154ffe81f5603fec000
42415154ffe81f5703fee000
42415154ffe81f5003fe0000

42415154ffe81f5103fe2000
42415154ffe81f5203fe4000
42415154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415158ffe81f6603e4c000
42415158ffe81f6703e4e000
42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000

4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000
2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000

2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 11
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000b0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
253920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280d82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000

24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
000000000000000000000000
2240d8a093281f4c03fd8000
2240d8a093281f4d03fda000
2240d8a093281f4e03fdc000
2240d8a093281f4f03fde000
2240d8a093281f4803fd0000
2240d8a093281f4903fd2000
2240d8a093281f4a03fd4000
2240d8a093281f4b03fd6000
2240d8a093281f4403fc8000
2240d8a093281f4503fca000
2240d8a093281f4603fcc000
2240d8a093281f4703fce000
2240d8a093281f4003fc0000
2240d8a093281f4103fc2000
2240d8a093281f4203fc4000
2240d8a093281f4303fc6000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
2240d8a2ffe81f5403fe8000
2240d8a2ffe81f5503fea000
2240d8a2ffe81f5603fec000
2240d8a2ffe81f5703fee000
2240d8a2ffe81f5003fe0000
2240d8a2ffe81f5103fe2000
2240d8a2ffe81f5203fe4000
2240d8a2ffe81f5303fe6000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000

2c171c68ffe0006800000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d8a8ffe81330027f8000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
22c0d8a4ffe81f2d03ff6000
22c0d8a4ffe81f2c03ff4000
22c0d8a4ffe81f2b03ff2000
22c0d8a4ffe81f2a03ff0000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
000000000000000000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d8a6ffe81f5603e2c000
2240d8a6ffe81f5703e2e000
2240d8a6ffe81f5803e30000
2240d8a6ffe81f5903e32000
2240d8a6ffe81f5a03e34000
2240d8a6ffe81f5b03e36000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6003e40000
2240d8a6ffe81f6103e42000
2240d8a6ffe81f6203e44000
2240d8a6ffe81f6303e46000
2240d8a6ffe81f6603e4c000

000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6703e4e000
2280d8b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d8adffe0000000000000
24c41f15fff01f1501000000
2280d8adffe0000000000000
24c41f15fff01f1502000000
2280d8adffe0000000000000
24c41f15fff01f1504000000
2280d8adffe0000000000000
24c41f15fff01f1540000000
2280d8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c41f08ffe0000000000000
44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f0affe0000000000000
44c41f14fff00baa00000000
44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241595093281f4c03fd8000
4241595093281f4d03fda000

4241595093281f4e03fdc000
4241595093281f4f03fde000
4241595093281f4803fd0000
4241595093281f4903fd2000
4241595093281f4a03fd4000
4241595093281f4b03fd6000
4241595093281f4403fc8000
4241595093281f4503fca000
4241595093281f4603fcc000
4241595093281f4703fce000
4241595093281f4003fc0000
4241595093281f4103fc2000
4241595093281f4203fc4000
4241595093281f4303fc6000
42415952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42c15956ffe81f2d03ff6000
42c15956ffe81f2c03ff4000
42c15956ffe81f2b03ff2000
42c15956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42415954ffe81f5403fe8000
42415954ffe81f5503fea000
42415954ffe81f5603fec000
42415954ffe81f5703fee000
42415954ffe81f5003fe0000
42415954ffe81f5103fe2000
42415954ffe81f5203fe4000
42415954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001

453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
2240d99dffe81f5a03e34000
2240d99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000
44c41f15fff01f1540000000
4281595dffe0000000000000
44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d99dffe81f5803e30000
24c41f59fff01f0dff110000
2240d99dffe81f5903e32000
24c41f5afff00b0eee000000
2240d99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d99dffe81f6003e40000
24c41f61fff01f11ff550000
2240d99dffe81f6103e42000
24c41f62fff01f12ee660000
2240d99dffe81f6203e44000
24c41f63fff01f12ff660000
2240d99dffe81f6303e46000
24c41f64fff01f13ee770000

2240d99dffe81f6403e48000
24c41f65fff01f13ff770000
2240d99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
ff800000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff80000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
ffc0000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

```
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
```

cf
ff
df
ff
ff
ff
ff
3f
fe
ff
ff
ff
ff
ff
ff
c3
ff
f3
ff
ff
ef
00
00
00
00
00
00
00
00
00

//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_noetu.oasm
No license file was found, but licenses were detected in source scan.

/*
* $Id: eav.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Ethernet AV BCM APIs

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/eav.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_nif_prd.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_nif_prd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.1.2.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tk371x_dispatch.h
* Purpose: tk371x driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/bcm_int/tk371x_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  merlin_quadra28_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                      *
*  Created By    :  Kiran Divakar                                                   *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: merlin_quadra28_usr_includes.h 898 2015-02-04 23:22:17Z eroes $ *
*                                                                                   *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                *
*  the written permission of:                                                        *
*      Broadcom Corporation                                                          *
*      5300 California Avenue                                                        *
*      Irvine, CA  92617                                                             *
*                                                                                   *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                                    *
*                                                                                   *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_defs.h,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56800_a0.c
* Purpose:     bcm56800_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56800_a0.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Filename Make.local.56160
FEATURE_LIST=PTP CINT  L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
```

CUSTOMER TEST CHASSIS MSTP RCPU KNET
BCM_PTL_SPT = 1

BCM_56160_A0 = 1

CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -DSAL_THREAD_EXPLICIT_PRIO

workspace:system=56160
#deprecated
linux36-user:system=56160 buildDir=systems/linux/user/iproc-3_6 cpu=iproc
linux-user:system=56160 buildDir=systems/linux/user/iproc-3_14 cpu=iproc
linux-user:system=56160 buildDir=systems/linux/user/gto cpu=gto
linux36-user:system=56160 buildDir=systems/linux/user/rsx-3_6 cpu=rsx

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/esw/Make.pkg.56160
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsShapeTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: psc.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/psc.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_ecn_dm.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_ecn_dm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_madura_field_access.c                                  *
*  Created On    :  29/04/2013                                                     *
*  Created By    :  Kiran Divakar                                                  *
*  Description   :  APIs to access Serdes IP Registers and Reg fields              *
*  Revision      :  $Id: falcon2_madura_field_access.c 1111 2015-08-25 18:05:49Z cvazquez $ *
*                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                          *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                  *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                  *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_3x40g_1xil100.h,v 1.1.24.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_3x40g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_ing_vlan_edit.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
```

```
*
* FILENAME:       DuneDriver/Arad/ARAD_PP/src/arad_pp_lif_ing_vlan_edit.c
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_ing_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_trace.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       dnx_sand_trace.h
*
* AUTHOR:         Dune (S.Z.)
*
* FILE DESCRIPTION:
*   Time trace utility.
*   dnx_sand_trace_init() -- Initialize the tracing table.
*   dnx_sand_trace_end()  -- Currently do nothing.
*   dnx_sand_trace_clear() -- Clear the tracing table.
*   dnx_sand_trace_print() -- Print trace table.
*                     Prints the time difference between 2 consecutive entries.
*   dnx_sand_trace_add_entry() -- Add trace entry to the table.
*                       Add time stamp, except user given data.
* REMARKS:
*   The tracing table is filled continually -- Cyclic.
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_trace.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_stat.h,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_stat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cacheLib.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/cacheLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/cacheLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_nif.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_nif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: post.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/post.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_g.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_g.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  merlin_dino_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: merlin_dino_functions.h 1282 2015-12-04 12:20:52Z eroes $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vxlan_roo.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*****************************************************************************************
*****************************************************
*
*
* Network diagram
*
* We configure Router A
*                                  _________
*                                 | ROUTER B|------host1
*                          host2    |_________|
*                             |      |access_vlan_1, access_port_1
*             ______________________|________|_________________________________
*             |                 |        |                        |
*             |                 | ROUTER A| (intra DC IP)    DC FABRIC  |
*             | native_out_vlan   |_________|                        |
*             | provider_vlan,      /                              |
*             | provider_vlan_2    /                                |
*             | vni1       _______/___                              |
*             |          |         |                              |
*             |          | ROUTER C |                              |
*             |          |__________|                              |
*             |           /                                       |
*             |        /                                          |
*             |_____ /____________________________________________________|
*              ____/___
*             |  TOR1 |
*             |_______|
*             |      |
*             |      |
*             |_______|
*             | VM:A0 |
*             |_______|
*
*
* Configuration:
*
* soc properties:
```

```
* #enable VXLAN according to SIP/DIP
* #0:none 1:dip_sip termination 2: dip_termination 3: both
* bcm886xx_vxlan_enable=1
* #1:seperated in SEM 2:for joined in TCAM
* bcm886xx_vxlan_tunnel_lookup_mode=1
* #disable conflicting features
* bcm886xx_ip4_tunnel_termination_mode=0
* bcm886xx_l2gre_enable=0
* bcm886xx_ether_ip_enable=0
* For Arad/+ devices: bcm886xx_auxiliary_table_mode=1
* #enable ROO for vxlan
* bcm886xx_roo_enable=1
*
* cint;
* cint_reset();
* exit;
* cint ../../../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* cint ../../../../src/examples/dpp/utility/cint_utils_roo.c
* cint ../../../../src/examples/dpp/cint_ip_route.c
* cint ../../../../src/examples/dpp/cint_ip_tunnel.c
* cint ../../../../src/examples/dpp/cint_ip_tunnel_term.c
* cint ../../../../src/examples/dpp/cint_port_tpid.c
* cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* cint ../../../../src/examples/dpp/cint_mact.c
* cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
* cint ../../../../src/examples/dpp/cint_vxlan.c
* cint ../../../../src/examples/dpp/cint_vxlan_roo.c
* cint ../../../../src/examples/dpp/cint_field_gre_learn_data_rebuild.c
* cint
* int unit=0;
* int access_port = 200;
* int provider_port = 201;
* int vpn_id = -1;
* int add_routing_table_entry = 0;
* vxlan_roo_run(unit, access_port, provider_port, vpn_id, add_routing_table_entry);
*
*
*  UC Traffic from RouterB to VM:A0
*
*  Routing to overlay: host1_mac to VM:A0
*  Purpose: - check lookup in host table result as vxlan encapsulation and native ethernet encapsulation
*  Packet flow:
*  -
*
*
*
*
```

```
*
*   Send:
*           -------------------------------------
*       eth: |    DA       |     SA      | VLAN |
*           -------------------------------------
*           | routerA_mac | routerB_mac |  v1  |
*           -------------------------------------
*
*               ------------------------
*           ip: |   SIP     | DIP      |
*               ------------------------
*               | host10_ip |  vmA0_ip |
*               ------------------------
*   Receive:
*           -------------------------------------
*       eth: |    DA       |     SA      | VLAN |
*           -------------------------------------
*           | routerC_mac | routerA_mac |  v2  |
*           -------------------------------------
*
*               ------------------------
*           ip: |   SIP     | DIP     |
*               ------------------------
*               | routerA_ip| tor1_ip |
*               ------------------------
*
*              udp:
*
*                vxlan:  ---------
*                      |  VNI  |
*                      ---------
*                      |  vni  |
*                      ---------
*
*                            -------------------------------------
*                  native eth: |    DA       |     SA      | VLAN |
*                            -------------------------------------
*                            | tor1_mac    | routerA_mac |  v3  |
*                            -------------------------------------
*
*                              -----------------------
*                      native ip:  |   SIP     | DIP     |
*                              -----------------------
*                              | host10_ip | vmA0_ip |
*                              -----------------------
*
*
* vxlan header.vni is resovled from outVsi -> VNI
```

```
* Note: in Jericho, outVSI come from outRif.
*       in QAX, outVSI may come from outRif or native-LL.vlan
*
*
*
*
*
*
*
*
* routerA_mac: native DA/SA and ip_tunnel's SA/DA 00:0c:00:02:00:00 see ip_tunnel_my_mac_get from
cint_ip_tunnel.c
* routerB_mac: native SA/DA: 00:00:00:00:05:81
* v1:          native vlan: 15
* host10_ip:   native SIP/DIP: 160:17:17:17
* vmA0_ip:     native DIP/SIP: 171:17:17:17
*
* routerC_mac: ip tunnel's DA/SA: 20:00:00:00:cd:1d next_hop_mac2 from cint_ip_tunnel.c
* routerA_mac: ip tunnel's SA/DA: 00:0c:00:02:00:00 ip_tunnel_my_mac_get from cint_ip_tunnel.c
* v2:          ip tunnel's vid: 100 out_vlan from cint_ip_tunnel.c
* routerA_ip:  ip tunnel's SIP/DIP. 170.0.0.17 See sip2 from cint_ip_tunnel.c
* tor1_ip:     ip tunnel's DIP/SIP. 171.0.0.17 See dip2 from cint_ip_tunnel.c
* vni:         vxlan header's vni: 5000 vxlan_key_vni from cint_vxlan.c
  v3:          native vlan: 20
*
* overlay to routing: VM:A0 to host1_mac
* Purpose: - check overlay termination and native ethernet termination.
*          - check the packet is routed.
*          - Encapsulated with native ethernet.
*
*    Send:
*            -------------------------------------
*        eth: |    DA       |     SA      | VLAN |
*            -------------------------------------
*            | routerA_mac | routerC_mac |  v2  |
*            -------------------------------------
*
*                -----------------------
*            ip: |   SIP   | DIP       |
*                -----------------------
*                | tor1_ip | routerA_ip|
*                -----------------------
*
*                udp:
*
*                  vxlan:  ---------
*                          |  VNI  |
*                          ---------
```

```
*                    |  vni  |
*                    ---------
*
*                        ---------------------------------
*                native eth: |    DA       |     SA   | VLAN |
*                        ---------------------------------
*                        | routerA_mac | tor1_mac |  v3  |
*                        ---------------------------------
*
*                          ----------------------
*                   native ip:  |   SIP   |   DIP     |
*                          ----------------------
*                          | vmA0_ip | host10_ip |
*                          ----------------------
*
*
*    Receive:
*           -------------------------------------
*       eth: |    DA       |     SA      | VLAN |
*           -------------------------------------
*           | routerB_mac | routerA_mac |  v1  |
*           -------------------------------------
*
*              ------------------------
*           ip: |   SIP   |   DIP      |
*              ------------------------
*              | vmA0_ip |  host10_ip |
*              ------------------------
*
*
*
* Native Vlan editing scenarios:
* In Jericho, native egress Vlan editing is supported by EVE.
*           Overlay egress Vlan editing is not supported
* In QAX, native egress Vlan editing is supported by native EVE
*           Overlay egress Vlan editing is supported by EVE.
* To perform native EVE, we need to allocate a full bank in EEDB dedicated to native EVE.
* To configure native EVE see vxlan_roo_native_default_out_ac().
*
*
* ./bcm.user
* cd ../../../../regress/bcm
* cint ../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../src/examples/dpp/utility/cint_utils_multicast.c
* cint ../../src/examples/dpp/utility/cint_utils_l3.c
* cint ../../src/examples/dpp/utility/cint_utils_vlan.c
* cint ../../src/examples/dpp/utility/cint_utils_roo.c
* cint ../../src/examples/dpp/internal/cint_native_egress_vlan_editing_lif_vsi_lookup.c
```

```
* cint ../../src/examples/dpp/cint_ip_route.c
* cint ../../src/examples/dpp/cint_port_tpid.c
* cint ../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
* cint ../../src/examples/dpp/utility/cint_utils_l2.c
* cint ../../src/examples/dpp/cint_field_gre_learn_data_rebuild.c
* cint ../../src/examples/dpp/cint_ip_tunnel.c
* cint ../../src/examples/dpp/cint_ip_tunnel_term.c
* cint ../../src/examples/dpp/cint_mact.c
* cint ../../src/examples/dpp/cint_vswitch_metro_mp.c
* cint ../../src/examples/dpp/cint_qos_l3_rif_cos.c
* cint ../../src/examples/dpp/cint_vxlan.c
* cint ../../src/examples/dpp/cint_vxlan_roo.c
* cint
* vxlan_roo_run(0,200,202,-1,0,0);
* # only for Jericho+ and QAX
* vxlan_roo_native_default_out_ac(0);
* # only for Jericho/Qmx
* vxlan_roo_out_ac_perform_native_ve(0, 200, 202);
* exit;
*
* vxlan- packet from user to vxlan. One native vlan tag
* Purpose: - check native VLAN editing, add 1 tag.
*
* tx 1 psrc=200
data=0x000c000200000000000058181000014080045000035000000080000ea86f6f6f6faba1a1a10001020304050
60708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
* Received packets on unit 0 should be:
* Source port: 0, Destination port: 0
* Data:
0x20000000cd1d000c000200008100006408004 50b006b0000000032113355aa000011ab000011500055550057000
0800000000138800000007000123000c000200008100400f08004500003500000007f000fa86f6f6f6faba1a1a10001
02030405060708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
*
* vxlan- packet from user to vxlan. untagged native ethernet
* Purpose: - check native VLAN editing, untag.
* cint
* vxlan_roo_modify_native_vlan_number(0, 0);
* exit;
* tx 1 psrc=200
data=0x000c000200000000000058181000014080045000035000000080000ea86f6f6f6faba1a1a10001020304050
60708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
* Received packets on unit 0 should be:
* Source port: 0, Destination port: 0
* Data:
0x20000000cd1d000c000200008100006408004 50b006700000000032113359aa000011ab000011500055550053000
```

080000000013880000000700012300 0c000200000800450000350000000007f000fa86f6f6f6faba1a1a1000102030405
060708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
*
* vxlan- packet from user to vxlan. double tagged native ethernet
* Purpose: - check native vlan editing, set 2 tags.
* cint
* vxlan_roo_modify_native_vlan_number(0, 2);
*exit;
* tx 1 psrc=200
data=0x000c000200000000000058181000014080045000035000000080000ea86f6f6f6faba1a1a10001020304050
60708090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
* Received packets on unit 0 should be:
* Source port: 0, Destination port: 0
* Data:
0x20000000cd1d000c000200008100006408004 50b006f0000000032113351aa000011ab00001150005555005b0000
080000000013880000000700012300 0c000200008100400f9100007b080045000035000000007f000fa86f6f6f6faba1
a1a100010203040506070 8090a0b0c0d0e0f101112131415161718191a1b1c1d1e1f20
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_vxlan_roo.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_port.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE WARM BOOT H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dfe/cmn/dfe_warm_boot.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: memtest.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Test Kernel
*

```
* Streamlined module designed for inclusion in the SOC driver for
* performing power-on memory tests.
*
* This module is also used by the main SOC diagnostics memory tests,
* fronted by user interface code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/memtest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_qax_ingress_packet_queuing.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgPortRemapEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgPortRemapEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.depend,v 1.14 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Default rule to build dependencies.  This builds a x.d file for each
# x.c file that describes the dependencies.  We then conditionally include
# the generated .d files.
#

#
# If making 'clean', do not include any .d files.  If they are included,
# gmake intrinsically tries to remake them all.
```

```
#
ifeq (,$(findstring clean,$(MAKECMDGOALS)))

ZFS      :=$(wildcard *.zf)
ZFC := $(ZFS:.zf=.c)

ifdef GENERATE_C_FILES
ifndef GEN_INCS
$(error "GEN_INCS was not defined")
endif

ZF_GEN   = ${SDK}/tools/zFrameCodeGen.pl

# 1=.zf
define ZFS_RULE
$(1:.zf=Console.c) : $(1:.zf=.c)
 @echo updated $$@ from $$?

$(1:.zf=.c) : $(1) $(ZF_GEN)
 @$(PERL) $(ZF_GEN) -s -z . -p . -g $1 -t c
 @echo generated ${LOCALDIR}/$$@ from $(1)
 @mv $$(*F).cx $$@
 @if [ -e $$(*F)Console.cx ] ; then \
    mv $$(*F)Console.cx $$(*F)Console.c; \
     echo Created $$(*F)Console.c ;\
 fi
 @if [ -e $$(*F)Console.hx ] ; then \
    echo Created $(GEN_INCS)/$$(*F)Console.hx ;\
    mv $$(*F)Console.hx $(GEN_INCS)/ ; \
 fi
 @mv $$(*F).hx $(GEN_INCS)/
endef

$(foreach zf,$(ZFS),$(eval $(call ZFS_RULE,$(zf))))

${BLDDIR}/%.P : ${BLDDIR}/.tree %.c

.PHONY: GENFILES
GENFILES: $(ZFC)

$(BOBJS) : $(ZFC)

else
#
# Attempt to build the depend files.  If it fails, the depend file is
# removed so that it is not included in later builds.
#
${BLDDIR}/%.P : %.c ${BLDDIR}/.tree
```

```
 @$(ECHO) Dependencies for ${LOCALDIR}/$<

${BLDDIR}/%.P : %.cc ${BLDDIR}/.tree
 @$(ECHO) Dependencies for ${LOCALDIR}/$<

endif

#
# If there are C or C++ files in this directory, include the
# depend files for them.
#

ifeq ($(findstring _COMPILER,$(MAKECMDGOALS))$(findstring variable,$(MAKECMDGOALS)),)
ifneq ($(strip ${LSRCS}),)
ifneq (,$(findstring .o,$(MAKECMDGOALS)))
-include $(addprefix ${BLDDIR}/,$(MAKECMDGOALS:.o=.P)) $(addprefix
${BLDDIR}/,$(MAKECMDGOALS:.o=.sig))
else
-include $(addprefix ${BLDDIR}/,$(addsuffix .P,$(basename $(LSRCS)))) $(addprefix ${BLDDIR}/,$(addsuffix
.sig,$(basename $(LSRCS))))
endif
endif
endif

endif # !CLEANING

clean_d::
ifdef QUIET
 @$(ECHO) Cleaning dependencies for ${LOCALDIR}
endif
ifdef GENERATE_C_FILES
 $Q$(RM) $(ZFC:%=$(SDK)/$(LOCALDIR)/%) $(ZFC:%.c=$(SDK)/$(LOCALDIR)/%Console.c)
endif

clean:: clean_d
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.depend
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8729.c,v 1.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8729.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blmi_err.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/blmi_err.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_multicast_imp.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_field_action_config.c v 1.0 31/03/2016 skoparan Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_action_config.c
* Purpose: Example Usage of egress PMF actions using ACE table
*
* Fuctions:
* Main function:
*     stat_config_main()
* Configuration functions:
*  L2 config:
*     create_vlan_and_ports() - to be used for all cases
*     create_lif() - to be used for out-LIF redirection in addition to create_vlan_and_ports()
*  PMF config:
*     field_config()
*
* Result verification functions:
*     run_verify_redir() - for cases with port redirection
*     run_verify_newlif() - for cases with out-LIF redirection
*
```

```
* Cleanup function:
*      field_destroy()
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_action_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rpc.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Remote Procedure Call BCM Dispatch Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/rpc/rpc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: OamUtilsCtc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     OamUtilsCtc.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/OamUtilsCtc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: regex.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       txrx.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/regex.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_general.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2uc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2UC Streaming test to check basic L2 packet switching. The test pairs up
* same speed ports and creates L2UC traffic swills. Test also
* calculates expected rates based on port config and oversub ratio, measures
* actual rate over a period of time and conducts rate checks. Finally all
* packets in each swill will be redirected to the CPU and checked for integrity.
*
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*         ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swill. Setting this to 0 will let the
*          test calculate the number of packets that can be sent to achieve
*          a lossless swirl at full rate. Set to 0 by default.
* RateCalcInt: Interval in seconds over which rate is to be calculated
* TolLr: Rate tolerance percentage for linerate ports (1% by default).
* TolOv: Rate tolerance percentage for oversubscribed ports (3% by default).
* ChkPktInteg: Set to 0 to disable packet integrity checks, 1 to enable (default).
* MaxNumCells: Max number of cells for random packet sizes. Default = 4. Set
*             to 0 for random.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_l2uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* prototypes for functions defined in bcmstdlib.c
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmstdlib.h,v 1.2 Broadcom SDK $:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmstdlib.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
** ==========================================================================
** == glue.h -  Lower level OS specific glue layer for Sandburst devices ==
** ==========================================================================
**
** WORKING REVISION: $Id: glue.h,v 1.6 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** MODULE NAME:
**
**     glue.h
**
** ABSTRACT:
**
**     Provide access to Sandburst chips.
**     All access is through opaque types.
**
** LANGUAGE:
**
**     C
**
** AUTHORS:
**
**     Lennart Augustsson
**
** CREATION DATE:
**
**     22-July-2004
**
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/glue.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassDefaultQEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassDefaultQEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision    :     *
*                                                                            *
*  Description :  Interface functions targeted to IP user                    *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
```

```
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/merlin16/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* merlin16_interface.h - provides the primary functionality.
*
* merlin16_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: harrier_service.h,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/harrier_service.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_top.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM top header for core scheduler
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/core/tdm_top.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_xe.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_xe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmx.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx.c
* Purpose:     Basic infrastructure code for BCMX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/bcmx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: unimac.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS 10/100/1000/2500 Megabit Media Access Controller Driver (unimac)
*
* This module is used for:
*
*   -  Gigabit ports on some XGS3 systems.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/unimac.c
No license file was found, but licenses were detected in source scan.

```
/*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: gmac_common.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/gmac_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2switch.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* l2switch.c: Example L2 Switching Application
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/l2switch/l2switch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dffs_driver.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/dffs_driver.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_vsi.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_vsi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_csys.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_csys.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm_pack.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       eth_lm_dm_pack.c
* Purpose:     ETH_LM_DM pack and unpack routines for:
*             - ETH_LM_DM Control messages
*             - Network Packet headers (PDUs)
*
*
* ETH_LM_DM control messages
*
* ETH_LM_DM messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The ETH_LM_DM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/eth_lm_dm_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  shr_bprof.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_bprof.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_sbusdma_desc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: CMICM SBUS Descriptor based DMA Driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_sbusdma_desc.c
No license file was found, but licenses were detected in source scan.

```
/**
* \file dbal_db_init.h
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Main functions for init the dbal fields and logical tables DB
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_db_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_counter.c,v 1.31 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_counter.c
* Purpose:    Software Counter Collection module for SIRIUS (QE4K).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sirius_counter.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_egr_queuing.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_egr_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem_table_test.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic Hash Memory Test definitions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/mem_table_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: profile_sal.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  profile_sal.c
* Purpose:  SAL resource usage profiler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/profile_sal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_topology.h,v 1.4.132.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC TOPOLOGY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_topology.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: generic.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       generic.h
* Purpose:     Generic defines, based only on C types.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/generic.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_init.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm9600_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*
*
* $Id: falcon.c,v 1.2.2.26 Broadcom SDK $
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software
* and all intellectual property rights therein.  IF YOU HAVE
* NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
* IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
```

* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof,
* and to use this information only in connection with your use of
* Broadcom integrated circuit products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
* PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
* BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
* INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
* ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
* TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
* THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
* WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_cfg_seq.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dnxf_mbcm.c
* Purpose: Implementation of bcm multiplexing - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call. This file contains the basic declarations for this

```
* process.
*
* This code allows to use the same MBCM_DNXF_DRIVER_CALL API independently of the chip type
*
*/
/*
* $Id: mbcm.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2005 Broadcom Corp.
* All Rights Reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* This code allows to use the same MBCM_DNXF_DRIVER_CALL API independently of the chip type
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_ipv6.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_ipv6.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_sa_auth.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_sa_auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3sw_test.h,v 1.19 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       c3sw_test.h
* Purpose:     Extern declarations for test functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3sw_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arl.c
* Purpose:
*      Provide some NorthStar-Plus specific ARL soc drivers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.184 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Port API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/port.c
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_fe_auto.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_fe_auto.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: test.c,v 1.101 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       test.c
* Purpose:     entry point for all tr related routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/test.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_host_board.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_host_board.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_mem_access.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains definitions for BM9600 memory access.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm9600_mem_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* Code to operate on PCI/E core, in NIC mode
* Implements pci_api.h
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nicpci.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/nicpci.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/nicpci.c
No license file was found, but licenses were detected in source scan.

```
/**
*
*
* $Id: sbx_rx.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx_rx.c
* Purpose:    sbxpkt rx support functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sbx_rx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_oam.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_oam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ilm.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
```

```
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_ilm.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_ilm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdescombo65.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     physerdescombo65.c
* Purpose:
*     Fiber driver for 65nm combo serdes using as internal Serdes PHY.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     _phy_combo65_notify_duplex
*     _phy_combo65_notify_speed
*     _phy_combo65_notify_stop
*     _phy_combo65_notify_resume
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo65.c
No license file was found, but licenses were detected in source scan.

/* $Id: DNX_general.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/utils.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: field.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: field.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/field.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bcmi2c.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmi2c.c
* Purpose: BCM I2C API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/bcmi2c.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_eg_filter.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_filter.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_ports.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: clock_init.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    clock_init.c
*
* Purpose:
*
* Functions:
*      bcm_common_ptp_clock_port_identity_get
*      bcm_common_ptp_clock_create
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/clock_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_trunk.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arad_trunk.c
* Purpose: SOC level functinos for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_cmds.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       caladan3_cmds.c
* Purpose:     Caladan3-specific diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/caladan3_cmds.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeMaxBurstEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeMaxBurstEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drv.h,v 1.664 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type37.h
* Purpose:    Define dma control block (DCB) format for a type37 DCB
*             used by the 53570 (Greyhound2)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type37.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JER2_JERICHO STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_multicast_test.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Multicast test application
* Cint shows two examples of multicast applications: direct and indirect
* Direct: set multicast table.
* Indirect: set multicast table and create a static topology. An example of such multicast mode will be
* to work with module ids that higher than 127.
*
```

```
* Focal funtions:
* o    multicast_test__fabric_direct_mode_set()
* o    multicast_test__fabric_indirect_mode_set()
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_multicast_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpool.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/include/mpool.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000.h,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/qe2000.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_multi_set.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
* FILENAME:       soc_sand_multi_set.c
*
* FILE DESCRIPTION:
*   The bit stream modules
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
```

```
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_multi_set.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_cmds.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qe2000_cmds.h
* Purpose:     QE-2000 diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/qe2000_cmds.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sand.bcm,v 1.140 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

#pci_override_dev.0=0x8375

# Note: comment size is restricted to 128 charecters per line.

##########################################
##cfg for BCM88640 (PetraB), BCM88650 (Arad) and BCM88202 (Ardon)
##########################################

## temporary suppressing unknown soc properties warnings - till adding them unknown to property.h/propgen
## (need to be the first soc property in the file).
suppress_unknown_prop_warnings=1


## Multi device system (Negev): 2 devices, fabric mode is FE, mod id is slot id
## (Top line card is 0, button is 1).
#diag_chassis=1

## Disable diag init application. Should be used if one wants to run his own
## application instead of the diag init example
```

```
#diag_disable=1

## Skip cosq configuration in diag_init
#diag_cosq_disable=1
#

stack_enable.BCM88680=1
tdma_timeout_usec.BCM88680=3000000
tslam_timeout_usec.BCM88680=3000000
diag_emulator_partial_init.BCM88680=0
phy_simul.BCM88680=0


## Skip l2 configuration in diag_init
#diag_l2_disable=1

## L2 mode to load 0=DEFAULT, 1=INGRESS_DIST, 2=INGRESS_CENT, 3=EGRESS_DIST,
4=EGRESS_CENT, 5=EGRESS_INDEPENDENT
#                6=(INGRESS_CENT + LEARN_CPU), 7=(EGRESS_CENT + LEARN_CPU)
#l2_mode=0

## Skip stk configuration in diag_init
#diag_no_appl_stk=1

## Skip itmh programmable mode configuration in diag_init
#diag_no_itmh_prog_mode=1

# Ingress PMF key allocation optimization
field_key_allocation_msb_balance_enable=1

## Set modid value. Should be used when running multi-fap system.
## Each fap should have it's unique modid value. Default is described in diag_chassis.
#module_id=<modid>

## Set base_modid value. Default is 0.
#base_module_id=<base_modid>

## Set nof_devices value. Should be set when working on multi-faps system.
## Default is 1 when diag_chassis is not enabled, or 2 when diag_chassis is enabled.
#n_devices=<nof_devices>

##########################################
##cfg for BCM88650 - Arad
##########################################

### Device configuration ###

## Activate Emulation partial init. Values: 0 - Normal, 1 - Emulation .Default: 0x0.
```

```
diag_emulator_partial_init.BCM88650=0
#diag_emulator_partial_init.BCM88270=1
#diag_emulator_partial_init.BCM88680=1
#diag_emulator_partial_init.BCM88675=2

#real phy isn't connected - remove on silicon arrival
#phy_simul.BCM88675=1

## General
# Set the FAP Device mode
# Options: PP / TM / TDM_OPTIMIZED / TDM_STANDARD
fap_device_mode.BCM88650=PP
#

# PP Fixed Followed SDK-91662
#

# Options: SYMMETRIC / ASYMMETRIC / SINGLE_CORE
# For faster emulation, use SINGLE_CORE
device_core_mode.BCM88675=SYMMETRIC
device_core_mode.BCM88680=SYMMETRIC
## Credit worth size (Bytes)
credit_size.BCM88650=1024

## KBP recovery - allow for recovery sequence to run during init and soft reset (only if necessary)
custom_feature_kbp_recovery_enable=0

## Clock configurations
# Core clock speed (MHz). Default- BCM88650: 600 MHz, BCM88675: 720 MHz
core_clock_speed_khz.BCM88650=600000
core_clock_speed_khz.BCM88675=720000
core_clock_speed_khz.BCM88470=600000
core_clock_speed_khz.BCM88680=837500
core_clock_speed_khz.BCM88270=250000

# System reference clock (MHz). Default- BCM88650: 600 MHz, BCM88675: 800 MHz
system_ref_core_clock_khz.BCM88650=1200000

#fabric pcp
fabric_pcp_enable.BCM88675=1

fabric_pcp_enable.BCM88470=1

#Using Tcam instead of the KAPS for the IPv4 MC and IPV6 MC
# 0 - Don't use TACM
# 1 - Use TCAM for IPV4/6 MC
# 2 - Use TACM for IPV4/6 MC but don't use the VRF field as a qualifier for IPV4 MC entries
#custom_feature_l3_mc_use_tcam=0
```

```
#for IPv6UC: use Tcam instead of KAPS
#Note that if this property is enabled the IPV6-UC RPF will be disabled
#custom_feature_l3_ipv6_uc_use_tcam=0


#ams pll override value (only for Jericho A0/A1)- possible values: 0x19, 0x1e, 0x1f. Default value 0x1f
#custom_feature_ams_pll_override.BCM88675=0x1f

#First packet SW bypass: Requires SW link scan to be enabled. Valid only for Jericho and beyond.
ilkn_first_packet_sw_bypass.BCM88675=0x1
ilkn_first_packet_sw_bypass.BCM88470=0x1


### Network Interface configuration ###
## Use of the ucode_port_<Local-Port-Id>=<Interface-type>[<Interface-Id>][.<Channel-Id>]
## Local port range: 0 - 255.
## Interface types: XAUI/RXAUI/SGMII/ILKN/10GBase-R/XLGE/CGE/CPU/IGNORE

# Map bcm local port to CPU[.channel] interfaces
ucode_port_0.BCM88650=CPU.0

# Map bcm local port to Network-Interface[.channel] interfaces - TBD
ucode_port_17.BCM88650=CGE1
ucode_port_16.BCM88650=10GBase-R15
ucode_port_15.BCM88650=10GBase-R14
ucode_port_14.BCM88650=10GBase-R13
ucode_port_13.BCM88650=10GBase-R12
ucode_port_1.BCM88650=CGE0
custom_feature_nif_recovery_enable.BCM88650=1
custom_feature_nif_recovery_iter.BCM88650=7
custom_feature_skip_before_traffic_validation.BCM88675=0
#custom_feature_mac_fifo_start_tx_thrs.BCM88675=9

#redirect packets that are destined to invalid queues
invalid_queue_redirect=0

#CLP0
#ucode_port_1.BCM88675=XE0:core_0.1
#ucode_port_2.BCM88675=XE1:core_0.2
#ucode_port_3.BCM88675=XE2:core_0.3
#ucode_port_4.BCM88675=XE3:core_0.4
#CLP1
#ucode_port_5.BCM88675=XE4:core_0.5
#ucode_port_6.BCM88675=XE5:core_0.6
#ucode_port_7.BCM88675=XE6:core_0.7
#ucode_port_8.BCM88675=XE7:core_0.8
#CLP2
```

```
#ucode_port_9.BCM88675=XE8:core_0.9
#ucode_port_10.BCM88675=XE9:core_0.10
#ucode_port_11.BCM88675=XE10:core_0.11
#ucode_port_12.BCM88675=XE11:core_0.12
#CLP3
#ucode_port_13.BCM88675=XE12:core_0.13
#ucode_port_14.BCM88675=XE13:core_0.14
#ucode_port_15.BCM88675=XE14:core_0.15
#ucode_port_16.BCM88675=XE15:core_0.16
#CLP4
#ucode_port_17.BCM88675=XE16:core_0.17
#ucode_port_18.BCM88675=XE17:core_0.18
#ucode_port_19.BCM88675=XE18:core_0.19
#ucode_port_20.BCM88675=XE19:core_0.20
#CLP5
#ucode_port_21.BCM88675=XE20:core_0.21
#ucode_port_22.BCM88675=XE21:core_0.22
#ucode_port_23.BCM88675=XE22:core_0.23
#ucode_port_24.BCM88675=XE23:core_0.24
#XLP0
#ucode_port_25.BCM88675=XE24:core_0.25
#ucode_port_26.BCM88675=XE25:core_0.26
#ucode_port_27.BCM88675=XE26:core_0.27
#ucode_port_28.BCM88675=XE27:core_0.28
#XLP1
#ucode_port_29.BCM88675=XE28:core_0.29
#ucode_port_30.BCM88675=XE29:core_0.30
#ucode_port_31.BCM88675=XE30:core_0.31
#ucode_port_32.BCM88675=XE31:core_0.32
#XLP2
#ucode_port_33.BCM88675=XE32:core_0.33
#ucode_port_34.BCM88675=XE33:core_0.34
#ucode_port_35.BCM88675=XE34:core_0.35
#ucode_port_36.BCM88675=XE35:core_0.36
#XLP3
#ucode_port_37.BCM88675=XE36:core_0.37
#ucode_port_38.BCM88675=XE37:core_0.38
#ucode_port_39.BCM88675=XE38:core_0.39
#ucode_port_40.BCM88675=XE39:core_0.40
#XLP4 (not as PMQ0)
#ucode_port_41.BCM88675=XE40:core_0.41
#ucode_port_42.BCM88675=XE41:core_0.42
#ucode_port_43.BCM88675=XE42:core_0.43
#ucode_port_44.BCM88675=XE43:core_0.44
#XLP5 (not as PMQ1)
#ucode_port_45.BCM88675=XE44:core_0.45
#ucode_port_46.BCM88675=XE45:core_0.46
#ucode_port_47.BCM88675=XE46:core_0.47
```

```
#ucode_port_48.BCM88675=XE47:core_0.48
#XLP9
#ucode_port_49.BCM88675=XE60:core_0.49
#ucode_port_50.BCM88675=XE61:core_0.50
#ucode_port_51.BCM88675=XE62:core_0.51
#ucode_port_52.BCM88675=XE63:core_0.52
#XLP10
#ucode_port_53.BCM88675=XE64:core_0.53
#ucode_port_54.BCM88675=XE65:core_0.54
#ucode_port_55.BCM88675=XE66:core_0.55
#ucode_port_56.BCM88675=XE67:core_0.56
#XLP11 (not as PMQ3)
#ucode_port_57.BCM88675=XE68:core_0.57
#ucode_port_58.BCM88675=XE69:core_0.58
#ucode_port_59.BCM88675=XE70:core_0.59
#ucode_port_60.BCM88675=XE71:core_0.60


ucode_port_0.BCM88675=CPU.0:core_0.0
ucode_port_0.BCM88680=CPU.0:core_0.0
ucode_port_200.BCM88675=CPU.8:core_1.200
ucode_port_200.BCM88680=CPU.8:core_1.200
ucode_port_201.BCM88675=CPU.16:core_0.201
ucode_port_201.BCM88680=CPU.16:core_0.201
ucode_port_202.BCM88675=CPU.24:core_1.202
ucode_port_202.BCM88680=CPU.24:core_1.202
ucode_port_203.BCM88675=CPU.32:core_0.203
ucode_port_203.BCM88680=CPU.32:core_0.203

#default ports for Jericho and QMX
ucode_port_1.BCM88675=CGE0:core_0.1
ucode_port_2.BCM88675=ILKN1:core_0.2
ilkn_lanes_1.BCM88675=0xfff000
ucode_port_3.BCM88675=ILKN2:core_0.3
ilkn_lanes_2.BCM88675=0xfff
ucode_port_17.BCM88675=CGE1:core_1.17

#default ports for Jericho
ucode_port_13.BCM88675=10GBase-R64:core_0.13
ucode_port_14.BCM88675=10GBase-R65:core_0.14
ucode_port_15.BCM88675=10GBase-R68:core_1.15
ucode_port_16.BCM88675=10GBase-R69:core_1.16

#default ports for Jericho Plus
ucode_port_13.BCM88680=10GBase-R40:core_0.13
ucode_port_14.BCM88680=10GBase-R43:core_0.14
ucode_port_15.BCM88680=10GBase-R44:core_1.15
ucode_port_16.BCM88680=10GBase-R46:core_1.16
```

```
#default ports for QMX
ucode_port_13.BCM88375_A0=10GBase-R64:core_0.13
ucode_port_14.BCM88375_A0=10GBase-R66:core_0.14
ucode_port_15.BCM88375_A0=10GBase-R69:core_1.15
ucode_port_16.BCM88375_A0=10GBase-R71:core_1.16


ucode_port_13.BCM88375_B0=10GBase-R64:core_0.13
ucode_port_14.BCM88375_B0=10GBase-R66:core_0.14
ucode_port_15.BCM88375_B0=10GBase-R69:core_1.15
ucode_port_16.BCM88375_B0=10GBase-R71:core_1.16


#default ports for QAX
ucode_port_0.BCM88470=CPU.0:core_0.0

ucode_port_200.BCM88470=CPU.8:core_0.200

ucode_port_201.BCM88470=CPU.16:core_0.201

ucode_port_202.BCM88470=CPU.24:core_0.202

ucode_port_203.BCM88470=CPU.32:core_0.203

ucode_port_1.BCM88470=XLGE7:core_0.1

ucode_port_2.BCM88470=ILKN2:core_0.2

ilkn_lanes_2.BCM88470=0xf00

ucode_port_3.BCM88470=ILKN3:core_0.3

ilkn_lanes_3.BCM88470=0xfff000

ucode_port_17.BCM88470=XLGE5:core_0.17

ucode_port_13.BCM88470=XE47:core_0.13

ucode_port_14.BCM88470=XE46:core_0.14

ucode_port_15.BCM88470=XE44:core_0.15

ucode_port_16.BCM88470=XE45:core_0.16


stable_filename.BCM88270=/tmp/warmboot_data
fap_device_mode.BCM88270=PP
```

```
#default ports for QUX
ucode_port_0.BCM88270=CPU.0:core_0.0
ucode_port_200.BCM88270=CPU.8:core_0.100
ucode_port_201.BCM88270=CPU.16:core_0.101
ucode_port_202.BCM88270=CPU.24:core_0.102
ucode_port_203.BCM88270=CPU.32:core_0.103
ucode_port_1.BCM88270=XAUI2:core_0.1
ucode_port_2.BCM88270=GE12:core_0.2
ucode_port_3.BCM88270=GE13:core_0.3
ucode_port_13.BCM88270=XE0:core_0.13
ucode_port_14.BCM88270=XE1:core_0.14
ucode_port_15.BCM88270=XE2:core_0.15
ucode_port_16.BCM88270=XE3:core_0.16
ucode_port_17.BCM88270=XAUI4:core_0.17


#Firmware mode:
#(Documantation relevant for BCM886xx and BCM887xx)
# 0=DEFAULT
# 1=SFP_OPT_SR4     - optical short range
# 2=SFP_DAC         - direct attach copper
# 3=XLAUI           - 40G XLAUI mode
# 4=FORCE_OSDFE     - force over sample digital feedback equalization
# 5=FORCE_BRDFE     - force baud rate digital feedback equalization
# 6=SW_CL72         - software cl72 with AN on
# 7=CL72_WITHOUT_AN - cl72 without AN
#For Negev2 chassis enable DFE is recommended
serdes_firmware_mode.BCM88650=2
serdes_firmware_mode_il.BCM88650=4
serdes_firmware_mode_sfi.BCM88650=0
serdes_firmware_mode_sfi.BCM88675=4
serdes_firmware_mode_sfi.BCM88470=4
serdes_firmware_mode_sfi.BCM88270=4
serdes_firmware_mode_sfi.BCM88680=4


#ucode_port_1.BCM88650=10GBase-R0
#ucode_port_2.BCM88650=10GBase-R1
#ucode_port_3.BCM88650=10GBase-R2
#ucode_port_4.BCM88650=10GBase-R3
#ucode_port_5.BCM88650=10GBase-R4
#ucode_port_6.BCM88650=10GBase-R5
#ucode_port_7.BCM88650=10GBase-R6
#ucode_port_8.BCM88650=10GBase-R7
#ucode_port_9.BCM88650=10GBase-R8
#ucode_port_10.BCM88650=10GBase-R9
#ucode_port_11.BCM88650=10GBase-R10
#ucode_port_12.BCM88650=10GBase-R11
```

```
#ucode_port_13.BCM88650=10GBase-R12
#ucode_port_14.BCM88650=10GBase-R13
#ucode_port_15.BCM88650=10GBase-R14
#ucode_port_16.BCM88650=10GBase-R15
#ucode_port_17.BCM88650=10GBase-R16
#ucode_port_18.BCM88650=10GBase-R17
#ucode_port_19.BCM88650=10GBase-R18
#ucode_port_20.BCM88650=10GBase-R19
ucode_port_200.BCM88650=CPU.8
ucode_port_201.BCM88650=CPU.16
ucode_port_202.BCM88650=CPU.24
ucode_port_203.BCM88650=CPU.32

#40G
#ucode_port_1.BCM88650=XLGE0
#ucode_port_2.BCM88650=XLGE1
#ucode_port_3.BCM88650=XLGE2
#ucode_port_4.BCM88650=XLGE3
#ucode_port_5.BCM88650=XLGE4
#ucode_port_6.BCM88650=XLGE5
#ucode_port_7.BCM88650=XLGE6

#ILKN configuration - basic config
#ucode_port_31.BCM88650=ILKN0
#ucode_port_32.BCM88650=ILKN1
#ucode_port_32.BCM88675=ILKN1:core_0.32
#ilkn_num_lanes_0.BCM88650=12
#ilkn_num_lanes_1.BCM88650=12
#port_init_speed_il.BCM88650=10312


#ILKN per port channel stat
#ilkn_counters_mode.BCM88650=PACKET_PER_CHANNEL

#ILKN configuration - advanced
#ilkn_metaframe_sync_period=2048
#ILKN burst configuration - ILKN max burst suppored values: 128, 256
#ILKN burst short should be lesser or equal to burst max /2
#ilkn_burst_max.BCM88675=256
#ilkn_burst_min.BCM88675=32
# Enable\Disable ILKN status message sent through an out-of-band interface.
# ilkn_interface_status_oob_ignore.BCM88650=1

# ilkn_is_burst_interleaving<ilkn_id>
# 1 - The channelized interface functions in burst interleaving mode (default). 0 - in full packet mode.
#ilkn_is_burst_interleaving_1.BCM88675=0

##ILKN retransmit
```

```
#ilkn_retransmit_enable_rx.BCM88650=1
#ilkn_retransmit_enable_tx.BCM88650=1
#ilkn_retransmit_buffer_size.BCM88650=250
#ilkn_retransmit_num_requests_resent.BCM88650=15
#ilkn_retransmit_num_sn_repetitions_tx.BCM88650=1
#ilkn_retransmit_num_sn_repetitions_rx.BCM88650=1
#ilkn_retransmit_rx_timeout_words.BCM88650=3800
#ilkn_retransmit_rx_timeout_sn.BCM88650=250
#ilkn_retransmit_rx_ignore.BCM88650=80
#ilkn_retransmit_rx_reset_when_error_enable.BCM88650=1
#ilkn_retransmit_rx_watchdog.BCM88650=0
#ilkn_retransmit_rx_reset_when_alligned_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_retry_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_after_disc_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_before_disc_error_enable.BCM88650=0
#ilkn_retransmit_rx_reset_when_timout_error_enable.BCM88650=0
#ilkn_retransmit_tx_wait_for_seq_num_change_enable.BCM88650=1
#ilkn_retransmit_tx_ignore_requests_when_fifo_almost_empty.BCM88650=1

#ucode_port_40.BCM88650=RCY.0
#ucode_port_41.BCM88650=RCY.1
#ucode_port_42.BCM88650=RCY.2

## CAUI Configuration
#ucode_port_41.BCM88650=CGE0
#ucode_port_42.BCM88650=CGE1
caui_num_lanes_0.BCM88650=10
caui_num_lanes_1.BCM88650=10
#Required for working IXIA 100G port:
mld_lane_swap_lane20_ce.BCM88650=0
mld_lane_swap_lane21_ce.BCM88650=1
mld_lane_swap_lane0_ce.BCM88650=20
mld_lane_swap_lane1_ce.BCM88650=21

# This configures the lane polarity
pb_serdes_lane_swap_polarity_tx_phy1.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy2.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy3.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy4.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy5.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy6.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy7.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy8.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy10.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy11.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy13.BCM88650=1
```

```
pb_serdes_lane_swap_polarity_tx_phy14.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy17.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy18.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy19.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy20.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy21.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy22.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy23.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy24.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy25.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy27.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy28.BCM88650=1

pb_serdes_lane_swap_polarity_rx_phy1.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy2.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy3.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy4.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy5.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy6.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy7.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy8.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy10.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy11.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy13.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy14.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy17.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy18.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy19.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy20.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy21.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy22.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy23.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy24.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy25.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy27.BCM88650=1
pb_serdes_lane_swap_polarity_rx_phy28.BCM88650=1

xgxs_tx_lane_map_quad0.BCM88650=0x1032
xgxs_tx_lane_map_quad1.BCM88650=0x2310
xgxs_tx_lane_map_quad2.BCM88650=0x3210
```

```
xgxs_tx_lane_map_quad3.BCM88650=0x3210
xgxs_tx_lane_map_quad4.BCM88650=0x1230
xgxs_tx_lane_map_quad5.BCM88650=0x3201
xgxs_tx_lane_map_quad6.BCM88650=0x2103
xgxs_tx_lane_map_quad7.BCM88650=0x0123

xgxs_rx_lane_map_quad0.BCM88650=0x3012
xgxs_rx_lane_map_quad1.BCM88650=0x0132
xgxs_rx_lane_map_quad2.BCM88650=0x1230
xgxs_rx_lane_map_quad3.BCM88650=0x0123
xgxs_rx_lane_map_quad4.BCM88650=0x3012
xgxs_rx_lane_map_quad5.BCM88650=0x2013
xgxs_rx_lane_map_quad6.BCM88650=0x2103


#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88650=1

#Port init mode
#port_init_duplex=0
#port_init_adv=0
#port_init_autoneg=0


# This disables serdes initialization
# phy_null.BCM88650=1

##  Number of Internal ports
# Enable the ERP port. Values: 0 / 1.
num_erp_tm_ports.BCM88650=1
# Enable the OLP port. Values: 0 / 1.
num_olp_tm_ports.BCM88650=1

## Firmware Load Method
load_firmware.BCM88650=0x102
load_firmware.BCM88675=0x102
load_firmware_fabric.BCM88675=0x102
load_firmware_fabric.BCM88680=0x102

### Headers configuration ###

## Use of the tm_port_header_type_<Local-Port-Id>=<Header-type>
## Default header type is derived from fap_device_mode: If fap_device_mode is
## PP, default header type is ETH. Otherwise, defualt header type is TM.
## Header type per port can be overriden.
## All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/UDH_ETH
## Injected header types: if PTCH, INJECTED (local Port of type TM) or INJECTED_PP (PP)
```

```
##                    if PTCH-2, INJECTED_2 (local Port of type TM) or INJECTED_2_PP (PP)

# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88650=TM

tm_port_header_type_in_0.BCM88650=INJECTED_2
tm_port_header_type_out_0.BCM88650=TM

tm_port_header_type_in_200.BCM88650=INJECTED_2_PP
tm_port_header_type_out_200.BCM88650=ETH
tm_port_header_type_in_201.BCM88650=INJECTED_2_PP
tm_port_header_type_out_201.BCM88650=ETH
tm_port_header_type_in_202.BCM88650=INJECTED_2_PP
tm_port_header_type_out_202.BCM88650=ETH
tm_port_header_type_in_203.BCM88650=INJECTED_2_PP
tm_port_header_type_out_203.BCM88650=ETH


### Parser Configuration ###
# Parser has 4 custom macros that are allocated dynamically and
# configured according to the following features and soc properties:
# Trill (1 macro) - trill_mode
# FCoE (2 macros) - bcm886xx_fcoe_switch_mode
# VxLAN (1 macro) - bcm886xx_vxlan_enable
# IPv6-Extension-header (2 macros) - bcm886xx_ipv6_ext_hdr_enable
# UDP (1 macro) - UDP parsing is enabled by default, and can be
#  disabled with soc property custom_feature_udp_parse_disable
#  When disabling UDP parsing VxLAN and 1588oUDP are affected


# In FCoE NPV switch, if set to 1,
# packets that ingress from the N_PORT are treated as bridge
# and packets that ingress from the NP_PORT are treated as router
#fcoe_npv_bridge_mode=1
# Enable IPv6 Extension Header, 0 - disable (default), 1 - enable
#bcm886xx_ipv6_ext_hdr_enable=1

# Disable UDP parsing, 0 - enable (default), 1 - disable
#custom_feature_udp_parse_disable=1

#OAMP/SAT port
#tm_port_header_type_out_232.BCM88650=CPU
tm_port_header_type_out_232.BCM88675=CPU

### SAT
## Enable SAT Interface. 0 - Disable, 1 - Enable (Default)
sat_enable=1
```

```
# Set the recycling port processing to be raw (static forwarding)
tm_port_header_type_rcy.BCM88650=RAW

### RCPU
# Valid CPU local ports on which RCPU packets can be received by slave device.
#rcpu_rx_pbmp=0xf000000000000000000000000000000000000000000000000001

#tm_port_header_type_514.BCM88650=RAW

## Header extensions
# Set if an FTMH Out-LIF extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS
fabric_ftmh_outlif_extension.BCM88650=IF_MC

# Set the FTMH Load-Balancing Key extension mode
# Options for 88660: ENABLED, FULL_HASH
# Options for 88650: ENABLED
# Options for 88640 compatible: DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY
# / 16B_STACKING_ROUTE_HISTORY / STANDBY_MC_LB (available only for AradPlus)
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88650=DISABLED

# Set if an OTMH Out-LIF (CUD) Extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS / DOUBLE_TAG (two hop scheduling) /
EXTENDED: Extended 24 bit CUD
# Default: NEVER
# tm_port_otmh_outlif_ext_mode_13.BCM88650=NEVER

# Set if an OTMH Source-System-Port Extension is present.
# Option: 0/1
# Default: 0
# tm_port_otmh_src_ext_enable_13.BCM88650=0

#Trunk hash format, relevant only for AradPlus. Possible values: NORMAL (default) / INVERTED /
DUPLICATED.
#trunk_hash_format=NORMAL

## Stacking Application
#stacking_enable.BCM88650=1

## Determine if FTMH Destination System Port Extension is added to all Ethernet packets.
#ftmh_dsp_extension_add=1

## Determine if FTMH Destination System Port Extension of mirrored/snooped packets is stamped with the original
destination.
#mirror_stamp_sys_on_dsp_ext=1

## System RED
```

```
# Set System-Red functionality.
#system_red_enable.BCM88650=1

# Indicate the size (Bytes) of a first header to skip
# before the major header at ingress (e.g. Ethernet, ITMH)
# It can be set per port also
first_header_size.BCM88650=0

# Indicate the size (Bytes) of the PMF Extension Headers
# to remove for TM header type ports (expecting ITMH)
# Set per port
#post_headers_size_0.BCM88650=4

# Indicate the size (Bytes) of the User-Headers: configurable
# headers located in the fabric between internal headers and
# Ethernet. Their values are set by Ingress FP, and can be used
# by Egress FP or Egress Editor.
# units: bits. 4 values can be set:
# 0 - size of the 1st User-Header, for the Egress PMF. 0b / 8b / 16b
# 1 - size of the 2nd User-Header, for the Egress PMF. 0b / 8b / 16b
# The sum of these 2 values should be under 16b
# 2, 3 - size of the 1st/2nd User-Header, for the Egress Editor.
# 0b / 8b / 16b / 24b / 32b
# Each of the global User-Header size must be under 32 bits, but not 24 bits.
# The Egress FP field is always at the MSB of the User-Header
# Not available for 88650-A0.
#field_class_id_size_0.BCM88650=8
#field_class_id_size_1.BCM88650=0
#field_class_id_size_2.BCM88650=24
#field_class_id_size_3.BCM88650=0


### Trunk - LAG configuration ###
# Set the number of LAGs: 1024, 512, 256, 128, 64 or 32(QUX only)
number_of_trunks.BCM88650=256
number_of_trunks.BCM88270=32
# Using the lb-key's MSB in trunk resolutions.
# 0 = use LSB (default)
# 1 = use MSB
trunk_resolve_use_lb_key_msb_stack = 0
trunk_resolve_use_lb_key_msb_smooth_division = 0

### SYNCE configuration ###
## Synchronous Ethernet Signal Mode.
## Options: TWO_DIFF_CLK, TWO_CLK_AND_VALID. Default: TWO_CLK_AND_VALID
#sync_eth_mode.BCM88650=TWO_CLK_AND_VALID

## Clock Source (single SerDes) lane in the specified NIF port.
```

```
## Usage: sync_eth_clk_to_nif_id_clk_<clk_number>=<serdes_number>
#sync_eth_clk_to_nif_id_clk_0.BCM88650=1
#sync_eth_clk_to_nif_id_clk_1.BCM88650=1

## Clock Divider for the selected recovered clock. Valid values: 1/2/4. Default: 1.
## Usage: sync_eth_clk_divider_clk_<clk_number>=<1/2/4>
#sync_eth_clk_divider_clk_0.BCM88650=1
#sync_eth_clk_divider_clk_1.BCM88650=1

## Usage: sync_eth_clk_to_port_id_clk_<clk_number>=<serdes_number>
#sync_eth_clk_to_port_id_clk_0.BCM88675=13
#sync_eth_clk_to_port_id_clk_1.BCM88675=13

## Clock frequency selector for the selected recovered clock. Valid values: <125MHz-0/156.25MHz-1/25MHz-2>.
Default: 1.
## Usage: sync_eth_clk_divider_clk<clk_id>=<0-125MHz/1-156.25MHz/2-25MHz>
#sync_eth_clk_divider_clk0.BCM88675=1
#sync_eth_clk_divider_clk1.BCM88675=1

## Enable the automatic squelch function for the recovered clock. Valid values: 0/1. Default: 0.
## Usage: sync_eth_clk_squelch_enable_clk_<clk_number>=<0/1>
#sync_eth_clk_squelch_enable_clk_0.BCM88650=0
#sync_eth_clk_squelch_enable_clk_1.BCM88650=0

### ELK configuration ###
## External lookup (TCAM) Device type select, Indicate the External lookup Device type.
# Value Options: NONE/NL88650. Default: NONE.
#ext_tcam_dev_type=NL88650


##External lookup (elk) ILKN lanes swap. If set, reverse the lanes numbering order on elk device side. DNX system
default is 1.
#ext_ilkn_reverse=0

## Set ELK FWD table Size.
# format: ext_xxx_fwd_table_size.
# where xxx replaced by FWD options: ip4_uc_rpf/ip4_mc/ip6_uc_rpf/ip6/ip6_mc/trill_uc/trill_mc/mpls/coup_mpls
# Value Options: (0) - External table disabled, >0: number of entries. Default: 0.
#ext_ip4_uc_rpf_fwd_table_size=8192
#ext_ip4_mc_fwd_table_size=8192

#External TCAM result size, allows to modify each external tcam result size.
#The total size of the external result for NL12K = 120bit .
#The size of each segment updates the corresponding qualifier bcmFieldQualifyExternalValue.
#Default values according to the device property.
#in-case of double capacity use the following values: 48,48,24,24 and ext_tcam_result_size_segment_pad_3=24

#ext_tcam_result_size_segment_0=48
```

```
#ext_tcam_result_size_segment_1=32
#ext_tcam_result_size_segment_2=24
#ext_tcam_result_size_segment_3=16
#ext_tcam_result_size_segment_4=32
#ext_tcam_result_size_segment_5=32

## Set ELK IP FWD use NetRoute  ALG.
# Value Options: ALG_LPM_LPM/ALG_LPM_NETROUTE/ALG_LPM_TCAM. Default: ALG_LPM_TCAM.
#ext_fwd_algorithm_lpm=ALG_LPM_TCAM

## Set ELK interface mode.
# Change ELK interface configuration to support CAUI port.
# Value Options: 0/1. 0 - Normal mode, 1  2 CAUI port + ELK mode. Default: 0.
#ext_interface_mode=0

### Configure MDIO interface
# External MDIO clock rate divisor . Default: 0x24.
#rate_ext_mdio_divisor=0x36
# External MDIO clock rate divisor. Default: 0x1.
#rate_ext_mdio_dividend=1

### TDM - OTN configuration ###
# Options: 0 / TDM_OPTIMIZED / TDM_STANDARD
fap_tdm_bypass.BCM88650=0

### TDM - RAW/PACKET configuration ###
# if fap_tdm_packet config to be true, enable specific ports on the device to configure for tdm packet mode traffic.
fap_tdm_packet.BCM88650=0

# Indicate if a Petra-B device is connected to the actual device
# For TDM/OTN applications,
# system_is_petra_b_in_system.BCM88650=0
##Indicate if TDM can arrive throgh primary pipe.
#Should be 1 for a System with PetraB that connected to fabric over primary pipe.
fabric_tdm_over_primary_pipe.BCM88650=0

### Fabric configuration ###
#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88650=2
#Possible values - KR_FEC, 64_66, RS_FEC, LL_RS_FEC
backplane_serdes_encoding.BCM88675=RS_FEC
backplane_serdes_encoding.BCM88470=RS_FEC
backplane_serdes_encoding.BCM88270=RS_FEC
backplane_serdes_encoding.BCM88680=RS_FEC

#SFI speed rate
port_init_speed_sfi.BCM88650=10312
port_init_speed_sfi.BCM88675=25000
```

```
port_init_speed_sfi.BCM88470=25000
port_init_speed_sfi.BCM88270=25000
port_init_speed_sfi.BCM88680=25000

#CL72
port_init_cl72_sfi.BCM88650=1
port_init_cl72_sfi.BCM88675=1
fabric_segmentation_enable.BCM88650=1

## Fabric transmission mode
# Set the Connect mode to the Fabric
# Options: FE - presence of a Fabric device (single stage) / MULT_STAGE_FE -  Multi-stage /
# SINGLE_FAP - stand-alone device / MESH - mesh / BACK2BACK - 2 devices in Mesh
#fabric_connect_mode.BCM88650=SINGLE_FAP
fabric_connect_mode.BCM88650=FE
# The Jericho configuration below will be overriden in jer.soc for multi device configurations
fabric_connect_mode.BCM88675=SINGLE_FAP
fabric_connect_mode.BCM88470=SINGLE_FAP
fabric_connect_mode.BCM88270=SINGLE_FAP
fabric_connect_mode.BCM88680=SINGLE_FAP


## Cell format configuration
# Indicate if the traffic can be sent in dual pipe
is_dual_mode.BCM88650=0
# Indicate on the existance of dual pipe device mode in system
system_is_dual_mode_in_system.BCM88650=0

# Indicate the format of the cell:
# A VCS128 cell is used if system_is_vcs_128_in_system or system_is_fe600_in_system is TRUE
system_is_vcs_128_in_system.BCM88650=0
system_is_fe600_in_system.BCM88650=0

### WRED ###

# Set the maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88650=0

### OCB (On-Chip Buffer) configuration ###
# Enable the OCB
# Enable MODES:
#   0/FALSE       -->  OCB_DISABLED     --> No OCB use
#   1/TRUE        -->  OCB_ENABLED      --> Like in Arad-A0/B0. Some packets may use both DRAM and OCB
resources
#   ONE_WAY_BYPASS -->  Depends on number of present drams (available only for AradPlus):
#                  0 drams:   - OCB_ONLY
#                  1 drams:   - OCB_ONLY_1_DRAM     -->  : OCB-only with 1 DRAM for the free pointers
#                  2-8 drams: - OCB_DRAM_SEPARATE   -->  : OCB and DRAM coexist separately
```

```
#   Default: TRUE.
bcm886xx_ocb_enable.BCM88650=1

## OCB (On-Chip Buffer) configuration
# OCB modes:
#   0 - Disabled
#   1 - Enabled (Default).
bcm886xx_ocb_enable.BCM88675=1

# OCB Data Buffer size. Possible values: 128/256/512/1024. Default: 256.
bcm886xx_ocb_databuffer_size.BCM88650=256
# OCB Data Buffer size. Jericho allowed values: 256/512. Default: 256.
bcm886xx_ocb_databuffer_size.BCM88675=256
# Repartition between Unicast and Full Multicast buffers.
# 0: 80% Unicast and 20% Multicast, 1: Unicast-Only
bcm886xx_ocb_repartition.BCM88650=0


### PDM configuration ###
# Set the PDM Mode.
# 0: simple (default), 1: extended (mandatory for LLFC-VSQ, PFC-VSQ, or ST-VSQ)
bcm886xx_pdm_mode.BCM88650=0

### Multicast Number of DBuff mode ###
# Set IQM FMC buffers-replication sizes
# Options for 88650:
ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE/ARAD_INIT_FMC_64_REP_128K_DBUFF_MODE
# Default: ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88650=ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE

### Multicast Number of DBuff mode ###
# Set FMC buffers-replication sizes
# Options for 88675:
#    JERICHO_INIT_FMC_64_REP_512K_DBUFF_MODE
#    JERICHO_INIT_FMC_4K_REP_256K_DBUFF_MODE (Default)
#    JERICHO_INIT_FMC_NO_REP_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88675=JERICHO_INIT_FMC_4K_REP_256K_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88470=JERICHO_INIT_FMC_NO_REP_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88270=JERICHO_INIT_FMC_NO_REP_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88680=JERICHO_INIT_FMC_4K_REP_256K_DBUFF_MODE


### Multicast configuration ###
# Multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_max.BCM88650=4095

#### Jericho configuration of the number of ingress/egress multicast groups
# Ingress max MCID can be up to 131070, Egress max MCID in Mesh or single FAP modes is up to 65535,
```

```
# or otherwise is up to 131071.
#multicast_ingress_group_id_range_max.BCM88675=32768
#multicast_egress_group_id_range_max.BCM88675=60000

### VOQ - Flow configuration ###

# Set the VOQ mapping mode:
# DIRECT: More than 4K System Ports are supported. System-level WRED is not supported.
# INDIRECT: similar to Petra-B. Up to 4K System Ports.
voq_mapping_mode.BCM88650=INDIRECT

#Enable/disable HQOS support - mapping of many system ports to single modport
hqos_mapping_enable.BCM88650=0

# Set the Base Queue to be added to the packet flow-id
# when the Flow-Id is set explicitely either by the ITMH
# or by the Destination resolution in the Packet processing
flow_mapping_queue_base.BCM88650=0


# The allocation of the total per core resources between source and
# queue based reservation depends on one of two guarantee modes: strict and loose.
#ingress_congestion_management_guarantee_mode={STRICT,LOOSE} default: STRICT
ingress_congestion_management_guarantee_mode=LOOSE
# Each DP has its own thresholds for source based (dynamic) and for queue based (pools 0,1 and headroom).
#  ingress_congestion_management_{source,queue,all}_threshold_percentage_color_[0-3]=[0-100] default:
100,85,75,0
#  ingress_congestion_management_{ocb_only,dram_mix}_{pool_{0,1},headroom}=size default: 0
#  ingress_congestion_management_min_resource_percentage_dynamic=[0-80] default: 20

# Configure maximum IDs of ST-VSQs, maximum IDs of TM-ports, and enabling/disabling header compensation.
ingress_congestion_management_stag_max_id.BCM88675=0
ingress_congestion_management_tm_port_max_id.BCM88675=255
ingress_congestion_management_pkt_header_compensation_enable.BCM88675=0

# The number of packet buffers used for the allocation of DMA memory at BCM RX task
# The pool size determined by nof_pkts (256) * 16K.
#rx_pool_nof_pkts.BCM88675=256


# Set the number of priorities supported at egress per Port
# Options: 1 / 2 / 8
port_priorities.BCM88650=8
port_priorities.BCM88675=2
port_priorities.BCM88470=2
port_priorities.BCM88270=2
port_priorities.BCM88680=2
```

```
# Set the shared multicast resource mode: Strict / Discrete
egress_shared_resources_mode.BCM88650=Strict

# Define outgoing port rate mode in data rate or packet rate.
# Options: DATA / PACKET
otm_port_packet_rate.BCM88650=DATA

# Set Port egress recycling scheduler configuration.
# 0: Strict Priority Scheduler, 1: Round Robin Scheduler
port_egress_recycling_scheduler_configuration.BCM88650=0

# Set statically the region mode per region id
# 0: queue connectors only (InterDigitated = FALSE, OddEven = TRUE)
# 1: queue connectors, SE (InterDigitated =TRUE, OddEven = TRUE)
# 2: queue connectors, SE (InterDigitated =TRUE, OddEven = FALSE)
dtm_flow_mapping_mode_region_65.BCM88650=0
dtm_flow_mapping_mode_region_66.BCM88650=0
dtm_flow_mapping_mode_region_67.BCM88650=0
dtm_flow_mapping_mode_region_68.BCM88650=0
dtm_flow_mapping_mode_region_69.BCM88650=0
dtm_flow_mapping_mode_region_70.BCM88650=0
dtm_flow_mapping_mode_region_71.BCM88650=0
dtm_flow_mapping_mode_region_72.BCM88650=0
dtm_flow_mapping_mode_region_73.BCM88650=0
dtm_flow_mapping_mode_region_74.BCM88650=0
dtm_flow_mapping_mode_region_75.BCM88650=0
dtm_flow_mapping_mode_region_76.BCM88650=0
dtm_flow_mapping_mode_region_77.BCM88650=0
dtm_flow_mapping_mode_region_78.BCM88650=0
dtm_flow_mapping_mode_region_79.BCM88650=0
dtm_flow_mapping_mode_region_80.BCM88650=0
dtm_flow_mapping_mode_region_81.BCM88650=1
dtm_flow_mapping_mode_region_82.BCM88650=1
dtm_flow_mapping_mode_region_83.BCM88650=1
dtm_flow_mapping_mode_region_84.BCM88650=1
dtm_flow_mapping_mode_region_85.BCM88650=1
dtm_flow_mapping_mode_region_86.BCM88650=1
dtm_flow_mapping_mode_region_87.BCM88650=1
dtm_flow_mapping_mode_region_88.BCM88650=1
dtm_flow_mapping_mode_region_89.BCM88650=1
dtm_flow_mapping_mode_region_90.BCM88650=1
dtm_flow_mapping_mode_region_91.BCM88650=1
dtm_flow_mapping_mode_region_92.BCM88650=1
dtm_flow_mapping_mode_region_93.BCM88650=1
dtm_flow_mapping_mode_region_94.BCM88650=1
dtm_flow_mapping_mode_region_95.BCM88650=1
dtm_flow_mapping_mode_region_96.BCM88650=1
```

```
dtm_flow_mapping_mode_region_97.BCM88650=1
dtm_flow_mapping_mode_region_98.BCM88650=1
dtm_flow_mapping_mode_region_99.BCM88650=2
dtm_flow_mapping_mode_region_100.BCM88650=2
dtm_flow_mapping_mode_region_101.BCM88650=2
dtm_flow_mapping_mode_region_102.BCM88650=2
dtm_flow_mapping_mode_region_103.BCM88650=2
dtm_flow_mapping_mode_region_104.BCM88650=2
dtm_flow_mapping_mode_region_105.BCM88650=2
dtm_flow_mapping_mode_region_106.BCM88650=2
dtm_flow_mapping_mode_region_107.BCM88650=2
dtm_flow_mapping_mode_region_108.BCM88650=2
dtm_flow_mapping_mode_region_109.BCM88650=2
dtm_flow_mapping_mode_region_110.BCM88650=2
dtm_flow_mapping_mode_region_111.BCM88650=2
dtm_flow_mapping_mode_region_112.BCM88650=2
dtm_flow_mapping_mode_region_113.BCM88650=2
dtm_flow_mapping_mode_region_114.BCM88650=2
dtm_flow_mapping_mode_region_115.BCM88650=2
dtm_flow_mapping_mode_region_116.BCM88650=2
dtm_flow_mapping_mode_region_117.BCM88650=2
dtm_flow_mapping_mode_region_118.BCM88650=2
dtm_flow_mapping_mode_region_119.BCM88650=2
dtm_flow_mapping_mode_region_120.BCM88650=2
dtm_flow_mapping_mode_region_121.BCM88650=2
dtm_flow_mapping_mode_region_122.BCM88650=2
dtm_flow_mapping_mode_region_123.BCM88650=2
dtm_flow_mapping_mode_region_124.BCM88650=2
dtm_flow_mapping_mode_region_125.BCM88650=2
dtm_flow_mapping_mode_region_126.BCM88650=2
dtm_flow_mapping_mode_region_127.BCM88650=2
dtm_flow_mapping_mode_region_128.BCM88650=2

## Configure number of symmetric cores each region supports ##
dtm_flow_nof_remote_cores_region_1.BCM88650=2
dtm_flow_nof_remote_cores_region_2.BCM88650=2
dtm_flow_nof_remote_cores_region_3.BCM88650=2
dtm_flow_nof_remote_cores_region_4.BCM88650=2
dtm_flow_nof_remote_cores_region_5.BCM88650=2
dtm_flow_nof_remote_cores_region_6.BCM88650=2
dtm_flow_nof_remote_cores_region_7.BCM88650=2
dtm_flow_nof_remote_cores_region_8.BCM88650=2
dtm_flow_nof_remote_cores_region_9.BCM88650=2
dtm_flow_nof_remote_cores_region_10.BCM88650=2
dtm_flow_nof_remote_cores_region_11.BCM88650=2
dtm_flow_nof_remote_cores_region_12.BCM88650=2
dtm_flow_nof_remote_cores_region_13.BCM88650=2
dtm_flow_nof_remote_cores_region_14.BCM88650=2
```

```
dtm_flow_nof_remote_cores_region_15.BCM88650=2
dtm_flow_nof_remote_cores_region_16.BCM88650=2
dtm_flow_nof_remote_cores_region_17.BCM88650=2
dtm_flow_nof_remote_cores_region_18.BCM88650=2
dtm_flow_nof_remote_cores_region_19.BCM88650=2
dtm_flow_nof_remote_cores_region_20.BCM88650=2
dtm_flow_nof_remote_cores_region_21.BCM88650=2
dtm_flow_nof_remote_cores_region_22.BCM88650=2
dtm_flow_nof_remote_cores_region_23.BCM88650=2
dtm_flow_nof_remote_cores_region_24.BCM88650=2
dtm_flow_nof_remote_cores_region_25.BCM88650=2
dtm_flow_nof_remote_cores_region_26.BCM88650=2
dtm_flow_nof_remote_cores_region_27.BCM88650=2
dtm_flow_nof_remote_cores_region_28.BCM88650=2
dtm_flow_nof_remote_cores_region_29.BCM88650=2
dtm_flow_nof_remote_cores_region_30.BCM88650=2
dtm_flow_nof_remote_cores_region_31.BCM88650=2
dtm_flow_nof_remote_cores_region_32.BCM88650=2
dtm_flow_nof_remote_cores_region_33.BCM88650=2
dtm_flow_nof_remote_cores_region_34.BCM88650=2
dtm_flow_nof_remote_cores_region_35.BCM88650=2
dtm_flow_nof_remote_cores_region_36.BCM88650=2
dtm_flow_nof_remote_cores_region_37.BCM88650=2
dtm_flow_nof_remote_cores_region_38.BCM88650=2
dtm_flow_nof_remote_cores_region_39.BCM88650=2
dtm_flow_nof_remote_cores_region_40.BCM88650=2
dtm_flow_nof_remote_cores_region_41.BCM88650=2
dtm_flow_nof_remote_cores_region_42.BCM88650=2
dtm_flow_nof_remote_cores_region_43.BCM88650=2
dtm_flow_nof_remote_cores_region_44.BCM88650=2
dtm_flow_nof_remote_cores_region_45.BCM88650=2
dtm_flow_nof_remote_cores_region_46.BCM88650=2
dtm_flow_nof_remote_cores_region_47.BCM88650=2
dtm_flow_nof_remote_cores_region_48.BCM88650=2
dtm_flow_nof_remote_cores_region_49.BCM88650=2
dtm_flow_nof_remote_cores_region_50.BCM88650=2
dtm_flow_nof_remote_cores_region_51.BCM88650=2
dtm_flow_nof_remote_cores_region_52.BCM88650=2
dtm_flow_nof_remote_cores_region_53.BCM88650=2
dtm_flow_nof_remote_cores_region_54.BCM88650=2
dtm_flow_nof_remote_cores_region_55.BCM88650=2
dtm_flow_nof_remote_cores_region_56.BCM88650=2
dtm_flow_nof_remote_cores_region_57.BCM88650=2
dtm_flow_nof_remote_cores_region_58.BCM88650=2
dtm_flow_nof_remote_cores_region_59.BCM88650=2
dtm_flow_nof_remote_cores_region_60.BCM88650=2
#dtm_flow_nof_remote_cores_region_core0_2.BCM88675=2
```

```
## Configure number of symmetric cores each region supports ##
dtm_flow_nof_remote_cores_region_1.BCM88470=2
dtm_flow_nof_remote_cores_region_2.BCM88470=2
dtm_flow_nof_remote_cores_region_3.BCM88470=2
dtm_flow_nof_remote_cores_region_4.BCM88470=2
dtm_flow_nof_remote_cores_region_5.BCM88470=2
dtm_flow_nof_remote_cores_region_6.BCM88470=2
dtm_flow_nof_remote_cores_region_7.BCM88470=2
dtm_flow_nof_remote_cores_region_8.BCM88470=2
dtm_flow_nof_remote_cores_region_9.BCM88470=2
dtm_flow_nof_remote_cores_region_10.BCM88470=2
dtm_flow_nof_remote_cores_region_11.BCM88470=2
dtm_flow_nof_remote_cores_region_12.BCM88470=2
dtm_flow_nof_remote_cores_region_13.BCM88470=2
dtm_flow_nof_remote_cores_region_14.BCM88470=2
dtm_flow_nof_remote_cores_region_15.BCM88470=2
dtm_flow_nof_remote_cores_region_16.BCM88470=2
dtm_flow_nof_remote_cores_region_17.BCM88470=2
dtm_flow_nof_remote_cores_region_18.BCM88470=2
dtm_flow_nof_remote_cores_region_19.BCM88470=2
dtm_flow_nof_remote_cores_region_20.BCM88470=2
dtm_flow_nof_remote_cores_region_21.BCM88470=2
dtm_flow_nof_remote_cores_region_22.BCM88470=2
dtm_flow_nof_remote_cores_region_23.BCM88470=2
dtm_flow_nof_remote_cores_region_24.BCM88470=2
dtm_flow_nof_remote_cores_region_25.BCM88470=2
dtm_flow_nof_remote_cores_region_26.BCM88470=2
dtm_flow_nof_remote_cores_region_27.BCM88470=2
dtm_flow_nof_remote_cores_region_28.BCM88470=2
dtm_flow_nof_remote_cores_region_29.BCM88470=2
dtm_flow_nof_remote_cores_region_30.BCM88470=2
dtm_flow_nof_remote_cores_region_31.BCM88470=2
dtm_flow_nof_remote_cores_region_32.BCM88470=2
dtm_flow_nof_remote_cores_region_33.BCM88470=2
dtm_flow_nof_remote_cores_region_34.BCM88470=2
dtm_flow_nof_remote_cores_region_35.BCM88470=2
dtm_flow_nof_remote_cores_region_36.BCM88470=2

dtm_flow_nof_remote_cores_region_37.BCM88470=1
dtm_flow_nof_remote_cores_region_38.BCM88470=1
dtm_flow_nof_remote_cores_region_39.BCM88470=1
dtm_flow_nof_remote_cores_region_40.BCM88470=1
dtm_flow_nof_remote_cores_region_41.BCM88470=1
dtm_flow_nof_remote_cores_region_42.BCM88470=1
dtm_flow_nof_remote_cores_region_43.BCM88470=1
dtm_flow_nof_remote_cores_region_44.BCM88470=1
dtm_flow_nof_remote_cores_region_45.BCM88470=1
```

```
dtm_flow_nof_remote_cores_region_46.BCM88470=1
dtm_flow_nof_remote_cores_region_47.BCM88470=1
dtm_flow_nof_remote_cores_region_48.BCM88470=1
dtm_flow_nof_remote_cores_region_49.BCM88470=1
dtm_flow_nof_remote_cores_region_50.BCM88470=1
dtm_flow_nof_remote_cores_region_51.BCM88470=1
dtm_flow_nof_remote_cores_region_52.BCM88470=1
dtm_flow_nof_remote_cores_region_53.BCM88470=1
dtm_flow_nof_remote_cores_region_54.BCM88470=1
dtm_flow_nof_remote_cores_region_55.BCM88470=1
dtm_flow_nof_remote_cores_region_56.BCM88470=1
dtm_flow_nof_remote_cores_region_57.BCM88470=1
dtm_flow_nof_remote_cores_region_58.BCM88470=1
dtm_flow_nof_remote_cores_region_59.BCM88470=1
dtm_flow_nof_remote_cores_region_60.BCM88470=1

dtm_flow_mapping_mode_region_33.BCM88470=0
dtm_flow_mapping_mode_region_34.BCM88470=0
dtm_flow_mapping_mode_region_35.BCM88470=0
dtm_flow_mapping_mode_region_36.BCM88470=0
dtm_flow_mapping_mode_region_37.BCM88470=0
dtm_flow_mapping_mode_region_38.BCM88470=0
dtm_flow_mapping_mode_region_39.BCM88470=0
dtm_flow_mapping_mode_region_40.BCM88470=0

## Configure number of symmetric cores each region supports ##
dtm_flow_nof_remote_cores_region_1.BCM88270=2
dtm_flow_nof_remote_cores_region_2.BCM88270=2
dtm_flow_nof_remote_cores_region_3.BCM88270=2
dtm_flow_nof_remote_cores_region_4.BCM88270=2
dtm_flow_nof_remote_cores_region_5.BCM88270=2
dtm_flow_nof_remote_cores_region_6.BCM88270=2
dtm_flow_nof_remote_cores_region_7.BCM88270=2
dtm_flow_nof_remote_cores_region_8.BCM88270=2
dtm_flow_nof_remote_cores_region_9.BCM88270=2
dtm_flow_nof_remote_cores_region_10.BCM88270=2
dtm_flow_nof_remote_cores_region_11.BCM88270=2
dtm_flow_nof_remote_cores_region_12.BCM88270=2
dtm_flow_nof_remote_cores_region_13.BCM88270=2
dtm_flow_nof_remote_cores_region_14.BCM88270=2
dtm_flow_nof_remote_cores_region_15.BCM88270=2
dtm_flow_nof_remote_cores_region_16.BCM88270=2
dtm_flow_nof_remote_cores_region_17.BCM88270=2
dtm_flow_nof_remote_cores_region_18.BCM88270=2
dtm_flow_nof_remote_cores_region_19.BCM88270=1
dtm_flow_nof_remote_cores_region_20.BCM88270=1
dtm_flow_nof_remote_cores_region_21.BCM88270=1
dtm_flow_nof_remote_cores_region_22.BCM88270=1
```

```
dtm_flow_nof_remote_cores_region_23.BCM88270=1
dtm_flow_nof_remote_cores_region_24.BCM88270=1
dtm_flow_nof_remote_cores_region_25.BCM88270=1
dtm_flow_nof_remote_cores_region_26.BCM88270=1
dtm_flow_nof_remote_cores_region_27.BCM88270=1
dtm_flow_nof_remote_cores_region_28.BCM88270=1
dtm_flow_nof_remote_cores_region_29.BCM88270=1
dtm_flow_nof_remote_cores_region_30.BCM88270=1
dtm_flow_nof_remote_cores_region_31.BCM88270=1
dtm_flow_nof_remote_cores_region_32.BCM88270=1

dtm_flow_mapping_mode_region_17.BCM88270=0
dtm_flow_mapping_mode_region_18.BCM88270=0
dtm_flow_mapping_mode_region_19.BCM88270=0
dtm_flow_mapping_mode_region_20.BCM88270=0

### Flow Control configuration ###
# Set the Flow control type per Port.
# Options: LL (Link-level) / CB2 (Class-Based - 2 classes) /
# CB8 (Class-Based - 8 classes)
# flow_control_type.BCM88650=LL

## Out-Of-Band Flow control configuration
#spn_FC_OOB_TYPE, spn_FC_OOB_MODE, spn_FC_OOB_CALENDER_LENGTH,
spn_FC_OOB_CALENDER_REP_COUNT,

## Set voltage mode for oob interfaces
#HSTL_1.5V
#3.3V
#HSTL_1.5V_VDDO_DIV_2
ext_voltage_mode_oob=3.3V

## Inband Interlaken configuration
# spn_FC_INBAND_INTLKN_MODE, spn_FC_INBAND_INTLKN_CALENDER_LENGTH,
spn_FC_INBAND_INTLKN_CALENDER_REP_COUNT
# spn_FC_INBAND_INTLKN_CALENDER_LLFC_MODE,
spn_FC_INBAND_INTLKN_LLFC_MUB_ENABLE_MASK

### Meter engine configuration ###

# Specify meter operation mode
# 32 - Two meters per packet (32k total)
# 64 - One meter per packet (64k total) or two meter per packet in dual core device configured as SINGLE_CORE
(128K total)
# 128 - One meter per packet in dual core device configured as SINGLE_CORE (128K total)
# Options: 0, 32, 64, 128
policer_ingress_count.BCM88650=32
policer_ingress_count.BCM88470=32
```

```
policer_ingress_count.BCM88270=32
policer_ingress_count.BCM88680=32


# For meters in double 32k/64K mode, determine the sharing mode
# Options:
# 0 - NONE - For 64k or 128K (one meter per packet)
# 1 - SERIAL - 32k mode only (two meters per packet)
# 2 - PARALLEL - For 32k or 64k (two meter per packet)
policer_ingress_sharing_mode.BCM88650=1
policer_ingress_sharing_mode.BCM88470=1
policer_ingress_sharing_mode.BCM88270=1
policer_ingress_sharing_mode.BCM88680=1


# Applies only to Arad+ (88660)
# For meters in parallel mode, determine the mapping
# Options: BEST, WORST
# policer_result_parallel_color_map.BCM88650=WORST

# Applies only to Arad+ (88660)
# For meters in parallel mode, determine how the buckets are changed
# Options: CONSTANT, TRANSPARENT, DEFERRED
# policer_result_parallel_bucket_update.BCM88650=CONSTANT

# Applies only to Arad+ (88660)
# Set the Ethernet policer to work in color blind mode
# rate_color_blind.BCM88650=1

# L2 learn limit mode
# Options: VLAN, VLAN_PORT, TUNNEL or the numeric equivalent 0-2.
# Default: VLAN
# l2_learn_limit_mode = VLAN_PORT

# Applies only to Arad+ (88660)
# Determines the L2 learn limit ranges when l2_learn_limit_mode is set to VLAN_PORT
# Two range bases can be selected, each of 16K size.
# Options: 0, 16K, 32K, 48K.
# Default: 0 & 16K
# l2_learn_lif_range_base_0 = 0
# l2_learn_lif_range_base_1 = 16K

# SW shadow mode for exact match tables. Required for SER support and DBAL diagnostics.
#   0 - Disabled (Default)
#   1 - Enabled
#   2 - Disabled for LEM, enabled for other exact match tables
exact_match_tables_shadow_enable.BCM88650 = 1
exact_match_tables_shadow_enable.BCM88675 = 2
```

```
# determine how many cmcs connected to the CPU.
# default value = 1
# applies only to jericho and above.
pci_cmcs_num.88675 = 3
pci_cmcs_num.88470 = 3

### Counter engine configuration ###

# Set the Counter source
# Options: INGRESS_FIELD / INGRESS_VOQ / INGRESS_VSQ / INGRESS_CNM /
# INGRESS_LATENCY / EGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM (per queue) /
EGRESS_TM_PORT (per port)
# EGRESS_RECEIVE_VSI / EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM (per queue) /
EGRESS_RECEIVE_TM_PORT (per port)
# INGRESS_OAM / EGRESS_OAM
# 2 Counter-Pointers can be set (with _0 and _1) for
# INGRESS_FIELD / EGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM /
EGRESS_TM_PORT
# Range extension can be set (with _LSB and _MSB) for
# INGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT
/EGRESS_RECEIVE_VSI /
# EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM / EGRESS_RECEIVE_TM_PORT
counter_engine_source_0.BCM88650=INGRESS_FIELD_0
counter_engine_source_1.BCM88650=INGRESS_FIELD_1
counter_engine_source_2.BCM88650=INGRESS_VOQ
counter_engine_source_3.BCM88650=EGRESS_FIELD

# Configure the statistic interface egress transmit PP source and the ingress received PP source
# Options for egress: EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT (the default is
TM)
# Options for ingress: INGRESS_VSI / INGRESS_IN_LIF / INGRESS_TM (the default is TM)
# valid just when there is no conflict with the other counter engines
#counter_engine_source_egress_pp_stat0.BCM88650=EGRESS_TM
#counter_engine_source_egress_pp_stat1.BCM88650=EGRESS_VSI
#counter_engine_source_ingress_pp_stat0.BCM88650=INGRESS_IN_LIF
#counter_engine_source_ingress_pp_stat1.BCM88650=INGRESS_TM


# Set the Counter engine resolution
# SIMPLE_COLOR = green, not green
# SIMPLE_COLOR_FWD = fwd green, fwd not green (BCM88660_A0 only)
# SIMPLE_COLOR_DROP = drop green, drop not green (BCM88660_A0 only)
# FWD_DROP = forwarded, dropped
# GREEN_NOT_GREEN = fwd grn, drop grn, fwd not grn, drop not grn
# FULL_COLOR = fwd grn, drop grn, fwd not grn, drop yel, drop red
# ALL = received
# FWD = forwarded, DROP = droped (not supported by ARAD_A0)
```

```
# CONFIGURABLE = defined by counter_engine_map_ SOC properties (BCM88660_A0 only)
counter_engine_statistics_0.BCM88650=FULL_COLOR
counter_engine_statistics_1.BCM88650=FULL_COLOR
counter_engine_statistics_2.BCM88650=FULL_COLOR
counter_engine_statistics_3.BCM88650=FULL_COLOR

# Set the Counter format
# Options: PACKETS_AND_BYTES / PACKETS / BYTES
# / MAX_QUEUE_SIZE / LATENCY / PACKETS_AND_PACKETS(supported just in FWD_DROP statistic in
BCM88660_A0)
# If not PACKETS_AND_BYTES or PACKETS_AND_PACKETS, the HW Counter width is 59 bits, thus
# no background SW operation is performed
counter_engine_format_0.BCM88650=PACKETS_AND_BYTES
counter_engine_format_1.BCM88650=PACKETS_AND_BYTES
counter_engine_format_2.BCM88650=PACKETS_AND_BYTES
counter_engine_format_3.BCM88650=PACKETS_AND_BYTES

# #enable/disable counter processor background thread (default:1-enable)
# counter_engine_sampling_interval=1


### Configurable mode configuration (BCM88660_A0 only)###
# counter_engine_statistics_0.BCM88660_A0=CONFIGURABLE
# counter_engine_map_enable_0.BCM88660_A0=1
# counter_engine_map_size_0.BCM88660_A0=4
# counter_engine_map_fwd_green_offset_0.BCM88660_A0=0
# counter_engine_map_fwd_yellow_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_red_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_black_offset_0.BCM88660_A0=2
# counter_engine_map_drop_green_offset_0.BCM88660_A0=3
# counter_engine_map_drop_yellow_offset_0.BCM88660_A0=3
# counter_engine_map_drop_red_offset_0.BCM88660_A0=3
# counter_engine_map_drop_black_offset_0.BCM88660_A0=3

### Statistic-Report configuration ###
# Enable the Statistic-Interface configuration
# stat_if_enable_<port> - not supported by ARAD_A0
# stat_if_enable.BCM88650=1

# ## Statistic-Report Properties
# # Set Statistic-Report interface rate in Mbps
# # If Value is '0' the statistics port rate will be used. Default: 0.
# stat_if_rate.BCM88650=0
# # Set the Statistic-Report mode
# # Options: BILLING / BILLING_QUEUE_NUMBER (not supported by ARAD_A0)/ QSIZE
# stat_if_report_mode.BCM88650=QSIZE
# #Indicate if idle reports must be sent
# #when the Statistic-report rate is too low
```

```
# stat_if_idle_reports_present.BCM88650=0
# # Indicate if the reported packet size is the original packet size
# stat_if_report_original_pkt_size.BCM88650=1
# #If set then a single ingress-billing report will be generated
# #for the whole set of the multicast copies
# stat_if_report_multicast_single_copy=1
# ## Statistic Packet configurations
# # Set the Statistic Packet size (Bytes)
# # Valid values: 65B/126B/248B/492B (Queue-Size), 64B/128B/256B/512B/1024B (Billing).
# stat_if_pkt_size=64B
#
# ## Scrubber configuration
# # Set the range of VOQs to scrub. Range: 0 - 96K-1.
# stat_if_scrubber_queue_min.BCM88650=0
# stat_if_scrubber_queue_max.BCM88650=0
#
# # Set the scrubber rate range
# # If set to 0 (default), the scrubber is disabled. Units: nanoseconds
# stat_if_scrubber_rate_min.BCM88650=0
# stat_if_scrubber_rate_max.BCM88650=0
#
# # Set the thresholds (thresh_id 0 - 15) defining
# # occupancy range per resource type:
# # DRAM Buffers, Buffer descriptors, Buffer descriptors buffers
# stat_if_scrubber_bdb_th.BCM88650=0
# stat_if_scrubber_buffer_descr_th.BCM88650=0
# stat_if_uc_dram_buffer_descr_th.BCM88650=0
#
# #Relective report for queue size mode - not supported by ARAD_A0
# #Reports will be created for queue num range (stat_if_selective_report_queue_min -
stat_if_selective_report_queue_max)
# #Default - all range
# stat_if_selective_report_queue_min.BCM88650_B0=0
# stat_if_selective_report_queue_max.BCM88650_B0=98303

### Transaction - DMA configuration ###
# Time to wait for SCHAN channel response (from CMIC). Units: microseconds.


### Counter threads ###
# # set port bitmap on which statistics collection will be enabled (default all ports)
#
bcm_stat_pbmp.BCM88675=0xffffffff000000000000000000000000000000000000000000000000000000003e
002
#
# # set statistics collection interval in microseconds (default is 1000000)
# bcm_stat_interval.BCM88675=1000000
```

```
### Control optimization of cosq port initializations: speed for memory ###
runtime_performance_optimize_enable_sched_allocation.BCM88650=1
runtime_performance_optimize_enable_sched_allocation.BCM88675=1

### static tables initiation (Supported for Jericho) ###
# Options: 1 - initiating static tables, 0 - doesn't initiate tables (Default Value for PCID/emulation)
#custom_feature_static_tbl_full_init.BCM88675=1
#custom_feature_dynamic_tbl_full_init.BCM88675=1

### Interrupts ###
## Set interrupts global parameters.
# Options: 1 - Polling interrupt mode, 0 - Line/MSI interrupt mode. Default: 1.
polled_irq_mode.BCM88650=0
polled_irq_mode.BCM88675=0
#  Set the delay in microsecond between the polling, relevant only to Polling mode.  Default: 0x0.
polled_irq_delay.BCM88650=50000

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#        Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling, relevant only to Polling completion mode.
# SCHAN:
#schan_intr_enable.0=1
schan_timeout_usec.BCM88650=300000
# TDMA
tdma_intr_enable.BCM88650=1
tdma_intr_enable.BCM88675=0
tdma_timeout_usec.BCM88650=5000000
tdma_timeout_usec.BCM88675=560000000
# TSLAM
tslam_intr_enable.BCM88650=1
tslam_intr_enable.BCM88675=0
tslam_timeout_usec.BCM88650=5000000
tslam_timeout_usec.BCM88675=560000000
# MIIM
#miim_intr_enable.0=1
miim_timeout_usec.0=300000

### DRAM configuration ###

# DRAM buffer (Dbuff) size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88650=1024
ext_ram_dbuff_size.BCM88470=4096
ext_ram_dbuff_size.BCM88270=4096

# Number of external DRAMs.
# Allowed values for 88650: 0/2/3/4/6/8.
```

```
# Allowed values for 88660: 0/1/2/3/4/6/8. A value of 1 is permitted only in ONE WAY BYPASS ocb mode.
# Allowed values for 88675: 0/2/3/41/42/6/8. '41' - configure 4 drams in Single Side mode (A, B, C, D).
#                           '42' - configure 4 drams in symmetric mode (A, C, F, H).
# Value of 0 disables the DRAM.
ext_ram_present.BCM88650=8
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_present.BCM88675=8
ext_ram_present.BCM88270=1

### Dram Tuning (Shmoo)
# 3 = Skip Dram Tuning (Shmoo).
# 2 = Use Dram saved config Parameters, if no Parameters Perform Shmoo on init. Default option.
# 1 = Perform Shmoo on init.
# 0 = Use Dram saved config Parameters, if no Parameters do nothing.
ddr3_auto_tune.BCM88650=2
ddr3_auto_tune.BCM88270=2

### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Defult: 1.
# bist_enable_dram.BCM88650=1
bist_enable_dram.BCM88270=1

### Example for Dram Saved config Parameters.
## This example is for ci=14 (Dram=7).
#ddr3_tune_addrc_ci14=0x000000ae
#ddr3_tune_wr_dq_wl1_ci14=0x92929292,0x92929292,0x92929292,0x92929292
#ddr3_tune_wr_dq_wl0_ci14=0x93939393,0x93939393,0x92929292,0x92929292
#ddr3_tune_wr_dq_ci14=0x80808080
#ddr3_tune_vref_ci14=0x000007df
#ddr3_tune_rd_dqs_ci14=0x96969191,0x90909191
#ddr3_tune_rd_dq_wl1_rn_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rn_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_dq_wl1_rp_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rp_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_en_ci14=0x009d9e9d,0x00a2a3a1
#ddr3_tune_rd_data_dly_ci14=0x00000505


### Dram type: Select ONLY ONE of the following DRAM types, to configure all dram related parameteres per
type.

# Dram Type for Arad:
dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_933=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_800=1
#dram_type_DDR3_MICRON_MT41J256M16_4GBIT_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_933=1
```

```
#dram_type_DDR3_MICRON_MT41J128M16HA_125_800=1
#dram_type_DDR3_MICRON_MT42J64M16LA_15E_667=1
#dram_type_DDR3_SAMSUNG_K4B4G1646B_4GBIT_1066=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_933=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_800=1

# Dram Type for Jericho:
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#dram_type_DDR4_MICRON_Y4016AABG_JD_F_4GBIT=1
#dram_type_DDR4_MICRON_MT40A256M16HA_083EA_4GBIT=1
#dram_type_DDR4_HYNIX_H5AN4G6NMFR_VJC_4GBIT=1
#dram_type_GDDR5_SAMSUNG_K4G20325FD_2GBIT=1
#dram_type_GDDR5_SAMSUNG_K4G41325FC_4GBIT=1
#dram_type_GDDR5_MICRON_EDW4032CABG_4GBIT=1
#dram_type_GDDR5_HYNIX_H5GC4H24MFR_T2C_4GBIT=1

# Dram Type for Ardon:
#dram_type_DDR4_MICRON_EDY4016AABG_DRFR_4GBIT=1

# DRAM frequency
ext_ram_freq.BCM88675=1600

### Setting dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066 Parameters as Default:
## All other dram types parameter resides in arad.soc. choosing another Dram Type will override the following
parameters.
ext_ram_t_rrd=6000
ext_ram_columns=1024
ext_ram_banks=8
ext_ram_ap_bit_pos=10
ext_ram_burst_size=32
ext_ram_t_ref=3900000
ext_ram_t_wr=15000
ext_ram_t_wtr=7500
ext_ram_t_rtp=7500
ext_ram_freq=1066
ext_ram_rows=16384
ext_ram_jedec=29
ext_ram_t_rc=46090
ext_ram_t_rcd_rd=13090
ext_ram_t_rcd_wr=13090
ext_ram_t_rp=13090
ext_ram_t_rfc=160000
ext_ram_t_ras=33000
ext_ram_c_wr_latency=10
ext_ram_t_faw=35000
ext_ram_c_cas_latency=14
ddr3_mem_grade=0x141414
```

```
## address or bank address swap example
#swaps are found in bcm88xxx_board.soc
#ext_ram_addr_bank_swap_dramX_bitY=M

## dq swap example
#swaps are found in bcm88xxx_board.soc
#bit swap example:
#ext_ram_dq_swap_dramX_byteY_bitZ=M
#byte swap example:
#ext_ram_dq_swap_dramX_byteY=M

## Dram Gear down mode. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_gear_down_mode.BCM88675=0

## Alert_n de-assertion period above which error is considered parity error
#ext_ram_alert_n_period_thrs.BCM88675=20

## Dram Address bus inversion. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_abi.BCM88675=0

## Data bus inversion on write/read direction. Valid values: 0 - Disable, 1 - Enable. Default: 0x0.
## those socs are configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_write_dbi.BCM88675=0
#ext_ram_read_dbi.BCM88675=0

## Enable write/read CRC (DDR4 does not support read CRC). Default: 0x0.
## those socs are configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_write_crc.BCM88675=1
#ext_ram_read_crc.BCM88675=0

## Command parity latency. Valid values: 0 - Disable, 4,5 or 6 - Valid values. Default: 0x0.
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_cmd_par_latency.BCM88675=6

# DRAM pre-configurations according to config variables which defines
# Dram Type. BCM88650 supports only DDR3.
# Dram Type. BCM88675 supports DDR4 and GDDR5.
ext_ram_type.BCM88650=DDR3
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_type.BCM88675=DDR4

# Total Dram Size (MBytes)
# For 8 drams interfaces, 2 channel each, Each channel 2Gbit Dram. the total DRAM size is 32GBits=4000MBytes.
ext_ram_total_size.BCM88650=4000
## this soc is configured in per board soc file (bcm88x7x_board.soc)
#ext_ram_total_size.BCM88675=8000
```

```
# Total buffer size allocated for User buffer. Units: Mbytes. Default: '0x0'.
# Supported suffix:
#       dram - the buffer size will be subtracted from the DRAM size available for packet memory.
#user_buffer_size=0
#user_buffer_size_dram=50

# DRAM ClamShell (interface swap its HW PIN pairs during init.)
# Note: Only one of DRAMs can have its PIN swapped
# Valid values: 0/1
#dram0_clamshell_enable.BCM88650=1
#dram1_clamshell_enable.BCM88650=1

# DRAM maximum number of crc error per buffer, buffer deleted by interrupt application.
#dram_crc_del_buffer_max_reclaims=0

##############################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
##############################

## If set, always configures synthesizers, even if the configured rate is equal to
## their nominal rate. Can be disabled to speedup bringup time (keep in mind that if
## disabled, changing a synt to a non-nominal freq and than back to nominal will not
## work
#synt_over.BCM88650=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88650=100000000
synt_ddr.BCM88650=125000000
synt_phy.BCM88650=156250000
# in Jericho, this freq is used only for the core synth
synth_dram_freq.BCM88650=25

#Configure the reference clock frequencies for NIF and Fabric SerDes
# Options:  0 - 125MHz, 1 - 156.25MHz, -1 - Disable
serdes_nif_clk_freq.BCM88650=1
serdes_fabric_clk_freq.BCM88650=1
#serdes_nif_clk_freq.BCM88270=-1
#serdes_fabric_clk_freq.BCM88270=-1
serdes_nif_clk_freq.BCM8206=-1
serdes_fabric_clk_freq.BCM8206=-1
#serdes_nif_clk_freq_out0.BCM88675=1
#serdes_nif_clk_freq_out1.BCM88675=1
#serdes_nif_clk_freq_out2.BCM88675=1
#serdes_nif_clk_freq_in0.BCM88675=1
#serdes_nif_clk_freq_in1.BCM88675=1
```

```
#serdes_nif_clk_freq_in2.BCM88675=1
#serdes_fabric_clk_freq_out0.BCM88675=1
#serdes_fabric_clk_freq_out1.BCM88675=1
#serdes_fabric_clk_freq_in0.BCM88675=1
#serdes_fabric_clk_freq_in1.BCM88675=1


# IEEE 1588 / Broadsync -
# configure clock :
#  DPLL mode/lock: 0 - eci ts pll clk disabled, 1 - configure eci ts pll clk
#  DPLL phase/freq. Default initial: lo = 0x40000000, hi = 0x10000000.
#phy_1588_dpll_frequency_lock.BCM88650=1
#phy_1588_dpll_phase_initial_lo.BCM88650=0x40000000
#phy_1588_dpll_phase_initial_hi.BCM88650=0x10000000
# IEEE 1588 -
# port external MAC
#  indication whether external MAC exists or not.
#  0: 1588 external MAC does not exist
#  1: 1588 external MAC exists
#  the external MAC substracts the RX time from the correction field
#  and adds the TX time to the correction field.
#ext_1588_mac_enable_14.BCM88650=1
#  If set, 48 bits stamping is used for 1588 packets. otherwise 32 bit stamping is used
#  0: 1588 32b stamping (Default)
#  1: 1588 48b stamping
#bcm88660_1588_48b_stamping_enable.BCM88660=1

## Trill configurations
# Trill mode: 0 (disabled) / 1 (coarse-grained) / 2 (fine-grained)
#trill_mode.BCM88650=1

# Trill multicast prunning mode:
# 0: no prunning - vsi is not part of the key
# 1: VSI prunning: Key is dist-tree,esadit-bit,VSI.
trill_mc_prune_mode.BCM88650=0

# Enable SA authentication
#sa_auth_enabled=1

# Bridge default logical interfaces allocation IDS
logical_port_l2_bridge.BCM88650=0
logical_port_drop.BCM88650=1

#logical_port_mim_in.BCM88650=2
#logical_port_mim_out.BCM88650=4096

# Enable EVB application
#evb_enable=1
```

```
# Enable Flexible QinQ application
#vlan_translation_match_ipv4=1

# Enable presel mgmt advance mode
#field_presel_mgmt_advanced_mode=1

# Enable ITMH programmable mode
# ITMH processing fully programmable (not fixed) by using the FP APIs.
# In this mode ITMH processing uses the TCAM/direct table for TM programs lookup, in same manner as Ethernet frames.
itmh_programmable_mode_enable.BCM88675=1
itmh_programmable_mode_enable.BCM88470=1
itmh_programmable_mode_enable.BCM88270=1
itmh_programmable_mode_enable.BCM88680=1



# Prepend tag to be 4 bytes or 8 bytes. Default: 4B.
# Applicable only from ARAD+
#prepend_tag_bytes=4B

# The Prepend Tag is located at (12 + 2*offset) bytes from the start of the packet.
# Range: 0-7. Default: 0
#prepend_tag_offset=0

# Enable ARP (next hop mac extension) feature
bcm886xx_next_hop_mac_extension_enable.BCM88650=1

# Set VLAN translate mode.
# 0: normal
# 1: advanced mode. Enable vlan edit settings with enhanced user control
#bcm886xx_vlan_translate_mode=0

# Set MPLS termination database mode
# Set MPLS databases location for each MPLS namespace (L1,L2,L3)
#bcm886xx_mpls_termination_database_mode=0

# Enable , Disable MPLS indexed.
# MPLS termination with known label stack location.
# Must be enabled in case device supports more than 2 MPLS label terminations (L1,L2,L3)
#mpls_termination_label_index_enable=1

# Enable FastReRoute labels in device.
#fast_reroute_labels_enable=0

# Enable MPLS Context specific. Upstream label assignment in device.
#mpls_context_specific_label_enable=0
```

```
# MPLS context.
# Can be global, per port , per interface or per port,interface.
#mpls_context=global

# MPLS TP MC reserved mac address (01-00-5E-90-00-00).
# If set device will support My-MAC termination of reserved MC Ethernet
#mpls_tp_mymac_reserved_address=0

# MPLS ELI enable disable
mpls_entropy_label_indicator_enable=0

##########################################
##cfg for BCM88202 - Ardon
##########################################

#Core clock and system reference clock (KHz)
core_clock_speed_khz.BCM88202=450000
system_ref_core_clock_khz.BCM88202=1200000

## Set TM as device mode
fap_device_mode.BCM88202=TM

## Set CPU ports header type
tm_port_header_type_in_0.BCM88202=TM
tm_port_header_type_out_0.BCM88202=TM
tm_port_header_type_in_200.BCM88202=TM
tm_port_header_type_out_200.BCM88202=TM
tm_port_header_type_in_201.BCM88202=TM
tm_port_header_type_out_201.BCM88202=TM
tm_port_header_type_in_202.BCM88202=TM
tm_port_header_type_out_202.BCM88202=TM
tm_port_header_type_in_203.BCM88202=TM
tm_port_header_type_out_203.BCM88202=TM

##### Application configuration
### Default SDK Application
ucode_port_1.BCM88202=TM_INTERNAL_PKT.0
ucode_port_13.BCM88202=TM_INTERNAL_PKT.1
ucode_port_14.BCM88202=TM_INTERNAL_PKT.2
ucode_port_15.BCM88202=TM_INTERNAL_PKT.3
ucode_port_16.BCM88202=TM_INTERNAL_PKT.4
ucode_port_17.BCM88202=TM_INTERNAL_PKT.5

### PortOpriority (additonal ports can be added)
#diag_cosq_disable.BCM88202=1
#ucode_port_1.BCM88202=IGNORE
#ucode_port_13.BCM88202=IGNORE
```

```
#ucode_port_14.BCM88202=IGNORE
#ucode_port_15.BCM88202=IGNORE
#ucode_port_16.BCM88202=IGNORE
#ucode_port_17.BCM88202=IGNORE
#ucode_port_1.BCM88202=TM_INTERNAL_PKT.0
#ucode_port_2.BCM88202=TM_INTERNAL_PKT.1
#ucode_port_3.BCM88202=TM_INTERNAL_PKT.2
#ucode_port_4.BCM88202=TM_INTERNAL_PKT.3
#ucode_port_5.BCM88202=TM_INTERNAL_PKT.4
#ucode_port_6.BCM88202=TM_INTERNAL_PKT.5
#ucode_port_7.BCM88202=TM_INTERNAL_PKT.6
#ucode_port_8.BCM88202=TM_INTERNAL_PKT.7
#ucode_port_9.BCM88202=TM_INTERNAL_PKT.8
#ucode_port_10.BCM88202=TM_INTERNAL_PKT.9
#ucode_port_11.BCM88202=TM_INTERNAL_PKT.10
#ucode_port_12.BCM88202=TM_INTERNAL_PKT.11
#ucode_port_13.BCM88202=TM_INTERNAL_PKT.12
#ucode_port_14.BCM88202=TM_INTERNAL_PKT.13
#ucode_port_15.BCM88202=TM_INTERNAL_PKT.14
#ucode_port_16.BCM88202=TM_INTERNAL_PKT.15
#ucode_port_17.BCM88202=TM_INTERNAL_PKT.16
#ucode_port_18.BCM88202=TM_INTERNAL_PKT.17
#ucode_port_19.BCM88202=TM_INTERNAL_PKT.18
#ucode_port_20.BCM88202=TM_INTERNAL_PKT.19
#ucode_port_21.BCM88202=TM_INTERNAL_PKT.20
#ucode_port_22.BCM88202=TM_INTERNAL_PKT.21
#ucode_port_23.BCM88202=TM_INTERNAL_PKT.22
#ucode_port_24.BCM88202=TM_INTERNAL_PKT.23
#ucode_port_25.BCM88202=TM_INTERNAL_PKT.24

#dtm_flow_nof_remote_cores_region_1.BCM88202=1
#dtm_flow_nof_remote_cores_region_2.BCM88202=1
#dtm_flow_nof_remote_cores_region_3.BCM88202=1
#dtm_flow_nof_remote_cores_region_4.BCM88202=1
#dtm_flow_nof_remote_cores_region_5.BCM88202=1
#dtm_flow_nof_remote_cores_region_6.BCM88202=1
#dtm_flow_nof_remote_cores_region_7.BCM88202=1
#dtm_flow_nof_remote_cores_region_8.BCM88202=1
#dtm_flow_nof_remote_cores_region_9.BCM88202=1
#dtm_flow_nof_remote_cores_region_10.BCM88202=1

### PriorityOPort
#diag_cosq_disable.BCM88202=1
#stack_enable.BCM88202=0
#ucode_port_17.BCM88202=IGNORE
#ucode_port_16.BCM88202=IGNORE
#ucode_port_15.BCM88202=IGNORE
#ucode_port_14.BCM88202=IGNORE
```

```
#ucode_port_13.BCM88202=IGNORE
#ucode_port_1.BCM88202=TM_INTERNAL_PKT.0

## Credit worth resolution (Fix the Interface rate)
credit_worth_resolution.BCM88202=medium

### Interrupts
polled_irq_mode.BCM88202=1

## To use MC-ID in the range of < 255
egress_multicast_direct_bitmap_max.BCM88202=255

### Flow Control
## Enable Flow Control to CL SCH. Relevant only to Priority Over Port application
## Valid values: 1 - Enable, 0 - Disable. Default: 0x0.
custom_feature_cl_scheduler_fc.BCM88202=1

## Valid values: 1 - Enable, 0 - Disable. Default: 0x0.
#custom_feature_high_vsi_fp.BCM88660=0

## Use lower CL. Ardon FC is mapped to CL 0-255.
dtm_flow_mapping_mode_region_65.BCM88202=1
dtm_flow_mapping_mode_region_66.BCM88202=1

### Statistic-Report Properties
stat_if_enable.BCM88202=1
stat_if_rate.BCM88202=10000
stat_if_pkt_size.BCM88202=126B
## Set the Statistic-Report mode
stat_if_report_mode.BCM88202=QSIZE
## Enable statistics reports on EnQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_enqueue_enable.BCM88202=1
## Enable statistics reports on DeQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_dequeue_enable.BCM88202=1

## Disable removed features
phy_1588_dpll_frequency_lock.BCM88202=0
low_power_nif_mac.BCM88202=0
low_power_fabric_mac.BCM88202=0
custom_feature_nif_recovery_enable.BCM88202=0
phy_null.BCM88202=0

## Disable counter thread
bcm_stat_interval.BCM88202=0
#bcm_stat_sync_timeout.BCM88202=0xffffffff

### EMUL changes
#diag_emulator_partial_init.BCM88202=1
```

```
#schan_timeout_usec.BCM88202=0x7fffffff
#tdma_timeout_usec.BCM88202=0x7fffffff
#tslam_timeout_usec.BCM88202=0x7fffffff
#phy_null.BCM88202=0

### Disable DMA
#tdma_timeout_usec.BCM88202=0
#tslam_timeout_usec.BCM88202=0
#table_dma_enable.BCM88202=0
#tslam_dma_enable.BCM88202=0

### Dram setup
# Number of external DRAMs.
# Allowed values for 88202: 0 / 1 (Dram D) / 2 (Dram's C, D) / 3 (Dram's B, C, D) / 4 (Dram's A, B, C, D) /
ext_ram_present.BCM88202=0

### Total size of ram
ext_ram_total_size.BCM88202=2000

### OCB
bcm886xx_ocb_databuffer_size.BCM88202=1024

# DRAM frequency (DQ/2)
ext_ram_freq.BCM88202=1200

# Dram Type. Ardon supports only DDR4.
ext_ram_type.BCM88202=DDR4

### Dram Features

## Dram Gear down mode. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
#ext_ram_gear_down_mode.BCM88202=1

## Alert_n de-assertion period above which error is considered parity error
#ext_ram_alert_n_period_thrs.BCM88202=0

## Dram Address bus inversion. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_abi.BCM88202=0

## Data bus inversion on write/read direction. Valid values: 0 - Disable, 1 - Enable. Default: 0x0.
ext_ram_write_dbi.BCM88202=0
ext_ram_read_dbi.BCM88202=0

## Enable write/read CRC (DDR4 does not support read CRC). Default: 0x0.
#ext_ram_write_crc=.BCM882021
#ext_ram_read_crc=.BCM882021

## Command parity latency. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
```

```
ext_ram_cmd_par_latency.BCM88202=6

## DRAM ClamShell (interface swap its HW PIN pairs during init.)
# Note: Only one of DRAMs can have its PIN swapped). Valid values: 0/1.
dram1_clamshell_enable_0.BCM88202=1
dram1_clamshell_enable_1.BCM88202=1
dram1_clamshell_enable_2.BCM88202=1
dram1_clamshell_enable_3.BCM88202=1

## Dram DQ Swap.
## Format: ext_ram_dq_swap_dramX_byteY_bitZ=M. Means, In dram X, Byte Y swap DQ Z and M. Default: No swapping.
#ext_ram_dq_swap_dram1_byte2_bit3.BCM88202=4
#ext_ram_dq_swap_dram4_byte3_bit2.BCM88202=1

### Dram Tuning (Shmoo)
ddr3_auto_tune.BCM88202=2

### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Default: 1.
bist_enable_dram.BCM88202=1

### Fabric
## Enable fabric links
serdes_qrtt_active_0.BCM88202=1
serdes_qrtt_active_1.BCM88202=1
serdes_qrtt_active_2.BCM88202=1
serdes_qrtt_active_3.BCM88202=1

## Firmware Load Method
load_firmware.BCM88202=2

#SFI speed rate
port_init_speed_sfi.BCM88202=11500

#LC PLL in. Default: 156.25MHz.
#xgxs_lcpll_xtal_refclk=125

##########################################
##cfg for BCM88640_A0 - Petra
##########################################

force_clk_m_n_divisors_zero_nif0.BCM88640_A0=0
force_clk_m_n_divisors_zero_fabric0.BCM88640_A0=1
force_clk_m_n_divisors_zero_comb0.BCM88640_A0=0

combo_ref_clock.BCM88640=312500
```

```
nif_ref_clock.BCM88640_A0=312500

# Use variable cell size
system_cell_format.BCM88640_A0=VCS128

# Core clock speed (MHz)
core_clock_speed.BCM88640_A0=300

# Map bcm local port to CPU/NIF interfaces
ucode_port_0.BCM88640_A0=CPU.0
ucode_port_73.BCM88640_A0=CPU.1
ucode_port_74.BCM88640_A0=CPU.2
ucode_port_75.BCM88640_A0=CPU.3
ucode_port_76.BCM88640_A0=CPU.4
ucode_port_77.BCM88640_A0=CPU.5
ucode_port_78.BCM88640_A0=CPU.6

# Interlaken ports basic configuration (temporary).
# This configuration replaces the above XAUI/RXAUI ports config
# The following PB design constraint is not enforced in SW, so must be taken
# care of here, when mapping ports to interfaces:
#   If using ilkn0, port 1 (if used) must be mapped to ilkn0
#   If using ilkn1, port 2 (if used) must be mapped to ilkn1
#   Note that in our default mapping, port 2 is mapped to RXAUI 6, thus won't
#   work. If one wants to use front panel port 2 with ilkn1, he should be map
#   RAXUI6 to a port != 2.
#ilkn_num_lanes_0.BCM88640_A0=12
#ucode_port_1.BCM88640_A0=ILKN0.0
#ucode_port_2.BCM88640_A0=ILKN0.1
#ucode_port_3.BCM88640_A0=ILKN0.2
#ilkn_num_lanes_1.BCM88640_A0=12
#ucode_port_4.BCM88640_A0=RXAUI6
#ucode_port_5.BCM88640_A0=ILKN1.0
#ucode_port_6.BCM88640_A0=ILKN1.1
#ucode_port_7.BCM88640_A0=ILKN1.2

# Default header type is derived from fap_device_mode: If fap_device_mode is
# PP, default header type is ETH. Otherwise, defualt header type is TM.
# Header type per port can be overriden.
# All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/INJECTED

# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88640_A0=TM
tm_port_header_type_in_0.BCM88640_A0=TM
tm_port_header_type_out_0.BCM88640_A0=CPU
tm_port_header_type_73.BCM88640_A0=TM
tm_port_header_type_74.BCM88640_A0=TM
tm_port_header_type_75.BCM88640_A0=TM
```

```
tm_port_header_type_76.BCM88640_A0=TM
tm_port_header_type_77.BCM88640_A0=TM
tm_port_header_type_78.BCM88640_A0=TM
# recycling port
tm_port_header_type_40.BCM88640_A0=RAW
ucode_port_40.BCM88640_A0=RCY.0

# Enable ERP and OLP ports
num_erp_tm_ports.BCM88640_A0=1
num_olp_tm_ports.BCM88640_A0=1
num_recycle_tm_ports.BCM88640_A0=1

# Dram configuration
# 600 Mhz
ext_ram_pll_r.BCM88640_A0=4
ext_ram_pll_f.BCM88640_A0=47
ext_ram_pll_q.BCM88640_A0=1
ext_ram_freq.BCM88640_A0=600

# Dbuff size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88640_A0=1024

# Number of external DRAMs.
# Allowed values for 88x4x: 0/2/3/4/6.
# Allowed values for 88650: 0/2/3/4/6/8.
# ext_ram_total_size below assumed this value is 6 for 88x4x and 8 for
ext_ram_present.BCM88640_A0=6

# Dram type: Select ONLY ONE of the following DRAM types, to configure all dram
# related parameteres per type.
# Dram Type for Pb:
dram_type_DDR3_MICRON_MT41J64M16_15E.BCM88640_A0=1
#dram_type_DDR2_MICRON_K4T51163QE_ZC_LF7.BCM88640_A0=1
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333.BCM88640_A0=1
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600.BCM88640_A0=1
#dram_type_GDDR3_SAMSUNG_K4J52324QE.BCM88640_A0=1
#dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G.BCM88640_A0=1

# QDR configuration
# Parity. Allowed values: PARITY/ECC.
ext_qdr_protection_type.BCM88640_A0=PARITY
ext_qdr_size_mbit.BCM88640_A0=72
#QDR type: QDR/QDR2P/QDR3/NONE.
ext_qdr_type.BCM88640_A0=QDR

# QDR can use the core clock, or using it's own pll. Current example is for 250MHz pll (if used).
# QDR using own pll configuration
```

```
#ext_qdr_use_core_clock_freq.BCM88640_A0=0
#ext_qdr_pll_m.BCM88640_A0=4
#ext_qdr_pll_n.BCM88640_A0=4
#ext_qdr_pll_p.BCM88640_A0=0

# QDR using core clock
ext_qdr_use_core_clock_freq.BCM88640_A0=1

#Configure MDIO. If parameter is not defined, MDIO is disabled.
mdio_clock_freq_khz.BCM88640_A0=1000

# Streaming interface configuration
streaming_if_enable_timeoutcnt.BCM88640_A0=1
streaming_if_timeout_prd.BCM88640_A0=70
streaming_if_quiet_mode.BCM88640_A0=0
streaming_if_discard_bad_parity.BCM88640_A0=0

# maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88640_A0=0

# multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_max.BCM88640_A0=4095

# configure flow mapping base to 0
flow_mapping_queue_base.BCM88640_A0=0

dtm_flow_mapping_mode_region_25.BCM88640_A0=0
dtm_flow_mapping_mode_region_26.BCM88640_A0=0
dtm_flow_mapping_mode_region_27.BCM88640_A0=0
dtm_flow_mapping_mode_region_28.BCM88640_A0=0
dtm_flow_mapping_mode_region_29.BCM88640_A0=0
dtm_flow_mapping_mode_region_30.BCM88640_A0=0
dtm_flow_mapping_mode_region_31.BCM88640_A0=0
dtm_flow_mapping_mode_region_32.BCM88640_A0=0
dtm_flow_mapping_mode_region_33.BCM88640_A0=1
dtm_flow_mapping_mode_region_34.BCM88640_A0=1
dtm_flow_mapping_mode_region_35.BCM88640_A0=1
dtm_flow_mapping_mode_region_36.BCM88640_A0=1
dtm_flow_mapping_mode_region_37.BCM88640_A0=1
dtm_flow_mapping_mode_region_38.BCM88640_A0=1
dtm_flow_mapping_mode_region_39.BCM88640_A0=1
dtm_flow_mapping_mode_region_40.BCM88640_A0=1
dtm_flow_mapping_mode_region_41.BCM88640_A0=1
dtm_flow_mapping_mode_region_42.BCM88640_A0=2
dtm_flow_mapping_mode_region_43.BCM88640_A0=2
dtm_flow_mapping_mode_region_44.BCM88640_A0=2
dtm_flow_mapping_mode_region_45.BCM88640_A0=2
dtm_flow_mapping_mode_region_46.BCM88640_A0=2
```

```
dtm_flow_mapping_mode_region_47.BCM88640_A0=2
dtm_flow_mapping_mode_region_48.BCM88640_A0=2
dtm_flow_mapping_mode_region_49.BCM88640_A0=2
dtm_flow_mapping_mode_region_50.BCM88640_A0=2
dtm_flow_mapping_mode_region_51.BCM88640_A0=2
dtm_flow_mapping_mode_region_52.BCM88640_A0=2
dtm_flow_mapping_mode_region_53.BCM88640_A0=2
dtm_flow_mapping_mode_region_54.BCM88640_A0=2
dtm_flow_mapping_mode_region_55.BCM88640_A0=2

# Power up state (DOWN/UP/UP_AND_RELOCK). Can be configured per lane.
pb_serdes_lane_power_state.BCM88640_A0=UP_AND_RELOCK

# SeDes media type: Pre-configuration for tx params, according to
# media type.
# Allowed values: SHORT_BACKPLANE/LONG_BACKPLANE/CHIP2CHIP
pb_serdes_lane_tx_phys_media_type.BCM88640_A0=SHORT_BACKPLANE
pb_serdes_lane_tx_phys_media_type_28.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_29.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_30.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_31.BCM88640_A0=CHIP2CHIP

system_is_fe1600_in_system.BCM88640_A0=0

# Counter engine configuration
counter_engine_source_1.BCM88640_A0=0
counter_engine_statistics_1.BCM88640_A0=4
counter_engine_source_2.BCM88640_A0=1
counter_engine_statistics_2.BCM88640_A0=4

# Statistic Reporting
stat_if_enable=0

# Clock Phases: 0/90/180/270
stat_if_phase=0

# Rate in nm
stat_if_sync_rate=0

# TRUE/FALSE
stat_if_parity_enable=FALSE

# BILLING/FAP20V
stat_if_report_mode=BILLING

# Billing Mode
# EGR_Q_NB/CUD/VSI_VLAN/BOTH_LIFS
stat_if_report_billing_mode=VSI_VLAN
```

```
# Fap20V Mode
# QUEUE/PACKET
stat_if_report_fap20v_mode=QUEUE

# QUEUE_NUM/MC_ID (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_fabric_mc=QUEUE_NUM
stat_if_report_fap20v_ing_mc=QUEUE_NUM

# TRUE/FALSE (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_cnm_report=FALSE

# TRUE/FALSE
stat_if_report_fap20v_count_snoop=FALSE
stat_if_report_original_pkt_size=FALSE
stat_if_report_fap20v_single_copy_reported=FALSE

schan_timeout_usec.BCM88640_A0=300000


polled_irq_mode.BCM88640_A0=0
polled_irq_delay.BCM88640_A0=1000

# Set the FTMH Load-Balancing Key extension mode
# Options for 88650: ENABLED
# Options for 88640 compatible:
# DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY / 16B_STACKING_ROUTE_HISTORY
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88640=DISABLED

##########################################
##cfg for BCM88750 (FE1600)
##########################################

fabric_device_mode.BCM88750=SINGLE_STAGE_FE2

is_dual_mode.BCM88750=0
system_is_vcs_128_in_system.BCM88750=0

system_is_dual_mode_in_system.BCM88750=0
system_is_single_mode_in_system.BCM88750=1

system_is_fe600_in_system.BCM88750=0

system_ref_core_clock_khz.BCM88750=1200000

fabric_merge_cells.BCM88750=0
fabric_multicast_mode.BCM88750=DIRECT
```

```
fabric_load_balancing_mode.BCM88750=NORMAL_LOAD_BALANCE
fabric_tdm_fragment.BCM88750=0x180
##Allows single pipe device to send TDM traffic over the fabric primary pipe - available for Fe1600_B0 only
#change  vcs128_unicast_priority to be lower than 2 - when enabling
fabric_tdm_over_primary_pipe.BCM88750=0
fabric_optimize_partial_links.BCM88750=0
vcs128_unicast_priority.BCM88750=2

polled_irq_mode.BCM88750=0
polled_irq_delay.BCM88750=1000

#Selects if to run MBIST (Memory Built In Self Test) of internal memory (tables) during startup.
#Supported values: 0=don't run, 1=run, 2=run with extra logs
#bist_enable.BCM88650=1
bist_enable.BCM88750=1
#bist_enable.BCM88470=2
#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88750=0
load_firmware.BCM88750=2

#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88750=2

#enable\disable CL72
port_init_cl72.BCM88750=1
#Avaliable speeds for BCM88750: 5750, 6250, 10312, 11500, 12500
port_init_speed.BCM88750=10312
#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88750=1
serdes_fabric_clk_freq_out.BCM88750=1
serdes_mixed_rate_enable.BCM88750_B0=0

# VSC128 or VSC256
fabric_cell_format.BCM88750=VSC256

# Core clock speed (MHz)
core_clock_speed_khz.BCM88750=533333

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#         Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88750=0
schan_timeout_usec.BCM88750=300000
# TDMA
tdma_intr_enable.BCM88750=0
```

```
tdma_timeout_usec.BCM88750=5000000
# TSLAM
tslam_intr_enable.BCM88750=0
tslam_timeout_usec.BCM88750=5000000
# MIIM
miim_intr_enable.BCM88750=0
miim_timeout_usec.BCM88750=300000

##########################################
##cfg for BCM88950 (FE3200)
##########################################
#Device  operation
fabric_device_mode.BCM88950=SINGLE_STAGE_FE2
fabric_load_balancing_mode.BCM88950=NORMAL_LOAD_BALANCE

#Cell format
system_is_vcs_128_in_system.BCM88950=0

#Fabric pipe configuration

fabric_num_pipes.BCM88950=1
fabric_pipe_map.BCM88950=0
system_contains_multiple_pipe_device.BCM88950=0

#multicast table mode
fabric_multicast_mode.BCM88950=DIRECT
fe_mc_id_range.BCM88950=128K_HALF

#Core clock and system reference clock (KHz)
system_ref_core_clock_khz.BCM88950=1200000
core_clock_speed_khz.BCM88950=720000

#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88950=0
serdes_fabric_clk_freq_out.BCM88950=1


polled_irq_mode.BCM88950=1
polled_irq_delay.BCM88950=1000

#Memory Bist
bist_enable.BCM88950=0

#High voltage driver strap. If 0, connected to 1.25V supply;
#if 1, connected to 1V mode (For unused Falcon Quads that are connected to 1.0V).
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88950=0
load_firmware.BCM88950=0x102
```

```
##Per port properties
#Possible values - KR_FEC, 64_66, RS_FEC, LL_RS_FEC
backplane_serdes_encoding.BCM88950=RS_FEC

#enable\disable CL72
port_init_cl72.BCM88950=1

#link speed
port_init_speed.BCM88950=25000

#Link connected to a reapter
#Values: 0/1. Default: 0
#repeater_link_enable_<port>.BCM88950=0

##Fabric cell FIFO DMA
fabric_cell_fifo_dma_enable.BCM88950=1

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#       Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88950=0
schan_timeout_usec.BCM88950=300000
# TDMA
tdma_intr_enable.BCM88950=0
tdma_timeout_usec.BCM88950=5000000
# TSLAM
tslam_intr_enable.BCM88950=0
tslam_timeout_usec.BCM88950=5000000
# MIIM
miim_intr_enable.BCM88950=0
miim_timeout_usec.BCM88950=300000

##############################
# Configuration for devices run in emulation
##############################
#diag_emulator_partial_init.BCM88470=2
#phy_simul.BCM88470=1
#system_ref_core_clock_khz.BCM88470=250000
#system_ref_core_clock_khz.BCM88470=600000
#phy_simul.BCM88270=1

polled_irq_mode.BCM88470=1
polled_irq_mode.BCM88270=1
```

```
schan_intr_enable.BCM88470=0
schan_intr_enable.BCM88270=0

# For emulation use:
#schan_timeout_usec.BCM88470=600000000
schan_timeout_usec.BCM88470=300000
schan_timeout_usec.BCM88270=200000

# TDMA
tdma_intr_enable.BCM88470=0
#tdma_intr_enable.BCM88270=0

# For emulation use:
#tdma_timeout_usec.BCM88470=600000000
tdma_timeout_usec.BCM88470=60000000
tdma_timeout_usec.BCM88270=500000

# TSLAM
tslam_intr_enable.BCM88470=0
tslam_intr_enable.BCM88270=0

# For emulation use:
#tslam_timeout_usec.BCM88470=600000000
tslam_timeout_usec.BCM88470=60000000
tslam_timeout_usec.BCM88270=500000

#otm_base_q_pair.BCM88470=2

##############################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
##############################

# Support (and configure on init) packet processing features.
# If not defined - only traffic management capabilities are enabled.
packet_processing=1

## PCP (Petra Co-Processor) features
#pcp_elk.BCM88640_A0=1
#pcp_oam.BCM88640_A0=1
#pcp_dma.BCM88640_A0=1

## Set/Override TDM related config variables
#tdm.BCM88640_A0=1

# If set, always configures synthesizers, even if the configured rate is
# equal to
# their nominal rate. Can be disabled to speedup bringup time
```

```
# (keep in mind that if disabled, changing a synt to a non-nominal freq and
# than back to nominal will not work
#synt_over.BCM88640_A0=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88640_A0=100000000
synt_ddr.BCM88640_A0=125000000
synt_phy.BCM88640_A0=156250000


############################
### Warmboot & SW State ####
############################
#
#HW journal working mode. Allowed values: 0-2.
#   0 : Disabled
#   1 : Commit After Each Api
#   2 : Commit Upon User Request
ha_hw_journal_mode=0

ha_hw_journal_size=15728640
ha_sw_journal_size=15728640
ha_crash_recovery=1


# stable_size - a strict bound on the application's external storage size
stable_size.BCM88950=200000
stable_size.BCM88750=200000
stable_size.BCM88650=281000000
stable_size.BCM88675=500000000
stable_size.BCM88680=500000000
stable_size.BCM88690=500000000
stable_size.BCM88470=350000000
stable_size.BCM88270=650000000
stable_size=420000000

# determine the memory size pre-allocated for the SDK's SW State
sw_state_max_size.BCM88650=210000000
sw_state_max_size.BCM88675=350000000
sw_state_max_size.BCM88680=350000000
sw_state_max_size.BCM88470=300000000
sw_state_max_size.BCM88270=210000000
sw_state_max_size=350000000

# stable location
## part of scache initialization for warmboot persistent storage.
```

```
## values: 1-2:Not Valid for dnx 3: Store in a file  4: Use Shared Mem.
# 4 is the preffered option, using 3 for Arad and FE in order to regress both modes.
stable_location.BCM88950=3
stable_location.BCM88750=3
stable_location.BCM88650=3
stable_location.BCM88660=3
stable_location.BCM88675=3
stable_location=3

# stable_filename - the warmboot file name (if stored on a file)
stable_filename=/tmp/warmboot_data

# emulation file name
stable_filename.BCM88470=/tmp/warmboot_data


# create the file in memory for a faster warmboot debug
#stable_filename=/dev/shm/warmboot_data

# stable_flags - not in use
stable_flags=0

############################
############################


# Bridge default logical interfaces allocation IDS
logical_port_l2_bridge.BCM88640=1
logical_port_drop.BCM88640=-1

#logical_port_mim_in.BCM88640=2
#logical_port_mim_out.BCM88640=3

## IPV6 tunnel
bcm886xx_ipv6_tunnel_enable=1

## Inlif Profile Management Mode - QoS L3 L2 marking mode
#
# BCM88660 ONLY
#
# QoS L3 L2 marking allows changing the DSCP and/or EXP values
# of IP and/or MPLS packets according to the incoming port
# (or inlif), and the Traffic Class/Drop Precedence.
#
# The inlif profile is used to control the DSCP/EXP marking.
# This SOC property controls which mode is used for the inlif profile:
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the DSCP/EXP marking).
# 0: Advanced mode (the user controls which inlif profile values perform DSCP/EXP marking directly).
```

```
#bcm886xx_qos_l3_l2_marking=1

## Unicast RPF mode per RIF
#
# This SOC property allows the user to set the unicast RPF mode - loose, strict or disabled - per RIF.
# If disabled, the unicast RPF mode of a RIF is set globally.
# Options: 0 / 1

##Jericho only, number of inrif mac termination combinations. Legal values 0 - 16, default value 16 */
#Note: Two sets of identical mac termination combinations with different RPF modes (loose and strict)
#will consume two termination combinations resources.
#Two sets of identical mac termination combinations with and without loose RPF will consume only one resource.
number_of_inrif_mac_termination_combinations=8

##Jericho only, ipmc_l3mcastl2_mode SOC allows a per RIF program selection in the case of ipv4 MC with IPMC
disable
#instead of the global bcmSwitchL3McastL2 switch control selection.
#Legal values:
#0: bcmSwitchL3McastL2 switch control.
#1: PER In-RIF selection.
#Note that enabling this SOC will reduce the number of In-RIF mac termination combinations bits by one to a
maximum of 3 bits
#so it can't be enabled with number_of_inrif_mac_termination_combinations larger than 8.
ipmc_l3mcastl2_mode = 1

# The bcm_ipmc_add adds bridge or route entries according to the BCM_IPMC_L2 flag.
# Setting custom_feature_ipmc_set_entry_type_by_rif=1 will use the related IN-RIF IPMC state (enable/disable)
# to select the bcm_ipmc_add entry type (bridge/route).
#custom_feature_ipmc_set_entry_type_by_rif=0

# bcm886xx_l3_ingress_urpf_enable=1

## BOS handling mode
# BCM8866X ONLY
#
# There are two ways to handle BOS, controlled by bcm886xx_mpls_termination_mode:
# 0 - Use BOS as key in lookup.
# 1 - Don't use it (except for reserved labels).
#
#bcm886xx_mpls_termination_key_mode=0

# Color resolution mode allows the user to have more detailed metering color information.
# BCM88660 ONLY
#
# Options: 0-2
# 0: A red result from both Ethernet policer and meter implies DP=3.
# 1: A red result from meter implies that DP=2, while a red result from rate (Ethernet policer) implies DP=3.
#policer_color_resolution_mode=1
```

```
## Inlif Profile Management Mode - Disable Same Interface Filter
# BCM8866X ONLY
#
# Controls which mode is used for the inlif profile management.
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the same-interface filter).
# 0: Advanced mode (the user controls which inlif profile values have the same-interface filter disabled for them).
#bcm886xx_logical_interface_bridge_filter_enable=1

## Default Block Forwarding Strength
#
# Configure the default forwarding strength of blocks.
#
# SOC Properties:
#block_trap_strength_vtt - VTT block forwarding strength
#block_trap_strength_flp - FLP block forwarding strength
#block_trap_strength_hash - SLB block forwarding strength (BCM8866X ONLY)
#block_trap_strength_pmf_0 - PMF 1st lookup forwarding strength
#block_trap_strength_pmf_1 - PMF 2nd lookup forwarding strength
#
# Options: 0-7

## Stateful Load Balancing
# BCM8866X ONLY
#
# Stateful Load Balancing (SLB) allows the load balancing of ECMP and LAG
# groups to become stateful.
# In standard load balancing, removing a member from the ECMP/LAG
# group may affect the selected member, since the formula
# depends on group size.
# In stateful load balancing the member is selected once and saved.
# Later, the member is always retrieved, and does not depend on
# the size of the LAG/ECMP group.
#
# resilient_hash_enable - Enable/disable SLB. Values:
# 1 - Enable SLB.
# 0 - Disable SLB.
#resilient_hash_enable=1

#Make Arad SOC properties work for Arad+, by mapping the BCM88660 suffix to BCM88650
soc_family.BCM88660=BCM88650
#Make Arad SOC properties work for Jericho, by mapping the BCM88675 suffix to BCM88650
soc_family.BCM88675=BCM88650
#Make Arad SOC properties work for QMX, by mapping the BCM88375 suffix to BCM88650
soc_family.BCM88375=BCM88650
#Make Arad SOC properties work for Ardon, by mapping the BCM88202 suffix to BCM88650
soc_family.BCM88202=BCM88650
#Make FE3200 SOC properties work for FE3200 SKU 8952, by mapping the BCM88952 suffix to BCM88950
```

```
soc_family.BCM88952=BCM88950
#Make FE1600 SOC properties work for FE1600 SKU 8753, by mapping the BCM88753 suffix to BCM88750
soc_family.BCM88753=BCM88750
#Make FE1600 SOC properties work for FE1600 SKU 8752, by mapping the BCM88752 suffix to BCM88750
soc_family.BCM88752=BCM88750
#Make Arad SOC properties work for QAX, by mapping the BCM88470 suffix to BCM88650
soc_family.BCM88470=BCM88650

#Make Arad SOC properties work for QUX, by mapping the BCM88270 suffix to BCM88650
soc_family.BCM88270=BCM88650
#Make Arad SOC properties work for FLAIR, by mapping the BCM8206 suffix to BCM88650
soc_family.BCM8206=BCM88650
#Make Arad SOC properties work for JERICHO_PLUS, by mapping the BCM88470 suffix to BCM88650
soc_family.BCM88680=BCM88650

# Use different mymac addresses for ipv4 and ipv6 when using vrrp for mymac termination.
#l3_vrrp_ipv6_distinct=1

# Enable multiple mymac termination mode.
# In order to enable it, also set l3_vrrp_ipv6_distinct=0 and l3_vrrp_max_vid=0 since vrrp and
# multiple mymac mode can't co exist.
#l3_multiple_mymac_termination_enable=1

# Distinguish between ipv4 and all other l3 protocols when multiple mymac terminating
#l3_multiple_mymac_termination_mode=1

# Usually the final DP given by the meter (or the In-DP) is unchanged, and can be from 0-3.
# When this SOC property is set to 1, when the final INGRESS DP is 2,
# it is mapped to 1 instead, and thus only the values 0-1 and 3 can be output.
# This has no effect when policer_color_resolution_mode=1.
#custom_feature_always_map_result_dp_2_to_1=1

# Dynamic port feature
#custom_feature_dynamic_port=1

# low power nif mac
#low_power_nif_mac=0

# allow modifications during traffic
#custom_feature_allow_modifications_during_traffic=1

# mem_cache_enable property
# Cache memory mode - enable memory caching during init.
# Note: The user MUST add the property name with suffix '_specific' before providing the list of the cached
memories.
# Possible options (suffixes):
# _all        - enable all tables (excluding read-only/write-only/dynamic/signal)
# _predefined - enable predefined list of tables
```

```
# _parity     - enable tables protected by parity field
# _ecc        - enable tables protected by ecc field
# _specific   - enable specific tables - MUST add this suffix if specific tables should be cached
# _specific_X - enable caching for memory X, where X is memory name. Note: will not work without the previous suffix
# Example: (this example will enable caching of the IHP_RECYCLE_COMMAND table)
# mem_cache_enable_specific.BCM88650=1 #(MUST be added in case specific tables should be cached)
# mem_cache_enable_specific_IHP_RECYCLE_COMMAND.BCM88650=1
# mem_cache_enable_specific.BCM88675=1
# mem_cache_enable_specific_IPS_QUEUE_PRIORITY_TABLE.BCM88675=1

mem_cache_enable_parity.BCM88650=1
mem_cache_enable_parity.BCM88675=1
mem_cache_enable_parity.BCM88202=1
mem_cache_enable_parity.BCM88750=1
mem_cache_enable_parity.BCM88950=1
mem_cache_enable_ecc=0

# mem_nocache property
# Cache memory mode - disable memory caching for specific table during init.
# Note: the user MUST add the default property name before providing the list of the uncached memories.
# Possible options (suffixes):
# specific_X - disable caching for memory X, where X is memory name. Note: will not work without the previous suffix
# Example: (this example will enable caching of the IHP_TERMINATION_PROFILE_TABLE table)
# mem_nocache.BCM88660=1 #(MUST be added in case there are uncached memories)
# mem_nocache_IHP_TERMINATION_PROFILE_TABLE.BCM88660=1
#mem_nocache.BCM88680=1
#mem_nocache_PPDB_B_LIF_TABLE_LABEL_PROTOCOL_OR_LSP.BCM88680=1
#mem_nocache_PPDB_B_LIF_TABLE.BCM88680=1


custom_feature_no_backdoor=1

# Jericho split horizon mode
# 0 - Use 0-1 range for lif orientation.
# 1 (default) - Use 0-1 range for lif orientation in AC lifs and 0-3 range for orientation in other lif types.
split_horizon_forwarding_groups_mode.BCM88675=1
split_horizon_forwarding_groups_mode.BCM88470=1
split_horizon_forwarding_groups_mode.BCM88680=1


# Entries capacities for public and private IP forwarding tables
private_ip_frwrd_table_size=500000
public_ip_frwrd_table_size=500000


#Enable KAPS ARM and Descriptor-DMA
```

```
dma_desc_aggregator_chain_length_max=500
dma_desc_aggregator_buff_size_kb=100
dma_desc_aggregator_timeout_usec=1000
dma_desc_aggregator_enable_specific_KAPS=1

#In Jericho the KAPS ARM DMA already consumes 64KB of buffer memory
dma_desc_aggregator_buff_size_kb.BCM88675=40

# Entries capacities for direct access tables in KAPS (2000 granularity)
#pmf_kaps_large_db_size=2000

#enable expose of HW id instead of SW id in Traps.
bcm886xx_rx_use_hw_trap_id.BCM88650=1
bcm886xx_rx_use_hw_trap_id.BCM88675=1

# Jericho - maximum RIF Id ( valid range is 0 to 32*1024-1)
#rif_id_max=20000

#If set, never add the PPH learn extension (unless explictly required in FP action).
#bcm886xx_pph_learn_extension_disable.BCM88650=0
#bcm886xx_pph_learn_extension_disable.BCM88660=0
#bcm886xx_pph_learn_extension_disable.BCM88675=0

# Jericho - field_ip_first_fragment_parsed
#field_ip_first_fragment_parsed=0

# learning_fifo_dma_buffer_size in bytes (host memory size). Valid range is 20-327680
learning_fifo_dma_buffer_size=200000
# learning_fifo_dma_timeout in microseconds. Valid range is 0-65535. 0 means no timeout.
learning_fifo_dma_timeout=32767
# learning_fifo_dma_threshold valid range is 1-16384 (0x4000)
learning_fifo_dma_threshold=4

####################################
########### OAM and BFD ###########
####################################

# OAM / BFD initialization
# To enable OAM set oam_enable to 1
# To enable BFD set bfd_enable to 1
# Be aware that OAM requires more settings (Configuring OAMP and Recycle port)

# oam_enable=1
# bfd_enable=1

# Set OAMP port
num_oamp_ports.BCM88650=0
```

```
# If BFD is used, runtime_performance_optimize_enable_sched_allocation should be set to 0
# to prevent high memory consumption

# Disable the following:
# bcm886xx_next_hop_mac_extension_enable
# bcm886xx_ipv6_tunnel_enable

# To use IEEE 1588, configure DPLL clock

# Configure recycle port (assuming ucode_port_40=RCY.0)

#oam_rcy_port.BCM88650=40
#tm_port_header_type_in_40.BCM88650=TM
#tm_port_header_type_out_40.BCM88650=ETH
#ucode_port_40.0=RCY.0:core_0.40

# MPLS-TP channel types for OAM/BFD - If MPLS-TP used, channel should be specified
# Available types: mplstp_bfd_control_channel_type
#           mplstp_pw_ach_channel_type
#           mplstp_dlm_channel_type
#           mplstp_ilm_channel_type
#           mplstp_dm_channel_type
#           mplstp_ipv4_channel_type
#           mplstp_cc_channel_type
#           mplstp_cv_channel_type
#           mplstp_on_demand_cv_channel_type
#           mplstp_pwe_oam_channel_type
#           mplstp_ipv6_channel_type
#           mplstp_fault_oam_channel_type
#           mplstp_g8113_channel_type
#mplstp_g8113_channel_type=0x8902
#mplstp_fault_oam_channel_type=0x5678

# Use BFD MPLS TP
#bfd_encapsulation_mode=1

# Use 1711 protocol
#custom_feature_y1711_enabled=1

# OAM DMA threshold
#oamp_fifo_dma_event_interface_enable=1
#oamp_fifo_dma_event_interface_timeout=0
#oamp_fifo_dma_event_interface_buffer_size=0x1000
#oamp_fifo_dma_event_interface_threshold=10

# PORT BASED PWE TERMINATION
#pwe_termination_port_mode_enable =1
```

Walk around for Inlif data Errata, for GAL packets, lookup mpls table with valid mpls label
it's not offical solution, just for some dedicated customer.
offical solution will be PMF. please refer the relevant doc.
#custom_feature_gal_lookup_exactly=1

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-dcmn.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: fabric.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fabric.h
No license file was found, but licenses were detected in source scan.

$Id: BCM953022K.bcm,v 1.2 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

pbmp_valid.0=0x00000103
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM958522ER.bcm
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_frwrd_mact.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/***
*
* FILENAME: DuneDriver/ppc/src/soc_ppc_api_frwrd_mact.c
*
* MODULE PREFIX: soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement

* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_mact.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: time.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Time - Broadcom Time BroadSync API (Caladan3).
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/time.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_defs_issu_test.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fp_vo.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/voyager/fp_vo.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_defines_fields.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_defines_hw_entities.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dbal/dbal_defines_tables.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dbal/dbal_defines_hw_entities.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dbal/dbal_defines_fields.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_defines_tables.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0BEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0BEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh_pkt.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bhh_pkt.h
* Purpose:    BHH Packet Format definitions
*             common to SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bhh_pkt.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_main.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_main.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_extender_mapping.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_port_extender_mapping.c
* Purpose: An example of the port extender mapping.
*        The following CINT provides a calling sequence example to set ingress PP port mapping via user define value.
*
* Calling sequence:
*
*  1. Add the following port configureations to config-sand.bcm
*       field_class_id_size_0.BCM88650=16
*       field_class_id_size_2.BCM88650=16
*       ucode_port_1.BCM88650=10GBase-R13.0
*       ucode_port_2.BCM88650=10GBase-R13.1
*       ucode_port_3.BCM88650=10GBase-R14.0
*       ucode_port_4.BCM88650=10GBase-R14.1
*       ucode_port_5.BCM88650=10GBase-R15
*       custom_feature_vendor_custom_np_port_1=1
*       custom_feature_vendor_custom_np_port_2=1
*       custom_feature_vendor_custom_np_port_3=1
*       custom_feature_vendor_custom_np_port_4=1
*  2. Map the source board and souce port to in pp port.
*       - call bcm_port_extender_mapping_info_set()
*  3. Set the source board and source port which is stamped into eNPHeader.
*       - call bcm_port_class_set() with bcmPortClassProgramEditorEgressPacketProcessing
*  4. Set the system port of the in pp port
*       - call bcm_stk_sysport_gport_set()
*  5. Create service VLAN.
*       - call bcm_vlan_create()
*  6. Add pp ports and physical port into VLAN.
*       - call bcm_vlan_port_add()
```

```
*  7. Add a FG to stamp SB, SP to user-header-1.
*       - call bcm_field_group_config_create()
*
* Service Model:
*    Source board + souce port <----> NP PP port   <---VLAN 100---> PHY port
*          1         +           1  <----->    1        <--------------->  5
*          1         +           2  <----->    2        <--------------->  5
*
* Traffic:
*  1. PHY port 5 <-> VLAN 100 <-> NP port 1 (source board 1, source port 1)
*       - From PHY port:
*            -   ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:02
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From NP port:
*            -   eNPHeader 8000883030288000000000
*            -   ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*
*  2. NP port 1 (source board 1, source port 1) <-> VLAN 100 <-> PHY port 5
*       - From NP port:
*            -   iNPHeader 000000000000010100000000
*            -   ethernet header with DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From NNI port:
*            -   ethernet header with any DA 00:00:00:00:00:02, SA 00:00:00:00:00:01
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*
*  3. NP port 2 (source board 1, source port 2) <-> VLAN 100 <-> PHY port 5
*       - From NP port:
*            -   iNPHeader 000000000000010100000000
*            -   ethernet header with DA 00:00:00:00:00:03, SA 00:00:00:00:00:01
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*       - From NNI port:
*            -   ethernet header with any DA 00:00:00:00:00:03, SA 00:00:00:00:00:01
*            -   VLAN tag: VLAN tag type 0x8100, VID = 100
*
* Service Model:
*    Source board + souce port <----> NP PP port   <---VLAN 200---> Source board + souce port <----> NP PP port
*          1         +           1  <----->    1        <--------------->       2         +           1  <----->    3
*
* Traffic:
*  1. NP port 3 (source board 2, source port 1) <-> VLAN 200 <-> NP port 1 (source board 1, source port 1)
*       - From NP port:
*            -   iNPHeader 000000000000010200000000
*            -   ethernet header with DA 00:00:00:00:00:01, SA 00:00:00:00:00:04
*            -   VLAN tag: VLAN tag type 0x8100, VID = 200
*       - From NNI port:
*            -   eNPHeader 8000883030288000000000
```

```
*           -   ethernet header with any DA 00:00:00:00:00:01, SA 00:00:00:00:00:04
*           -   VLAN tag: VLAN tag type 0x8100, VID = 200
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_extender_mapping.c
*     BCM> cint
*     cint> port_extender_udf_mapping_np_info_init(0, 1, 1, 1);
*     cint> port_extender_udf_mapping_np_info_init(1, 1, 2, 2);
*     cint> port_extender_udf_mapping_np_info_init(1, 2, 1, 3);
*     cint> port_extender_udf_mapping_np_info_init(1, 2, 2, 4);
*     cint> port_extender_udf_phy_port_vlan_init(100, 200, 5);
*     cint> port_extender_udf_service(0);
*     cint> port_extender_udf_udh_define_field(0);
*     cint> port_extender_udf_udh_add_entry(0, 3, 2, 1);;
*     cint> port_extender_udf_service_clean_up(0);
* To remove a entry
*     cint> bcm_field_entry_remove(0, entry1);
*     cint> bcm_field_entry_destroy(0, entry1);
* To remove a FG
*     cint> bcm_field_group_destroy(0, udh_group.group);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_extender_mapping.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: jer.soc,v 1.90 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

debug info
debug appl rcload warn
debug appl symtab warn
debug bcm rx,tx,link,attach warn
debug soc tests warn
debug soc rx,phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,ddr warn
debug soc common err
debug sys verinet warn
debug soc physim warn

if $?QMX_A0 || $?BCM88370_A0 || $?BCM88371_A0 || $?BCM88371M_A0 || $?BCM88375_A0 ||
$?BCM88376_A0 || $?BCM88376M_A0 || $?BCM88377_A0 || $?BCM88378_A0 || $?BCM88379_A0 || \
  $?QMX_A1 || $?BCM88370_A1 || $?BCM88371_A1 || $?BCM88371M_A1 || $?BCM88375_A1 ||
$?BCM88376_A1 || $?BCM88376M_A1 || $?BCM88377_A1 || $?BCM88378_A1 || $?BCM88379_A1 ||\
```

```
  $?QMX_B0 || $?BCM88370_B0 || $?BCM88371_B0 || $?BCM88371M_B0 || $?BCM88375_B0 ||
$?BCM88376_B0 || $?BCM88376M_B0 || $?BCM88377_B0 || $?BCM88378_B0 || $?BCM88379_B0  \
  'local QMX 1'
if $?JERICHO_A0 || $?BCM88670_A0 || $?BCM88671_A0 || $?BCM88671M_A0 || $?BCM88672_A0 ||
$?BCM88673_A0 || $?BCM88674_A0 || $?BCM88675_A0 || $?BCM88675M_A0 || $?BCM88676_A0 ||
$?BCM88676M_A0 || $?BCM88678_A0 || $?BCM88679_A0 || \
  $?JERICHO_A1 || $?BCM88670_A1 || $?BCM88671_A1 || $?BCM88671M_A1 || $?BCM88672_A1 ||
$?BCM88673_A1 || $?BCM88674_A1 || $?BCM88675_A1 || $?BCM88675M_A1 || $?BCM88676_A1 ||
$?BCM88676M_A1 || $?BCM88678_A1 || $?BCM88679_A1 || \
  $?JERICHO_B0 || $?BCM88670_B0 || $?BCM88671_B0 || $?BCM88671M_B0 || $?BCM88672_B0 ||
$?BCM88673_B0 || $?BCM88674_B0 || $?BCM88675_B0 || $?BCM88675M_B0 || $?BCM88676_B0 ||
$?BCM88676M_B0 || $?BCM88678_B0 || $?BCM88679_B0 \
  'local JERICHO 1'
if $?BCM88680_A0 ||  $?BCM88681_A0 ||  $?BCM88682_A0 || $?BCM88683_A0 ||  $?BCM88380_A0 ||
$?BCM88381_A0 \
  'local JERPLUS 1'

if $?QMX \
   'rcload bcm88375_board.soc'
if $?JERICHO \
   'rcload bcm88675_board.soc'

if $?JERPLUS \
   'rcload bcm88680_board.soc'

# Load DRAM tuning properties from local File. RcLoad will not fail if file not found, and will not show errors of
missing file.
set RCError=off
debug appl shell warn
if $?QMX \
   'rcload /home/negev/bcm88375_dram_tune.soc'

if $?JERICHO \
   'rcload /home/negev/bcm88675_dram_tune.soc'

if $?JERPLUS \
   'rcload /home/negev/bcm88680_dram_tune.soc'


debug appl shell =
set RCError=on

set RCError=off
rcload combo28_dram.soc
set RCError=on

#Set fabric connect mode as FE for multi FAP system
if $?diag_chassis '' \
```

```
  config add fabric_connect_mode.BCM88675=FE; \
  config add fabric_connect_mode.BCM88680=FE; "

# Set modid:
# If diag_chassis is enabled (two line cards), and 'slot' is defined (slot is defined only when
# working without a management card - set modid to be 'slot'
# Otherwise (single line card, or management card), set modid to be 0 for unit 0, and 1 for unit != 0
if $?diag_chassis && $?slot "\
 local modid $slot" \
else "\
 local modid $unit"
expr $modid+0 == 1; if $? "local modid 2"

if $?module_id " \
 local modid $module_id"

echo "$unit: modid=$modid"

# Set base_modid:
# Id base_module_id is set, then set base_modid to have base_module_id value.
# Otherwise, set base_modid to be 0.
if $?base_module_id " \
 local base_modid $base_module_id" \
else " \
 local base_modid 0"

expr $base_modid > 0
if $? " \
 echo '$unit: base_modid=$base_modid'"

if $?diag_chassis " \
 local nof_devices 2" \
else "\
 local nof_devices 1"

if $?n_devices " \
 local nof_devices $n_devices"

expr $nof_devices > 1
if $? " \
 echo '$unit: nof_devices=$nof_devices'"

if $?mng_cpu " \
 echo '$unit:management card - polling is set on'; \
 config add polled_irq_mode.BCM88675=1; \
 config add schan_intr_enable.BCM88675=0; \
 config add tdma_intr_enable.BCM88675=0; \
 config add tslam_intr_enable.BCM88675=0; \
```

```
 config add miim_intr_enable.BCM88675=0; "

#Counters unavailable in cmodel
if $?cmodel " \
 config add counter_engine_sampling_interval=0;"

#default values in a case which these parameters are not exist
if !$?diag_cosq_disable "\
 local diag_cosq_disable 0"
if !$?warmboot "\
 local warmboot 0"
if !$?diag_disable "\
 local diag_disable 0"
if !$?diag_no_itmh_prog_mode "\
 local diag_no_itmh_prog_mode 0"
if !$?l2_mode "\
 local l2_mode 0"

local init_others NoLinkscan=0
if $?JERPLUS "\
 local init_others 'NoApplStk=0'"

#Disable interrupts in cmodel
if $?cmodel "\
 local no_intr 1" \
else "\
 local no_intr 0"

INIT_DNX ModID=$modid NofDevices=$nof_devices CosqDisable=$diag_cosq_disable NoAppl=$diag_disable
Warmboot=$warmboot NoRxLos=1 $init_others NoItmhProgMode=$diag_no_itmh_prog_mode
L2Mode=$l2_mode NoIntr=$no_intr

#LED support section start
#Program of LED0
local ledcode_0 '02 05 67 2D 02 01 67 2D 02 11 67 2D 02 09 67 2D\
02 15 67 2D 02 0D 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex

#Program of LED1
local ledcode_1 '02 1D 67 2D 02 2D 67 2D 02 05 67 2D 02 0D 67 2D\
02 09 67 2D 02 01 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex
```

```
#Program of LED2
local ledcode_2 '02 01 67 2D 02 09 67 2D 02 0D 67 2D 02 05 67 2D\
02 2D 67 2D 02 1D 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex

# Download LED code into LED processors and enable (if applicable).
if $?feature_led_proc && !$?simulator \
   "led 0 prog $ledcode_0; \
    led 1 prog $ledcode_1; \
    led 2 prog $ledcode_2; \
    led auto on; \
    led 0 start; \
    led 1 start; \
    led 2 start"


echo "jer.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/jer.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.89 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: cosq common interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nsgmac2reg.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Gigabit Ethernet MAC (Unimac) core registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/nsgmac2reg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag-nsa.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/socdiag-nsa.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_interrupts.c,v 1.28 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC ARAD INTERRUPT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_interrupts.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    eth_lm_dm.h
* Purpose: ETH_LM_DM definitions common to SDK and uKernel
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/eth_lm_dm.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dnx_multicast_imp.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_trap.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:cmodel_reg_access.h,v 1.312 Broadcom SDK $                                    $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/cmodel/cmodel_reg_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_drv.h,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DRV H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tsce_diagnostics.c,v 1.1.2.8 Broadcom SDK $
*
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier2/tsce_diagnostics.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pon_vlan_range.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_vlan_range.c
* Purpose: An example of how to match incoming VLAN using VLAN range of PON application.
* The following CINT provides a calling sequence example to set VLAN range of port to match incoming VLAN and bring up one main PON services 1:1 Model.
* ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers 0-7).
* Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service (ONU), and class of service.
* Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link Identification (LLID), i.e., service or ONU#.
* We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is prepended to the VLAN-Tag stack (as the outermost tag).
* Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
* When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
* When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
* 1. Add the following port configureations to config-sand.bcm
* ucode_port_129.BCM88650=10GBase-R15
* ucode_port_5.BCM88650=10GBase-R14
* 2. Add the following PON application enabling configureations to config-sand.bcm
* pon_application_support_enabled_5.BCM88650=TRUE
* vlan_match_criteria_mode=PON_PCP_ETHERTYPE
* 3. Set PON port and NNI port to recognize single stag, single ctag and s_c_tag frames.
* - call port_tpid_init()
* - call bcm_port_tpid_add()
* 4. Remove Ports from VLAN 1.
* - call bcm_vlan_gport_delete_all()
* 5. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).

```
*       - call bcm_port_vlan_member_set()
*  6. Enable additional port tunnel lookup in PON ports.
*       - call bcm_vlan_control_port_set()
*
* 1:1 Service:
* Set up sequence:
*  1. Add VLAN range info to PON port
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*  2. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN
*  3. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  4. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  5. Add VLAN range info to NNI port
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed
*  6. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  7. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete VLAN range info from PON port
*       - Call bcm_vlan_translate_action_range_delete()
*  3. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Delete VLAN range info from NNI port
*       - Call bcm_vlan_translate_action_range_delete()
*  4. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
* 1:1 Service:
*    N(1) PON Port 5  <----------------------------  CrossConnect  ------------> 1 NNI Port 129
*    Tunnel-ID 1000 SVLAN range 10~20  <----------------------------------------> SVLAN range 30~40
*    Tunnel-ID 1000 SVLAN range 50~60 CVLAN range 70~80 <------------------------> SVLAN range 90~100
CVLAN range 110~120
*
* Traffic within VLAN range:
*  1. PON Port 5 Tunnel-ID 1000 SVLAN range 10~20 <-CrossConnect-> NNI Port 129 SVLAN range 30~40
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
```

```
*           - VLAN tag: VLAN tag type 0x8100, VID = 10
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
*           - VLAN tag: VLAN tag type 0x8100, VID = 15
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 35
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
*           - VLAN tag: VLAN tag type 0x8100, VID = 20
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 40
*
*  2. PON Port 5 Tunnel-ID 1000 SVLAN range 50~60 CVLAN range 70~80 <-CrossConnect-> NNI Port 129
SVLAN range 90~100 CVLAN range 110~120
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
*           - VLAN tag: VLAN tag type 0x8100, VID = 50, VLAN tag type 0x9100, VID = 70
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 90, VLAN tag type 0x9100, VID = 110
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
*           - VLAN tag: VLAN tag type 0x8100, VID = 55, VLAN tag type 0x9100, VID = 75
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 95, VLAN tag type 0x9100, VID = 115
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
*           - VLAN tag: VLAN tag type 0x8100, VID = 60, VLAN tag type 0x9100, VID = 80
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 100,VLAN tag type 0x9100, VID = 120
*
* Traffic out of VLAN range, can't be matched. All are dropped:
*  1. PON Port 5 Tunnel-ID 1000 SVLAN range 10~20 <-CrossConnect-> NNI Port 129 SVLAN range 30~40
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1000
```

```
*           -   VLAN tag: VLAN tag type 0x8100, VID = 5
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 25
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 25
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 45
*
*  2. PON Port 5 Tunnel-ID 1000 SVLAN range 50~60 CVLAN range 70~80 <-CrossConnect-> NNI Port 129
SVLAN range 90~100 CVLAN range 110~120
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 45, VLAN tag type 0x9100, VID = 70
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 85, VLAN tag type 0x9100, VID = 110
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 50, VLAN tag type 0x9100, VID = 65
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 90, VLAN tag type 0x9100, VID = 105
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 45, VLAN tag type 0x9100, VID = 65
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 85, VLAN tag type 0x9100, VID = 105
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_pon_utils.c
*     BCM> cint examples/dpp/cint_pon_vlan_range.c
*     BCM> cint
*     cint> pon_vlan_range_init(unit, pon_port, nni_port);
*     cint> pon_vlan_range_1_1_service(unit);
*     cint> pon_vlan_range_1_1_service_cleanup(unit);
*
* To Test VLAN Range Settings Only Run:
*     cint> pon_vlan_range_action_add(unit, is_pon, index);
*     cint> pon_vlan_range_action_get(unit, is_pon, index);
```

```
*      cint> pon_vlan_range_action_delete(unit, is_pon, index);
*      cint> pon_vlan_range_action_delete_all(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_vlan_range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     SOC DMA LLC (Link Layer) driver; used for sending
*              and receiving packets over PCI (and later, the uplink).
*
* NOTE:  DV chains are different than hardware chains. The hardware
* chain bit is used to keep DMA going through multiple packets.
* This corresponds to the sequence of DCBs (and usually multiple
* packets) of one DV.  DVs are chained in a linked list in software.
* The dv->dv_chain member (and dv_chain parameters) implement this
* linked list.
*   To improve the performance of packets receiving, we introduced the
* method to mitigate descriptor done interrupts. When we detect the
* packet storm is coming, we will disable descriptor done interrupt and
* simultaneously start the monitor timer which will reenable the disabled
* interrupt while storm is stopped.
*
* Starting with CMICDv2 devices, the DCB reload support has been
* improved to allow DCB chains to be appended safely without
* stopping the DMA channel. This feature is called Continuous
* DMA mode and works like this: When initially added, each DCB
* chain will end with a reload DCB pointing to itself. To
* prevent it from reloading over and over, a new CMIC DMA HALT
* register is programmed with the address of the reload DCB. The
* DMA process will suspend itself when the DCB at the HALT
* address is reached. When a new DCB chain is added, the
* previous reload DCB is updated with the address of the new DCB
* chain. If the DMA process has already been suspended when the
* new DCB chain is added, it will automatically resume when the
* HALT register is updated with the address of the reload DCB at
* the end of the new DCB chain. The major difference between
* reload and non-reload mode is that in reload mode, the last DCB
* chain cannot be discarded (freed) when processing is done because
* the reload DCB is needed until the next DCB chain is started.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/dma.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: merlin16.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.181 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Tracks and manages IPMC tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/port.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vulcan/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/lotus/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueParamEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQueueParamEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ports.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ports.c
*
* MODULE PREFIX:  soc_tmcports
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* socdiag debug commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/debug.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif.h,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_lif.h
*
* MODULE PREFIX:  soc_ppc_api_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_lif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_qos.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: QOS warmboot APIs
*
* Purpose:
*     QOS API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_qos.c

No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_petra_pp_api.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_petra_pp_api.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: hash.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: hash.c
* Purpose: Katana2 hash table calculation routines
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/katana2/hash.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwFetchValidEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchValidEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: pae.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains pae definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/robo/pae.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brg.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     brg.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/brg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memory.c,v 1.90 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Tests implemented via S-Channel table read/write.
* These are especially useful for memories without BIST (e.g. QVLAN).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/memory.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_property.h,v 1.8.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON PROPERTY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_property.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_mem_access_callback.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_mem_access_callback.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_mem_access_callback.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implement CallBacks function for RAMON interrupts.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: common_drv.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC NIF COMMON DRV H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/NIF/common_drv.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: rate.c,v 1.77 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Rate - Broadcom StrataSwitch Rate Limiting API.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/rate.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_diagnostics.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_diagnostics.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84756.c,v 1.25 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_oam_statistics.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$3
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_oam_statistics.c

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  eagle2_tsc2pll_functions.c                              *
*  Created On    :  29/04/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: eagle2_tsc2pll_functions.c 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry point (the root) for the entire SDK global
*       sw state.
*       if we look at the sw state as a tree, then the root lies at shr_sw_state_t,
*       it's main branches (module's entry points) are defined here inside this file.
*       and it continue to expand in the specific module's .h files (which are
*       the files in shared/swstate/sw_state_includes.h)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56560_b0.c
* Purpose:     bcm56560_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56560_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_traffic_mgmt.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: eagle_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : eagle_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_multicast.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaNextPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaNextPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log Sinks
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bslsink.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
** ==========================================================================
** == glue.h -  Lower level OS specific glue layer for Sandburst devices ==
** ==========================================================================
**
```

```
** WORKING REVISION: $Id: glue_dma.h,v 1.3 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** MODULE NAME:
**
**     glue_p.h
**
** ABSTRACT:
**
**     Private glue header file.  This file will most likely be unecessary once
** simserver learning interfaces with the QE_NIC driver.
**
** LANGUAGE:
**
**     C
**
** AUTHORS:
**
**     Sean Campbell
**
** CREATION DATE:
**
**     07-Dec-2004
**
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/glue_dma.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_trace.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_trace.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_trace.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_preempt.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_preempt.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fap21v_acc_fcr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_fcr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: stat.h,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains STAT definitions internal to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/stat.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmdiag_common.c,v 1.1.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_common.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: rx.c,v 1.24 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* DFE RX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.h,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains Mirroring definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pscan.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/pscan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_patch_database.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dcmn_patch_database.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/dcmn_patch_database.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_device.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_device.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54616.c
* Purpose:     PHY driver for BCM54616 and BCM54616S
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54616.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_lif_table.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_lif_table.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: extender.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    extender.c
* Purpose: Implements Port Extension APIs for Triumph3.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/extender.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_ingress_packet_queuing.h,v 1.7 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_ingress_packet_queuing.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcipq
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ingress_traffic_mgmt.c,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/rate.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COSQ CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/cosq.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: ocm_cint.stg,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from $SDK/caladan_ucode/g3p1/src/g3p1_ocm_cfg.lrp
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_ocm_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_intr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmext.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cmext.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: tefmod16_enum_defines.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------------
* Description: This file contains enums, elems and doxyten comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier1/tefmod16_enum_defines.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ofp_rates.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hal_pt_auto.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Common definitions for Petronius (BME3200)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_pt_auto.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trie.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* trie data structure
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/trie_v6.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/alloc.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
```

```
*                                                                    *
*  Revision      :  $Id: eagle_tsc_dependencies.h 898 2015-02-04 23:22:17Z eroes $ *
*                                                                    *
*  Description   :  API Dependencies to be provided by IP user                    *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgs5.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgs5.h
* Purpose:     Definitions for XGS5 systems.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/xgs5.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: types.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       types.h
* Purpose:
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_ep_flexport.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_ep_flexport.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_links.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC LINKS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_links.h
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: xfi_10g.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : xfi_10g.soc
# * Description: xfi_10g
# *-----------------------------------------------------------------------*/
```

```
# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
phy raw sbus $port 0.0 0x9010 0x0000

sleep 1
phy raw sbus $port 0.0 0x9010 0x0003
phy raw sbus $port 0.0 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.0 0xc010 0x0000
phy raw sbus $port 0.0 0xc010 0x0003
phy raw sbus $port 0.0 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.0 0xd081 0x0002
phy raw sbus $port 1.0 0xd081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.0 0xd0f4 0x2271
phy raw sbus $port 1.0 0xd0f4


# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.0 0xd080 0x8000
phy raw sbus $port 1.0 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x000a
phy raw sbus $port 1.0 0xd127


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
```

```
reg_data=0x2

phy raw sbus $port 0.0 0xc113 0x01ca
phy raw sbus $port 0.0 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.0 0xc113 0x01cb
phy raw sbus $port 0.0 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.0 0xc050 0x001c
phy raw sbus $port 0.0 0xc050

phy raw sbus $port 0.0 0xc050 0x011c
phy raw sbus $port 0.0 0xc050

sleep 1;
phy raw sbus $port 0.0 0xc154

# PMD LOOPBACK
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 1.0 0xd0d2
#phy raw sbus 0xaf 0.0 0xc154 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_10g.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_ptg.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_ptg.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*                                                                              *
*  Revision    :  $Id: merlin_quadra28_interface.h 942 2015-03-02 22:28:21Z jgaither $   *
*                                                                              *
*  Description :  Interface functions targeted to IP user                      *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                 *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/merlin_quadra28/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* merlin_quadra28_interface.h - provides the primary functionality.
```

*
* merlin_quadra28_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_interface.h
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: alpm.c$
* File: alpm_common.c
* Purpose: ALPM common code.
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/alpm/alpm_cmn.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: soc_dcmn_mem_cache.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implement soc cache memories.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_mem_cache.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsPriAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaQsPriAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_tgs.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_tgs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWdtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWdtEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwWdtEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ctrans.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ctrans.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/ctrans.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_cmu_sim.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* g3p1_cmu_sim.h: Guadalupe2k V1.3 CMU counter access
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_cmu_sim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_chassis_nolb.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_chassis_nolb.c
* Purpose:     XGS2/XGS3 Chassis Non-load-balanced board programming
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_chassis_nolb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam.c,v 1.145 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/oam.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: srds_api_uc_common.h 977 2015-03-19 02:24:29Z kirand $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
```

```
*     5300 California Avenue                                    *
*     Irvine, CA  92617                                         *
*                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                               *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_fap.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_tm_fap.c
* Purpose:     Example of simple E2E scheduler configuration where resource management is by SDK
*
* The example creates four HR schedulers and four voq connector groups for four ports.
*
* The settings include:
*  o    Example delay tolerance configuration.
*  o    Set module ID and enable traffic.
*  o    Set up the association between system ports and gports.
*  o    Create Scheduling hierarchy shown in Figure 4a. The setup is by specifying
BCM_COSQ_GPORT_WITH_ID flag.
*  o    Set bandwidth limitation of 500 Mbps on scheduler.
*
*
*   ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
*   | creates 4 HR scheduler and 4 voq connector group for 4 ports  |
*   |                                                               |
*   |     E2E Hierarchy is as follows for sample port:              |
*   |                                                               |
*   |                system port 10 maps to                         |
*   |                        |                                      |
*   |    EGRESS              port (1-4)                             |
*   |                        |                                      |
*   |       HR scheduler for port 1 created during soc init         |
*   |                        |                                      |
*   |                    HR scheduler                               |
*   |                        |                                      |
*   |                    SP0  SP1  SP2  SP4    no WFQ               |
```

```
*   |    INGRESS                                    |
*   |                  connector group                    |
*   |                 |   |   |   |                   |
*   |                 cos0 cos1  cos2 cos3                 |
*   |              voq  8    9    10   11                  |
*   |                                              |
*   |       +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+         |
*   |       |  Figure 4a: Simple Scheduling Scheme    |         |
*   |       |       Resource allocation by SDK       |         |
*   ~~~~~~~~~~~~~~~~~~~
```

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_exact_match.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_exact_match.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_diag.h,v 1.2.12.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvramstubs.c,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/nvramstubs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lm.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/lm.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mpls.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Manages MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/mpls.c
No license file was found, but licenses were detected in source scan.

```
# $Id: esanity.soc,v 1.28 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
# Run "esanity full" to perform full esanity version which checks EVERY
# entry in the L2 and DEFIP external tables in tr 50, 51, and 52
#

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

if $?BCM56601_A0 || $?BCM56601_B0 || $?BCM56601_C0 'local ge_mode 1'
if $?BCM56601_C0 || $?BCM56602_C0 'local vlan_range_tbl 1'

# Avoid link messages while testing
linkscan off

# Use expected COS configuration for test
#config add bcm_num_cos=4

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
```

```
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

# Sort out which memories exist in this configuration

if !$?seer_ext_table_cfg "local seer_ext_table_cfg 0"
if !$?seer_host_hash_table_cfg "local seer_host_hash_table_cfg 2"
if !$?seer_mvl_hash_table_cfg "local seer_mvl_hash_table_cfg 1"


local fp_test_count 0;
```

```
local defip_test_count 0;
local defip_test_start0 0; local defip_test_start1 0; local defip_test_start2 0;
local defip_test_start3 0; local defip_test_start4 0; local defip_test_start5 0;
local defip_test_start6 0; local defip_test_start7 0;

local l2ext_test_count 0;
local l2ext_test_start0 0; local l2ext_test_start1 0; local l2ext_test_start2 0;
local l2ext_test_start3 0; local l2ext_test_start4 0; local l2ext_test_start5 0;
local l2ext_test_start6 0; local l2ext_test_start7 0;

case $seer_ext_table_cfg \
    0 "local l3_defip_alg 1; local next_hop_int 1" \
    1 "local l3_defip_alg 1; local next_hop_int 1; \
        local l2_entry_external 1; \
        local l2ext_test_count 65536; \
        local l2ext_test_start0 0x00000; local l2ext_test_start1 0x10000; \
        local l2ext_test_start2 0x20000; local l2ext_test_start3 0x30000; \
        local l2ext_test_start4 0x40000; local l2ext_test_start5 0x50000; \
        local l2ext_test_start6 0x60000; local l2ext_test_start7 0x70000" \
    2 "local l3_defip_alg 1; local next_hop_ext 1; \
        local defip_test_count 65536; \
        local defip_test_start0 0x00000; local defip_test_start1 0x10000; \
        local defip_test_start2 0x20000; local defip_test_start3 0x30000; \
        local defip_test_start4 0x40000; local defip_test_start5 0x50000; \
        local defip_test_start6 0x60000; local defip_test_start7 0x70000" \
    3 "local l3_defip_alg 1; local next_hop_int 1; local fp_external 1; \
        local fp_tcam_external 1; local fp_policy_table_external 1; \
        local fp_meter_table_ext 1; local fp_counter_ext 1" \
    4 "local l3_defip_alg 1; local next_hop_int 1; local fp_external 1; \
        local fp_tcam_external 1; local fp_policy_table_external 1; \
        local fp_meter_table_ext 1; local fp_counter_ext 1" \
    5 "local l3_defip_cam 1; local l3_defip_tcam 1; \
        local l3_defip_data 1; local next_hop_ext 1; \
        local fp_external 1;  local fp_tcam_external 1; \
        local fp_policy_table_external 1; \
        local fp_meter_table_ext 1; local fp_counter_ext 1" \
    6 "local l3_defip_cam 1; local l3_defip_tcam 1; \
        local l3_defip_data 1; local next_hop_ext 1; \
        local fp_external 1; local fp_tcam_external 1; \
        local fp_policy_table_external 1; \
        local fp_meter_table_ext 1; local fp_counter_ext 1" \
    7 "local l3_defip_cam 1; local l3_defip_tcam 1; \
        local l3_defip_data 1; local next_hop_ext 1; \
        local fp_external 1; local fp_tcam_external 1; \
        local fp_policy_table_external 1; \
        local fp_meter_table_ext 1; local fp_counter_ext 1; \
        local fp_test_count 32768; local defip_test_count 32768; \
        local defip_test_start0 0x00000; local defip_test_start1 0x08000; \
```

```
            local defip_test_start2 0x10000; local defip_test_start3 0x18000" \
        8 "local l3_defip_cam 1; local l3_defip_tcam 1; \
            local l3_defip_data 1; local next_hop_ext 1; \
            local fp_external 1; local fp_tcam_external 1; \
            local fp_policy_table_external 1; \
            local fp_meter_table_ext 1; local fp_counter_ext 1; \
            local fp_test_count 16384; local defip_test_count 49152; \
            local defip_test_start0 0x00000; local defip_test_start1 0x0c000; \
            local defip_test_start2 0x18000; local defip_test_start3 0x24000" \
        9 "local l3_defip_cam 1; local l3_defip_tcam 1; \
            local l3_defip_data 1; local next_hop_ext 1;" \
        10 "local l3_defip_cam 1; local l3_defip_tcam 1; \
            local l3_defip_data 1; local next_hop_ext 1;" \
        * "local l3_defip_alg 1; local next_hop_int 1"

    case $seer_host_hash_table_cfg \
        0 "local l2_entry_internal 1" \
        1 "local l2_entry_internal 1; local l3_entry_v4 1" \
        3 "local l2_entry_internal 1; local l3_entry_v6 1" \
        6 "local l3_entry_v4 1" \
        7 "local l3_entry_v4 1; local l3_entry_v6 1" \
        8 "local l3_entry_v6 1" \
        * "local l2_entry_internal 1; local l3_entry_v4 1; local l3_entry_v6 1"

    case $seer_mvl_hash_table_cfg \
        0 "local vlan_mac 1" \
        2 "local my_station 1" \
        * "local vlan_mac 1; local my_station 1"

    init; init misc; init mmu;
    if !"expr $tcam_reset_toggle + 0" "muxsel 0; muxsel 0x80"
    if !"expr $seer_ext_tcam_select + 0" "init tcam"

    echo "Running Switching Memory tests ..."
    #echo "  BSAFE_CMD_DATA_IN";
    #tr 50 M=BSAFE_CMD_DATA_IN;
    #tr 51 M=BSAFE_CMD_DATA_IN;
    #tr 52 M=BSAFE_CMD_DATA_IN;
    #echo "  BSAFE_CMD_DATA_OUT";
    #tr 50 M=BSAFE_CMD_DATA_OUT;
    #tr 51 M=BSAFE_CMD_DATA_OUT;
    #tr 52 M=BSAFE_CMD_DATA_OUT;
    echo "  C0_CPU_RQ_DATA";
    tr 50 M=C0_CPU_RQ_DATA;
    tr 51 M=C0_CPU_RQ_DATA;
    tr 52 M=C0_CPU_RQ_DATA;
    echo "  C0_CPU_WQ_DATA";
    tr 50 M=C0_CPU_WQ_DATA;
```

```
tr 51 M=C0_CPU_WQ_DATA;
tr 52 M=C0_CPU_WQ_DATA;
echo "  C0_RQ_DATA";
tr 50 M=C0_RQ_DATA;
tr 51 M=C0_RQ_DATA;
tr 52 M=C0_RQ_DATA;

#echo "  C0_WQ_DATA";
#tr 50 M=C0_WQ_DATA;
#tr 51 M=C0_WQ_DATA;
#tr 52 M=C0_WQ_DATA;
echo "  C1_CPU_RQ_DATA";
tr 50 M=C1_CPU_RQ_DATA;
tr 51 M=C1_CPU_RQ_DATA;
tr 52 M=C1_CPU_RQ_DATA;
echo "  C1_CPU_WQ_DATA";
tr 50 M=C1_CPU_WQ_DATA;
tr 51 M=C1_CPU_WQ_DATA;
tr 52 M=C1_CPU_WQ_DATA;
echo "  C1_RQ_DATA";
tr 50 M=C1_RQ_DATA;
tr 51 M=C1_RQ_DATA;
tr 52 M=C1_RQ_DATA;

#echo "  C1_WQ_DATA";
#tr 50 M=C1_WQ_DATA;
#tr 51 M=C1_WQ_DATA;
#tr 52 M=C1_WQ_DATA;
echo "  DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
echo "  EGRESS_ADJACENT_MAC";
tr 50 M=EGRESS_ADJACENT_MAC;
tr 51 M=EGRESS_ADJACENT_MAC;
tr 52 M=EGRESS_ADJACENT_MAC;
echo "  EGRESS_DSCP_EXP";
tr 50 M=EGRESS_DSCP_EXP;
tr 51 M=EGRESS_DSCP_EXP;
tr 52 M=EGRESS_DSCP_EXP;
echo "  EGRESS_IP_TUNNEL";
tr 50 M=EGRESS_IP_TUNNEL;
tr 51 M=EGRESS_IP_TUNNEL;
tr 52 M=EGRESS_IP_TUNNEL;
echo "  EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
```

```
echo "  EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
if $?fp_counter_ext 'echo "  FP_COUNTER_EXT"; \
    tr 50 M=FP_COUNTER_EXT; \
    tr 51 M=FP_COUNTER_EXT; \
    tr 52 M=FP_COUNTER_EXT;'
echo "  FP_COUNTER_INT";
tr 50 M=FP_COUNTER_INT;
tr 51 M=FP_COUNTER_INT;
tr 52 M=FP_COUNTER_INT;
if $?fp_external 'echo "  FP_EXTERNAL"; \
    tr 50 M=FP_EXTERNAL; \
    tr 51 M=FP_EXTERNAL; \
    tr 52 M=FP_EXTERNAL;'
echo "  FP_INTERNAL";
tr 50 M=FP_INTERNAL;
tr 51 M=FP_INTERNAL;
tr 52 M=FP_INTERNAL;
if $?fp_meter_table_ext 'echo "  FP_METER_TABLE_EXT"; \
    tr 50 M=FP_METER_TABLE_EXT; \
    tr 51 M=FP_METER_TABLE_EXT; \
    tr 52 M=FP_METER_TABLE_EXT;'
echo "  FP_METER_TABLE_INT";
tr 50 M=FP_METER_TABLE_INT;
tr 51 M=FP_METER_TABLE_INT;
tr 52 M=FP_METER_TABLE_INT;
if $?fp_policy_table_external 'echo "  FP_POLICY_TABLE_EXTERNAL"; \
    tr 50 M=FP_POLICY_TABLE_EXTERNAL; \
    tr 51 M=FP_POLICY_TABLE_EXTERNAL; \
    tr 52 M=FP_POLICY_TABLE_EXTERNAL;'
echo "  FP_POLICY_TABLE_INTERNAL";
tr 50 M=FP_POLICY_TABLE_INTERNAL;
tr 51 M=FP_POLICY_TABLE_INTERNAL;
tr 52 M=FP_POLICY_TABLE_INTERNAL;
echo "  FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
echo "  FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
if $?fp_tcam_external 'echo "  FP_TCAM_EXTERNAL"; \
    tr 50 M=FP_TCAM_EXTERNAL; \
    tr 51 M=FP_TCAM_EXTERNAL; \
    tr 52 M=FP_TCAM_EXTERNAL;'
```

```
echo "  FP_TCAM_INTERNAL";
tr 50 M=FP_TCAM_INTERNAL;
tr 51 M=FP_TCAM_INTERNAL;
tr 52 M=FP_TCAM_INTERNAL;
echo "  FP_TCP_UDP_PORT_RANGE";
tr 50 M=FP_TCP_UDP_PORT_RANGE;
tr 51 M=FP_TCP_UDP_PORT_RANGE;
tr 52 M=FP_TCP_UDP_PORT_RANGE;
echo "  HG_PORT_TABLE";
tr 50 M=HG_PORT_TABLE;
echo "  IGR_VLAN_XLATE";
tr 50 M=IGR_VLAN_XLATE;
tr 51 M=IGR_VLAN_XLATE;
tr 52 M=IGR_VLAN_XLATE;
echo "  IPMC_GROUP_V4_SM";
tr 50 M=IPMC_GROUP_V4_SM;
tr 51 M=IPMC_GROUP_V4_SM;
tr 52 M=IPMC_GROUP_V4_SM;
echo "  IPMC_GROUP_V6_SM";
tr 50 M=IPMC_GROUP_V6_SM;
tr 51 M=IPMC_GROUP_V6_SM;
tr 52 M=IPMC_GROUP_V6_SM;
echo "  IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
echo "  L2MC_TABLE";
tr 50 M=L2MC_TABLE;
tr 51 M=L2MC_TABLE;
tr 52 M=L2MC_TABLE;
if !$?full_test \
   "local entry_cmd 'IE=16383'; \
    local iter_cmd 'ITER=4' "
if $?l2_entry_external 'echo "  L2_ENTRY_EXTERNAL"; \
       tr 50 M=L2_ENTRY_EXTERNAL $entry_cmd; \
       tr 51 M=L2_ENTRY_EXTERNAL $iter_cmd; \
       tr 52 M=L2_ENTRY_EXTERNAL $iter_cmd;'
if $?l2_entry_internal 'echo "  L2_ENTRY_INTERNAL"; \
       tr 50 M=L2_ENTRY_INTERNAL; \
       tr 51 M=L2_ENTRY_INTERNAL; \
       tr 52 M=L2_ENTRY_INTERNAL;'
echo "  L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
tr 51 M=L2_ENTRY_OVERFLOW;
tr 52 M=L2_ENTRY_OVERFLOW;
echo FIXME: L2_MOD_FIFO mem tests not working
#echo "  L2_MOD_FIFO";
#tr 50 M=L2_MOD_FIFO;
```

```
#tr 51 M=L2_MOD_FIFO;
#tr 52 M=L2_MOD_FIFO;
echo "  L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
echo "  L2_USER_ENTRY_DATA";
tr 50 M=L2_USER_ENTRY_DATA;
tr 51 M=L2_USER_ENTRY_DATA;
tr 52 M=L2_USER_ENTRY_DATA;
echo "  L2_USER_ENTRY_TCAM";
tr 50 M=L2_USER_ENTRY_TCAM;
tr 51 M=L2_USER_ENTRY_TCAM;
tr 52 M=L2_USER_ENTRY_TCAM;
echo "  L3_INTF_TABLE";
tr 50 M=L3_INTF_TABLE;
tr 51 M=L3_INTF_TABLE;
tr 52 M=L3_INTF_TABLE;
echo "  L3_INTF_EGR_FILTER_LIST";
tr 50 M=L3_INTF_EGR_FILTER_LIST;
tr 51 M=L3_INTF_EGR_FILTER_LIST;
tr 52 M=L3_INTF_EGR_FILTER_LIST;
echo "  L3_INTF_IGR_FILTER_LIST";
tr 50 M=L3_INTF_IGR_FILTER_LIST;
tr 51 M=L3_INTF_IGR_FILTER_LIST;
tr 52 M=L3_INTF_IGR_FILTER_LIST;
echo "  L3_INTF_QOS";
tr 50 M=L3_INTF_QOS;
tr 51 M=L3_INTF_QOS;
tr 52 M=L3_INTF_QOS;
if !$?full_test \
   "local entry_cmd 'IE=16383'; \
    local iter_cmd 'ITER=4' "
if $?l3_defip_alg 'echo "  L3_DEFIP_ALG"; \
       tr 50 M=L3_DEFIP_ALG $entry_cmd; \
       tr 51 M=L3_DEFIP_ALG $iter_cmd; \
       tr 52 M=L3_DEFIP_ALG $iter_cmd;'
if $?l3_defip_cam 'echo "  L3_DEFIP_CAM"; \
       tr 50 M=L3_DEFIP_CAM $entry_cmd; \
       tr 51 M=L3_DEFIP_CAM $iter_cmd; \
       tr 52 M=L3_DEFIP_CAM $iter_cmd;'
if $?l3_defip_data 'echo "  L3_DEFIP_DATA"; \
       tr 50 M=L3_DEFIP_DATA $entry_cmd; \
       tr 51 M=L3_DEFIP_DATA $iter_cmd; \
       tr 52 M=L3_DEFIP_DATA $iter_cmd;'
if $?l3_defip_tcam 'echo "  L3_DEFIP_TCAM"; \
       tr 50 M=L3_DEFIP_TCAM $entry_cmd; \
       tr 51 M=L3_DEFIP_TCAM $iter_cmd; \
```

```
    tr 52 M=L3_DEFIP_TCAM $iter_cmd;'
echo "  L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
echo "  L3_ENTRY_V4";
tr 50 M=L3_ENTRY_V4;
tr 51 M=L3_ENTRY_V4;
tr 52 M=L3_ENTRY_V4;
echo "  L3_ENTRY_V6";
tr 50 M=L3_ENTRY_V6;
tr 51 M=L3_ENTRY_V6;
tr 52 M=L3_ENTRY_V6;
echo "  L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
echo "  L3_DEFIP_HITBIT";
tr 50 M=L3_DEFIP_HITBIT;
tr 51 M=L3_DEFIP_HITBIT;
tr 52 M=L3_DEFIP_HITBIT;
echo "  L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
echo "  L3_TUNNEL_DATA";
tr 50 M=L3_TUNNEL_DATA;
tr 51 M=L3_TUNNEL_DATA;
tr 52 M=L3_TUNNEL_DATA;
echo "  L3_TUNNEL_TCAM";
tr 50 M=L3_TUNNEL_TCAM;
tr 51 M=L3_TUNNEL_TCAM;
tr 52 M=L3_TUNNEL_TCAM;
echo "  CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
echo "  CCPTR";
tr 50 M=CCPTR;
tr 51 M=CCPTR;
tr 52 M=CCPTR;
echo "  CELLPTRSWAP_00_HI";
tr 50 M=CELLPTRSWAP_00_HI;
tr 51 M=CELLPTRSWAP_00_HI;
tr 52 M=CELLPTRSWAP_00_HI;
echo "  CELLPTRSWAP_00_LO";
tr 50 M=CELLPTRSWAP_00_LO;
tr 51 M=CELLPTRSWAP_00_LO;
```

```
tr 52 M=CELLPTRSWAP_00_LO;
echo "  CELLPTRSWAP_01_HI";
tr 50 M=CELLPTRSWAP_01_HI;
tr 51 M=CELLPTRSWAP_01_HI;
tr 52 M=CELLPTRSWAP_01_HI;
echo "  CELLPTRSWAP_01_LO";
tr 50 M=CELLPTRSWAP_01_LO;
tr 51 M=CELLPTRSWAP_01_LO;
tr 52 M=CELLPTRSWAP_01_LO;
echo "  MMU_IBS";
tr 50 M=MMU_IBS;
tr 51 M=MMU_IBS;
tr 52 M=MMU_IBS;
echo "  MMU_INGPKTCELLLIMITIBP";
tr 50 M=MMU_INGPKTCELLLIMITIBP;
tr 51 M=MMU_INGPKTCELLLIMITIBP;
tr 52 M=MMU_INGPKTCELLLIMITIBP;
echo "  MMU_INGPKTCELLUSE";
tr 50 M=MMU_INGPKTCELLUSE;
tr 51 M=MMU_INGPKTCELLUSE;
tr 52 M=MMU_INGPKTCELLUSE;
echo "  MMU_IPMC_INDEX";
tr 50 M=MMU_IPMC_INDEX;
tr 51 M=MMU_IPMC_INDEX;
tr 52 M=MMU_IPMC_INDEX;
echo "  MMU_IPMC_PTR";
tr 50 M=MMU_IPMC_PTR;
tr 51 M=MMU_IPMC_PTR;
tr 52 M=MMU_IPMC_PTR;
echo "  MMU_IPMC_REP_10G";
tr 50 M=MMU_IPMC_REP_10G;
tr 51 M=MMU_IPMC_REP_10G;
tr 52 M=MMU_IPMC_REP_10G;
echo "  CFAP_CH0";
tr 50 M=CFAP_CH0;
tr 51 M=CFAP_CH0;
tr 52 M=CFAP_CH0;
echo "  CFAP_CH1";
tr 50 M=CFAP_CH1;
tr 51 M=CFAP_CH1;
tr 52 M=CFAP_CH1;
echo "  WQ_00_HI";
tr 50 M=WQ_00_HI;
tr 51 M=WQ_00_HI;
tr 52 M=WQ_00_HI;
echo "  MMU_WQ_00_LO";
tr 50 M=MMU_WQ_00_LO;
tr 51 M=MMU_WQ_00_LO;
```

```
tr 52 M=MMU_WQ_00_LO;
echo "  WQ_01_HI";
tr 50 M=WQ_01_HI;
tr 51 M=WQ_01_HI;
tr 52 M=WQ_01_HI;
echo "  WQ_01_LO";
tr 50 M=WQ_01_LO;
tr 51 M=WQ_01_LO;
tr 52 M=WQ_01_LO;
local xqrange 7
if $?ge_mode "local xqrange 11"
for xq=0,$xqrange  'echo "  XQ$xq"; tr 50 m=XQ$xq; tr 51 m=XQ$xq; tr 52 m=XQ$xq'
for xq=12,13       'echo "  XQ$xq"; tr 50 m=XQ$xq; tr 51 m=XQ$xq; tr 52 m=XQ$xq'
echo "  MPLS_EXP";
tr 50 M=MPLS_EXP;
tr 51 M=MPLS_EXP;
tr 52 M=MPLS_EXP;
if $?my_station 'echo "  MY_STATION"; \
      tr 50 M=MY_STATION; \
      tr 51 M=MY_STATION; \
      tr 52 M=MY_STATION;'
if $?next_hop_ext 'echo "  NEXT_HOP_EXT"; \
      tr 50 M=NEXT_HOP_EXT; \
      tr 51 M=NEXT_HOP_EXT; \
      tr 52 M=NEXT_HOP_EXT;'
if $?next_hop_int 'echo "  NEXT_HOP_INT"; \
      tr 50 M=NEXT_HOP_INT; \
      tr 51 M=NEXT_HOP_INT; \
      tr 52 M=NEXT_HOP_INT;'
echo "  PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
echo "  SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
echo "  VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
echo "  TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
echo "  PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
```

```
tr 52 M=PORT_TRUNK_EGRESS;
echo "  TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
echo "  UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
echo "  VFI_BITMAP";
tr 50 M=VFI_BITMAP;
tr 51 M=VFI_BITMAP;
tr 52 M=VFI_BITMAP;
if $?vlan_mac 'echo "  VLAN_MAC"; \
    tr 50 M=VLAN_MAC; \
    tr 51 M=VLAN_MAC; \
    tr 52 M=VLAN_MAC;'
echo "  VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
echo "  VLAN_SUBNET_DATA";
tr 50 M=VLAN_SUBNET_DATA;
tr 51 M=VLAN_SUBNET_DATA;
tr 52 M=VLAN_SUBNET_DATA;
echo "  VLAN_SUBNET_TCAM";
tr 50 M=VLAN_SUBNET_TCAM;
tr 51 M=VLAN_SUBNET_TCAM;
tr 52 M=VLAN_SUBNET_TCAM;
echo "  VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
echo "  VPLS_VC_LABEL";
tr 50 M=VPLS_VC_LABEL;
tr 51 M=VPLS_VC_LABEL;
tr 52 M=VPLS_VC_LABEL;
echo "  VRF_VFI_INTF";
tr 50 M=VRF_VFI_INTF;
tr 51 M=VRF_VFI_INTF;
tr 52 M=VRF_VFI_INTF;
if $?vlan_range_tbl 'echo "  IGR_VLAN_RANGE_TBL"; \
    tr 50 M=IGR_VLAN_RANGE_TBL; \
    tr 51 M=IGR_VLAN_RANGE_TBL; \
    tr 52 M=IGR_VLAN_RANGE_TBL; \
    echo "  TRUNK_VLAN_RANGE_IDX"; \
    tr 50 M=TRUNK_VLAN_RANGE_IDX; \
    tr 51 M=TRUNK_VLAN_RANGE_IDX; \
```

```
    tr 52 M=TRUNK_VLAN_RANGE_IDX; \
    echo "  VLAN_RANGE_IDX"; \
    tr 50 M=VLAN_RANGE_IDX; \
    tr 51 M=VLAN_RANGE_IDX; \
    tr 52 M=VLAN_RANGE_IDX;'
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
#echo "  BSAFE_CMD_DATA_IN"
#tr 71 M=BSAFE_CMD_DATA_IN S=0 C=0 TSE=F SLTH=T
#tr 71 M=BSAFE_CMD_DATA_IN S=0 C=0 TSE=T SLTH=T
#tr 71 M=BSAFE_CMD_DATA_IN S=0 C=0 TSE=T SLTH=F
#echo "  BSAFE_CMD_DATA_OUT"
#tr 71 M=BSAFE_CMD_DATA_OUT S=0 C=0 TSE=F SLTH=T
#tr 71 M=BSAFE_CMD_DATA_OUT S=0 C=0 TSE=T SLTH=T
#tr 71 M=BSAFE_CMD_DATA_OUT S=0 C=0 TSE=T SLTH=F
echo "  C0_CPU_RQ_DATA"
tr 71 M=C0_CPU_RQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C0_CPU_RQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C0_CPU_RQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  C0_CPU_WQ_DATA"
tr 71 M=C0_CPU_WQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C0_CPU_WQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C0_CPU_WQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  C0_RQ_DATA"
tr 71 M=C0_RQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C0_RQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C0_RQ_DATA S=0 C=0 TSE=T SLTH=F

#echo "  C0_WQ_DATA"
#tr 71 M=C0_WQ_DATA S=0 C=0 TSE=F SLTH=T
#tr 71 M=C0_WQ_DATA S=0 C=0 TSE=T SLTH=T
#tr 71 M=C0_WQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  C1_CPU_RQ_DATA"
tr 71 M=C1_CPU_RQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C1_CPU_RQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C1_CPU_RQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  C1_CPU_WQ_DATA"
tr 71 M=C1_CPU_WQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C1_CPU_WQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C1_CPU_WQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  C1_RQ_DATA"
tr 71 M=C1_RQ_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=C1_RQ_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=C1_RQ_DATA S=0 C=0 TSE=T SLTH=F

#echo "  C1_WQ_DATA"
```

```
#tr 71 M=C1_WQ_DATA S=0 C=0 TSE=F SLTH=T
#tr 71 M=C1_WQ_DATA S=0 C=0 TSE=T SLTH=T
#tr 71 M=C1_WQ_DATA S=0 C=0 TSE=T SLTH=F
echo "  DSCP_TABLE"
tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F
echo "  E2E_HOL_STATUS"
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F
echo "  EGRESS_ADJACENT_MAC"
tr 71 M=EGRESS_ADJACENT_MAC S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_ADJACENT_MAC S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_ADJACENT_MAC S=0 C=0 TSE=T SLTH=F
echo "  EGRESS_DSCP_EXP"
tr 71 M=EGRESS_DSCP_EXP S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_DSCP_EXP S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_DSCP_EXP S=0 C=0 TSE=T SLTH=F
echo "  EGRESS_IP_TUNNEL"
tr 71 M=EGRESS_IP_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_IP_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_IP_TUNNEL S=0 C=0 TSE=T SLTH=F
echo "  EGRESS_MASK"
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_XLATE"
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F
if $?fp_counter_ext 'echo "  FP_COUNTER_EXT"; \
    tr 71 M=FP_COUNTER_EXT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=FP_COUNTER_EXT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=FP_COUNTER_EXT S=0 C=0 TSE=T SLTH=F;'
echo "  FP_COUNTER_INT"
tr 71 M=FP_COUNTER_INT S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_COUNTER_INT S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_COUNTER_INT S=0 C=0 TSE=T SLTH=F
if $?fp_external 'echo "  FP_EXTERNAL"; \
    tr 71 M=FP_EXTERNAL S=0 C=$fp_test_count TSE=F SLTH=T; \
    tr 71 M=FP_EXTERNAL S=0 C=$fp_test_count TSE=T SLTH=T; \
    tr 71 M=FP_EXTERNAL S=0 C=$fp_test_count TSE=T SLTH=F; \
    tr 71 M=FP_EXTERNAL S=$fp_test_count C=$fp_test_count TSE=F SLTH=T; \
    tr 71 M=FP_EXTERNAL S=$fp_test_count C=$fp_test_count TSE=T SLTH=T; \
    tr 71 M=FP_EXTERNAL S=$fp_test_count C=$fp_test_count TSE=T SLTH=F;'
echo "  FP_INTERNAL"
tr 71 M=FP_INTERNAL S=0 C=0 TSE=F SLTH=T
```

```
tr 71 M=FP_INTERNAL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_INTERNAL S=0 C=0 TSE=T SLTH=F
if $?fp_meter_table_ext 'echo "  FP_METER_TABLE_EXT"; \
    tr 71 M=FP_METER_TABLE_EXT S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=FP_METER_TABLE_EXT S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=FP_METER_TABLE_EXT S=0 C=0 TSE=T SLTH=F;'
echo "  FP_METER_TABLE_INT"
tr 71 M=FP_METER_TABLE_INT S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_METER_TABLE_INT S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_METER_TABLE_INT S=0 C=0 TSE=T SLTH=F
if $?fp_policy_table_external 'echo "  FP_POLICY_TABLE_EXTERNAL"; \
    tr 71 M=FP_POLICY_TABLE_EXTERNAL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=FP_POLICY_TABLE_EXTERNAL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=FP_POLICY_TABLE_EXTERNAL S=0 C=0 TSE=T SLTH=F;'
echo "  FP_POLICY_TABLE_INTERNAL"
tr 71 M=FP_POLICY_TABLE_INTERNAL S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_POLICY_TABLE_INTERNAL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_POLICY_TABLE_INTERNAL S=0 C=0 TSE=T SLTH=F
echo "  FP_PORT_FIELD_SEL"
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F
echo "  FP_RANGE_CHECK"
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F
if $?fp_tcam_external 'echo "  FP_TCAM_EXTERNAL"; \
    tr 71 M=FP_TCAM_EXTERNAL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=FP_TCAM_EXTERNAL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=FP_TCAM_EXTERNAL S=0 C=0 TSE=T SLTH=F;'
echo "  FP_TCAM_INTERNAL"
tr 71 M=FP_TCAM_INTERNAL S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_TCAM_INTERNAL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_TCAM_INTERNAL S=0 C=0 TSE=T SLTH=F
echo "  FP_TCP_UDP_PORT_RANGE"
tr 71 M=FP_TCP_UDP_PORT_RANGE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_TCP_UDP_PORT_RANGE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_TCP_UDP_PORT_RANGE S=0 C=0 TSE=T SLTH=F
echo "  HG_PORT_TABLE"
tr 71 M=HG_PORT_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=HG_PORT_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=HG_PORT_TABLE S=0 C=0 TSE=T SLTH=F
echo "  IGR_VLAN_XLATE"
tr 71 M=IGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=IGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=IGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP_V4_SM"
tr 71 M=IPMC_GROUP_V4_SM S=0 C=0 TSE=F SLTH=T
```

```
tr 71 M=IPMC_GROUP_V4_SM S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP_V4_SM S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP_V6_SM"
tr 71 M=IPMC_GROUP_V6_SM S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP_V6_SM S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP_V6_SM S=0 C=0 TSE=T SLTH=F
echo "  IPORT_TABLE"
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F
echo "  L2MC_TABLE"
tr 71 M=L2MC_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=L2MC_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=L2MC_TABLE S=0 C=0 TSE=T SLTH=F
if $?l2_entry_external 'echo "  L2_ENTRY_EXTERNAL"; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start0 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start0 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start0 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start1 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start1 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start1 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start2 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start2 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start2 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start3 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start3 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start3 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start4 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start4 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start4 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start5 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start5 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start5 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start6 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start6 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start6 C=$l2ext_test_count TSE=T SLTH=F; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start7 C=$l2ext_test_count TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start7 C=$l2ext_test_count TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_EXTERNAL S=$l2ext_test_start7 C=$l2ext_test_count TSE=T SLTH=F;'
if $?l2_entry_internal 'echo "  L2_ENTRY_INTERNAL"; \
    tr 71 M=L2_ENTRY_INTERNAL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L2_ENTRY_INTERNAL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L2_ENTRY_INTERNAL S=0 C=0 TSE=T SLTH=F;'
echo "  L2_ENTRY_OVERFLOW"
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=F
```

```
#echo "  L2_MOD_FIFO"
#tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T
#tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T
#tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY"
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY_DATA"
tr 71 M=L2_USER_ENTRY_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY_DATA S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY_TCAM"
tr 71 M=L2_USER_ENTRY_TCAM S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_TCAM S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY_TCAM S=0 C=0 TSE=T SLTH=F
echo "  L3_INTF_TABLE"
tr 71 M=L3_INTF_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_INTF_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_INTF_TABLE S=0 C=0 TSE=T SLTH=F
echo "  L3_INTF_EGR_FILTER_LIST"
tr 71 M=L3_INTF_EGR_FILTER_LIST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_INTF_EGR_FILTER_LIST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_INTF_EGR_FILTER_LIST S=0 C=0 TSE=T SLTH=F
echo "  L3_INTF_IGR_FILTER_LIST"
tr 71 M=L3_INTF_IGR_FILTER_LIST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_INTF_IGR_FILTER_LIST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_INTF_IGR_FILTER_LIST S=0 C=0 TSE=T SLTH=F
echo "  L3_INTF_QOS"
tr 71 M=L3_INTF_QOS S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_INTF_QOS S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_INTF_QOS S=0 C=0 TSE=T SLTH=F
if $?l3_defip_alg 'echo "  L3_DEFIP_ALG"; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start0 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start1 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start2 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start3 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start4 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start4 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start4 C=$defip_test_count TSE=T SLTH=F; \
```

```
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start5 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start5 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start5 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start6 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start6 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start6 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start7 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start7 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_ALG S=$defip_test_start7 C=$defip_test_count TSE=T SLTH=F;'
if $?l3_defip_cam 'echo "  L3_DEFIP_CAM"; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start0 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start1 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start2 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start3 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_CAM S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=F;'
if $?l3_defip_data 'echo "  L3_DEFIP_DATA"; \
    tr 71 M=L3_DEFIP_DATA S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_DATA S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_DATA S=0 C=0 TSE=T SLTH=F;'
if $?l3_defip_tcam 'echo "  L3_DEFIP_TCAM"; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start0 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start0 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start1 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start1 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start2 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start2 C=$defip_test_count TSE=T SLTH=F; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start3 C=$defip_test_count TSE=F SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=T; \
    tr 71 M=L3_DEFIP_TCAM S=$defip_test_start3 C=$defip_test_count TSE=T SLTH=F;'
echo "  L3_ECMP"
tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F
if $?l3_entry_v4 'echo "  L3_ENTRY_V4"; \
    tr 71 M=L3_ENTRY_V4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_V4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_V4 S=0 C=0 TSE=T SLTH=F;'
if $?l3_entry_v6 'echo "  L3_ENTRY_V6"; \
```

```
    tr 71 M=L3_ENTRY_V6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=L3_ENTRY_V6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=L3_ENTRY_V6 S=0 C=0 TSE=T SLTH=F;'
echo "  L3_IPMC"
tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F
echo "  L3_DEFIP_HITBIT"
tr 71 M=L3_DEFIP_HITBIT S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_HITBIT S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_HITBIT S=0 C=0 TSE=T SLTH=F
echo "  L3_TUNNEL"
tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F
echo "  L3_TUNNEL_DATA"
tr 71 M=L3_TUNNEL_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_TUNNEL_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_TUNNEL_DATA S=0 C=0 TSE=T SLTH=F
echo "  L3_TUNNEL_TCAM"
tr 71 M=L3_TUNNEL_TCAM S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_TUNNEL_TCAM S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_TUNNEL_TCAM S=0 C=0 TSE=T SLTH=F
echo "  CCP"
tr 71 M=CCP S=0 C=0 TSE=F SLTH=T
tr 71 M=CCP S=0 C=0 TSE=T SLTH=T
tr 71 M=CCP S=0 C=0 TSE=T SLTH=F
echo "  CCPTR"
tr 71 M=CCPTR S=0 C=0 TSE=F SLTH=T
tr 71 M=CCPTR S=0 C=0 TSE=T SLTH=T
tr 71 M=CCPTR S=0 C=0 TSE=T SLTH=F
echo "  CELLPTRSWAP_00_HI"
tr 71 M=CELLPTRSWAP_00_HI S=0 C=0 TSE=F SLTH=T
tr 71 M=CELLPTRSWAP_00_HI S=0 C=0 TSE=T SLTH=T
tr 71 M=CELLPTRSWAP_00_HI S=0 C=0 TSE=T SLTH=F
echo "  CELLPTRSWAP_00_LO"
tr 71 M=CELLPTRSWAP_00_LO S=0 C=0 TSE=F SLTH=T
tr 71 M=CELLPTRSWAP_00_LO S=0 C=0 TSE=T SLTH=T
tr 71 M=CELLPTRSWAP_00_LO S=0 C=0 TSE=T SLTH=F
echo "  CELLPTRSWAP_01_HI"
tr 71 M=CELLPTRSWAP_01_HI S=0 C=0 TSE=F SLTH=T
tr 71 M=CELLPTRSWAP_01_HI S=0 C=0 TSE=T SLTH=T
tr 71 M=CELLPTRSWAP_01_HI S=0 C=0 TSE=T SLTH=F
echo "  CELLPTRSWAP_01_LO"
tr 71 M=CELLPTRSWAP_01_LO S=0 C=0 TSE=F SLTH=T
tr 71 M=CELLPTRSWAP_01_LO S=0 C=0 TSE=T SLTH=T
tr 71 M=CELLPTRSWAP_01_LO S=0 C=0 TSE=T SLTH=F
echo "  MMU_IBS"
```

```
tr 71 M=MMU_IBS S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_IBS S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_IBS S=0 C=0 TSE=T SLTH=F
echo "  MMU_INGPKTCELLLIMITIBP"
tr 71 M=MMU_INGPKTCELLLIMITIBP S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_INGPKTCELLLIMITIBP S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_INGPKTCELLLIMITIBP S=0 C=0 TSE=T SLTH=F
echo "  MMU_INGPKTCELLUSE"
tr 71 M=MMU_INGPKTCELLUSE S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_INGPKTCELLUSE S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_INGPKTCELLUSE S=0 C=0 TSE=T SLTH=F
echo "  MMU_IPMC_INDEX"
tr 71 M=MMU_IPMC_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_IPMC_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_IPMC_INDEX S=0 C=0 TSE=T SLTH=F
echo "  MMU_IPMC_PTR"
tr 71 M=MMU_IPMC_PTR S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_IPMC_PTR S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_IPMC_PTR S=0 C=0 TSE=T SLTH=F
echo "  MMU_IPMC_REP_10G"
tr 71 M=MMU_IPMC_REP_10G S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_IPMC_REP_10G S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_IPMC_REP_10G S=0 C=0 TSE=T SLTH=F
echo "  CFAP_CH0"
tr 71 M=CFAP_CH0 S=0 C=0 TSE=F SLTH=T
tr 71 M=CFAP_CH0 S=0 C=0 TSE=T SLTH=T
tr 71 M=CFAP_CH0 S=0 C=0 TSE=T SLTH=F
echo "  CFAP_CH1"
tr 71 M=CFAP_CH1 S=0 C=0 TSE=F SLTH=T
tr 71 M=CFAP_CH1 S=0 C=0 TSE=T SLTH=T
tr 71 M=CFAP_CH1 S=0 C=0 TSE=T SLTH=F
echo "  WQ_00_HI"
tr 71 M=WQ_00_HI S=0 C=0 TSE=F SLTH=T
tr 71 M=WQ_00_HI S=0 C=0 TSE=T SLTH=T
tr 71 M=WQ_00_HI S=0 C=0 TSE=T SLTH=F
echo "  MMU_WQ_00_LO"
tr 71 M=MMU_WQ_00_LO S=0 C=0 TSE=F SLTH=T
tr 71 M=MMU_WQ_00_LO S=0 C=0 TSE=T SLTH=T
tr 71 M=MMU_WQ_00_LO S=0 C=0 TSE=T SLTH=F
echo "  WQ_01_HI"
tr 71 M=WQ_01_HI S=0 C=0 TSE=F SLTH=T
tr 71 M=WQ_01_HI S=0 C=0 TSE=T SLTH=T
tr 71 M=WQ_01_HI S=0 C=0 TSE=T SLTH=F
echo "  WQ_01_LO"
tr 71 M=WQ_01_LO S=0 C=0 TSE=F SLTH=T
tr 71 M=WQ_01_LO S=0 C=0 TSE=T SLTH=T
tr 71 M=WQ_01_LO S=0 C=0 TSE=T SLTH=F
local xqrange 7
```

```
if $?ge_mode "local xqrange 11"
for xq=0,$xqrange  'echo "  XQ$xq"; \
tr 71 M=XQ$xq S=0 C=0 TSE=F SLTH=T; \
tr 71 M=XQ$xq S=0 C=0 TSE=T SLTH=T; \
tr 71 M=XQ$xq S=0 C=0 TSE=T SLTH=F;'
for xq=12,13  'echo "  XQ$xq";      \
tr 71 M=XQ$xq S=0 C=0 TSE=F SLTH=T; \
tr 71 M=XQ$xq S=0 C=0 TSE=T SLTH=T; \
tr 71 M=XQ$xq S=0 C=0 TSE=T SLTH=F;'
echo "  MPLS_EXP"
tr 71 M=MPLS_EXP S=0 C=0 TSE=F SLTH=T
tr 71 M=MPLS_EXP S=0 C=0 TSE=T SLTH=T
tr 71 M=MPLS_EXP S=0 C=0 TSE=T SLTH=F
if $?my_station 'echo "  MY_STATION"; \
      tr 71 M=MY_STATION S=0 C=0 TSE=F SLTH=T; \
      tr 71 M=MY_STATION S=0 C=0 TSE=T SLTH=T; \
      tr 71 M=MY_STATION S=0 C=0 TSE=T SLTH=F;'
if $?next_hop_ext 'echo "  NEXT_HOP_EXT"; \
      tr 71 M=NEXT_HOP_EXT S=0 C=0 TSE=F SLTH=T; \
      tr 71 M=NEXT_HOP_EXT S=0 C=0 TSE=T SLTH=T; \
      tr 71 M=NEXT_HOP_EXT S=0 C=0 TSE=T SLTH=F;'
if $?next_hop_int 'echo "  NEXT_HOP_INT"; \
      tr 71 M=NEXT_HOP_INT S=0 C=0 TSE=F SLTH=T; \
      tr 71 M=NEXT_HOP_INT S=0 C=0 TSE=T SLTH=T; \
      tr 71 M=NEXT_HOP_INT S=0 C=0 TSE=T SLTH=F;'
echo "  PORT"
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F
echo "  SOURCE_TRUNK_MAP"
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F
echo "  VLAN_STG"
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F
echo "  TRUNK_BITMAP"
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F
echo "  PORT_TRUNK_EGRESS"
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F
echo "  TRUNK_GROUP"
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F
echo "  UDF_OFFSET"
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F
echo "  VFI_BITMAP"
tr 71 M=VFI_BITMAP S=0 C=0 TSE=F SLTH=T
tr 71 M=VFI_BITMAP S=0 C=0 TSE=T SLTH=T
tr 71 M=VFI_BITMAP S=0 C=0 TSE=T SLTH=F
if $?vlan_mac 'echo "  VLAN_MAC"; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F;'
echo "  VLAN_SUBNET"
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F
echo "  VLAN_SUBNET_DATA"
tr 71 M=VLAN_SUBNET_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_DATA S=0 C=0 TSE=T SLTH=F
echo "  VLAN_SUBNET_TCAM"
tr 71 M=VLAN_SUBNET_TCAM S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_TCAM S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_TCAM S=0 C=0 TSE=T SLTH=F
echo "  VLAN"
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F
echo "  VPLS_VC_LABEL"
tr 71 M=VPLS_VC_LABEL S=0 C=0 TSE=F SLTH=T
tr 71 M=VPLS_VC_LABEL S=0 C=0 TSE=T SLTH=T
tr 71 M=VPLS_VC_LABEL S=0 C=0 TSE=T SLTH=F
echo "  VRF_VFI_INTF"
tr 71 M=VRF_VFI_INTF S=0 C=0 TSE=F SLTH=T
tr 71 M=VRF_VFI_INTF S=0 C=0 TSE=T SLTH=T
tr 71 M=VRF_VFI_INTF S=0 C=0 TSE=T SLTH=F
if $?vlan_range_tbl 'echo "  IGR_VLAN_RANGE_TBL"; \
    tr 71 M=IGR_VLAN_RANGE_TBL S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=IGR_VLAN_RANGE_TBL S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=IGR_VLAN_RANGE_TBL S=0 C=0 TSE=T SLTH=F; \
    echo "  TRUNK_VLAN_RANGE_IDX"; \
    tr 71 M=TRUNK_VLAN_RANGE_IDX S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=TRUNK_VLAN_RANGE_IDX S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=TRUNK_VLAN_RANGE_IDX S=0 C=0 TSE=T SLTH=F; \
    echo "  VLAN_RANGE_IDX"; \
    tr 71 M=VLAN_RANGE_IDX S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=VLAN_RANGE_IDX S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=VLAN_RANGE_IDX S=0 C=0 TSE=T SLTH=F;'

#echo "Running BSAFE Self test"
#tr 65
#$done

# Re-initialize to clean up of various read/wrires to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done
```

```
echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

if !$?bypass_mcu 'local bypass_mcu 0'
if !$bypass_mcu 'local packet_limits ""; local sgs_limits ""; \
        local snake_limits ""; local traffic_limits """
if $bypass_mcu 'local packet_limits "le=512 li=64"; \
        local sgs_limits "le=350 li=64"; \
        local snake_limits "le=300 li=116"; \
        local traffic_limits "l=500"'


echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23 $sgs_limits
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24 $packet_limits
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10 $packet_limits

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
```

```
tr 18 pbm=ge speed=100 $packet_limits

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000 $packet_limits

echo "Testing MAC Loopback - 10000 Mb/s all XE ports"
tr 18 pbm=xe speed=10G $packet_limits

echo "Testing MAC Loopback - 10000/12000 Mb/s all HG ports"
tr 18 pbm=hg speed=10G $packet_limits
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge speed=10 $packet_limits

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100 $packet_limits

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000 $packet_limits

echo "Testing PHY Loopback - 10000 Mb/s all XE ports"
tr 19 pbm=xe speed=10G $packet_limits

echo "Testing PHY Loopback - 10000/12000 Mb/s all HG ports"
tr 19 pbm=hg speed=10G $packet_limits
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single $packet_limits
$done

echo "Running PHY loopback V2 on all ports ..."
if !$bypass_mcu \
  'tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array $packet_limits'
if $bypass_mcu \
  'tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=single $packet_limits'

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e $snake_limits
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e $snake_limits
$done
```

```
#Traffic Test
echo "Running Traffic Test in MAC mode ..."
rc
tr 72 RM=MAC PBM=e $traffic_limits
$done

echo "Running Traffic Test in PHY mode ..."
rc
tr 72 RM=PHY PBM=e $traffic_limits
$done

#External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10, 11-12
#       13-14, 15-16, 17-18, 19-20, 21-22 23-24
#       25-26, 27-28
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv ext10G  1
# or
#       setenv extall  1
#External Loopback on GE port
local fwd 0x555
local bwd 0xaaa

if $?extall \
      "local ext10 1; local ext100 1; local ext1000 1; local ext10G 1"

if $?ext10 \
      "echo Testing External Loopback - 10 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=10 count=10; \
       echo Testing External Loopback - 10 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
      "echo Testing External Loopback - 100 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=100 count=10; \
       echo Testing External Loopback - 100 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if $?ext1000 \
      "echo Testing External Loopback - 1000 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
       echo Testing External Loopback - 1000 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=1000 count=10"
```

```
#External Loopback on HG port

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/esanity.soc
No license file was found, but licenses were detected in source scan.

```
#$Id: ktsanity_screen.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana (BCM56440) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56440_A0 || $?BCM56441_A0 || $?BCM56443_A0 || $?BCM56249_A0 || $?BCM56449_A0 ||
$?BCM56240_A0 || \
  $?BCM55440_A0 || $?BCM55441_A0 \
   'local BCM56440 1'
if $?BCM56445_A0 || $?BCM56444_A0 || $?BCM56448_A0 || $?BCM56241_A0 \
   'local BCM56445 1'

if $?BCM56440_B0 || $?BCM56441_B0 || $?BCM56443_B0 || $?BCM56249_B0 || $?BCM56449_B0 ||
$?BCM56240_B0 || \
  $?BCM55440_B0 || $?BCM55441_B0 || $?BCM56449_B0 || $?BCM56242_B0 || $?BCM56243_B0 \
   'local BCM56440 1'
if $?BCM56445_B0 || $?BCM56447_B0  || $?BCM56444_B0 || $?BCM56448_B0 || $?BCM56241_B0 \
   'local BCM56445 1'

if $?BCM56440_B0 || $?BCM56441_B0 || $?BCM56443_B0 || $?BCM56249_B0 || $?BCM56449_B0 ||
$?BCM56240_B0 || \
  $?BCM56445_B0 || $?BCM56447_B0 || $?BCM56444_B0 || $?BCM56448_B0 || $?BCM56241_B0 ||
```

```
$?BCM55440_B0 || \
  $?BCM55441_B0 || $?BCM56242_B0 || $?BCM56243_B0 \
  'local BCM56X4X_B0 1'

if $?BCM56240_B0 || $?BCM56242_B0 || $?BCM56243_B0 \
  'local BCM56240_B0 1'

echo "testsuite: started: screen tests"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

init soc; init mmu; init misc;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off
```

```
init soc; init mmu; init misc;
ktsanity_ecc_off
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " BCAST_BLOCK_MASK";
tr 50 M=BCAST_BLOCK_MASK;
tr 51 M=BCAST_BLOCK_MASK;
tr 52 M=BCAST_BLOCK_MASK;
tr 71 M=BCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=BCAST_BLOCK_MASK TSE=T SLTH=F;
echo " COS_MAP_SEL";
tr 50 M=COS_MAP_SEL;
tr 51 M=COS_MAP_SEL;
tr 52 M=COS_MAP_SEL;
tr 71 M=COS_MAP_SEL TSE=F SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=T;
tr 71 M=COS_MAP_SEL TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
```

```
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_PBM";
tr 50 M=CPU_PBM;
#tr 51 M=CPU_PBM;
#tr 52 M=CPU_PBM;
tr 71 M=CPU_PBM TSE=F SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=T;
tr 71 M=CPU_PBM TSE=T SLTH=F;
echo " CPU_PBM_2";
tr 50 M=CPU_PBM_2;
#tr 51 M=CPU_PBM_2;
#tr 52 M=CPU_PBM_2;
tr 71 M=CPU_PBM_2 TSE=F SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=T;
tr 71 M=CPU_PBM_2 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
if  !$?BCM56X4X_B0 \
'echo " CTR_FLEX_COUNT_0"; \
tr 50 M=CTR_FLEX_COUNT_0; \
tr 51 M=CTR_FLEX_COUNT_0; \
tr 52 M=CTR_FLEX_COUNT_0; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_1"; \
tr 50 M=CTR_FLEX_COUNT_1; \
tr 51 M=CTR_FLEX_COUNT_1; \
tr 52 M=CTR_FLEX_COUNT_1; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_10"; \
tr 50 M=CTR_FLEX_COUNT_10; \
tr 51 M=CTR_FLEX_COUNT_10; \
tr 52 M=CTR_FLEX_COUNT_10; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_10 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_11"; \
tr 50 M=CTR_FLEX_COUNT_11; \
tr 51 M=CTR_FLEX_COUNT_11; \
tr 52 M=CTR_FLEX_COUNT_11; \
```

```
tr 71 M=CTR_FLEX_COUNT_11 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_11 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_2"; \
tr 50 M=CTR_FLEX_COUNT_2; \
tr 51 M=CTR_FLEX_COUNT_2; \
tr 52 M=CTR_FLEX_COUNT_2; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_3"; \
tr 50 M=CTR_FLEX_COUNT_3; \
tr 51 M=CTR_FLEX_COUNT_3; \
tr 52 M=CTR_FLEX_COUNT_3; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_4"; \
tr 50 M=CTR_FLEX_COUNT_4; \
tr 51 M=CTR_FLEX_COUNT_4; \
tr 52 M=CTR_FLEX_COUNT_4; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_5"; \
tr 50 M=CTR_FLEX_COUNT_5; \
tr 51 M=CTR_FLEX_COUNT_5; \
tr 52 M=CTR_FLEX_COUNT_5; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_6"; \
tr 50 M=CTR_FLEX_COUNT_6; \
tr 51 M=CTR_FLEX_COUNT_6; \
tr 52 M=CTR_FLEX_COUNT_6; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_6 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_7"; \
tr 50 M=CTR_FLEX_COUNT_7; \
tr 51 M=CTR_FLEX_COUNT_7; \
tr 52 M=CTR_FLEX_COUNT_7; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_7 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_8"; \
tr 50 M=CTR_FLEX_COUNT_8; \
tr 51 M=CTR_FLEX_COUNT_8; \
```

```
tr 52 M=CTR_FLEX_COUNT_8; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_8 TSE=T SLTH=F; \
echo " CTR_FLEX_COUNT_9"; \
tr 50 M=CTR_FLEX_COUNT_9; \
tr 51 M=CTR_FLEX_COUNT_9; \
tr 52 M=CTR_FLEX_COUNT_9; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=F SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=T; \
tr 71 M=CTR_FLEX_COUNT_9 TSE=T SLTH=F;'
$done
echo " DLB_HGT_FLOWSET_PORT";
tr 50 M=DLB_HGT_FLOWSET_PORT;
tr 51 M=DLB_HGT_FLOWSET_PORT;
tr 52 M=DLB_HGT_FLOWSET_PORT;
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=F SLTH=T;
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=T SLTH=T;
tr 71 M=DLB_HGT_FLOWSET_PORT TSE=T SLTH=F;
#echo " DLB_HGT_FLOWSET_TIMESTAMP";
#tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=F SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=T SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP TSE=T SLTH=F;
#echo " DLB_HGT_FLOWSET_TIMESTAMP_PAGE";
#tr 50 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 52 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=F SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=T SLTH=T;
#tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE TSE=T SLTH=F;
echo " DLB_HGT_GLB_QUANTIZE_THRESHOLDS";
tr 50 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
#tr 51 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
#tr 52 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=F SLTH=T;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=T SLTH=T;
tr 71 M=DLB_HGT_GLB_QUANTIZE_THRESHOLDS TSE=T SLTH=F;
echo " DLB_HGT_GROUP_CONTROL";
tr 50 M=DLB_HGT_GROUP_CONTROL;
tr 51 M=DLB_HGT_GROUP_CONTROL;
tr 52 M=DLB_HGT_GROUP_CONTROL;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_CONTROL TSE=T SLTH=F;
echo " DLB_HGT_GROUP_MEMBERSHIP";
```

```
tr 50 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 51 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 52 M=DLB_HGT_GROUP_MEMBERSHIP;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_MEMBERSHIP TSE=T SLTH=F;
echo " DLB_HGT_GROUP_STATS";
tr 50 M=DLB_HGT_GROUP_STATS;
tr 51 M=DLB_HGT_GROUP_STATS;
tr 52 M=DLB_HGT_GROUP_STATS;
tr 71 M=DLB_HGT_GROUP_STATS TSE=F SLTH=T;
tr 71 M=DLB_HGT_GROUP_STATS TSE=T SLTH=T;
tr 71 M=DLB_HGT_GROUP_STATS TSE=T SLTH=F;
echo " DLB_HGT_LINK_CONTROL";
tr 50 M=DLB_HGT_LINK_CONTROL;
#tr 51 M=DLB_HGT_LINK_CONTROL;
#tr 52 M=DLB_HGT_LINK_CONTROL;
tr 71 M=DLB_HGT_LINK_CONTROL TSE=F SLTH=T;
tr 71 M=DLB_HGT_LINK_CONTROL TSE=T SLTH=T;
tr 71 M=DLB_HGT_LINK_CONTROL TSE=T SLTH=F;
echo " DLB_HGT_OPTIMAL_CANDIDATE";
tr 50 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 52 M=DLB_HGT_OPTIMAL_CANDIDATE;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=F SLTH=T;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=T SLTH=T;
tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE TSE=T SLTH=F;
echo " DLB_HGT_PORT_QUALITY_MAPPING";
tr 50 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 51 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 52 M=DLB_HGT_PORT_QUALITY_MAPPING;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=F SLTH=T;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=T SLTH=T;
tr 71 M=DLB_HGT_PORT_QUALITY_MAPPING TSE=T SLTH=F;
#echo " DLB_HGT_PORT_STATE";
#tr 50 M=DLB_HGT_PORT_STATE;
#tr 51 M=DLB_HGT_PORT_STATE;
#tr 52 M=DLB_HGT_PORT_STATE;
#tr 71 M=DLB_HGT_PORT_STATE TSE=F SLTH=T;
#tr 71 M=DLB_HGT_PORT_STATE TSE=T SLTH=T;
#tr 71 M=DLB_HGT_PORT_STATE TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
```

```
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
```

```
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_DVP_ATTRIBUTE";
tr 50 M=EGR_DVP_ATTRIBUTE;
tr 51 M=EGR_DVP_ATTRIBUTE;
tr 52 M=EGR_DVP_ATTRIBUTE;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=F SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=T;
tr 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
```

```
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_4";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
```

```
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_3";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
```

```
tr 52 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_PRI_MAP";
tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_PRI_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PKT_RES_MAP";
tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 52 M=EGR_FLEX_CTR_PKT_RES_MAP;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PORT_MAP";
tr 50 M=EGR_FLEX_CTR_PORT_MAP;
tr 51 M=EGR_FLEX_CTR_PORT_MAP;
tr 52 M=EGR_FLEX_CTR_PORT_MAP;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=EGR_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_FLEX_CTR_TOS_MAP";
tr 50 M=EGR_FLEX_CTR_TOS_MAP;
tr 51 M=EGR_FLEX_CTR_TOS_MAP;
tr 52 M=EGR_FLEX_CTR_TOS_MAP;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
```

```
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ING_PORT";
tr 50 M=EGR_ING_PORT;
tr 51 M=EGR_ING_PORT;
tr 52 M=EGR_ING_PORT;
tr 71 M=EGR_ING_PORT TSE=F SLTH=T;
tr 71 M=EGR_ING_PORT TSE=T SLTH=T;
tr 71 M=EGR_ING_PORT TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
```

```
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGR_MAP_MH";
tr 50 M=EGR_MAP_MH;
tr 51 M=EGR_MAP_MH;
tr 52 M=EGR_MAP_MH;
tr 71 M=EGR_MAP_MH TSE=F SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=T;
tr 71 M=EGR_MAP_MH TSE=T SLTH=F;
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
echo " EGR_MASK_MODBASE";
tr 50 M=EGR_MASK_MODBASE;
tr 51 M=EGR_MASK_MODBASE;
tr 52 M=EGR_MASK_MODBASE;
tr 71 M=EGR_MASK_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_CONTROL";
tr 50 M=EGR_MIRROR_ENCAP_CONTROL;
tr 51 M=EGR_MIRROR_ENCAP_CONTROL;
tr 52 M=EGR_MIRROR_ENCAP_CONTROL;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
```

```
echo " EGR_MIRROR_ENCAP_DATA_1";
tr 50 M=EGR_MIRROR_ENCAP_DATA_1;
tr 51 M=EGR_MIRROR_ENCAP_DATA_1;
tr 52 M=EGR_MIRROR_ENCAP_DATA_1;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
```

```
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_0";
#tr 50 M=EGR_PBE_DEBUG_0;
#tr 51 M=EGR_PBE_DEBUG_0;
#tr 52 M=EGR_PBE_DEBUG_0;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_0 TSE=T SLTH=F;
#echo " EGR_PBE_DEBUG_1";
#tr 50 M=EGR_PBE_DEBUG_1;
#tr 51 M=EGR_PBE_DEBUG_1;
#tr 52 M=EGR_PBE_DEBUG_1;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=EGR_PBE_DEBUG_1 TSE=T SLTH=F;
echo " EGR_PORT";
tr 50 M=EGR_PORT;
tr 51 M=EGR_PORT;
tr 52 M=EGR_PORT;
tr 71 M=EGR_PORT TSE=F SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=T;
tr 71 M=EGR_PORT TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
```

```
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EMIRROR_CONTROL";
tr 50 M=EMIRROR_CONTROL;
tr 51 M=EMIRROR_CONTROL;
tr 52 M=EMIRROR_CONTROL;
tr 71 M=EMIRROR_CONTROL TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL TSE=T SLTH=F;
echo " EMIRROR_CONTROL1";
tr 50 M=EMIRROR_CONTROL1;
tr 51 M=EMIRROR_CONTROL1;
tr 52 M=EMIRROR_CONTROL1;
```

```
tr 71 M=EMIRROR_CONTROL1 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL1 TSE=T SLTH=F;
echo " EMIRROR_CONTROL2";
tr 50 M=EMIRROR_CONTROL2;
tr 51 M=EMIRROR_CONTROL2;
tr 52 M=EMIRROR_CONTROL2;
tr 71 M=EMIRROR_CONTROL2 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL2 TSE=T SLTH=F;
echo " EMIRROR_CONTROL3";
tr 50 M=EMIRROR_CONTROL3;
tr 51 M=EMIRROR_CONTROL3;
tr 52 M=EMIRROR_CONTROL3;
tr 71 M=EMIRROR_CONTROL3 TSE=F SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=T;
tr 71 M=EMIRROR_CONTROL3 TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EPC_LINK_BMAP";
tr 50 M=EPC_LINK_BMAP;
#tr 51 M=EPC_LINK_BMAP;
#tr 52 M=EPC_LINK_BMAP;
tr 71 M=EPC_LINK_BMAP TSE=F SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=T;
tr 71 M=EPC_LINK_BMAP TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
```

```
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
```

```
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " FP_UDF_TCAM";
tr 50 M=FP_UDF_TCAM;
tr 51 M=FP_UDF_TCAM;
tr 52 M=FP_UDF_TCAM;
tr 71 M=FP_UDF_TCAM TSE=F SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=T;
tr 71 M=FP_UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_BITMAP";
tr 50 M=HG_TRUNK_BITMAP;
#tr 51 M=HG_TRUNK_BITMAP;
#tr 52 M=HG_TRUNK_BITMAP;
tr 71 M=HG_TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_BITMAP TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_ENABLE";
tr 50 M=HG_TRUNK_FAILOVER_ENABLE;
#tr 51 M=HG_TRUNK_FAILOVER_ENABLE;
#tr 52 M=HG_TRUNK_FAILOVER_ENABLE;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " HG_TRUNK_GROUP";
```

```
tr 50 M=HG_TRUNK_GROUP;
#tr 51 M=HG_TRUNK_GROUP;
#tr 52 M=HG_TRUNK_GROUP;
tr 71 M=HG_TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=HG_TRUNK_GROUP TSE=T SLTH=F;
echo " HG_TRUNK_MEMBER";
tr 50 M=HG_TRUNK_MEMBER;
tr 51 M=HG_TRUNK_MEMBER;
tr 52 M=HG_TRUNK_MEMBER;
tr 71 M=HG_TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=HG_TRUNK_MEMBER TSE=T SLTH=F;
echo " HIGIG_TRUNK_CONTROL";
tr 50 M=HIGIG_TRUNK_CONTROL;
#tr 51 M=HIGIG_TRUNK_CONTROL;
#tr 52 M=HIGIG_TRUNK_CONTROL;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=F SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=T;
tr 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " ICONTROL_OPCODE_BITMAP";
tr 50 M=ICONTROL_OPCODE_BITMAP;
tr 51 M=ICONTROL_OPCODE_BITMAP;
tr 52 M=ICONTROL_OPCODE_BITMAP;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=F SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=T;
tr 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IMIRROR_BITMAP";
tr 50 M=IMIRROR_BITMAP;
tr 51 M=IMIRROR_BITMAP;
tr 52 M=IMIRROR_BITMAP;
tr 71 M=IMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=IMIRROR_BITMAP TSE=T SLTH=F;
```

```
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_1588_TS_DISPOSITION_PROFILE_TABLE";
tr 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 52 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=F SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=T;
tr 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_EGRMSKBMAP";
tr 50 M=ING_EGRMSKBMAP;
tr 51 M=ING_EGRMSKBMAP;
tr 52 M=ING_EGRMSKBMAP;
tr 71 M=ING_EGRMSKBMAP TSE=F SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=T;
tr 71 M=ING_EGRMSKBMAP TSE=T SLTH=F;
echo " ING_EN_EFILTER_BITMAP";
tr 50 M=ING_EN_EFILTER_BITMAP;
#tr 51 M=ING_EN_EFILTER_BITMAP;
#tr 52 M=ING_EN_EFILTER_BITMAP;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=F SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=T;
tr 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_0";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_0;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_1";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_1;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
```

```
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_2";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_2;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_3";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_3;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_4";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_4;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_5";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_5;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_6";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_6;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_COUNTER_TABLE_7";
tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 52 M=ING_FLEX_CTR_COUNTER_TABLE_7;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_0";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_0;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
```

```
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_1";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_1;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_2";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_2;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_3";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_3;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_4";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_4;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_5";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_5;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_6";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_6;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
echo " ING_FLEX_CTR_OFFSET_TABLE_7";
tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7;
tr 52 M=ING_FLEX_CTR_OFFSET_TABLE_7;
```

```
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_PRI_MAP";
tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 52 M=ING_FLEX_CTR_PKT_PRI_MAP;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PKT_RES_MAP";
tr 50 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 51 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 52 M=ING_FLEX_CTR_PKT_RES_MAP;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PORT_MAP";
tr 50 M=ING_FLEX_CTR_PORT_MAP;
tr 51 M=ING_FLEX_CTR_PORT_MAP;
tr 52 M=ING_FLEX_CTR_PORT_MAP;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_PRI_CNG_MAP";
tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 52 M=ING_FLEX_CTR_PRI_CNG_MAP;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_FLEX_CTR_TOS_MAP";
tr 50 M=ING_FLEX_CTR_TOS_MAP;
tr 51 M=ING_FLEX_CTR_TOS_MAP;
tr 52 M=ING_FLEX_CTR_TOS_MAP;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
echo " ING_HIGIG_TRUNK_OVERRIDE_PROFILE";
tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 52 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=F SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=T;
tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
```

```
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_0";
#tr 50 M=ING_PBI_DEBUG_0;
#tr 51 M=ING_PBI_DEBUG_0;
#tr 52 M=ING_PBI_DEBUG_0;
#tr 71 M=ING_PBI_DEBUG_0 TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0 TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_0 TSE=T SLTH=F;
#echo " ING_PBI_DEBUG_1";
#tr 50 M=ING_PBI_DEBUG_1;
#tr 51 M=ING_PBI_DEBUG_1;
#tr 52 M=ING_PBI_DEBUG_1;
#tr 71 M=ING_PBI_DEBUG_1 TSE=F SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=T;
#tr 71 M=ING_PBI_DEBUG_1 TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_QUEUE_MAP";
tr 50 M=ING_QUEUE_MAP;
```

```
tr 51 M=ING_QUEUE_MAP;
tr 52 M=ING_QUEUE_MAP;
tr 71 M=ING_QUEUE_MAP TSE=F SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=T;
tr 71 M=ING_QUEUE_MAP TSE=T SLTH=F;
echo " ING_QUEUE_OFFSET_MAPPING_TABLE";
tr 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 52 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_PRI_MAP";
tr 50 M=ING_SVM_PKT_PRI_MAP;
tr 51 M=ING_SVM_PKT_PRI_MAP;
tr 52 M=ING_SVM_PKT_PRI_MAP;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=F;
echo " ING_SVM_PKT_RES_MAP";
tr 50 M=ING_SVM_PKT_RES_MAP;
tr 51 M=ING_SVM_PKT_RES_MAP;
tr 52 M=ING_SVM_PKT_RES_MAP;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=F;
echo " ING_SVM_PORT_MAP";
tr 50 M=ING_SVM_PORT_MAP;
tr 51 M=ING_SVM_PORT_MAP;
tr 52 M=ING_SVM_PORT_MAP;
tr 71 M=ING_SVM_PORT_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PORT_MAP TSE=T SLTH=F;
echo " ING_SVM_PRI_CNG_MAP";
tr 50 M=ING_SVM_PRI_CNG_MAP;
tr 51 M=ING_SVM_PRI_CNG_MAP;
tr 52 M=ING_SVM_PRI_CNG_MAP;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SVM_TOS_MAP";
```

```
tr 50 M=ING_SVM_TOS_MAP;
tr 51 M=ING_SVM_TOS_MAP;
tr 52 M=ING_SVM_TOS_MAP;
tr 71 M=ING_SVM_TOS_MAP TSE=F SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=T;
tr 71 M=ING_SVM_TOS_MAP TSE=T SLTH=F;
echo " ING_UNTAGGED_PHB";
tr 50 M=ING_UNTAGGED_PHB;
tr 51 M=ING_UNTAGGED_PHB;
tr 52 M=ING_UNTAGGED_PHB;
tr 71 M=ING_UNTAGGED_PHB TSE=F SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=T;
tr 71 M=ING_UNTAGGED_PHB TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_GROUP";
tr 50 M=INITIAL_L3_ECMP_GROUP;
tr 51 M=INITIAL_L3_ECMP_GROUP;
tr 52 M=INITIAL_L3_ECMP_GROUP;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F;
```

```
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " KNOWN_MCAST_BLOCK_MASK";
tr 50 M=KNOWN_MCAST_BLOCK_MASK;
tr 51 M=KNOWN_MCAST_BLOCK_MASK;
tr 52 M=KNOWN_MCAST_BLOCK_MASK;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_BULK_MATCH_DATA";
tr 50 M=L2_BULK_MATCH_DATA;
#tr 51 M=L2_BULK_MATCH_DATA;
#tr 52 M=L2_BULK_MATCH_DATA;
tr 71 M=L2_BULK_MATCH_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=T;
```

```
tr 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=F;
echo " L2_BULK_MATCH_MASK";
tr 50 M=L2_BULK_MATCH_MASK;
#tr 51 M=L2_BULK_MATCH_MASK;
#tr 52 M=L2_BULK_MATCH_MASK;
tr 71 M=L2_BULK_MATCH_MASK TSE=F SLTH=T;
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=F;
echo " L2_BULK_REPLACE_DATA";
tr 50 M=L2_BULK_REPLACE_DATA;
#tr 51 M=L2_BULK_REPLACE_DATA;
#tr 52 M=L2_BULK_REPLACE_DATA;
tr 71 M=L2_BULK_REPLACE_DATA TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=F;
echo " L2_BULK_REPLACE_MASK";
tr 50 M=L2_BULK_REPLACE_MASK;
#tr 51 M=L2_BULK_REPLACE_MASK;
#tr 52 M=L2_BULK_REPLACE_MASK;
tr 71 M=L2_BULK_REPLACE_MASK TSE=F SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=T;
tr 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW;
#tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
```

```
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
```

```
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
ktsanity_ecc_off.soc
echo " L3_DEFIP_PAIR_128";
tr 50 M=L3_DEFIP_PAIR_128;
tr 51 M=L3_DEFIP_PAIR_128;
tr 52 M=L3_DEFIP_PAIR_128;
tr 71 M=L3_DEFIP_PAIR_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=F;
echo " L3_DEFIP_PAIR_128_DATA_ONLY";
tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY;
```

```
tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY;
tr 52 M=L3_DEFIP_PAIR_128_DATA_ONLY;
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_PAIR_128_HIT_ONLY";
tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY;
tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY;
tr 52 M=L3_DEFIP_PAIR_128_HIT_ONLY;
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_PAIR_128_ONLY";
tr 50 M=L3_DEFIP_PAIR_128_ONLY;
tr 51 M=L3_DEFIP_PAIR_128_ONLY;
tr 52 M=L3_DEFIP_PAIR_128_ONLY;
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
tr 71 M=L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
```

```
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
```

```
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
#echo " LINK_STATUS";
#tr 50 M=LINK_STATUS;
#tr 51 M=LINK_STATUS;
#tr 52 M=LINK_STATUS;
#tr 71 M=LINK_STATUS TSE=F SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=T;
#tr 71 M=LINK_STATUS TSE=T SLTH=F;
echo " LLS_L0_CHILD_STATE1";
tr 50 M=LLS_L0_CHILD_STATE1;
tr 51 M=LLS_L0_CHILD_STATE1;
tr 52 M=LLS_L0_CHILD_STATE1;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L0_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L0_CONFIG";
tr 50 M=LLS_L0_CONFIG;
tr 51 M=LLS_L0_CONFIG;
tr 52 M=LLS_L0_CONFIG;
tr 71 M=LLS_L0_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=T;
```

```
tr 71 M=LLS_L0_CONFIG TSE=T SLTH=F;
echo " LLS_L0_EF_NEXT";
tr 50 M=LLS_L0_EF_NEXT;
tr 51 M=LLS_L0_EF_NEXT;
tr 52 M=LLS_L0_EF_NEXT;
tr 71 M=LLS_L0_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_EF_NEXT TSE=T SLTH=F;
echo " LLS_L0_ERROR";
tr 50 M=LLS_L0_ERROR;
tr 51 M=LLS_L0_ERROR;
tr 52 M=LLS_L0_ERROR;
tr 71 M=LLS_L0_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L0_ERROR TSE=T SLTH=F;
echo " LLS_L0_HEADS_TAILS";
tr 50 M=LLS_L0_HEADS_TAILS;
tr 51 M=LLS_L0_HEADS_TAILS;
tr 52 M=LLS_L0_HEADS_TAILS;
tr 71 M=LLS_L0_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L0_MIN_BUCKET_C";
#tr 50 M=LLS_L0_MIN_BUCKET_C;
#tr 51 M=LLS_L0_MIN_BUCKET_C;
#tr 52 M=LLS_L0_MIN_BUCKET_C;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_MIN_CONFIG_C";
tr 50 M=LLS_L0_MIN_CONFIG_C;
tr 51 M=LLS_L0_MIN_CONFIG_C;
tr 52 M=LLS_L0_MIN_CONFIG_C;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_MIN_NEXT";
tr 50 M=LLS_L0_MIN_NEXT;
tr 51 M=LLS_L0_MIN_NEXT;
tr 52 M=LLS_L0_MIN_NEXT;
tr 71 M=LLS_L0_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L0_PARENT";
tr 50 M=LLS_L0_PARENT;
tr 51 M=LLS_L0_PARENT;
tr 52 M=LLS_L0_PARENT;
tr 71 M=LLS_L0_PARENT TSE=F SLTH=T;
```

```
tr 71 M=LLS_L0_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT TSE=T SLTH=F;
echo " LLS_L0_PARENT_STATE";
tr 50 M=LLS_L0_PARENT_STATE;
tr 51 M=LLS_L0_PARENT_STATE;
tr 52 M=LLS_L0_PARENT_STATE;
tr 71 M=LLS_L0_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_L0_SHAPER_BUCKET_C";
#tr 50 M=LLS_L0_SHAPER_BUCKET_C;
#tr 51 M=LLS_L0_SHAPER_BUCKET_C;
#tr 52 M=LLS_L0_SHAPER_BUCKET_C;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L0_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L0_SHAPER_CONFIG_C";
tr 50 M=LLS_L0_SHAPER_CONFIG_C;
tr 51 M=LLS_L0_SHAPER_CONFIG_C;
tr 52 M=LLS_L0_SHAPER_CONFIG_C;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L0_WERR_MAX_SC";
tr 50 M=LLS_L0_WERR_MAX_SC;
tr 51 M=LLS_L0_WERR_MAX_SC;
tr 52 M=LLS_L0_WERR_MAX_SC;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L0_WERR_NEXT";
tr 50 M=LLS_L0_WERR_NEXT;
tr 51 M=LLS_L0_WERR_NEXT;
tr 52 M=LLS_L0_WERR_NEXT;
tr 71 M=LLS_L0_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L0_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L0_XOFF";
tr 50 M=LLS_L0_XOFF;
tr 51 M=LLS_L0_XOFF;
tr 52 M=LLS_L0_XOFF;
tr 71 M=LLS_L0_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L0_XOFF TSE=T SLTH=T;
tr 71 M=LLS_L0_XOFF TSE=T SLTH=F;
echo " LLS_L1_CHILD_STATE1";
tr 50 M=LLS_L1_CHILD_STATE1;
tr 51 M=LLS_L1_CHILD_STATE1;
tr 52 M=LLS_L1_CHILD_STATE1;
```

```
tr 71 M=LLS_L1_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L1_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L1_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L1_CONFIG";
tr 50 M=LLS_L1_CONFIG;
tr 51 M=LLS_L1_CONFIG;
tr 52 M=LLS_L1_CONFIG;
tr 71 M=LLS_L1_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_L1_CONFIG TSE=T SLTH=F;
echo " LLS_L1_EF_NEXT";
tr 50 M=LLS_L1_EF_NEXT;
tr 51 M=LLS_L1_EF_NEXT;
tr 52 M=LLS_L1_EF_NEXT;
tr 71 M=LLS_L1_EF_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_EF_NEXT TSE=T SLTH=F;
echo " LLS_L1_ERROR";
tr 50 M=LLS_L1_ERROR;
tr 51 M=LLS_L1_ERROR;
tr 52 M=LLS_L1_ERROR;
tr 71 M=LLS_L1_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L1_ERROR TSE=T SLTH=F;
echo " LLS_L1_HEADS_TAILS";
tr 50 M=LLS_L1_HEADS_TAILS;
tr 51 M=LLS_L1_HEADS_TAILS;
tr 52 M=LLS_L1_HEADS_TAILS;
tr 71 M=LLS_L1_HEADS_TAILS TSE=F SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=T;
tr 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=F;
#echo " LLS_L1_MIN_BUCKET_C";
#tr 50 M=LLS_L1_MIN_BUCKET_C;
#tr 51 M=LLS_L1_MIN_BUCKET_C;
#tr 52 M=LLS_L1_MIN_BUCKET_C;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L1_MIN_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_MIN_CONFIG_C";
tr 50 M=LLS_L1_MIN_CONFIG_C;
tr 51 M=LLS_L1_MIN_CONFIG_C;
```

```
tr 52 M=LLS_L1_MIN_CONFIG_C;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_MIN_NEXT";
tr 50 M=LLS_L1_MIN_NEXT;
tr 51 M=LLS_L1_MIN_NEXT;
tr 52 M=LLS_L1_MIN_NEXT;
tr 71 M=LLS_L1_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_MIN_NEXT TSE=T SLTH=F;
echo " LLS_L1_PARENT";
tr 50 M=LLS_L1_PARENT;
tr 51 M=LLS_L1_PARENT;
tr 52 M=LLS_L1_PARENT;
tr 71 M=LLS_L1_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT TSE=T SLTH=F;
echo " LLS_L1_PARENT_STATE";
tr 50 M=LLS_L1_PARENT_STATE;
tr 51 M=LLS_L1_PARENT_STATE;
tr 52 M=LLS_L1_PARENT_STATE;
tr 71 M=LLS_L1_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_L1_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_L1_SHAPER_BUCKET_C";
#tr 50 M=LLS_L1_SHAPER_BUCKET_C;
#tr 51 M=LLS_L1_SHAPER_BUCKET_C;
#tr 52 M=LLS_L1_SHAPER_BUCKET_C;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_L1_SHAPER_BUCKET_C TSE=T SLTH=F;
echo " LLS_L1_SHAPER_CONFIG_C";
tr 50 M=LLS_L1_SHAPER_CONFIG_C;
tr 51 M=LLS_L1_SHAPER_CONFIG_C;
tr 52 M=LLS_L1_SHAPER_CONFIG_C;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=F SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=T;
tr 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_L1_WERR_MAX_SC";
tr 50 M=LLS_L1_WERR_MAX_SC;
tr 51 M=LLS_L1_WERR_MAX_SC;
tr 52 M=LLS_L1_WERR_MAX_SC;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_L1_WERR_NEXT";
tr 50 M=LLS_L1_WERR_NEXT;
```

```
tr 51 M=LLS_L1_WERR_NEXT;
tr 52 M=LLS_L1_WERR_NEXT;
tr 71 M=LLS_L1_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L1_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L1_XOFF";
tr 50 M=LLS_L1_XOFF;
tr 51 M=LLS_L1_XOFF;
tr 52 M=LLS_L1_XOFF;
tr 71 M=LLS_L1_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L1_XOFF TSE=T SLTH=T;
tr 71 M=LLS_L1_XOFF TSE=T SLTH=F;
echo " LLS_L2_ACT_MIN";
tr 50 M=LLS_L2_ACT_MIN;
tr 51 M=LLS_L2_ACT_MIN;
tr 52 M=LLS_L2_ACT_MIN;
tr 71 M=LLS_L2_ACT_MIN TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_MIN TSE=T SLTH=F;
echo " LLS_L2_ACT_SHAPER";
tr 50 M=LLS_L2_ACT_SHAPER;
tr 51 M=LLS_L2_ACT_SHAPER;
tr 52 M=LLS_L2_ACT_SHAPER;
tr 71 M=LLS_L2_ACT_SHAPER TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_SHAPER TSE=T SLTH=F;
echo " LLS_L2_ACT_XON";
tr 50 M=LLS_L2_ACT_XON;
tr 51 M=LLS_L2_ACT_XON;
tr 52 M=LLS_L2_ACT_XON;
tr 71 M=LLS_L2_ACT_XON TSE=F SLTH=T;
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=T;
tr 71 M=LLS_L2_ACT_XON TSE=T SLTH=F;
echo " LLS_L2_CHILD_STATE1";
tr 50 M=LLS_L2_CHILD_STATE1;
tr 51 M=LLS_L2_CHILD_STATE1;
tr 52 M=LLS_L2_CHILD_STATE1;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_STATE1 TSE=T SLTH=F;
echo " LLS_L2_CHILD_WEIGHT_CFG_CNT";
tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 52 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
tr 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
echo " LLS_L2_EMPTY_STATE";
```

```
tr 50 M=LLS_L2_EMPTY_STATE;
tr 51 M=LLS_L2_EMPTY_STATE;
tr 52 M=LLS_L2_EMPTY_STATE;
tr 71 M=LLS_L2_EMPTY_STATE TSE=F SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=T;
tr 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=F;
echo " LLS_L2_ERROR";
tr 50 M=LLS_L2_ERROR;
tr 51 M=LLS_L2_ERROR;
tr 52 M=LLS_L2_ERROR;
tr 71 M=LLS_L2_ERROR TSE=F SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=T;
tr 71 M=LLS_L2_ERROR TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_LOWER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_LOWER_C;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_LOWER_C TSE=T SLTH=F;
#echo " LLS_L2_MIN_BUCKET_UPPER_C";
#tr 50 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 51 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 52 M=LLS_L2_MIN_BUCKET_UPPER_C;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=F SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=T;
#tr 71 M=LLS_L2_MIN_BUCKET_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_LOWER_C";
tr 50 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 51 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 52 M=LLS_L2_MIN_CONFIG_LOWER_C;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_LOWER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_CONFIG_UPPER_C";
tr 50 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 51 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 52 M=LLS_L2_MIN_CONFIG_UPPER_C;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_CONFIG_UPPER_C TSE=T SLTH=F;
echo " LLS_L2_MIN_NEXT";
tr 50 M=LLS_L2_MIN_NEXT;
tr 51 M=LLS_L2_MIN_NEXT;
tr 52 M=LLS_L2_MIN_NEXT;
tr 71 M=LLS_L2_MIN_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=F;
```

```
echo " LLS_L2_PARENT";
tr 50 M=LLS_L2_PARENT;
tr 51 M=LLS_L2_PARENT;
tr 52 M=LLS_L2_PARENT;
tr 71 M=LLS_L2_PARENT TSE=F SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=T;
tr 71 M=LLS_L2_PARENT TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_LOWER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 51 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_LOWER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_LOWER TSE=T SLTH=F;
#echo " LLS_L2_SHAPER_BUCKET_UPPER";
#tr 50 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 51 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 52 M=LLS_L2_SHAPER_BUCKET_UPPER;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=F SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=T;
#tr 71 M=LLS_L2_SHAPER_BUCKET_UPPER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_LOWER";
tr 50 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 51 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 52 M=LLS_L2_SHAPER_CONFIG_LOWER;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_LOWER TSE=T SLTH=F;
echo " LLS_L2_SHAPER_CONFIG_UPPER";
tr 50 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 51 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 52 M=LLS_L2_SHAPER_CONFIG_UPPER;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=F SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=T;
tr 71 M=LLS_L2_SHAPER_CONFIG_UPPER TSE=T SLTH=F;
echo " LLS_L2_WERR_NEXT";
tr 50 M=LLS_L2_WERR_NEXT;
tr 51 M=LLS_L2_WERR_NEXT;
tr 52 M=LLS_L2_WERR_NEXT;
tr 71 M=LLS_L2_WERR_NEXT TSE=F SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=T;
tr 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=F;
echo " LLS_L2_XOFF";
tr 50 M=LLS_L2_XOFF;
tr 51 M=LLS_L2_XOFF;
tr 52 M=LLS_L2_XOFF;
tr 71 M=LLS_L2_XOFF TSE=F SLTH=T;
tr 71 M=LLS_L2_XOFF TSE=T SLTH=T;
```

```
tr 71 M=LLS_L2_XOFF TSE=T SLTH=F;
echo " LLS_PORT_CONFIG";
tr 50 M=LLS_PORT_CONFIG;
tr 51 M=LLS_PORT_CONFIG;
tr 52 M=LLS_PORT_CONFIG;
tr 71 M=LLS_PORT_CONFIG TSE=F SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=T;
tr 71 M=LLS_PORT_CONFIG TSE=T SLTH=F;
echo " LLS_PORT_ERROR";
tr 50 M=LLS_PORT_ERROR;
tr 51 M=LLS_PORT_ERROR;
tr 52 M=LLS_PORT_ERROR;
tr 71 M=LLS_PORT_ERROR TSE=F SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=T;
tr 71 M=LLS_PORT_ERROR TSE=T SLTH=F;
echo " LLS_PORT_HEADS";
tr 50 M=LLS_PORT_HEADS;
tr 51 M=LLS_PORT_HEADS;
tr 52 M=LLS_PORT_HEADS;
tr 71 M=LLS_PORT_HEADS TSE=F SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=T;
tr 71 M=LLS_PORT_HEADS TSE=T SLTH=F;
echo " LLS_PORT_PARENT_STATE";
tr 50 M=LLS_PORT_PARENT_STATE;
tr 51 M=LLS_PORT_PARENT_STATE;
tr 52 M=LLS_PORT_PARENT_STATE;
tr 71 M=LLS_PORT_PARENT_STATE TSE=F SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=T;
tr 71 M=LLS_PORT_PARENT_STATE TSE=T SLTH=F;
#echo " LLS_PORT_SHAPER_BUCKET_C";
#tr 50 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 51 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 52 M=LLS_PORT_SHAPER_BUCKET_C;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=F SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_BUCKET_C TSE=T SLTH=F;
#echo " LLS_PORT_SHAPER_CONFIG_C";
#tr 50 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 51 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 52 M=LLS_PORT_SHAPER_CONFIG_C;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=F SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=T;
#tr 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=F;
echo " LLS_PORT_TAILS";
tr 50 M=LLS_PORT_TAILS;
tr 51 M=LLS_PORT_TAILS;
tr 52 M=LLS_PORT_TAILS;
tr 71 M=LLS_PORT_TAILS TSE=F SLTH=T;
```

```
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=T;
tr 71 M=LLS_PORT_TAILS TSE=T SLTH=F;
#echo " LLS_PORT_TDM";
#tr 50 M=LLS_PORT_TDM;
#tr 51 M=LLS_PORT_TDM;
#tr 52 M=LLS_PORT_TDM;
#tr 71 M=LLS_PORT_TDM TSE=F SLTH=T;
#tr 71 M=LLS_PORT_TDM TSE=T SLTH=T;
#tr 71 M=LLS_PORT_TDM TSE=T SLTH=F;
#echo " LLS_PORT_WERR_MAX_SC";
#tr 50 M=LLS_PORT_WERR_MAX_SC;
#tr 51 M=LLS_PORT_WERR_MAX_SC;
#tr 52 M=LLS_PORT_WERR_MAX_SC;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=F SLTH=T;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=T;
#tr 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=F;
echo " LLS_PORT_XOFF";
tr 50 M=LLS_PORT_XOFF;
#tr 51 M=LLS_PORT_XOFF;
#tr 52 M=LLS_PORT_XOFF;
tr 71 M=LLS_PORT_XOFF TSE=F SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=T;
tr 71 M=LLS_PORT_XOFF TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_1";
tr 50 M=LMEP_1;
tr 51 M=LMEP_1;
tr 52 M=LMEP_1;
tr 71 M=LMEP_1 TSE=F SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=T;
tr 71 M=LMEP_1 TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=F;
echo " LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR";
tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
tr 52 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
```

```
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=F SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=T;
tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
#echo " MA_STATE";
#tr 50 M=MA_STATE;
#tr 51 M=MA_STATE;
#tr 52 M=MA_STATE;
#tr 71 M=MA_STATE TSE=F SLTH=T;
#tr 71 M=MA_STATE TSE=T SLTH=T;
#tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MIRROR_CONTROL";
tr 50 M=MIRROR_CONTROL;
tr 51 M=MIRROR_CONTROL;
tr 52 M=MIRROR_CONTROL;
tr 71 M=MIRROR_CONTROL TSE=F SLTH=T;
tr 71 M=MIRROR_CONTROL TSE=T SLTH=T;
tr 71 M=MIRROR_CONTROL TSE=T SLTH=F;
echo " MMU_AGING_CTR_EXT";
tr 50 M=MMU_AGING_CTR_EXT;
tr 51 M=MMU_AGING_CTR_EXT;
```

```
tr 52 M=MMU_AGING_CTR_EXT;
tr 71 M=MMU_AGING_CTR_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=F;
echo " MMU_AGING_CTR_INT";
tr 50 M=MMU_AGING_CTR_INT;
tr 51 M=MMU_AGING_CTR_INT;
tr 52 M=MMU_AGING_CTR_INT;
tr 71 M=MMU_AGING_CTR_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR_INT TSE=T SLTH=F;
echo " MMU_AGING_EXP_EXT";
tr 50 M=MMU_AGING_EXP_EXT;
tr 51 M=MMU_AGING_EXP_EXT;
tr 52 M=MMU_AGING_EXP_EXT;
tr 71 M=MMU_AGING_EXP_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=F;
echo " MMU_AGING_EXP_INT";
tr 50 M=MMU_AGING_EXP_INT;
tr 51 M=MMU_AGING_EXP_INT;
tr 52 M=MMU_AGING_EXP_INT;
tr 71 M=MMU_AGING_EXP_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP_INT TSE=T SLTH=F;
echo " MMU_AGING_LMT_EXT";
tr 50 M=MMU_AGING_LMT_EXT;
tr 51 M=MMU_AGING_LMT_EXT;
tr 52 M=MMU_AGING_LMT_EXT;
tr 71 M=MMU_AGING_LMT_EXT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=F;
echo " MMU_AGING_LMT_INT";
tr 50 M=MMU_AGING_LMT_INT;
tr 51 M=MMU_AGING_LMT_INT;
tr 52 M=MMU_AGING_LMT_INT;
tr 71 M=MMU_AGING_LMT_INT TSE=F SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=T;
tr 71 M=MMU_AGING_LMT_INT TSE=T SLTH=F;
if  !$?BCM56240_B0 \
'echo " MMU_CBPI_0"; \
tr 50 M=MMU_CBPI_0; \
tr 51 M=MMU_CBPI_0; \
tr 52 M=MMU_CBPI_0; \
tr 71 M=MMU_CBPI_0 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_0 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_0 TSE=T SLTH=F; \
echo " MMU_CBPI_1"; \
```

```
tr 50 M=MMU_CBPI_1; \
tr 51 M=MMU_CBPI_1; \
tr 52 M=MMU_CBPI_1; \
tr 71 M=MMU_CBPI_1 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_1 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_1 TSE=T SLTH=F; \
echo " MMU_CBPI_10"; \
tr 50 M=MMU_CBPI_10; \
tr 51 M=MMU_CBPI_10; \
tr 52 M=MMU_CBPI_10; \
tr 71 M=MMU_CBPI_10 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_10 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_10 TSE=T SLTH=F; \
echo " MMU_CBPI_11"; \
tr 50 M=MMU_CBPI_11; \
tr 51 M=MMU_CBPI_11; \
tr 52 M=MMU_CBPI_11; \
tr 71 M=MMU_CBPI_11 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_11 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_11 TSE=T SLTH=F; \
echo " MMU_CBPI_2"; \
tr 50 M=MMU_CBPI_2; \
tr 51 M=MMU_CBPI_2; \
tr 52 M=MMU_CBPI_2; \
tr 71 M=MMU_CBPI_2 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_2 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_2 TSE=T SLTH=F; \
echo " MMU_CBPI_3"; \
tr 50 M=MMU_CBPI_3; \
tr 51 M=MMU_CBPI_3; \
tr 52 M=MMU_CBPI_3; \
tr 71 M=MMU_CBPI_3 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_3 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_3 TSE=T SLTH=F; \
echo " MMU_CBPI_4"; \
tr 50 M=MMU_CBPI_4; \
tr 51 M=MMU_CBPI_4; \
tr 52 M=MMU_CBPI_4; \
tr 71 M=MMU_CBPI_4 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_4 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_4 TSE=T SLTH=F; \
echo " MMU_CBPI_5"; \
tr 50 M=MMU_CBPI_5; \
tr 51 M=MMU_CBPI_5; \
tr 52 M=MMU_CBPI_5; \
tr 71 M=MMU_CBPI_5 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_5 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_5 TSE=T SLTH=F; \
```

```
echo " MMU_CBPI_6"; \
tr 50 M=MMU_CBPI_6; \
tr 51 M=MMU_CBPI_6; \
tr 52 M=MMU_CBPI_6; \
tr 71 M=MMU_CBPI_6 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_6 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_6 TSE=T SLTH=F; \
echo " MMU_CBPI_7"; \
tr 50 M=MMU_CBPI_7; \
tr 51 M=MMU_CBPI_7; \
tr 52 M=MMU_CBPI_7; \
tr 71 M=MMU_CBPI_7 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_7 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_7 TSE=T SLTH=F; \
echo " MMU_CBPI_8"; \
tr 50 M=MMU_CBPI_8; \
tr 51 M=MMU_CBPI_8; \
tr 52 M=MMU_CBPI_8; \
tr 71 M=MMU_CBPI_8 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_8 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_8 TSE=T SLTH=F; \
echo " MMU_CBPI_9"; \
tr 50 M=MMU_CBPI_9; \
tr 51 M=MMU_CBPI_9; \
tr 52 M=MMU_CBPI_9; \
tr 71 M=MMU_CBPI_9 TSE=F SLTH=T; \
tr 71 M=MMU_CBPI_9 TSE=T SLTH=T; \
tr 71 M=MMU_CBPI_9 TSE=T SLTH=F;'
$done
if $?BCM56440 && !$?BCM56240_B0\
'echo " MMU_CCPE_MEM"; \
tr 50 M=MMU_CCPE_MEM; \
tr 51 M=MMU_CCPE_MEM; \
tr 52 M=MMU_CCPE_MEM; \
tr 71 M=MMU_CCPE_MEM TSE=F SLTH=T; \
tr 71 M=MMU_CCPE_MEM TSE=T SLTH=T; \
tr 71 M=MMU_CCPE_MEM TSE=T SLTH=F;'
$done
echo " MMU_CCPI_MEM";
tr 50 M=MMU_CCPI_MEM;
tr 51 M=MMU_CCPI_MEM;
tr 52 M=MMU_CCPI_MEM;
tr 71 M=MMU_CCPI_MEM TSE=F SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=T;
tr 71 M=MMU_CCPI_MEM TSE=T SLTH=F;
if $?BCM56440 && !$?BCM56240_B0 \
'echo " MMU_CELLLINKE"; \
tr 50 M=MMU_CELLLINKE; \
```

```
tr 51 M=MMU_CELLLINKE; \
tr 52 M=MMU_CELLLINKE; \
tr 71 M=MMU_CELLLINKE TSE=F SLTH=T; \
tr 71 M=MMU_CELLLINKE TSE=T SLTH=T; \
tr 71 M=MMU_CELLLINKE TSE=T SLTH=F;'
$done
echo " MMU_CELLLINKI";
tr 50 M=MMU_CELLLINKI;
tr 51 M=MMU_CELLLINKI;
tr 52 M=MMU_CELLLINKI;
tr 71 M=MMU_CELLLINKI TSE=F SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=T;
tr 71 M=MMU_CELLLINKI TSE=T SLTH=F;
echo " MMU_CFAPE_BITMAP";
tr 50 M=MMU_CFAPE_BITMAP;
tr 51 M=MMU_CFAPE_BITMAP;
tr 52 M=MMU_CFAPE_BITMAP;
tr 71 M=MMU_CFAPE_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPE_STACK";
tr 50 M=MMU_CFAPE_STACK;
tr 51 M=MMU_CFAPE_STACK;
tr 52 M=MMU_CFAPE_STACK;
tr 71 M=MMU_CFAPE_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPE_STACK TSE=T SLTH=F;
echo " MMU_CFAPI_BITMAP";
tr 50 M=MMU_CFAPI_BITMAP;
tr 51 M=MMU_CFAPI_BITMAP;
tr 52 M=MMU_CFAPI_BITMAP;
tr 71 M=MMU_CFAPI_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=F;
echo " MMU_CFAPI_STACK";
tr 50 M=MMU_CFAPI_STACK;
tr 51 M=MMU_CFAPI_STACK;
tr 52 M=MMU_CFAPI_STACK;
tr 71 M=MMU_CFAPI_STACK TSE=F SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=T;
tr 71 M=MMU_CFAPI_STACK TSE=T SLTH=F;
echo " MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM";
tr 50 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 51 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 52 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=F SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=T;
tr 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=F;
```

```
#echo " MMU_ENQ_CBP_32B_WR_STORE_0";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_0;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_CBP_32B_WR_STORE_1";
#tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_1;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_1 TSE=T SLTH=F;
echo " MMU_ENQ_CBP_32B_WR_STORE_2";
tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 51 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 52 M=MMU_ENQ_CBP_32B_WR_STORE_2;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=F;
echo " MMU_ENQ_FAP_BITMAP";
tr 50 M=MMU_ENQ_FAP_BITMAP;
tr 51 M=MMU_ENQ_FAP_BITMAP;
tr 52 M=MMU_ENQ_FAP_BITMAP;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=F;
echo " MMU_ENQ_FAP_STACK";
tr 50 M=MMU_ENQ_FAP_STACK;
tr 51 M=MMU_ENQ_FAP_STACK;
tr 52 M=MMU_ENQ_FAP_STACK;
tr 71 M=MMU_ENQ_FAP_STACK TSE=F SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=T;
tr 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_0";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_0;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_0 TSE=T SLTH=F;
#echo " MMU_ENQ_RQE_WR_COMPLETE_1";
#tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_1;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=T;
```

```
#tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_1 TSE=T SLTH=F;
echo " MMU_ENQ_RQE_WR_COMPLETE_2";
tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 51 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 52 M=MMU_ENQ_RQE_WR_COMPLETE_2;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=F SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=T;
tr 71 M=MMU_ENQ_RQE_WR_COMPLETE_2 TSE=T SLTH=F;
echo " MMU_EXT_MC_GROUP_MAP";
tr 50 M=MMU_EXT_MC_GROUP_MAP;
tr 51 M=MMU_EXT_MC_GROUP_MAP;
tr 52 M=MMU_EXT_MC_GROUP_MAP;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST0";
tr 50 M=MMU_EXT_MC_QUEUE_LIST0;
tr 51 M=MMU_EXT_MC_QUEUE_LIST0;
tr 52 M=MMU_EXT_MC_QUEUE_LIST0;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST1";
tr 50 M=MMU_EXT_MC_QUEUE_LIST1;
tr 51 M=MMU_EXT_MC_QUEUE_LIST1;
tr 52 M=MMU_EXT_MC_QUEUE_LIST1;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST1 TSE=T SLTH=F;
echo " MMU_EXT_MC_QUEUE_LIST4";
tr 50 M=MMU_EXT_MC_QUEUE_LIST4;
tr 51 M=MMU_EXT_MC_QUEUE_LIST4;
tr 52 M=MMU_EXT_MC_QUEUE_LIST4;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=F SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=T;
tr 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=F;
echo " MMU_INTFI_BASE_TBL";
tr 50 M=MMU_INTFI_BASE_TBL;
tr 51 M=MMU_INTFI_BASE_TBL;
tr 52 M=MMU_INTFI_BASE_TBL;
tr 71 M=MMU_INTFI_BASE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_BASE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_BASE_TBL TSE=T SLTH=F;
#echo " MMU_INTFI_DEBUG_MEM";
#tr 50 M=MMU_INTFI_DEBUG_MEM;
#tr 51 M=MMU_INTFI_DEBUG_MEM;
#tr 52 M=MMU_INTFI_DEBUG_MEM;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=F SLTH=T;
```

```
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=T;
#tr 71 M=MMU_INTFI_DEBUG_MEM TSE=T SLTH=F;
echo " MMU_INTFI_FC_STATE_TBL";
tr 50 M=MMU_INTFI_FC_STATE_TBL;
tr 51 M=MMU_INTFI_FC_STATE_TBL;
tr 52 M=MMU_INTFI_FC_STATE_TBL;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_FC_STATE_TBL TSE=T SLTH=F;
echo " MMU_INTFI_MAP_TBL";
tr 50 M=MMU_INTFI_MAP_TBL;
tr 51 M=MMU_INTFI_MAP_TBL;
tr 52 M=MMU_INTFI_MAP_TBL;
tr 71 M=MMU_INTFI_MAP_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_MAP_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_MAP_TBL TSE=T SLTH=F;
echo " MMU_INTFI_XLATE_TBL";
tr 50 M=MMU_INTFI_XLATE_TBL;
tr 51 M=MMU_INTFI_XLATE_TBL;
tr 52 M=MMU_INTFI_XLATE_TBL;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=F SLTH=T;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=T SLTH=T;
tr 71 M=MMU_INTFI_XLATE_TBL TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL0";
tr 50 M=MMU_IPMC_GROUP_TBL0;
tr 51 M=MMU_IPMC_GROUP_TBL0;
tr 52 M=MMU_IPMC_GROUP_TBL0;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL1";
tr 50 M=MMU_IPMC_GROUP_TBL1;
tr 51 M=MMU_IPMC_GROUP_TBL1;
tr 52 M=MMU_IPMC_GROUP_TBL1;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
#echo " MMU_ITE_CTRL_0";
#tr 50 M=MMU_ITE_CTRL_0;
#tr 51 M=MMU_ITE_CTRL_0;
#tr 52 M=MMU_ITE_CTRL_0;
#tr 71 M=MMU_ITE_CTRL_0 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_CTRL_0 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_CTRL_0 TSE=T SLTH=F;
echo " MMU_ITE_CTRL_1";
tr 50 M=MMU_ITE_CTRL_1;
tr 51 M=MMU_ITE_CTRL_1;
tr 52 M=MMU_ITE_CTRL_1;
tr 71 M=MMU_ITE_CTRL_1 TSE=F SLTH=T;
tr 71 M=MMU_ITE_CTRL_1 TSE=T SLTH=T;
tr 71 M=MMU_ITE_CTRL_1 TSE=T SLTH=F;
echo " MMU_ITE_PACKET_PTR_STORE";
tr 50 M=MMU_ITE_PACKET_PTR_STORE;
tr 51 M=MMU_ITE_PACKET_PTR_STORE;
tr 52 M=MMU_ITE_PACKET_PTR_STORE;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=F SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=T;
tr 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=F;
echo " MMU_ITE_QMGR_FLL";
tr 50 M=MMU_ITE_QMGR_FLL;
tr 51 M=MMU_ITE_QMGR_FLL;
tr 52 M=MMU_ITE_QMGR_FLL;
tr 71 M=MMU_ITE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_ITE_QMGR_QLL";
tr 50 M=MMU_ITE_QMGR_QLL;
tr 51 M=MMU_ITE_QMGR_QLL;
```

```
tr 52 M=MMU_ITE_QMGR_QLL;
tr 71 M=MMU_ITE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_0";
#tr 50 M=MMU_ITE_WORK_QUEUE_0;
#tr 51 M=MMU_ITE_WORK_QUEUE_0;
#tr 52 M=MMU_ITE_WORK_QUEUE_0;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_0 TSE=T SLTH=F;
#echo " MMU_ITE_WORK_QUEUE_1";
#tr 50 M=MMU_ITE_WORK_QUEUE_1;
#tr 51 M=MMU_ITE_WORK_QUEUE_1;
#tr 52 M=MMU_ITE_WORK_QUEUE_1;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=F SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=T;
#tr 71 M=MMU_ITE_WORK_QUEUE_1 TSE=T SLTH=F;
echo " MMU_ITE_WORK_QUEUE_2";
tr 50 M=MMU_ITE_WORK_QUEUE_2;
tr 51 M=MMU_ITE_WORK_QUEUE_2;
tr 52 M=MMU_ITE_WORK_QUEUE_2;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=F SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=T;
tr 71 M=MMU_ITE_WORK_QUEUE_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_3;
```

```
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_2";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_BM_FIFO_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_0";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_0;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_1";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_1;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_2";
```

```
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_2;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_3";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_3;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_4";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_4;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_5";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_5;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_6";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_6;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QBLOCK_NEXT_7";
tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 51 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 52 M=MMU_QSTRUCT_QBLOCK_NEXT_7;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QBLOCK_NEXT_7 TSE=T SLTH=F;
if $?BCM56440 && !$?BCM56240_B0 \
'echo " MMU_QSTRUCT_QENTRY_LOWER_0"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_0; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=T; \
```

```
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_0 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_1"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_1; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_1 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_2"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_2; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_2 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_3"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_3; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_3 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_4"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_4; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_4 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_5"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_5; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_5 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_6"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_6; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=F SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_6 TSE=T SLTH=F; \
echo " MMU_QSTRUCT_QENTRY_LOWER_7"; \
tr 50 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 51 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 52 M=MMU_QSTRUCT_QENTRY_LOWER_7; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=F SLTH=T; \
```

```
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=T; \
tr 71 M=MMU_QSTRUCT_QENTRY_LOWER_7 TSE=T SLTH=F;'
$done
echo " MMU_QSTRUCT_QENTRY_UPPER_0";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_0;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_0 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_1";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_1;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_1 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_2";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_2;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_2 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_3";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_3;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_3 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_4";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_4;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_4 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_5";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_5;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_5 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_6";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_6;
```

```
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_6;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_6 TSE=T SLTH=F;
echo " MMU_QSTRUCT_QENTRY_UPPER_7";
tr 50 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 51 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 52 M=MMU_QSTRUCT_QENTRY_UPPER_7;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=F SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=T;
tr 71 M=MMU_QSTRUCT_QENTRY_UPPER_7 TSE=T SLTH=F;
echo " MMU_RQE_QMGR_FLL";
tr 50 M=MMU_RQE_QMGR_FLL;
tr 51 M=MMU_RQE_QMGR_FLL;
tr 52 M=MMU_RQE_QMGR_FLL;
tr 71 M=MMU_RQE_QMGR_FLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=F;
echo " MMU_RQE_QMGR_QLL";
tr 50 M=MMU_RQE_QMGR_QLL;
tr 51 M=MMU_RQE_QMGR_QLL;
tr 52 M=MMU_RQE_QMGR_QLL;
tr 71 M=MMU_RQE_QMGR_QLL TSE=F SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=T;
tr 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=F;
echo " MMU_RQE_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_RQE_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
tr 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MMU_RQE_WORK_QUEUE";
tr 50 M=MMU_RQE_WORK_QUEUE;
tr 51 M=MMU_RQE_WORK_QUEUE;
tr 52 M=MMU_RQE_WORK_QUEUE;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=F SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=T;
tr 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_CELL";
tr 50 M=MMU_THDO_OPNCONFIG_CELL;
tr 51 M=MMU_THDO_OPNCONFIG_CELL;
tr 52 M=MMU_THDO_OPNCONFIG_CELL;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNCONFIG_QENTRY";
tr 50 M=MMU_THDO_OPNCONFIG_QENTRY;
```

```
tr 51 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 52 M=MMU_THDO_OPNCONFIG_QENTRY;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNCOUNT_CELL";
tr 50 M=MMU_THDO_OPNCOUNT_CELL;
tr 51 M=MMU_THDO_OPNCOUNT_CELL;
tr 52 M=MMU_THDO_OPNCOUNT_CELL;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_CELL";
tr 50 M=MMU_THDO_OPNOFFSET_CELL;
tr 51 M=MMU_THDO_OPNOFFSET_CELL;
tr 52 M=MMU_THDO_OPNOFFSET_CELL;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNOFFSET_QENTRY";
tr 50 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 51 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 52 M=MMU_THDO_OPNOFFSET_QENTRY;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_CELL";
tr 50 M=MMU_THDO_OPNSTATUS_CELL;
tr 51 M=MMU_THDO_OPNSTATUS_CELL;
tr 52 M=MMU_THDO_OPNSTATUS_CELL;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=F;
echo " MMU_THDO_OPNSTATUS_QENTRY";
tr 50 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 51 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 52 M=MMU_THDO_OPNSTATUS_QENTRY;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_CELL";
tr 50 M=MMU_THDO_QCONFIG_CELL;
tr 51 M=MMU_THDO_QCONFIG_CELL;
tr 52 M=MMU_THDO_QCONFIG_CELL;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=F;
echo " MMU_THDO_QCONFIG_QENTRY";
```

```
tr 50 M=MMU_THDO_QCONFIG_QENTRY;
tr 51 M=MMU_THDO_QCONFIG_QENTRY;
tr 52 M=MMU_THDO_QCONFIG_QENTRY;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QCOUNT_CELL_0";
tr 50 M=MMU_THDO_QCOUNT_CELL_0;
tr 51 M=MMU_THDO_QCOUNT_CELL_0;
tr 52 M=MMU_THDO_QCOUNT_CELL_0;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QCOUNT_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_CELL";
tr 50 M=MMU_THDO_QOFFSET_CELL;
tr 51 M=MMU_THDO_QOFFSET_CELL;
tr 52 M=MMU_THDO_QOFFSET_CELL;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=F;
echo " MMU_THDO_QOFFSET_QENTRY";
tr 50 M=MMU_THDO_QOFFSET_QENTRY;
tr 51 M=MMU_THDO_QOFFSET_QENTRY;
tr 52 M=MMU_THDO_QOFFSET_QENTRY;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_CELL_0";
tr 50 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 51 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 52 M=MMU_THDO_QRESET_VALUE_CELL_0;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_CELL_0 TSE=T SLTH=F;
echo " MMU_THDO_QRESET_VALUE_QENTRY_0";
tr 50 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 51 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 52 M=MMU_THDO_QRESET_VALUE_QENTRY_0;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QRESET_VALUE_QENTRY_0 TSE=T SLTH=F;
echo " MMU_THDO_QSTATUS_CELL_0";
tr 50 M=MMU_THDO_QSTATUS_CELL_0;
tr 51 M=MMU_THDO_QSTATUS_CELL_0;
tr 52 M=MMU_THDO_QSTATUS_CELL_0;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_CELL_0 TSE=T SLTH=F;
```

```
echo " MMU_THDO_QSTATUS_QENTRY_0";
tr 50 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 51 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 52 M=MMU_THDO_QSTATUS_QENTRY_0;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=F SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=T;
tr 71 M=MMU_THDO_QSTATUS_QENTRY_0 TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM0";
tr 50 M=MMU_TOQ_STATE_MEM0;
tr 51 M=MMU_TOQ_STATE_MEM0;
tr 52 M=MMU_TOQ_STATE_MEM0;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=F;
echo " MMU_TOQ_STATE_MEM1";
tr 50 M=MMU_TOQ_STATE_MEM1;
tr 51 M=MMU_TOQ_STATE_MEM1;
tr 52 M=MMU_TOQ_STATE_MEM1;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=F SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=T;
tr 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_0";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_0;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_1";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_1;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_2";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_2;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_3";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_3;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=T;
```

```
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_4";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_4;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=F;
echo " MMU_WRED_DROP_CURVE_PROFILE_5";
tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 52 M=MMU_WRED_DROP_CURVE_PROFILE_5;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_BUFFER";
tr 50 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 51 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 52 M=MMU_WRED_OPN_CONFIG_BUFFER;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_OPN_CONFIG_QENTRY";
tr 50 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 51 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 52 M=MMU_WRED_OPN_CONFIG_QENTRY;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_DEQ";
tr 50 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_DEQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=F SLTH=T;
```

```
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=F;
echo " MMU_WRED_OPN_DROP_THD_ENQ";
tr 50 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 51 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 52 M=MMU_WRED_OPN_DROP_THD_ENQ;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_AVG_QSIZE_BUFFER";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_AVG_QSIZE_QENTRY";
tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 51 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 52 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_BUFFER";
tr 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 52 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_CONFIG_QENTRY";
tr 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 52 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_DEQ";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_DEQ;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_DEQ TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_ENQ_0";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0;
```

```
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_0 TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_DROP_THD_ENQ_1";
tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 51 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 52 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_DROP_THD_ENQ_1 TSE=T SLTH=F;
echo " MMU_WRED_QUEUE_OP_NODE_MAP";
tr 50 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 51 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 52 M=MMU_WRED_QUEUE_OP_NODE_MAP;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
tr 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_M0";
tr 50 M=MODPORT_MAP_M0;
tr 51 M=MODPORT_MAP_M0;
tr 52 M=MODPORT_MAP_M0;
tr 71 M=MODPORT_MAP_M0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M0 TSE=T SLTH=F;
echo " MODPORT_MAP_M1";
tr 50 M=MODPORT_MAP_M1;
tr 51 M=MODPORT_MAP_M1;
tr 52 M=MODPORT_MAP_M1;
tr 71 M=MODPORT_MAP_M1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M1 TSE=T SLTH=F;
echo " MODPORT_MAP_M2";
tr 50 M=MODPORT_MAP_M2;
tr 51 M=MODPORT_MAP_M2;
tr 52 M=MODPORT_MAP_M2;
tr 71 M=MODPORT_MAP_M2 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M2 TSE=T SLTH=F;
echo " MODPORT_MAP_M3";
tr 50 M=MODPORT_MAP_M3;
tr 51 M=MODPORT_MAP_M3;
tr 52 M=MODPORT_MAP_M3;
tr 71 M=MODPORT_MAP_M3 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_M3 TSE=T SLTH=F;
ktsanity_ecc_off.soc
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
```

```
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MULTIPASS_LOOPBACK_BITMAP";
tr 50 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 51 M=MULTIPASS_LOOPBACK_BITMAP;
#tr 52 M=MULTIPASS_LOOPBACK_BITMAP;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=F SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=T;
tr 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=F;
echo " MY_STATION_TCAM";
tr 50 M=MY_STATION_TCAM;
tr 51 M=MY_STATION_TCAM;
tr 52 M=MY_STATION_TCAM;
tr 71 M=MY_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM TSE=T SLTH=F;
echo " MY_STATION_TCAM_DATA_ONLY";
tr 50 M=MY_STATION_TCAM_DATA_ONLY;
tr 51 M=MY_STATION_TCAM_DATA_ONLY;
tr 52 M=MY_STATION_TCAM_DATA_ONLY;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=F;
echo " MY_STATION_TCAM_ENTRY_ONLY";
tr 50 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 51 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 52 M=MY_STATION_TCAM_ENTRY_ONLY;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
```

```
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS";
tr 50 M=OAM_LM_COUNTERS;
tr 51 M=OAM_LM_COUNTERS;
tr 52 M=OAM_LM_COUNTERS;
tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_BRIDGE_BMAP";
tr 50 M=PORT_BRIDGE_BMAP;
#tr 51 M=PORT_BRIDGE_BMAP;
#tr 52 M=PORT_BRIDGE_BMAP;
tr 71 M=PORT_BRIDGE_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=F;
echo " PORT_BRIDGE_MIRROR_BMAP";
tr 50 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 51 M=PORT_BRIDGE_MIRROR_BMAP;
#tr 52 M=PORT_BRIDGE_MIRROR_BMAP;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=F SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=T;
tr 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
```

```
echo " PORT_CBL_TABLE_MODBASE";
tr 50 M=PORT_CBL_TABLE_MODBASE;
tr 51 M=PORT_CBL_TABLE_MODBASE;
tr 52 M=PORT_CBL_TABLE_MODBASE;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
#echo " RMEP";
#tr 50 M=RMEP;
#tr 51 M=RMEP;
#tr 52 M=RMEP;
#tr 71 M=RMEP TSE=F SLTH=T;
#tr 71 M=RMEP TSE=T SLTH=T;
```

```
#tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY_TABLE";
tr 50 M=SOURCE_MOD_PROXY_TABLE;
tr 51 M=SOURCE_MOD_PROXY_TABLE;
tr 52 M=SOURCE_MOD_PROXY_TABLE;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_MODBASE";
tr 50 M=SOURCE_TRUNK_MAP_MODBASE;
tr 51 M=SOURCE_TRUNK_MAP_MODBASE;
tr 52 M=SOURCE_TRUNK_MAP_MODBASE;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
```

```
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SVM_MACROFLOW_INDEX_TABLE";
tr 50 M=SVM_MACROFLOW_INDEX_TABLE;
tr 51 M=SVM_MACROFLOW_INDEX_TABLE;
tr 52 M=SVM_MACROFLOW_INDEX_TABLE;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=F SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=T;
tr 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=F;
echo " SVM_METER_TABLE";
tr 50 M=SVM_METER_TABLE;
tr 51 M=SVM_METER_TABLE;
tr 52 M=SVM_METER_TABLE;
tr 71 M=SVM_METER_TABLE TSE=F SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=T;
tr 71 M=SVM_METER_TABLE TSE=T SLTH=F;
echo " SVM_OFFSET_TABLE";
tr 50 M=SVM_OFFSET_TABLE;
tr 51 M=SVM_OFFSET_TABLE;
tr 52 M=SVM_OFFSET_TABLE;
tr 71 M=SVM_OFFSET_TABLE TSE=F SLTH=T;
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=T;
tr 71 M=SVM_OFFSET_TABLE TSE=T SLTH=F;
echo " SVM_POLICY_TABLE";
tr 50 M=SVM_POLICY_TABLE;
tr 51 M=SVM_POLICY_TABLE;
tr 52 M=SVM_POLICY_TABLE;
tr 71 M=SVM_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=SVM_POLICY_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE_MODBASE";
tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
```

```
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " THDO_OPNCOUNT_QENTRY";
tr 50 M=THDO_OPNCOUNT_QENTRY;
tr 51 M=THDO_OPNCOUNT_QENTRY;
tr 52 M=THDO_OPNCOUNT_QENTRY;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=F SLTH=T;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=T;
tr 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=F;
echo " THDO_QCOUNT_CELL_1";
tr 50 M=THDO_QCOUNT_CELL_1;
tr 51 M=THDO_QCOUNT_CELL_1;
tr 52 M=THDO_QCOUNT_CELL_1;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_CELL_1 TSE=T SLTH=F;
echo " THDO_QCOUNT_QENTRY_0";
tr 50 M=THDO_QCOUNT_QENTRY_0;
tr 51 M=THDO_QCOUNT_QENTRY_0;
tr 52 M=THDO_QCOUNT_QENTRY_0;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_0 TSE=T SLTH=F;
echo " THDO_QCOUNT_QENTRY_1";
tr 50 M=THDO_QCOUNT_QENTRY_1;
tr 51 M=THDO_QCOUNT_QENTRY_1;
tr 52 M=THDO_QCOUNT_QENTRY_1;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=F SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QCOUNT_QENTRY_1 TSE=T SLTH=F;
echo " THDO_QRESET_VALUE_CELL_1";
tr 50 M=THDO_QRESET_VALUE_CELL_1;
tr 51 M=THDO_QRESET_VALUE_CELL_1;
tr 52 M=THDO_QRESET_VALUE_CELL_1;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QRESET_VALUE_CELL_1 TSE=T SLTH=F;
echo " THDO_QRESET_VALUE_QENTRY_1";
tr 50 M=THDO_QRESET_VALUE_QENTRY_1;
tr 51 M=THDO_QRESET_VALUE_QENTRY_1;
tr 52 M=THDO_QRESET_VALUE_QENTRY_1;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=F SLTH=T;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QRESET_VALUE_QENTRY_1 TSE=T SLTH=F;
echo " THDO_QSTATUS_CELL_1";
tr 50 M=THDO_QSTATUS_CELL_1;
tr 51 M=THDO_QSTATUS_CELL_1;
```

```
tr 52 M=THDO_QSTATUS_CELL_1;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=F SLTH=T;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=T;
tr 71 M=THDO_QSTATUS_CELL_1 TSE=T SLTH=F;
echo " THDO_QSTATUS_QENTRY_1";
tr 50 M=THDO_QSTATUS_QENTRY_1;
tr 51 M=THDO_QSTATUS_QENTRY_1;
tr 52 M=THDO_QSTATUS_QENTRY_1;
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=F SLTH=T;
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=T;
tr 71 M=THDO_QSTATUS_QENTRY_1 TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TRUNK_MEMBER";
tr 50 M=TRUNK_MEMBER;
tr 51 M=TRUNK_MEMBER;
tr 52 M=TRUNK_MEMBER;
tr 71 M=TRUNK_MEMBER TSE=F SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=T;
tr 71 M=TRUNK_MEMBER TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
```

```
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " UNKNOWN_HGI_BITMAP";
tr 50 M=UNKNOWN_HGI_BITMAP;
tr 51 M=UNKNOWN_HGI_BITMAP;
tr 52 M=UNKNOWN_HGI_BITMAP;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=F SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=T;
tr 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=F;
echo " UNKNOWN_MCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_MCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
echo " UNKNOWN_UCAST_BLOCK_MASK";
tr 50 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 51 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 52 M=UNKNOWN_UCAST_BLOCK_MASK;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
```

```
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
```

```
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
```

```
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
#echo " XPORT_WC_UCMEM_DATA";
#tr 50 M=XPORT_WC_UCMEM_DATA;
#tr 51 M=XPORT_WC_UCMEM_DATA;
#tr 52 M=XPORT_WC_UCMEM_DATA;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XPORT_WC_UCMEM_DATA TSE=T SLTH=F;
if $?BCM56X4X_B0 \
'echo " LLS_L0_ERROR_MIN"; \
tr 50 M=LLS_L0_ERROR_MIN; \
tr 51 M=LLS_L0_ERROR_MIN; \
tr 52 M=LLS_L0_ERROR_MIN; \
tr 71 M=LLS_L0_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L0_ERROR_MIN TSE=T SLTH=F; \
echo " LLS_L1_ERROR_MIN"; \
tr 50 M=LLS_L1_ERROR_MIN; \
tr 51 M=LLS_L1_ERROR_MIN; \
tr 52 M=LLS_L1_ERROR_MIN; \
tr 71 M=LLS_L1_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L1_ERROR_MIN TSE=T SLTH=F; \
echo " LLS_L2_ERROR_MIN"; \
tr 50 M=LLS_L2_ERROR_MIN; \
tr 51 M=LLS_L2_ERROR_MIN; \
tr 52 M=LLS_L2_ERROR_MIN; \
tr 71 M=LLS_L2_ERROR_MIN TSE=F SLTH=T; \
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=T; \
tr 71 M=LLS_L2_ERROR_MIN TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL0"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL0; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL0; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL0; \
```

```
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL0 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL1"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL1; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL1 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL2"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL2; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL2 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL3"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL3; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL3 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL4"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL4; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL4 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL5"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL5; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL5 TSE=T SLTH=F; \
echo " MMU_TOQ_IPMC_GROUP_TBL6"; \
tr 50 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 51 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 52 M=MMU_TOQ_IPMC_GROUP_TBL6; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=F SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=T SLTH=T; \
tr 71 M=MMU_TOQ_IPMC_GROUP_TBL6 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
```

```
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

set rct=f; set rcl=f;
#Traffic Test
```

```
echo "Running Traffic Test in EXT mode ..."
tr 72 RM=ext PBM=fe
tr 72 RM=ext PBM=ge
tr 72 RM=ext PBM=xe
tr 72 RM=ext PBM=hg
$done

if $?BCM56440 \
'echo "DDR memory Test"; \
ddrphytune ci0,ci2 plot=false pt=1; \
tr 53'
$done

set rct=t; set rcl=t;
# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ktsanity_screen.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/trunk.c

No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;                $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;                $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;              $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;              $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;              $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;              $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;              $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;

local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                    $name; $tr50;
local mem CPU_PBM_2;                    $name; $tr50;
local mem CPU_TS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                    $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                 $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                 $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                  $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;              $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;              $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;           $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;             $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                               $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                           $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                         $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                      $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                      $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                        $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                        $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                              $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                      $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                          $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                  $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                        $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                      $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                        $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                         $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                               $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FCOE_CONTROL_1;                       $name; $tr50;
local mem EGR_FC_HEADER_TYPE;                       $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;            $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;          $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;          $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;            $name; $tr50; $tr51; $tr52;
```

```
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_LPORT_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                    $name; $tr50; $tr51; $tr52;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                    $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr50;
#local mem EGR_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr50;
local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr50;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                    $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                    $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;             $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;             $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;             $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                   $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem FCOE_HOP_COUNT_FN;                    $name; $tr50; $tr51; $tr52;
local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                    $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                    $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                    $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr50;
local mem FP_SLICE_MAP;                    $name; $tr50;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                    $name; $tr50;
local mem IARB_ING_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                    $name; $tr50;
local mem ING_DNAT_ADDRESS_TYPE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_EGRMSKBMAP;                                   $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                            $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                             $name; $tr50; $tr51; $tr52;
local mem ING_FC_HEADER_TYPE;                               $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                      $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                            $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                         $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                     $name; $tr50;
local mem ING_L3_NEXT_HOP;                                  $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                                $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                             $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
```

```
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM; $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X; $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y; $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING; $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO; $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X; $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_DATA_ONLY; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY_X; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY_Y; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_ONLY; $name; $tr50; $tr51; $tr52;
local mem ING_TRILL_PARSE_CONTROL; $name; $tr50;
local mem ING_TRILL_PAYLOAD_PARSE_CONTROL; $name; $tr50;
local mem ING_UNTAGGED_PHB; $name; $tr50; $tr51; $tr52;
local mem ING_VFT_PRI_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B; $name; $tr50; $tr51; $tr52;
local mem ING_VSAN; $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1; $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE; $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM; $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE; $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING; $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK; $name; $tr50; $tr51; $tr52;
local mem L2MC; $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA; $name; $tr50;
local mem L2_BULK_MATCH_MASK; $name; $tr50;
local mem L2_BULK_REPLACE_DATA; $name; $tr50;
local mem L2_BULK_REPLACE_MASK; $name; $tr50;
local mem L2_ENDPOINT_ID; $name; $tr50; $tr51; $tr52;
local mem L2X; $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP; $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY; $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC; $name; $tr50; $tr51; $tr52;
```

```
local mem L2_HITDA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                  $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                  $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                  $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                  $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;                  $name; $tr50;
local mem L2_MOD_FIFO;                      $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                  $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;               $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                         $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';           $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';      $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';          $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';        $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';       $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';      $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';     $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';           $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;               $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;             $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;               $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;               $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;              $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;              $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;              $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;               $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;             $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;             $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;           $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                          $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;
```

```
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                  $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                  $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;              $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;              $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                          $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                               $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                       $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                              $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                            $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                        $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                        $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                            $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                  $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                       $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;         $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;       $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;    $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                            $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                            $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                        $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                        $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;             $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;                        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData25;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData69;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                      $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                           $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                 $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                 $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;              $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                               $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                               $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                                 $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;         $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;       $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                 $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                 $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                     $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                     $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                 $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MODID_BASE_PTR;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                               $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                              $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                           $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                           $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                           $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                           $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                       $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                                   $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;                          $name; $tr50;
#local mem MPLS_ENTRY;                                     $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                        $name; $tr50;
local mem MY_STATION_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                                $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                      $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                     $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                       $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                        $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                             $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                           $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                                 $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                          $name; $tr50;
local mem PORT_CBL_TABLE;                                   $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                           $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                            $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                                         $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                           $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                           $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_DROPS;                                    $name; $tr50;
local mem RH_ECMP_DROPS_X;                                  $name; $tr50;
local mem RH_ECMP_DROPS_Y;                                  $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                                  $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                                     $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                 $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                                   $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                             $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                                     $name; $tr50;
local mem RH_LAG_DROPS_X;                                   $name; $tr50;
```

```
local mem RH_LAG_DROPS_Y;                                   $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                                   $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                                            $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                                            $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                                              $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                                  $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                                $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                                       $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                                     $name; $tr50;
local mem SER_RESULT_1;                                     $name; $tr50;
local mem SER_RESULT_DATA_0;                                $name; $tr50;
local mem SER_RESULT_DATA_1;                                $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                            $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                            $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                             $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                                           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                                           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                                         $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                                        $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                                      $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                                 $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                                          $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP;                             $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;                                        $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                                      $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                                           $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                                         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                            $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                            $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                                          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                                          $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                     $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                      $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                      $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                          $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                $name; $tr50
local mem TRILL_DROP_STATS_X;              $name; $tr50;
local mem TRILL_DROP_STATS_Y;              $name; $tr50;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                 $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                     $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                          $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;            $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;            $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                   $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                     $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;              $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                   $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                   $name; $tr50; $tr51; $tr52;
local mem VFI;                             $name; $tr50; $tr51; $tr52;
local mem VFI_1;                           $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                     $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                   $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                        $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                       $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                  $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                   $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;              $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                         $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                     $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                      $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                      $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                  $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                      $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                      $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                     $name; $tr50; $tr51; $tr52;
local mem VRF;                              $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                      $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                    $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;                    $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr50; $tr51; $tr52;
#local mem RMEP;                    $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";
```

```
echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FCOE_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FC_HEADER_TYPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_LPORT_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;     $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FCOE_HOP_COUNT_FN;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FC_MAP_PROFILE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_X;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_Y;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GM_FIELDS;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_TCAM;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DNAT_ADDRESS_TYPE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FC_HEADER_TYPE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
```

```
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_IPMC_REMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData36;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData8;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;              $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;            $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;          $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDU_YPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem RQE_LINK_LIST;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VOQ_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                        $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_OPCODE_CONTROL_PROFILE;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                        $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1; $name; $tr71_1; $tr71_2; $tr71_3;
#----------

echo "done";

config add parity_enable=1

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56866_a0.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: dcmn_fake.c,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_gen_err.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ddrc28.h
* Purpose: PHY info for ddrc28
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ddrc28.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_system_vswitch.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* System resource example:
* In the following CINT we will try to provide an example of System resources in local mode.
*    The focus of the CINT is on AC-LIFs (bcm_vlan_port_t object in BCM API).
* Similiar principles are apply also to other LIF types such as bcm_mpls_port_t
* (see cint_system_vswitch_vpls.c).
* Each AC-LIF allocates two objects: An Ingress LIF entry and an Egress LIF entry.
* In case of 1:1 protection also a L2 FEC object that stores
* the protection pairs is also being created.
*    When working with system resources in global mode all 3 objects are required to be
* allocated on all devices with the same object ID.
* Please see an example of such schemes in:
* cint_vswitch_metro_mp_multi_devices.c, cint_vswitch_cross_connect_p2p_multi_device.c
*    When working with system resources in local mode not all 3 objects are required to be
* allocated on all devices:
*  * In/Out-AC-Lif need to be created only on devices where the AC is attached to.
*  In case of LAGs, these may be all the potential devices that connect to the LAG port members.
*  * The L2 FEC needs to be created only on devices that forward to the Lif.
*  The following CINT provides some basic examples of AC-LIf metro vswitch allocation schemes when
*  working in local mode.
*  1. VLAN P2P unprotected: see system_vlan_port_p2p_example
*  2. VLAN MP unprotection: see system_vlan_port_mp_example
*  3. VLAN P2P/MP protected: see system_protected_vlan_port_example
*
* assumptions:
* 1. run two devices in same CPU.
* 2. in call unit1 != unit2.
* 3. diag_chassis=1
* 4. bcm88xxx_system_resource_management.<unit1>=1
*    bcm88xxx_system_resource_management.<unit2>=1

* How to run:
cint;
cint_reset();
exit;
cint ../../../../src/examples/dpp/utility/cint_utils_multicast.c
cint ../../../../src/examples/dpp/cint_port_tpid.c
cint ../../../../src/examples/dpp/cint_mact.c
cint ../../../../src/examples/dpp/cint_vswitch_cross_connect_p2p.c
cint ../../../../src/examples/dpp/cint_vswitch_metro_mp.c
cint ../../../../src/examples/dpp/cint_multi_device_utils.c
cint ../../../../src/examples/dpp/cint_system_vswitch_encoding.c
cint ../../../../src/examples/dpp/cint_system_vswitch.c
cint
verbose = 3;
int rv;
int unit1 = 0;
int unit2 = 1;
int sysport1, sysport2, sysport3;
```

```
print port_to_system_port(unit1, 13, &sysport1);
print port_to_system_port(unit2, 14, &sysport2);
print port_to_system_port(unit2, 15, &sysport3);

for P2P unprotected case:
print system_vlan_port_p2p_example(unit1, sysport1, unit2, sysport2);

for MP unprotected case:
print system_vlan_port_mp_example(unit1, sysport1, sysport2, unit2, sysport3);

for P2P protection case:
print system_protected_vlan_port_example(unit1, sysport1, unit2, sysport2, sysport3, 0);

for MP protection case:
print system_protected_vlan_port_example(unit1, sysport1, unit2, sysport2, sysport3, 1);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_system_vswitch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: max6653.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*             [BSC] - Broadcom Serical Control (I2C constroller)
*               |
*      ==========O=======o================ I2C bus
*                    |
*                [pca9548 - 8-port mux]
*                  |||||||
*         [eeprom]  - |||||||
```

```
*          [max6653]  -  | | | | | |
*           [max6653]   -  | | |
*             [max6653]   -  | |
*               [max6653]   -   - [dpm73]
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/max6653.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC register access implementation for DNX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/reg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsConfig.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/flashFsConfig.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config_BCM95302X_switchmacsec.bcm,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Includes bcm53022, bcm53023, bcm53025

#Enable MACSEC feature on the MACSEC phys.
macsec_enable=1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
```

```
#macsec_dev_addr
macsec_dev_addr_ge4=0x21B
macsec_dev_addr_ge5=0x21A

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
#macsec_port_index
macsec_port_index_ge4=0
macsec_port_index_ge5=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/macsec/config_BCM95302X_switchmacsec.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry poit for Crash Recovery feature
*
* some design details:
* - transaction starts at the beginning of an API and ends at the end of an API
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_crash_recovery_test.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_crash_recovery_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF FABRIC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_stat.c,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    servo.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_servo_configuration_get
*     bcm_common_ptp_servo_configuration_set
*     bcm_common_ptp_servo_status_get
*     bcm_common_ptp_phase_offset_set
*     bcm_common_ptp_phase_offset_get
*
*     _bcm_ptp_servo_start
*     _bcm_ptp_servo_restart
*     _bcm_ptp_servo_stop
*     _bcm_ptp_servo_ipdv_configuration_get
*     _bcm_ptp_servo_ipdv_configuration_set
*     _bcm_ptp_servo_performance_get
*     _bcm_ptp_servo_ipdv_performance_get
*     _bcm_ptp_servo_performance_data_clear
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/servo.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_table.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_table.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_modid_local_map.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE MODID LOCAL MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/dfe_modid_local_map.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: api_mode.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       api_mode.c
* Purpose:     API mode grammar implementation
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/api_mode.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_fp_egr.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_fp_egr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: board.c,v 1.8 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board.c
* Purpose:     Board driver CLI
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/board.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: falcon_furia_interface.h 869 2015-01-23 00:24:44Z kirand $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon_furia/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
```

*
* falcon_furia_interface.h - provides the primary functionality.
*
* falcon_furia_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_interface.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_interface.h
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Notes on L2 Shadow Tables
Curt McDowell, Broadcom Corp. 12-18-01
Last Updated: 03-08-04
---

1. Purpose of L2 Shadow Table

In some applications it may be desirable for ethernet switch software to
keep an L2 (ARL) Shadow Table, which is a copy of the hardware L2 lookup
table in host memory that is kept up to date as closely as possible.

Some possible uses for an L2 shadow table are:

* Software L2 address resolution for packet transmission and ARP lookup

* SNMP "get" and "get next" operations.

* Maintaining synchronized ARLs across multiple chips in a system.

2. StrataSwitch Family

Switch chips including BCM560x, BCM561x, BCM562x, and BCM568x implement
the 8K-entry ARL table as a linear list that is kept in sorted order by
the hardware.

When entries are inserted or deleted, the table is bubbled up and down as needed. When entries are looked up, a binary search is used. The binary search skips the first entry (index 0) so that only 13 memory clocks are needed.

For proper operation, it is required that a special static entry be inserted at initialization time with

```
ST=1
VLAN_TAG=0xffe
MAC_ADDR=0xffffffffffe
```

Without this entry, bad things can happen when the table overflows. With this entry, new addresses are not learned if the table is full.

Because the hardware changes this table dynamically, software needs to modify it using special ARL insert and delete S-channel operations rather than regular memory read/write operations. It is feasible to use read/write operations on the ARL only when both hardware learning and hardware aging are disabled (bcm_l2_freeze).

The hardware performs inserts when learning new addresses, deletes when processing an aging cycle, and delete/insert pairs when port movement is detected.

A hardware-assisted ARL lookup operation is provided in BCM560x, BCM561x, and BCM568x. In some cases, this may eliminate the need to maintain an ARL shadow table.

3. ARL DMA

The StrataSwitch family has a feature called ARL DMA. When this feature is enabled, a 16-byte record, or "message," is written into host memory for each hardware ARL insert or delete that occurs. Transfers are directed by a base address register that increments and a counter register decrements each time a message is written. A four-message buffer provides time to reload these registers when the count reaches zero. Software insertions and deletions are not reflected in ARL DMA.

The StrataSwitch driver ARL Message Task (arlmsg.c) processes messages as they are received, mirroring them into an AVL tree that is sorted by VLAN+MAC. The AVL tree allows for software lookups and in-order traversals of ARL entries.

One problem with ARL DMA is that the ARL may learn at a rate much faster than the CPU can keep up with. If this happens and the buffers fill up, ARL messages can be dropped. While this is an unusual situation, it must be detected and dealt with if it happens. There are not many

options for recovering in this case. In the current driver, this is handled by turning off hardware learning and aging, re-reading the entire ARL table to resynchronize the shadow table, then restoring learning and aging activity.

4. XGS Family

In the BCM569x member of the XGS Family, the L2 table is hashed. This permits much faster, less complex insert, delete and lookup operations in hardware. It is important especially because the table is larger (16K entries) and much requires much higher lookup bandwidth.

The hardware performs inserts when learning new addresses, deletes when processing an aging cycle, and delete/insert pairs when port movement is detected.

A hardware-assisted L2 lookup operation is provided. In some cases, this may eliminate the need to maintain an ARL shadow table. Also, both software and hardware-assisted versions of the table hash functions are available.

There is no ARL DMA feature in XGS. Instead, the StrataSwitch driver L2 Message Task (l2xmsg.c) periodically reads the L2 table and synchronizes an AVL tree in host memory. The AVL tree is sorted by VLAN+MAC. A new XGS feature called Table DMA is used to read the L2 table in one quick, efficient operation.

5. Message Callbacks

The AVL tree structure used for storing an L2 shadow table has a callback feature which can call a user-supplied routine each time an entry is inserted or deleted in the tree.

This callback feature may be used to pass individual inserts or deletes to a higher level in the software. It is ensured that the AVL tree callbacks will receive a coherent stream of messages; i.e., an eventual delete will occur for every insert and the number of outstanding inserts is bounded by the physical entry count.

Because the AVL tree is kept in sync with the hardware, even in the case of StrataSwitch where ARL DMA messages may be dropped, synchronization is maintained. In the case of XGS, a stream of insert/delete messages is generated from the hash table.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/l2-shadow.txt
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_tunnel_profile.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_tunnel_profile.c
* Purpose: An example of how to map tunnel_ID to PP port of PON application and set different properties (VTT lookup mode and VLAN range) per LLID profile.
*       The following CINT provides a calling sequence example to set the different tunnel_id to be mapped to different LLID profile and bring up one main PON services 1:1 Model.
*       ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers 0-7).
*       Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service (ONU), and class of service.
*       Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link Identification (LLID), i.e., service or ONU#.
*       We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is prepended to the VLAN-Tag stack (as the outermost tag).
*       Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
*       When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
*       When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
*  1. PON regular initial routine
*       - call pon_app_init()
*  2. Create PON PP port with different PON tunnel profile id 0.
*       - call bcm_port_pon_tunnel_add()
*  3. Map tunnel id 1000/1001 to PON PP port 5 (indirectly mapped to PON tunnel profile id 0).
*       - call bcm_port_pon_tunnel_map_set()
*  4. Set TPIDs of PON pp port 5.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  5. Set VLAN domain of PON pp port 5 to 5.
*       - call bcm_port_class_set()
*  6. Enable additional port tunnel lookup in PON PP port 5.
*       - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable
*  7. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*  8. Create PON PP port with different PON tunnel profile id 1.
*       - call bcm_port_pon_tunnel_add()
*  9. Map tunnel id 1002/1003 to PON PP port 13 (indirectly mapped to PON tunnel profile id 1).
*       - call bcm_port_pon_tunnel_map_set()
*  10. Set TPIDs of PON pp port 13.
*       - call bcm_port_tpid_delete_all()
```

```
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  11. Set VLAN domain of PON pp port 13 to 13.
*       - call bcm_port_class_set()
*  12. Enable ingore inner VLAN tag lookup in PON PP port 13.
*       - call bcm_vlan_control_port_set() with bcmVlanPortIgnoreInnerPktTag
*  13. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*  14. Create PON PP port with different PON tunnel profile id 2.
*       - call bcm_port_pon_tunnel_add()
*  15. Map tunnel id 1004/1005 to PON PP port 13 (indirectly mapped to PON tunnel profile id 2).
*       - call bcm_port_pon_tunnel_map_set()
*  16. Set TPIDs of PON pp port 21.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  17. Set VLAN domain of PON pp port 21 to 21.
*       - call bcm_port_class_set()
*  18. Set PON pp port 21 to discard all packets.
*       - call bcm_port_discard_set() with BCM_PORT_DISCARD_ALL
*
* 1:1 Service:
* Set up sequence:
*  1. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN
*  2. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  3. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  4. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  5. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
* 1:1 Service:
*    N(1) PON Port 5  <----------------------------  CrossConnect  ------------> 1 NNI Port 129
```

```
*    Tunnel-ID 1000 SVLAN 20 PON_PP_PORT 5 <-------------------------------------> SVLAN 200
*    Tunnel-ID 1000 SVLAN 20 CVLAN 21 PON_PP_PORT 5 <---------------------------> SVLAN 201 CVLAN 21
*    Tunnel-ID 1000 SVLAN range 50~60 PON_PP_PORT 5 <---------------------------> SVLAN 70
*
*    Tunnel-ID 1001 SVLAN 20 PON_PP_PORT 5 <-------------------------------------> SVLAN 210
*    Tunnel-ID 1001 SVLAN 20 CVLAN 21 PON_PP_PORT 5 <---------------------------> SVLAN 202 CVLAN 21
*    Tunnel-ID 1001 SVLAN range 50~60 PON_PP_PORT 5 <---------------------------> SVLAN 500
*
*    Tunnel-ID 1002 SVLAN 30 PON_PP_PORT 13 <------------------------------------> SVLAN 300
*    Tunnel-ID 1002 SVLAN 30 CVLAN 31 PON_PP_PORT 13 <--------------------------> SVLAN 303 CVLAN 31
*    Tunnel-ID 1002 SVLAN range 80~90 PON_PP_PORT 13 <--------------------------> SVLAN 800
*
*    Tunnel-ID 1003 SVLAN 30 PON_PP_PORT 13 <------------------------------------> SVLAN 310
*    Tunnel-ID 1003 SVLAN 30 CVLAN 31 PON_PP_PORT 13 <--------------------------> SVLAN 304 CVLAN 31
*    Tunnel-ID 1003 SVLAN range 80~90 PON_PP_PORT 13 <--------------------------> SVLAN 1000
*
*    Tunnel-ID 1004 SVLAN 40 PON_PP_PORT 21 <------------------------------------> SVLAN 400
*    Tunnel-ID 1005 SVLAN 40 PON_PP_PORT 21 <------------------------------------> SVLAN 410
*
* Traffic:
*  1. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN 20 <-CrossConnect-> NNI Port 129 SVLAN 200
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 200
*
*  2. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN 20 CVLAN 21 <-CrossConnect-> NNI Port 129 SVLAN
201 CVLAN 21
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 201, VLAN tag type 0x9100, VID = 21
*
*  3. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN range 50~60 <-CrossConnect-> NNI Port 129 SVLAN 70
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1000
*           -   VLAN tag: VLAN tag type 0x8100, VID = 55
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 70
*
```

```
*  4. PON Port 5 PON PP Port 5 Tunnel-ID 1001 SVLAN 20 <-CrossConnect-> NNI Port 129 SVLAN 210
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 210
*
*  5. PON Port 5 PON PP Port 5 Tunnel-ID 1001 SVLAN 20 CVLAN 21 <-CrossConnect-> NNI Port 129 SVLAN
202 CVLAN 21
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 202, VLAN tag type 0x9100, VID = 21
*
*  6. PON Port 5 PON PP Port 5 Tunnel-ID 1001 SVLAN range 50~60 <-CrossConnect-> NNI Port 129 SVLAN
500
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 55
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 500
*
*  7. PON Port 5 PON PP Port 13 Tunnel-ID 1002 SVLAN 30 <-CrossConnect-> NNI Port 129 SVLAN 300
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1002
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 300
*
*  8. PON Port 5 PON PP Port 13 Tunnel-ID 1002 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129
SVLAN 303 CVLAN 31
*    - Upstream is matched by Port 5 Tunnel-ID 1002 SVLAN 30 <--CrossConnect--> NNI Port 129 SVLAN 300,
becasue LLID profile ingore 2nd VLAN tag.
*    - Packets received in NNI port have outer VLAN 30, inner VLAN 31, because matched service doesn't have
double tag modifications.
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
```

```
*    - Downstrean is macthed by NNI Port 129 SVLAN 303 CVLAN 31 <--CrossConnect--> Port 5 Tunnel-ID 1002
SVLAN 30 CVLAN 31.
*    - Packets received in PON port have outer VLAN 30, inner VLAN 31.
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*  9. PON Port 5 PON PP Port 13 Tunnel-ID 1002 SVLAN range 80~90 <-CrossConnect-> NNI Port 129 SVLAN
800
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1002
*           -   VLAN tag: VLAN tag type 0x8100, VID = 85
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 800
*
*  10. PON Port 5 PON PP Port 13 Tunnel-ID 1003 SVLAN 30 <-CrossConnect-> NNI Port 129 SVLAN 310
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1003
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 310
*
*  11. PON Port 5 PON PP Port 13 Tunnel-ID 1003 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129
SVLAN 304 CVLAN 31
*    - Upstream is matched by Port 5 Tunnel-ID 1003 SVLAN 30 <--CrossConnect--> NNI Port 129 SVLAN 310,
becasue LLID profile ingore 2nd VLAN tag.
*    - Packets received in NNI port have outer VLAN 30, inner VLAN 31, because matched service doesn't have
double tag modifications.
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1003
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*    - Downstrean is macthed by NNI Port 129 SVLAN 304 CVLAN 31 <--CrossConnect--> Port 5 Tunnel-ID 1003
SVLAN 30 CVLAN 31.
*    - Packets received in PON port have outer VLAN 30, inner VLAN 31.
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*  12. PON Port 5 PON PP Port 13 Tunnel-ID 1003 SVLAN range 800~900 <-CrossConnect-> NNI Port 129
SVLAN 1000
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1003
*           -   VLAN tag: VLAN tag type 0x8100, VID = 855
*       - From NNI port:
```

```
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 1000
*
*  13. PON Port 5 PON PP Port 21 Tunnel-ID 1004 SVLAN 40 <-CrossConnect-> NNI Port 129 SVLAN 400
*    - Upstream is dropped, becasue PON pp port 21 drops all packets.
*       - From PON port:
*            -   ethernet header with any DA, SA
*            -   Tunnel ID:1004
*            -   VLAN tag: VLAN tag type 0x8100, VID = 40
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 400
*
*  14. PON Port 5 PON PP Port 21 Tunnel-ID 1005 SVLAN 40 <-CrossConnect-> NNI Port 129 SVLAN 410
*    - Upstream is dropped, becasue PON pp port 21 drops all packets.
*       - From PON port:
*            -   ethernet header with any DA, SA
*            -   Tunnel ID:1005
*            -   VLAN tag: VLAN tag type 0x8100, VID = 40
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 410
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_tunnel_profile.c
*     BCM> cint
*     cint> pon_tunnel_service_init(unit, pon_port, nni_port);
*     cint> pon_tunnel_mapping_1_1_service(unit);
*     cint> pon_tunnel_mapping_1_1_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_tunnel_profile.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     vlan.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    external_stack.c
*
* Purpose:
*
* Functions:
*      _bcm_ptp_external_stack_create
*      _bcm_ptp_ext_stack_reset
*      _bcm_ptp_ext_stack_start
*      _bcm_ptp_write_pcishared_uint8_aligned_array
*
*      esw_set_ext_stack_config_uint32
*      esw_set_ext_stack_config_array
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ptp/external_stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: context.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* File: context.c
* Purpose: Determine ident/value context
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/context.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mac.c,v 1.81 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Modena Media Access Controller API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mac.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgMemShapingEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemShapingEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 STACK H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_stack.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: sbZfKaRbClassDmacMatchEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassDmacMatchEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_timna_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_timna_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcoe.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* extender structure initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/fcoe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: age.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/age.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
```

*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Mutex and Semaphore Synchronization with BCM Libraries
Curt McDowell, 02/10/02

---

1. Semaphores

sal_sem_t

1.1. Binary semaphores

1.2. Counting semaphores

2. Mutexes

sal_mutex_t

2.1. Recursive Mutex

The SAL must implement 'recursive' mutexes similar to the ones provided by VxWorks. The same task may take the mutex multiple times and an internal count is kept of the number of times the mutex has been taken.

Recursive mutexes permit lower level routines to lock resources without worrying if a higher level routine has already locked it.

It is easy to build 'recursive' mutexes on top of non-recursive ones such as POSIX mutexes. See the unix SAL implementation for an example.

2.2. Signal blocking

The SAL mutex implementation should block user aborts (SIGINT or Control-C) as long as any mutex is held by the task running on the console. Otherwise, the signal may result in a longjmp somewhere else and and the mutex will never be released.

See the VxWorks and unix SAL implementations for examples.

3. Timeouts

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/sync.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_mmu.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_mmu.c
* Purpose: Maintains all the debug information for mmu
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mmu/tomahawk_mmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ser.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SER common code.
*
* Common code for memory SER protection.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ser.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_u64.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_u64.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_u64.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd_pkt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd_pkt.h
```

```
* Purpose:     BFD Packet Format definitions
*               common to SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bfd_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macutil.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/macutil.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_dissect.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OAM input analysis and validation internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/oam_dissect.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allocator.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        allocator.h
* Purpose:     Internal routines to the BCM library for allocating
*               caladan3 resources.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/allocator.h
No license file was found, but licenses were detected in source scan.

```
/*  company private proprietary, and trade secret.                    */
```

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_ipconfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: null_drv.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC NULL DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/null_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  arl.h
* Purpose:  Defines structures and routines for ARL operations
*           defined in:
*           drv/arl.c      HW table management
*           drv/arlmsg.c   ARL message handling
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/arl.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_mymac.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_mymac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbG2FeEgrRouteHeader.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the Gu2k Egress Route header definition
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbG2FeEgrRouteHeader.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88270_a0.c
* Purpose:     bcm88270_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88270_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_egress_accpetable_frame_type.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_egress_accpetable_frame_type.c
* Purpose: Test egress frame type filter
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_egress_acceptable_frame_type.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: fe1600_fabric_multicast.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     Implement 'Field Processor' (FP) API for BCM88030 (SBX Caladan3 +
*     Guadalupe-2000) G3P1 forwarder microcode and classifier picocode (plus
*     other undocumented arcana).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/field.c
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common defs for reg spec for chip pl
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_pl_auto.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_general.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_general.c
*
* MODULE PREFIX:  soc_petra
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_general.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_parse.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based printing and parsing functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: et_soc.h,v 1.3.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom device driver tunables for
* Broadcom BCM44XX and BCM47XX 10/100Mbps Ethernet Device Driver
*
* Note: This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
* the contents of this file may not be disclosed to third parties, copied or
* duplicated in any form, in whole or in part, without the prior written
```

```
* permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/et_soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: ocm.h,v 1.18 Broadcom SDK $
*
* ocm.h : OCM defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/ocm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lex.patch,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       lex.patch
* Purpose:    Add additional error checking to generated flex code
*             Patch validated with Flex 2.5.31 and 2.5.35
*             This is expected to apply with offsets from 2.5.31 to 2.5.34
*             Known not to apply with 2.5.37
*/


--- cint_c.lex.c 2013-03-20 11:06:22.275687000 -0700
+++ cint_c.lex.c.new 2013-03-20 11:10:19.326809000 -0700
@@ -349,7 +349,6 @@ typedef int yy_state_type;
static yy_state_type yy_get_previous_state (yyscan_t yyscanner );
static yy_state_type yy_try_NUL_trans (yy_state_type current_state  ,yyscan_t yyscanner);
static int yy_get_next_buffer (yyscan_t yyscanner );
-static void yy_fatal_error (yyconst char msg[] ,yyscan_t yyscanner );
```

```
/* Done after the current pattern has been matched and before the
 * corresponding action - sets up yytext.
@@ -898,11 +897,6 @@ static int input (yyscan_t yyscanner );
#define YY_START_STACK_INCR 25
#endif

-/* Report a fatal error. */
-#ifndef YY_FATAL_ERROR
-#define YY_FATAL_ERROR(msg) yy_fatal_error( msg , yyscanner)
-#endif
-
/* end tables serialization structures and prototypes */

/* Default declaration of generated scanner - a define so the user can
@@ -931,6 +925,13 @@ extern int cint_c_lex (YYSTYPE * yylval_
#define YY_RULE_SETUP \
 YY_USER_ACTION

+/*
+ * BRCM: Check buffer stack
+ */
+#ifndef YY_CHECK_BUFFER_STACK
+#define YY_CHECK_BUFFER_STACK if (!yyg->yy_buffer_stack) YY_FATAL_ERROR("buffer error")
+#endif
+
/** The main scanner function which does all the work.
 */
YY_DECL
@@ -957,6 +958,7 @@ YY_DECL
#ifdef YY_USER_INIT
  YY_USER_INIT;
#endif
+  YY_CHECK_BUFFER_STACK;

  if ( ! yyg->yy_start )
   yyg->yy_start = 1; /* first start state */
@@ -1679,6 +1681,7 @@ ECHO;
  /* Undo the effects of YY_DO_BEFORE_ACTION. */
  *yy_cp = yyg->yy_hold_char;
  YY_RESTORE_YY_MORE_OFFSET
+  YY_CHECK_BUFFER_STACK;

  if ( YY_CURRENT_BUFFER_LVALUE->yy_buffer_status == YY_BUFFER_NEW )
   {
@@ -2085,6 +2088,7 @@ static int yy_get_next_buffer (yyscan_t

 if ( ! YY_CURRENT_BUFFER ){
       cint_c_ensure_buffer_stack (yyscanner);
```

```
+       YY_CHECK_BUFFER_STACK;
  YY_CURRENT_BUFFER_LVALUE =
            cint_c__create_buffer(yyin,YY_BUF_SIZE ,yyscanner);
 }
@@ -2118,6 +2122,7 @@ static int yy_get_next_buffer (yyscan_t
  YY_CURRENT_BUFFER_LVALUE->yy_n_chars = yyg->yy_n_chars;
  }

+       YY_CHECK_BUFFER_STACK;
 YY_CURRENT_BUFFER_LVALUE = new_buffer;
 cint_c__load_buffer_state(yyscanner );

@@ -2271,6 +2276,7 @@ void cint_c_push_buffer_state (YY_BUFFER
 /* Only push if top exists. Otherwise, replace top. */
 if (YY_CURRENT_BUFFER)
  yyg->yy_buffer_stack_top++;
+       YY_CHECK_BUFFER_STACK;
 YY_CURRENT_BUFFER_LVALUE = new_buffer;

 /* copied from cint_c__switch_to_buffer. */
@@ -2314,11 +2320,11 @@ static void cint_c_ensure_buffer_stack (
   * immediate realloc on the next call.
        */
  num_to_alloc = 1;
-  yyg->yy_buffer_stack = (struct yy_buffer_state**)cint_c_alloc
-       (num_to_alloc * sizeof(struct yy_buffer_state*)
+  yyg->yy_buffer_stack = (struct yy_buffer_state**)cint_c_realloc
+                  (NULL, num_to_alloc * sizeof(struct yy_buffer_state*)
       , yyscanner);

-  memset(yyg->yy_buffer_stack, 0, num_to_alloc * sizeof(struct yy_buffer_state*));
+  cint_cparser_memset(yyg->yy_buffer_stack, 0, num_to_alloc * sizeof(struct yy_buffer_state*));

  yyg->yy_buffer_stack_max = num_to_alloc;
  yyg->yy_buffer_stack_top = 0;
@@ -2337,7 +2343,7 @@ static void cint_c_ensure_buffer_stack (
       , yyscanner);

  /* zero only the new slots.*/
-  memset(yyg->yy_buffer_stack + yyg->yy_buffer_stack_max, 0, grow_size * sizeof(struct yy_buffer_state*));
+  cint_cparser_memset(yyg->yy_buffer_stack + yyg->yy_buffer_stack_max, 0, grow_size * sizeof(struct
yy_buffer_state*));
  yyg->yy_buffer_stack_max = num_to_alloc;
 }
}
@@ -2414,16 +2420,6 @@ YY_BUFFER_STATE cint_c__scan_bytes  (yyc
 return b;
}
```

```
-#ifndef YY_EXIT_FAILURE
-#define YY_EXIT_FAILURE 2
-#endif
-
-static void yy_fatal_error (yyconst char* msg , yyscan_t yyscanner)
-{
-     (void) fprintf( stderr, "%s\n", msg );
- exit( YY_EXIT_FAILURE );
-}
-
/* Redefine yyless() so it works in section 3 code. */

#undef yyless
@@ -2535,7 +2531,7 @@ void cint_c_set_lineno (int  line_number

        /* lineno is only valid if an input buffer exists. */
        if (! YY_CURRENT_BUFFER )
-           yy_fatal_error( "cint_c_set_lineno called with no buffer" , yyscanner);
+            YY_FATAL_ERROR( "cint_c_set_lineno called with no buffer" );

    yylineno = line_number;
}
@@ -2550,7 +2546,7 @@ void cint_c_set_column (int  column_no ,

        /* column is only valid if an input buffer exists. */
        if (! YY_CURRENT_BUFFER )
-           yy_fatal_error( "cint_c_set_column called with no buffer" , yyscanner);
+            YY_FATAL_ERROR( "cint_c_set_column called with no buffer" );

    yycolumn = column_no;
}
@@ -2664,7 +2660,7 @@ int cint_c_lex_init(yyscan_t* ptr_yy_glo
        return 1;
    }

-    memset(*ptr_yy_globals,0,sizeof(struct yyguts_t));
+    cint_cparser_memset(*ptr_yy_globals,0,sizeof(struct yyguts_t));

    return yy_init_globals ( *ptr_yy_globals );
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/lex.patch
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: symtab.c,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register mnemonic address parsing routines.
* See description for parse_symbolic_reference.
* This module is used by command line shells.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/symtab.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_parse.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_parse.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_parse.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmbasic.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmbasic.c

No license file was found, but licenses were detected in source scan.

```
/**
* @file sbMkEplibContext.h - Define handle used for reference
*
* <pre>
* ========================================================
* ==  sbMkEplibContext.h - Define handle used for reference ==
* ========================================================
*
* WORKING REVISION: $Id: sbG2EplibContext.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbMkEplibContext.h
*
* ABSTRACT:
*
*     Define handle used for reference
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*     Josh Weissman
*
* CREATION DATE:
*
*     14-February-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2EplibContext.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_encap_access.c,v 1.43 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_encap_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmSysportArrayEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmSysportArrayEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tas.h
* Purpose:    Definitions for TAS.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tas.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_low_level.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_low_level.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_low_level.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmFbLineConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmFbLineConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fe600_bsp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fe600_bsp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: variable.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: variable.c
* Purpose: Variable routines with scope support functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/variable.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane chipcommon serial flash interface
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sflash.c,v 1.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sflash.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_fem_tag.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_pmf_low_level.c
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_pmf_low_level_fem_tag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scache.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Level 2 Warm Boot cache management
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/scache.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_flash.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_flash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: et_soc.c,v 1.20 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom SOC layer device driver for
* Broadcom BCM44XX and BCM47XX 10/100 Mbps Ethernet Controller
*
* NOTE: This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
* the contents of this file may not be disclosed to third parties, copied or
* duplicated in any form, in whole or in part, without the prior written
* permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/et_soc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_chip_regs.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_chip_regs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: port.c,v 1.83.14.22 Broadcom SDK $
*
* File:    port.c
* Purpose: Caladan3 port related drivers
* Requires:
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/port.c

No license file was found, but licenses were detected in source scan.

/*
****
Copyright 2015-2017 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
   OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
   OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
   ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.

```
*****************************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/kbp_pcie.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/kbp_pcie.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_vsi.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_vsi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcktwatch.c,v 1.66 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet Watcher
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/pcktwatch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     hal_swtich.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/switch.h

No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
000000000000000000000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
```

ff8000000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
22c080a0ffe81f4c03fd8000
22c080a0ffe81f4d03fda000
22c080a0ffe81f4e03fdc000
22c080a0ffe81f4f03fde000
22c080a0ffe81f4803fd0000
22c080a0ffe81f4903fd2000
22c080a0ffe81f4a03fd4000
22c080a0ffe81f4b03fd6000
22c080a0ffe81f4403fc8000
22c080a0ffe81f4503fca000
22c080a0ffe81f4603fcc000
22c080a0ffe81f4703fce000
22c080a0ffe81f4003fc0000
22c080a0ffe81f4103fc2000
22c080a0ffe81f4203fc4000
22c080a0ffe81f4303fc6000

224080a2ffe81330027f8000
24c4007dffe0000000000000
22c08061ffe81f5403fe8000
22c08061ffe81f5503fea000
22c08061ffe81f5603fec000
22c08061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22c08068fff01ff400000000
22c08068fff01ff500000000
22c08068fff01ff600000000
22c08068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
22c0806fffe81f5003fe0000
22c0806fffe81f5103fe2000
22c0806fffe81f5203fe4000
22c0806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22c08076fff01ff000000000
22c08076fff01ff100000000
22c08076fff01ff200000000
22c08076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
224080a6ffe81f2d03ff6000
224080a6ffe81f2c03ff4000
224080a6ffe81f2b03ff2000
224080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000
224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe00000deadbeef
44c41f57ffe00000deadbeef
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe00000deadbeef
44c41f53ffe00000deadbeef
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c10150ffe81f4c03fd8000
42c10150ffe81f4d03fda000
42c10150ffe81f4e03fdc000
42c10150ffe81f4f03fde000
42c10150ffe81f4803fd0000
42c10150ffe81f4903fd2000
42c10150ffe81f4a03fd4000
42c10150ffe81f4b03fd6000
42c10150ffe81f4403fc8000
42c10150ffe81f4503fca000
42c10150ffe81f4603fcc000
42c10150ffe81f4703fce000
42c10150ffe81f4003fc0000
42c10150ffe81f4103fc2000
42c10150ffe81f4203fc4000
42c10150ffe81f4303fc6000
42410152ffe81330027f8000
42c10154ffe81f5403fe8000
42c10154ffe81f5503fea000
42c10154ffe81f5603fec000
42c10154ffe81f5703fee000
42c10154ffe81f5003fe0000
42c10154ffe81f5103fe2000
42c10154ffe81f5203fe4000
42c10154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42410156ffe81f2d03ff6000
42410156ffe81f2c03ff4000
42410156ffe81f2b03ff2000

42410156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000
42410158ffe81f5803e30000
42410158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000

4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000

2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000
2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 1
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
000000000000000000000000
000000000000000000000000
000000000000000000000000
2c171c38ffe0003000000000
000000000000000000000000
ff8000000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
```

24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
224088a6ffe81f2d03ff6000
224088a6ffe81f2c03ff4000
224088a6ffe81f2b03ff2000
224088a6ffe81f2a03ff0000
253f03a2fff100a200000001
22c088a0ffe81f4c03fd8000
22c088a0ffe81f4d03fda000
22c088a0ffe81f4e03fdc000
22c088a0ffe81f4f03fde000
22c088a0ffe81f4803fd0000
22c088a0ffe81f4903fd2000
22c088a0ffe81f4a03fd4000
22c088a0ffe81f4b03fd6000
22c088a0ffe81f4403fc8000
22c088a0ffe81f4503fca000
22c088a0ffe81f4603fcc000
22c088a0ffe81f4703fce000
22c088a0ffe81f4003fc0000
22c088a0ffe81f4103fc2000
22c088a0ffe81f4203fc4000
22c088a0ffe81f4303fc6000
224088a2ffe81330027f8000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000

2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
22c088a4ffe81f5403fe8000
22c088a4ffe81f5503fea000
22c088a4ffe81f5603fec000
22c088a4ffe81f5703fee000
22c088a4ffe81f5003fe0000
22c088a4ffe81f5103fe2000
22c088a4ffe81f5203fe4000
22c088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000

224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000
228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000

44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
000000000000000000000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000

44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c10950ffe81f4c03fd8000
42c10950ffe81f4d03fda000
42c10950ffe81f4e03fdc000
42c10950ffe81f4f03fde000
42c10950ffe81f4803fd0000
42c10950ffe81f4903fd2000
42c10950ffe81f4a03fd4000
42c10950ffe81f4b03fd6000
42c10950ffe81f4403fc8000
42c10950ffe81f4503fca000
42c10950ffe81f4603fcc000
42c10950ffe81f4703fce000
42c10950ffe81f4003fc0000
42c10950ffe81f4103fc2000
42c10950ffe81f4203fc4000
42c10950ffe81f4303fc6000
42410952ffe81330027f8000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c10954ffe81f5403fe8000
42c10954ffe81f5503fea000
42c10954ffe81f5603fec000
42c10954ffe81f5703fee000
42c10954ffe81f5003fe0000
42c10954ffe81f5103fe2000
42c10954ffe81f5203fe4000

42c10954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410956ffe81f2d03ff6000
42410956ffe81f2c03ff4000
42410956ffe81f2b03ff2000
42410956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000
2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42410958ffe81f6003e40000
42410958ffe81f6103e42000
42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000

42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc0000000000000000000000
24c41f56fff01f0cee220000
2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000
24c41f58fff01f0dee110000
2240899dffe81f5803e30000
24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000

2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000
2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 2
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff108aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff208aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
000000000000000000000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280902e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228090aaffe0000000000000
2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000

24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
22c090a0ffe81f4803fd0000
22c090a0ffe81f4903fd2000
22c090a0ffe81f4a03fd4000
22c090a0ffe81f4b03fd6000
22c090a0ffe81f4403fc8000
22c090a0ffe81f4503fca000
22c090a0ffe81f4603fcc000
22c090a0ffe81f4703fce000
224090a2ffe81330027f8000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
22c090a4ffe81f5403fe8000
22c090a4ffe81f5503fea000
22c090a4ffe81f5603fec000
22c090a4ffe81f5703fee000
22c090a4ffe81f5003fe0000

22c090a4ffe81f5103fe2000
22c090a4ffe81f5203fe4000
22c090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a6ffe81f2d03ff6000
224090a6ffe81f2c03ff4000
224090a6ffe81f2b03ff2000
224090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000

000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000
228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000

44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000

44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c11150ffe81f4c03fd8000
42c11150ffe81f4d03fda000
42c11150ffe81f4e03fdc000
42c11150ffe81f4f03fde000
42c11150ffe81f4803fd0000
42c11150ffe81f4903fd2000
42c11150ffe81f4a03fd4000
42c11150ffe81f4b03fd6000
42c11150ffe81f4403fc8000
42c11150ffe81f4503fca000
42c11150ffe81f4603fcc000
42c11150ffe81f4703fce000
42c11150ffe81f4003fc0000
42c11150ffe81f4103fc2000
42c11150ffe81f4203fc4000
42c11150ffe81f4303fc6000
42411152ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411156ffe81f2d03ff6000
42411156ffe81f2c03ff4000
42411156ffe81f2b03ff2000
42411156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c11154ffe81f5403fe8000
42c11154ffe81f5503fea000
42c11154ffe81f5603fec000
42c11154ffe81f5703fee000
42c11154ffe81f5003fe0000

42c11154ffe81f5103fe2000
42c11154ffe81f5203fe4000
42c11154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000
453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42411158ffe81f6603e4c000
42411158ffe81f6703e4e000
000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000

4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000
2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000
24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000

2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 3
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000030000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
000000000000000000000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000

24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
22c098a0ffe81f4c03fd8000
22c098a0ffe81f4d03fda000
22c098a0ffe81f4e03fdc000
22c098a0ffe81f4f03fde000
22c098a0ffe81f4803fd0000
22c098a0ffe81f4903fd2000
22c098a0ffe81f4a03fd4000
22c098a0ffe81f4b03fd6000
22c098a0ffe81f4403fc8000
22c098a0ffe81f4503fca000
22c098a0ffe81f4603fcc000
22c098a0ffe81f4703fce000
22c098a0ffe81f4003fc0000
22c098a0ffe81f4103fc2000
22c098a0ffe81f4203fc4000
22c098a0ffe81f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22c09861ffe81f5403fe8000
22c09861ffe81f5503fea000
22c09861ffe81f5603fec000
22c09861ffe81f5703fee000
24c440a2ffe0000000000001
22809869ffe0000000000000
22c09868fff01ff400000000
22c09868fff01ff500000000
22c09868fff01ff600000000
22c09868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
22c0986fffe81f5003fe0000
22c0986fffe81f5103fe2000

22c0986fffe81f5203fe4000
22c0986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22c09876fff01ff000000000
22c09876fff01ff100000000
22c09876fff01ff200000000
22c09876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
224098a8ffe81330027f8000
224098a4ffe81f2d03ff6000
224098a4ffe81f2c03ff4000
224098a4ffe81f2b03ff2000
224098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000
224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000
224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000
245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000

245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
000000000000000000000000
000000000000000000000000
000000000000000000000000
4c930c38ffe0003800000000
000000000000000000000000
ff800000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c11950ffe81f4c03fd8000
42c11950ffe81f4d03fda000

42c11950ffe81f4e03fdc000
42c11950ffe81f4f03fde000
42c11950ffe81f4803fd0000
42c11950ffe81f4903fd2000
42c11950ffe81f4a03fd4000
42c11950ffe81f4b03fd6000
42c11950ffe81f4403fc8000
42c11950ffe81f4503fca000
42c11950ffe81f4603fcc000
42c11950ffe81f4703fce000
42c11950ffe81f4003fc0000
42c11950ffe81f4103fc2000
42c11950ffe81f4203fc4000
42c11950ffe81f4303fc6000
42411952ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411956ffe81f2d03ff6000
42411956ffe81f2c03ff4000
42411956ffe81f2b03ff2000
42411956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42c11954ffe81f5403fe8000
42c11954ffe81f5503fea000
42c11954ffe81f5603fec000
42c11954ffe81f5703fee000
42c11954ffe81f5003fe0000
42c11954ffe81f5103fe2000
42c11954ffe81f5203fe4000
42c11954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000

4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000
42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000
44c41f15fff01f1540000000
4281195dffe0000000000000
44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000
2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240999dffe81f6003e40000
24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000

2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f06fff28baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555

29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
000000000000000000000000
29141820fff81f1100000000
000000000000000000000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000
24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000
24c41f46fff01f0633360000
24c41f47fff01f0644460000
24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000

24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
22c0a0a0ffe81f4c03fd8000
22c0a0a0ffe81f4d03fda000
22c0a0a0ffe81f4e03fdc000
22c0a0a0ffe81f4f03fde000
22c0a0a0ffe81f4803fd0000
22c0a0a0ffe81f4903fd2000
22c0a0a0ffe81f4a03fd4000
22c0a0a0ffe81f4b03fd6000
22c0a0a0ffe81f4403fc8000
22c0a0a0ffe81f4503fca000
22c0a0a0ffe81f4603fcc000
22c0a0a0ffe81f4703fce000
22c0a0a0ffe81f4003fc0000
22c0a0a0ffe81f4103fc2000
22c0a0a0ffe81f4203fc4000
22c0a0a0ffe81f4303fc6000
2240a0a2ffe81330027f8000
24c4007dffe0000000000000
22c0a061ffe81f5403fe8000
22c0a061ffe81f5503fea000
22c0a061ffe81f5603fec000
22c0a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
22c0a068fff01ff400000000
22c0a068fff01ff500000000
22c0a068fff01ff600000000
22c0a068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000
24c4007dffe0000000000001
22c0a06fffe81f5003fe0000
22c0a06fffe81f5103fe2000
22c0a06fffe81f5203fe4000
22c0a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
22c0a076fff01ff000000000
22c0a076fff01ff100000000

22c0a076fff01ff200000000
22c0a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
2240a0a6ffe81f2d03ff6000
2240a0a6ffe81f2c03ff4000
2240a0a6ffe81f2b03ff2000
2240a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000

2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555
4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303

47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe00000deadbeef
44c41f57ffe00000deadbeef
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe00000deadbeef
44c41f53ffe00000deadbeef
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c12150ffe81f4c03fd8000
42c12150ffe81f4d03fda000
42c12150ffe81f4e03fdc000
42c12150ffe81f4f03fde000
42c12150ffe81f4803fd0000
42c12150ffe81f4903fd2000
42c12150ffe81f4a03fd4000
42c12150ffe81f4b03fd6000

42c12150ffe81f4403fc8000
42c12150ffe81f4503fca000
42c12150ffe81f4603fcc000
42c12150ffe81f4703fce000
42c12150ffe81f4003fc0000
42c12150ffe81f4103fc2000
42c12150ffe81f4203fc4000
42c12150ffe81f4303fc6000
42412152ffe81330027f8000
42c12154ffe81f5403fe8000
42c12154ffe81f5503fea000
42c12154ffe81f5603fec000
42c12154ffe81f5703fee000
42c12154ffe81f5003fe0000
42c12154ffe81f5103fe2000
42c12154ffe81f5203fe4000
42c12154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42412156ffe81f2d03ff6000
42412156ffe81f2c03ff4000
42412156ffe81f2b03ff2000
42412156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
4c991122ffe0003000000000
4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000

44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000
4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000
44c41f15fff01f1504000000
4281215dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000
2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000
24c41f63fff01f12ff660000
2240a19dffe81f6303e46000
24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000

2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000

2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
000000000000000000000000
000000000000000000000000
000000000000000000000000
2c130c38ffe0003400000000
000000000000000000000000
ff800000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c41f54fff00f28888c0000
24c41f55fff00f28007c0000
24c41f56ffe00000deadbeef
24c41f57ffe00000deadbeef
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe00000deadbeef
24c41f53ffe00000deadbeef
245900a2fff01f3911223344

253f03a2fff100a200000001
245900a2fff01f3855667788
22c0a8a0ffe81f4c03fd8000
22c0a8a0ffe81f4d03fda000
22c0a8a0ffe81f4e03fdc000
22c0a8a0ffe81f4f03fde000
22c0a8a0ffe81f4803fd0000
22c0a8a0ffe81f4903fd2000
22c0a8a0ffe81f4a03fd4000
22c0a8a0ffe81f4b03fd6000
22c0a8a0ffe81f4403fc8000
22c0a8a0ffe81f4503fca000
22c0a8a0ffe81f4603fcc000
22c0a8a0ffe81f4703fce000
22c0a8a0ffe81f4003fc0000
22c0a8a0ffe81f4103fc2000
22c0a8a0ffe81f4203fc4000
22c0a8a0ffe81f4303fc6000
2240a8a2ffe81330027f8000
22c0a8a4ffe81f5403fe8000
22c0a8a4ffe81f5503fea000
22c0a8a4ffe81f5603fec000
22c0a8a4ffe81f5703fee000
22c0a8a4ffe81f5003fe0000
22c0a8a4ffe81f5103fe2000
22c0a8a4ffe81f5203fe4000
22c0a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000
2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001
245900a2fff01f3900003344
253f03a2fff100a200000001
245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc

253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000
2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000
24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000

2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
4c171c38ffe0005000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
000000000000000000000000
000000000000000000000000
49181822fff81f1200000000

44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000
44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c12950ffe81f4c03fd8000
42c12950ffe81f4d03fda000
42c12950ffe81f4e03fdc000
42c12950ffe81f4f03fde000
42c12950ffe81f4803fd0000
42c12950ffe81f4903fd2000
42c12950ffe81f4a03fd4000
42c12950ffe81f4b03fd6000
42c12950ffe81f4403fc8000
42c12950ffe81f4503fca000
42c12950ffe81f4603fcc000
42c12950ffe81f4703fce000
42c12950ffe81f4003fc0000
42c12950ffe81f4103fc2000

42c12950ffe81f4203fc4000
42c12950ffe81f4303fc6000
42412952ffe81330027f8000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c12954ffe81f5403fe8000
42c12954ffe81f5503fea000
42c12954ffe81f5603fec000
42c12954ffe81f5703fee000
42c12954ffe81f5003fe0000
42c12954ffe81f5103fe2000
42c12954ffe81f5203fe4000
42c12954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42412956ffe81f2d03ff6000
42412956ffe81f2c03ff4000
42412956ffe81f2b03ff2000
42412956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff

44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000
42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428129a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000

24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000
2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000
2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000

2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 6
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000

2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
000000000000000000000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000

22c0b0a0ffe81f4803fd0000
22c0b0a0ffe81f4903fd2000
22c0b0a0ffe81f4a03fd4000
22c0b0a0ffe81f4b03fd6000
22c0b0a0ffe81f4403fc8000
22c0b0a0ffe81f4503fca000
22c0b0a0ffe81f4603fcc000
22c0b0a0ffe81f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a2ffe81330027f8000
24c4007dffe0000000000000
22c0b061ffe81f5403fe8000
22c0b061ffe81f5503fea000
22c0b061ffe81f5603fec000
22c0b061ffe81f5703fee000
24c440a2ffe0000000000001
2280b069ffe0000000000000
22c0b068fff01ff400000000
22c0b068fff01ff500000000
22c0b068fff01ff600000000
22c0b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
22c0b06fffe81f5003fe0000
22c0b06fffe81f5103fe2000
22c0b06fffe81f5203fe4000
22c0b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
22c0b076fff01ff000000000
22c0b076fff01ff100000000
22c0b076fff01ff200000000
22c0b076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b077ffe0000000000000
24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
2240b0a6ffe81f2d03ff6000
2240b0a6ffe81f2c03ff4000
2240b0a6ffe81f2b03ff2000

2240b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000
2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000
2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000
24c41f15fff01f1520000000
2280b0adffe0000000000000
24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309
47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c13150ffe81f4c03fd8000
42c13150ffe81f4d03fda000
42c13150ffe81f4e03fdc000
42c13150ffe81f4f03fde000
42c13150ffe81f4803fd0000
42c13150ffe81f4903fd2000
42c13150ffe81f4a03fd4000
42c13150ffe81f4b03fd6000
42c13150ffe81f4403fc8000
42c13150ffe81f4503fca000
42c13150ffe81f4603fcc000
42c13150ffe81f4703fce000
42c13150ffe81f4003fc0000
42c13150ffe81f4103fc2000
42c13150ffe81f4203fc4000
42c13150ffe81f4303fc6000
42413152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000

4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413156ffe81f2d03ff6000
42413156ffe81f2c03ff4000
42413156ffe81f2b03ff2000
42413156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c13154ffe81f5403fe8000
42c13154ffe81f5503fea000
42c13154ffe81f5603fec000
42c13154ffe81f5703fee000
42c13154ffe81f5003fe0000
42c13154ffe81f5103fe2000
42c13154ffe81f5203fe4000
42c13154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102

27fc0036ffe81f3403e10002
000000000000000000000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c38ffe0005000000000
22c0b8a0ffe81f4c03fd8000
22c0b8a0ffe81f4d03fda000
22c0b8a0ffe81f4e03fdc000
22c0b8a0ffe81f4f03fde000
22c0b8a0ffe81f4803fd0000
22c0b8a0ffe81f4903fd2000
22c0b8a0ffe81f4a03fd4000
22c0b8a0ffe81f4b03fd6000
22c0b8a0ffe81f4403fc8000
22c0b8a0ffe81f4503fca000

22c0b8a0ffe81f4603fcc000
22c0b8a0ffe81f4703fce000
22c0b8a0ffe81f4003fc0000
22c0b8a0ffe81f4103fc2000
22c0b8a0ffe81f4203fc4000
22c0b8a0ffe81f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
22c0b861ffe81f5403fe8000
22c0b861ffe81f5503fea000
22c0b861ffe81f5603fec000
22c0b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
22c0b868fff01ff400000000
22c0b868fff01ff500000000
22c0b868fff01ff600000000
22c0b868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
22c0b86fffe81f5003fe0000
22c0b86fffe81f5103fe2000
22c0b86fffe81f5203fe4000
22c0b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
22c0b876fff01ff000000000
22c0b876fff01ff100000000
22c0b876fff01ff200000000
22c0b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001
2240b8a2fff8007d00000000
2c171c76ffe0006000000000
2240b8a8ffe81330027f8000
2240b8a4ffe81f2d03ff6000
2240b8a4ffe81f2c03ff4000
2240b8a4ffe81f2b03ff2000
2240b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000

24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001
253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000
2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000

44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428138de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000

44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c13950ffe81f4c03fd8000
42c13950ffe81f4d03fda000
42c13950ffe81f4e03fdc000
42c13950ffe81f4f03fde000
42c13950ffe81f4803fd0000
42c13950ffe81f4903fd2000
42c13950ffe81f4a03fd4000
42c13950ffe81f4b03fd6000
42c13950ffe81f4403fc8000
42c13950ffe81f4503fca000
42c13950ffe81f4603fcc000
42c13950ffe81f4703fce000
42c13950ffe81f4003fc0000
42c13950ffe81f4103fc2000
42c13950ffe81f4203fc4000
42c13950ffe81f4303fc6000
42413952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000

44c41f2afff00f08c0060000
42413956ffe81f2d03ff6000
42413956ffe81f2c03ff4000
42413956ffe81f2b03ff2000
42413956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42c13954ffe81f5403fe8000
42c13954ffe81f5503fea000
42c13954ffe81f5603fec000
42c13954ffe81f5703fee000
42c13954ffe81f5003fe0000
42c13954ffe81f5103fe2000
42c13954ffe81f5203fe4000
42c13954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000
4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000

2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000
4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000

2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000
2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000

```
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
000000000000000000000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
```

ff8000000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
22c0c0a0ffe81f4c03fd8000
22c0c0a0ffe81f4d03fda000
22c0c0a0ffe81f4e03fdc000
22c0c0a0ffe81f4f03fde000
22c0c0a0ffe81f4803fd0000
22c0c0a0ffe81f4903fd2000
22c0c0a0ffe81f4a03fd4000
22c0c0a0ffe81f4b03fd6000
22c0c0a0ffe81f4403fc8000
22c0c0a0ffe81f4503fca000
22c0c0a0ffe81f4603fcc000
22c0c0a0ffe81f4703fce000
22c0c0a0ffe81f4003fc0000
22c0c0a0ffe81f4103fc2000
22c0c0a0ffe81f4203fc4000
22c0c0a0ffe81f4303fc6000

2240c0a2ffe81330027f8000
24c4007dffe0000000000000
22c0c061ffe81f5403fe8000
22c0c061ffe81f5503fea000
22c0c061ffe81f5603fec000
22c0c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
22c0c068fff01ff400000000
22c0c068fff01ff500000000
22c0c068fff01ff600000000
22c0c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
22c0c06fffe81f5003fe0000
22c0c06fffe81f5103fe2000
22c0c06fffe81f5203fe4000
22c0c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
22c0c076fff01ff000000000
22c0c076fff01ff100000000
22c0c076fff01ff200000000
22c0c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
2240c0a6ffe81f2d03ff6000
2240c0a6ffe81f2c03ff4000
2240c0a6ffe81f2b03ff2000
2240c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000
2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe00000deadbeef
44c41f57ffe00000deadbeef
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe00000deadbeef
44c41f53ffe00000deadbeef
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c14150ffe81f4c03fd8000
42c14150ffe81f4d03fda000
42c14150ffe81f4e03fdc000
42c14150ffe81f4f03fde000
42c14150ffe81f4803fd0000
42c14150ffe81f4903fd2000
42c14150ffe81f4a03fd4000
42c14150ffe81f4b03fd6000
42c14150ffe81f4403fc8000
42c14150ffe81f4503fca000
42c14150ffe81f4603fcc000
42c14150ffe81f4703fce000
42c14150ffe81f4003fc0000
42c14150ffe81f4103fc2000
42c14150ffe81f4203fc4000
42c14150ffe81f4303fc6000
42414152ffe81330027f8000
42c14154ffe81f5403fe8000
42c14154ffe81f5503fea000
42c14154ffe81f5603fec000
42c14154ffe81f5703fee000
42c14154ffe81f5003fe0000
42c14154ffe81f5103fe2000
42c14154ffe81f5203fe4000
42c14154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42414156ffe81f2d03ff6000
42414156ffe81f2c03ff4000
42414156ffe81f2b03ff2000

42414156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000
42414158ffe81f5803e30000
42414158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000

4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000

2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000
2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 9
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff108aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff208aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106
27fc0036ffe81f3403e10006
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff8000000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
```

24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555
2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
22c0c8a0ffe81f4c03fd8000
22c0c8a0ffe81f4d03fda000
22c0c8a0ffe81f4e03fdc000
22c0c8a0ffe81f4f03fde000
22c0c8a0ffe81f4803fd0000
22c0c8a0ffe81f4903fd2000
22c0c8a0ffe81f4a03fd4000
22c0c8a0ffe81f4b03fd6000
22c0c8a0ffe81f4403fc8000
22c0c8a0ffe81f4503fca000
22c0c8a0ffe81f4603fcc000
22c0c8a0ffe81f4703fce000
22c0c8a0ffe81f4003fc0000
22c0c8a0ffe81f4103fc2000
22c0c8a0ffe81f4203fc4000
22c0c8a0ffe81f4303fc6000
2240c8a2ffe81330027f8000
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa

253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
22c0c8a4ffe81f5403fe8000
22c0c8a4ffe81f5503fea000
22c0c8a4ffe81f5603fec000
22c0c8a4ffe81f5703fee000
22c0c8a4ffe81f5003fe0000
22c0c8a4ffe81f5103fe2000
22c0c8a4ffe81f5203fe4000
22c0c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000
2c130c79ffe0005800000000
2c130c78ffe0005c00000000
2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000

2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000
2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000

44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
000000000000000000000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000

44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c14950ffe81f4c03fd8000
42c14950ffe81f4d03fda000
42c14950ffe81f4e03fdc000
42c14950ffe81f4f03fde000
42c14950ffe81f4803fd0000
42c14950ffe81f4903fd2000
42c14950ffe81f4a03fd4000
42c14950ffe81f4b03fd6000
42c14950ffe81f4403fc8000
42c14950ffe81f4503fca000
42c14950ffe81f4603fcc000
42c14950ffe81f4703fce000
42c14950ffe81f4003fc0000
42c14950ffe81f4103fc2000
42c14950ffe81f4203fc4000
42c14950ffe81f4303fc6000
42414952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c14954ffe81f5403fe8000
42c14954ffe81f5503fea000
42c14954ffe81f5603fec000
42c14954ffe81f5703fee000
42c14954ffe81f5003fe0000
42c14954ffe81f5103fe2000
42c14954ffe81f5203fe4000

42c14954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414956ffe81f2d03ff6000
42414956ffe81f2c03ff4000
42414956ffe81f2b03ff2000
42414956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000
2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42414958ffe81f6003e40000
42414958ffe81f6103e42000
42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000

000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c99dffe81f5803e30000
24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000

2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 10
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
000000000000000000000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280d02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d0aaffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000

24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
22c0d0a0ffe81f4803fd0000
22c0d0a0ffe81f4903fd2000
22c0d0a0ffe81f4a03fd4000
22c0d0a0ffe81f4b03fd6000
22c0d0a0ffe81f4403fc8000
22c0d0a0ffe81f4503fca000
22c0d0a0ffe81f4603fcc000
22c0d0a0ffe81f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240d0a2ffe81330027f8000
24c4007dffe0000000000000
22c0d061ffe81f5403fe8000
22c0d061ffe81f5503fea000
22c0d061ffe81f5603fec000
22c0d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
22c0d068fff01ff400000000
22c0d068fff01ff500000000
22c0d068fff01ff600000000
22c0d068fff01ff700000000

24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
22c0d06fffe81f5003fe0000
22c0d06fffe81f5103fe2000
22c0d06fffe81f5203fe4000
22c0d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
22c0d076fff01ff000000000
22c0d076fff01ff100000000
22c0d076fff01ff200000000
22c0d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001
22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
2240d0a6ffe81f2d03ff6000
2240d0a6ffe81f2c03ff4000
2240d0a6ffe81f2b03ff2000
2240d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000

000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000
2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000

44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000

44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
42c15150ffe81f4c03fd8000
42c15150ffe81f4d03fda000
42c15150ffe81f4e03fdc000
42c15150ffe81f4f03fde000
42c15150ffe81f4803fd0000
42c15150ffe81f4903fd2000
42c15150ffe81f4a03fd4000
42c15150ffe81f4b03fd6000
42c15150ffe81f4403fc8000
42c15150ffe81f4503fca000
42c15150ffe81f4603fcc000
42c15150ffe81f4703fce000
42c15150ffe81f4003fc0000
42c15150ffe81f4103fc2000
42c15150ffe81f4203fc4000
42c15150ffe81f4303fc6000
42415152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415156ffe81f2d03ff6000
42415156ffe81f2c03ff4000
42415156ffe81f2b03ff2000
42415156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42c15154ffe81f5403fe8000
42c15154ffe81f5503fea000
42c15154ffe81f5603fec000
42c15154ffe81f5703fee000
42c15154ffe81f5003fe0000

42c15154ffe81f5103fe2000
42c15154ffe81f5203fe4000
42c15154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415158ffe81f6603e4c000
42415158ffe81f6703e4e000
42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000

4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000
2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000

2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 11
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000b0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
253920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
000000000000000000000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
2280d82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000

24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
000000000000000000000000
22c0d8a0ffe81f4c03fd8000
22c0d8a0ffe81f4d03fda000
22c0d8a0ffe81f4e03fdc000
22c0d8a0ffe81f4f03fde000
22c0d8a0ffe81f4803fd0000
22c0d8a0ffe81f4903fd2000
22c0d8a0ffe81f4a03fd4000
22c0d8a0ffe81f4b03fd6000
22c0d8a0ffe81f4403fc8000
22c0d8a0ffe81f4503fca000
22c0d8a0ffe81f4603fcc000
22c0d8a0ffe81f4703fce000
22c0d8a0ffe81f4003fc0000
22c0d8a0ffe81f4103fc2000
22c0d8a0ffe81f4203fc4000
22c0d8a0ffe81f4303fc6000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
22c0d8a2ffe81f5403fe8000
22c0d8a2ffe81f5503fea000
22c0d8a2ffe81f5603fec000
22c0d8a2ffe81f5703fee000
22c0d8a2ffe81f5003fe0000
22c0d8a2ffe81f5103fe2000
22c0d8a2ffe81f5203fe4000
22c0d8a2ffe81f5303fe6000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000

2c171c68ffe0006800000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d8a8ffe81330027f8000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
2240d8a4ffe81f2d03ff6000
2240d8a4ffe81f2c03ff4000
2240d8a4ffe81f2b03ff2000
2240d8a4ffe81f2a03ff0000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
000000000000000000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d8a6ffe81f5603e2c000
2240d8a6ffe81f5703e2e000
2240d8a6ffe81f5803e30000
2240d8a6ffe81f5903e32000
2240d8a6ffe81f5a03e34000
2240d8a6ffe81f5b03e36000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6003e40000
2240d8a6ffe81f6103e42000
2240d8a6ffe81f6203e44000
2240d8a6ffe81f6303e46000
2240d8a6ffe81f6603e4c000

000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6703e4e000
2280d8b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d8adffe0000000000000
24c41f15fff01f1501000000
2280d8adffe0000000000000
24c41f15fff01f1502000000
2280d8adffe0000000000000
24c41f15fff01f1504000000
2280d8adffe0000000000000
24c41f15fff01f1540000000
2280d8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c41f08ffe0000000000000
44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f0affe0000000000000
44c41f14fff00baa00000000
44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42c15950ffe81f4c03fd8000
42c15950ffe81f4d03fda000

42c15950ffe81f4e03fdc000
42c15950ffe81f4f03fde000
42c15950ffe81f4803fd0000
42c15950ffe81f4903fd2000
42c15950ffe81f4a03fd4000
42c15950ffe81f4b03fd6000
42c15950ffe81f4403fc8000
42c15950ffe81f4503fca000
42c15950ffe81f4603fcc000
42c15950ffe81f4703fce000
42c15950ffe81f4003fc0000
42c15950ffe81f4103fc2000
42c15950ffe81f4203fc4000
42c15950ffe81f4303fc6000
42415952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415956ffe81f2d03ff6000
42415956ffe81f2c03ff4000
42415956ffe81f2b03ff2000
42415956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42c15954ffe81f5403fe8000
42c15954ffe81f5503fea000
42c15954ffe81f5603fec000
42c15954ffe81f5703fee000
42c15954ffe81f5003fe0000
42c15954ffe81f5103fe2000
42c15954ffe81f5203fe4000
42c15954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001

453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
2240d99dffe81f5a03e34000
2240d99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000
44c41f15fff01f1540000000
4281595dffe0000000000000
44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d99dffe81f5803e30000
24c41f59fff01f0dff110000
2240d99dffe81f5903e32000
24c41f5afff00b0eee000000
2240d99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d99dffe81f6003e40000
24c41f61fff01f11ff550000
2240d99dffe81f6103e42000
24c41f62fff01f12ee660000
2240d99dffe81f6203e44000
24c41f63fff01f12ff660000
2240d99dffe81f6303e46000
24c41f64fff01f13ee770000

2240d99dffe81f6403e48000
24c41f65fff01f13ff770000
2240d99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff8000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
ffc0000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

```
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
```

```
cf
ff
df
ef
ff
ff
ff
3f
fe
ff
ff
ff
ff
ff
ff
c3
ff
f3
ff
ff
ef
00
00
00
00
00
00
00
00
00
```

//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_notmu.oasm
No license file was found, but licenses were detected in source scan.

```
/* $Id: dune_chips.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/dune_chips.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLastSentPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLastSentPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_general.h,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_12x10g_1xil100.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_12x10g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ports_manager.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC NIF PORTS MANAGER H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/NIF/ports_manager.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
*
* Provides:
*     soc_internal_mpls_hash
*     soc_internal_mpls_dual_banks
*     soc_internal_mpls_entry_read
*     soc_internal_mpls_entry_write
*     soc_internal_mpls_entry_ins
*     soc_internal_mpls_entry_del
*     soc_internal_mpls_entry_lkup
*
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_trap.c,v 1.111 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_trap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  dpc.h
* Purpose:  Deferred Procedure Call module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/dpc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blmi_io.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/blmi_io.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_variables.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_variables.h
* Purpose:     CINT variable interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_variables.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       allmems_d.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_d.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lif.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_lif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPortVridSmacTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpPortVridSmacTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Constants and defines for the Broadcom GTO (BCM98548) I2C
* Bus Driver interface controller operating in master mode.
*
* See also: Broadcom StrataSwitch (TM) Register Reference Guide
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/bsc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdes65lp.h,v 1.13 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdes65LP.h
* Purpose:    65nm Internal (Quad/Octal/Dodeca) Serdes PHY Driver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes65lp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibIpSegment.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbZfG2EplibIpSegment.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgs.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgs.c
* Purpose:    Simple XGS board programming support library
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/xgs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk.h
* Purpose:    Function declarations for Tomahawk Internal functions.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/tomahawk.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_types.h 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_types.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_bmact.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_bmact.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_bmact.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_line_tevb.h,v 1.2 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_line_tevb.h
No license file was found, but licenses were detected in source scan.

/*
* Broadcom AMBA Interconnect definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: aidmp.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/aidmp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaEsetPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaEsetPriEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: TkDebug.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: TkDebug.h
* Purpose:
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkDebug.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tokenizer.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tokenizer.c
* Purpose:     API mode tokenizer
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/tokenizer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmportable.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmportable.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_occupation_bitmap.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
* NAME:
*     utilex_occ_bm_tests
* TYPE:
*   PROC
* DATE:
*   Mar  6 2008
* FUNCTION:
*     Tests the bit map module
*
*INPUT:
*   int    unit -
*     Identifier of the device to access.
*  UTILEX_DIRECT:
*    uint32 silent -
*    Indicator.
```

```
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  None.
*OUTPUT:
*  UTILEX_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_occupation_bitmap.h
No license file was found, but licenses were detected in source scan.

```
# $Id: th2_sanity.soc, 2015/03/27 Exp $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk2 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
# Port config assumes few 10G XE ports (including mgmt),
# few 100G CE ports and few HG[106] ports.
# By default use config: $SDK/rc/tomahawk2/config_th2_48x100G_8xhg100_8xhg106.bcm

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'
counter off
l2mode off
```

```
# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init soc
local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done


echo "Running Register reset defaults ..."
tr 1
$done

init soc
init misc
echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running CPU Benchmarks ..."
tr 21
$done

set rct=false
echo "Running memory tests ..."
```

```
rcload trall_bcm56970_a0.soc

$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done
```

```
echo "Testing MAC Loopback - 100 Gb/s all CE ports"
tr 18 PortBitMap=ce Speed=100G
$done

echo "Testing MAC Loopback - 106 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=106G
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 100 Gb/s all CE ports"
tr 19 PortBitMap=ce Speed=100G
$done

echo "Testing PHY Loopback - 106 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=106G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 PortBitMap=ce,xe
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 PortBitMap=ce,xe
$done

#Internal snake Loopback
echo "Running internal snake on all XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe
$done

echo "Running internal snake on all XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe
$done

echo "Running internal snake on all CE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ce
$done

echo "Running internal snake on all CE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce
$done

#Traffic Test
echo "Running Traffic Test in MAC mode on CE ports..."
```

```
tr 72 RunMode=MAC PortBitMap=ce
$done

echo "Running Traffic Test in PHY mode on CE ports..."
tr 72 RunMode=PHY PortBitMap=ce
$done

echo "Running Software Error Recovery Test ..."
linkscan off
tr 144

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
```

```
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/th2_sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_lrp.c,v 1.36 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_lrp.c
* Purpose: Caladan3 LRP test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_lrp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field_dataqual.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Packet Processor devices
*       'User-defined' or 'data field qualifier' support.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/field_dataqual.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_diags.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bm9600_diags.c
* Purpose:     Polaris-specific diagnostics tests.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/bm9600_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_oam_y1731.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_y13731.c
* Purpose: Example of using Y.1731 OAM over MPLS-TP/PWE.
*
* Usage:
*
MPLS comes in two version, one in which the in/out LIFs are presumed to be symetric:
cint utility/cint_utils_l3.c
cint cint_ip_route.c
cint cint_oam_y1731_over_tunnel.c
cint
print oam_run_with_defaults_mpls_tp(unit,13,14,15,0);

"New" MPLS calling sequence, using assymetric LIFs (for LMM counting purposes). MPLS LIFs created with
mpls_lsr_tunnel_example()
cint cint_qos.c
cint cint_multi_device_utils.c
cint utility/cint_utils_l3.c
cint cint_mpls_lsr.c
cint  cint_oam_y1731_over_tunnel.c
cint cint_system_vswitch_encoding.c
cint
print oam_run_with_defaults_mpls_tp(unit,13,14,15,1);
```

```
cint utility/cint_utils_global.c
cint utility/cint_utils_mpls.c
cint cint_port_tpid.c
cint cint_qos.c cint_vswitch_vpls.c
cint cint_oam_y1731_over_tunnel.c
cint utility/cint_utils_l3.c
cint cint_mpls_lsr.c
cint cint_advanced_vlan_translation_mode.c
cint
 print oam_run_with_defaults_pwe(unit,13,14,15);

cint utility/cint_utils_global.c
cint utility/cint_utils_mpls.c
cint cint_port_tpid.c
cint cint_qos.c cint_vswitch_vpls.c
cint cint_oam_y1731_over_tunnel.c
cint utility/cint_utils_l3.c
cint cint_mpls_lsr.c
cint cint_advanced_vlan_translation_mode.c
cint
 print oam_o_gach_o_gal_o_pwe_o_lsp_example(unit,13,14);

*
* This cint uses cint_vswitch_metro_mp_single_vlan.c to build the following vswitch:
*  ~~~
```

```
*
* The following MEPs:
*        1) MEP with id 4096: accellerated, mdlevel 7,
*      3) RMEP with id 0
*
* In addition, get & delete APIs are used for testing.
*
* Event callback registration example is provided
*
* comments:
* 1) In order to prevent from OAMP send packets do: BCM.0> m OAMP_MODE_REGISTER
TRANSMIT_ENABLE=0
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_y1731_over_tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_qax_mgmt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type31.h,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type31.h
* Purpose:     Define dma control block (DCB) format for a type31 DCB
*              used by the 53400 (Greyhound)
*
*              This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type31.h

No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_cfg_seq.h 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkAlarmProcess.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkAlarmProcess.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkAlarmProcess.c
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Jericho (BCM88670) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false
```

```
# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*

#Clear test statistics
tc *

#Display some useful information
date

##########################################################################

#Start Test
echo "Running tr 141"
tr 141 r=1
$done

echo 'Running tr 141 NoAttach=1';
tr 141 NoAttach=1;
echo '   Done';date


echo 'Running tr 141 ErrorOnLeak=1';
tr 141 ErrorOnLeak=1;
echo '   Done';date

echo 'Running: tr 141 NoInit=1 , than: tr 141 NoDenit=1';
tr 141 NoInit=1 NoAttach=1;
tr 141 NoDeinit=1 NoAttach=1;
echo '   Done';date

echo "Running tr 141 (warmboot)"
tr 141 repeat=1 Warmboot=1
$done

### CPU Packet (tr 40)
# Dont use fabric
tr 141; \
s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1

# Port 0 -> static forwarding to port 0exit
mod IHP_PINFO_LLR 0 1 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7; \
mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x40063
FWD_ACT_DESTINATION_OVERWRITE=1; \
s CMIC_CMC0_CH1_COS_CTRL_RX_0 0xffffffff; \
s CMIC_CMC0_CH1_COS_CTRL_RX_1 0xffffffff
```

```
echo 'Send packet (tr 40)...'; \
tr 40 Tagged=true LengthStart=128 LengthEnd=164 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:0c:00:01:00:00 MacSrc=00:00:00:e3:00:00 UseFile=false; \
echo '   Done';date;

echo 'Running PCI Compliance (tr 2)...'; \
tr 2; \
echo '   Done';date;

echo 'Running PCI S-Channel Buf (tr 4)...'; \
tr 4; \
echo '   Done';date;


echo 'Running Register read/write (tr 3)...'; \
tr 3 ; \
echo '   Done';date;

echo 'TR 30 ...'; \
tr 30; \
echo '   Done';date;

echo 'TR 31 ...'; \
tr 31; \
echo '   Done';date;


echo 'tr 60 ...'; \
tr 60; \
echo '   Done';date;

echo 'tr 50 m=IDR_CONTEXT_MRU, EGQ_DSP_PTR_MAP ...'; \
tr 50 m=IDR_CONTEXT_MRU; \
tr 50 m=EGQ_DSP_PTR_MAP; \
echo '   Done';date;

echo 'tr 51 m=IDR_CONTEXT_MRU, IHB_FWD_ACT_PROFILE, EGQ_PCT...'; \
tr 51 m=IDR_CONTEXT_MRU; \
tr 51 m=IHB_FWD_ACT_PROFILE; \
tr 51 m=EGQ_PCT; \
echo '   Done';date;

echo 'tr 52 m=IDR_CONTEXT_MRU, IPS_QTYPE...'; \
tr 52 m=IDR_CONTEXT_MRU; \
tr 52 m=IPS_QTYPE; \
echo '   Done';date;
```

```
echo 'tr 71 m=IDR_CONTEXT_MRU, EGQ_PPCT...'; \
tr 71 m=IDR_CONTEXT_MRU; \
tr 71 m=EGQ_PPCT; \
echo '   Done';date;

echo 'Memory R/W first & last test (tr 7)...'; \
tr 7; \
echo '   Done';date;

echo 'Memory flip flop test (tr 8)...'; \
tr 8; \
echo '   Done';date;

echo 'Running Register reset defaults (tr 1) ...'; \
tr 1; \
echo '   Done';date;

tr 141 NoPktRx=1; \
echo 'TX reload test(tr 90)...'; \
tr 90; \
echo '   Done';date;

echo 'RX reload test(tr 91)...'; \
tr 91; \
echo '   Done';date;

echo 'Packet receive test(tr 41)...'; \
tr 41; \
echo '   Done';date;

echo 'Dram bist test (tr 140)...';
tr 140 DramNdx=0xff AllAdress=1;
echo '   Done';date

#Start Cache Mem Test
echo "Running Cache Mem Tests "
tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0
tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0
tr 141
echo '   Done';date;

#Test ac-mp lif and tunnel termination lif learning information encoding
echo 'ac-mp lif and tunnel termination lif learning info encoding (tr 155)...'; \
tr 155; \
echo '   Done';date;

#ser test for all memories
echo 'ser test for all memories (tr 153)...'; \
```

```
tr 153 RunAll=1; \
echo '   Done';date;

#Test export dump
echo 'export dump (tr 156)...'; \
tr 156; \
echo '   Done';date;

##########################################################################

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88670sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spiflash.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem flash utility
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/aps/spiflash.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_cos.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_cos.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
```

```
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_cos.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_metering.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_metering.h
*
* MODULE PREFIX:  soc_ppd_metering
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_metering.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/oam.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eyescan.h,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* EYESCAN H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/eyescan.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: platform.c,v 1.7 2011/07/21 16:14:55 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/platform.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lif_cos.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane hardware register definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbconfig.h,v 1.2 Broadcom SDK $
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbconfig.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_x.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_x.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_msg.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       llm_msg.c
* Purpose:    LLM message routines for:
*             - llm Control messages
*             - Network Packet headers (PDUs)
*
*
* LLM control messages
*
```

```
* LLM messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The LLM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
/*
* Function:
*     shr_llm_msg_mac_limit_update_send_receive
* Purpose:
*     Send a LLM message to ARM CPU to update pon attribution.
*
* Parameters:
*     serv_type     (IN) service type, vmac or mac limit
*     data_type     (IN) data type, CPU request request value or vmac encoding
*     data          (IN) A pointer to data
*     data_len      (IN) data length
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/llm_msg.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane DDR/SDRAM controller core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbmemc.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbmemc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vulcan_service.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/robo_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: KaminoDriver.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/KaminoDriver.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaPortPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaPortPriEntry.hx
No license file was found, but licenses were detected in source scan.

```
# All Rights Reserved.$
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/makeDepSymTbl.tcl
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtAddressConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEbMvtAddressConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: test_oam.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/test_oam.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: tefmod_enum_defines.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------------
* Description: This file contains enums, elems and doxyten comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_enum_defines.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Katana MPLS enhancements
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sec.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/sec.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_.c
* Purpose: Example for MTU filtering configuration.
*
* CINT Usage:
*
*  1. Run:
*     cint cint_field_mtu_filtering.c
*     cint
*     mtu_check_setup
*
*  2. Send packet according to cint_ip_route.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mtu_filtering.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_sa_auth.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_sa_auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_stat.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_mact_llid_limit.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mact_llid_limit.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
   dma_rom
    Simplified API for Polled Mode DMA
      Jeff Townsend and Curt McDowell, 04-24-03

This API is at the SOC layer in soc/dma.c.  It provides a way to do
packet DMA that does not need any high level constructs such as threads,
semaphores, or interrupts, and therefore is suitable for use in such
applications as a Boot ROM.

All the parameters required for transmitting and receiving packets are
passed and returned in the opaque data type soc_dcb_t, which is a
chip-specific DMA descriptor.  The caller must setup the DCB structure
correctly for the chip on which the packet will be transmitted.  Also,
on the BCM5670 series fabric chips, the packet data must contain the
```

12-byte Higig header.

All routines here are non-blocking and return immediately. DMA transmit and receive operations are left outstanding in the background to complete in parallel with other code execution. A receive DMA is always left outstanding so if a packet is present, it will already be sitting in memory by the time the application polls for it.

EXAMPLES:

The following examples demonstrate how to use the API. Error checking is omitted in the examples, but it is important that thorough error checking is always done on all API calls. Please see the function header comments in soc/dma.c for more detailed information.

```
/*
*  Example 1: Initializing and Finalizing
*/

int dma_main(int unit)
{
  /* Initialize DMA on the unit, maximum packet size of 2000 bytes */
  soc_dma_rom_init(unit, 2000);

  /* TX/RX packets... */

  /* Cleanup */
  soc_dma_rom_detach(unit);

  return 0;
}

/*
* Example 2: Transmitting a packet:
*/

int simple_port_tx(int unit, int port, uint8 *pkt, len)
{
  dcb_t *dcb;
  dcb_type_t dt;
  int done;
  void *p;

  /* Allocate a packet DCB */
  dcb = soc_dma_rom_dcb_alloc(unit, len);

  /* Copy our packet into the DCB's buffer */
  /* This packet must be fully formed for the port it will transmit on. */
```

```
  dt = soc_dcb_type(unit);
  p = soc_dcb_addr_get(unit, dt, dcb);
  memcpy(p, pkt, len);

  /* Program the port bitmap */
  soc_dcb_tx_pbm_l2_set(dt, dcb, PBMP_PORT(port));

  /* Untagged port bitmap */
  soc_dcb_tx_pbm_ut_set(dt, dcb, PBMP_PORT(port));

  /* Start the transmit */
  soc_dma_rom_tx_start(unit, dcb);

  /* Simple Poll for completion */
  done = 0;
  while (!done) {
 soc_dma_rom_tx_poll(unit, &done);
  }

  /*
   * In the case that your polling loop implements a timeout, you
   * would need to clean up by calling soc_dma_rom_tx_abort(unit).
   */

  /* Must free the DCB after the packet has been transmitted */
  soc_dma_rom_dcb_free(unit, dcb);

  return 0;
}

/*
* Example 3: Receiving a packet:
*/

int simple_rx(int unit, uint8 *pkt, int *len, int* port)
{
  dcb_t dcb;
  dcb_type_t dt;
  void *p;

  /* Is a packet available? */
  soc_dma_rom_rx_poll(unit, &dcb);
  if (dcb == NULL) {
 /* No packet available */
 return NO_PACKET;
  }

  /* Retrieve the packet data from the DCB */
```

```
  dt = soc_dcb_type(unit);
  p = soc_dcb_addr_get(unit, dt, dcb);
  *len = soc_dcb_addr_xfer_cnt_get(dt, dcb);

  memcpy(pkt, p, *len);

  *port = soc_dcb_rx_sp_get(dt, dcb);

  /*
   * The DCB contains a lot of other useful information related
   * to the packet's ingress as well:
   *
   * cos    = soc_dcb_rx_cos_get(dt, dcb);
   * reason = soc_dcb_rx_op_get(dt, dcb);
   * opcode = soc_dcb_rx_hg_mhop_get(dt, dcb);   (5690 only)
   * source_mod = soc_dcb_rx_hg_sm_get(dt, dcb);   (5690 only)
   * source_port = soc_dcb_rx_hg_sp_get(dt, dcb);   (5690 only)
   * etc..
   *
   * See $SDK/include/soc/dcb.h for all available accessors
   */

  /* Done with this packet, need to free the DCB */
  soc_dma_rom_dcb_free(unit, dcb);

  return GOT_PACKET;
}
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/dma_rom.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgNotTmePortRemapAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgNotTmePortRemapAddr.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_ipmc_bidir.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_ipmc_bidir.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: types.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sflash.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    sflash.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/sflash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spi.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Routines for accessing BCM53xx SPI memory mapped registers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/spi.c
No license file was found, but licenses were detected in source scan.

```
/** \file bcm_int\dnx\crps\crps_mgmt.h
*
* Internal DNX CRPS MGMT
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/crps/crps_mgmt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ppe_wb.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ppe_wb.h
* Purpose: Caladan3 Packet Parsing Engine drivers Warm Boot support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/wb_db_ppe.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy84784_ucode.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84784_ucode.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: mbcm.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/mbcm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bm9600_soc_init.h,v 1.17.34.3 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ==============================================================
* == bm9600_soc_init.h - BM9600 Initialization defines         ==
* ==============================================================
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm9600_soc_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.136 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Tomahawk2 L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/l3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_utils.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_application.c
* Purpose: A utility for setting up PON applications.
*
* Function Introduction:
*
* pon_app_init:
* To Initialize PON application configurations:
*  1. Add the following port configureations to config-sand.bcm
*       - ucode_port_129.BCM88650=10GBase-R15
*       - ucode_port_5.BCM88650=10GBase-R14
*  2. Add the following PON application enabling configurations to config-sand.bcm
*       - pon_application_support_enabled_5.BCM88650=TRUE
*       - vlan_match_criteria_mode=PON_PCP_ETHERTYPE
*  3. Add the following configuration to config-sand.bcm if AC isolation is needed
*       - bcm886xx_auxiliary_table_mode=1 (for arad/+ devices only)
*  4. Add the following configuration to config-sand.bcm if advanced VLAN mode is needed
*       - bcm886xx_vlan_translate_mode=1
```

```
*  5. Set PON port and NNI port to recognize VLAN tags.
*       - Normal VLAN mode: call port_tpid_init(), bcm_port_tpid_add(), bcm_port_inner_tpid_set().
*       - Advanced VLAN mode: bcm_port_tpid_add(), bcm_port_inner_tpid_set(), bcm_port_tpid_class_set();
*  6. Remove Ports from VLAN 1.
*       - call bcm_vlan_gport_delete_all()
*  7. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).
*       - call bcm_port_vlan_member_set()
*  8. Enable additional port tunnel lookup in PON ports.
*       - call bcm_vlan_control_port_set()
*  9. Create default pon l2 ingress mapping profile.
*       - call bcm_qos_map_create() with BCM_QOS_MAP_INGRESS|BCM_QOS_MAP_L2_VLAN_PCP.
*       - call bcm_qos_map_add() with
BCM_QOS_MAP_L2|BCM_QOS_MAP_L2_OUTER_TAG|BCM_QOS_MAP_L2_VLAN_PCP.
*  a. Create a PMF rule to restore the tunnel_id tag of packets sent to CPU.
*  b. Create a NNI trunk group in which the load balance is DA+SA hash.
*       - call bcm_switch_control_port_set() with bcmSwitchTrunkHashPktHeaderSelect to set the header type
*             in the hash compute.
*       - call bcm_switch_control_port_set() with bcmSwitchTrunkHashPktHeaderCount to set the header count
*             in the hash compute.
*       - call bcm_switch_control_set() with bcmSwitchHashL2Field0 to set the DA+SA hash.
*       - call bcm_trunk_set() to set the trunk membership.
*
* pon_lif_create:
* Create NNI LIF according to the LIF type. PON LIF can be created based on Port or Flow.
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN_STACKED
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_STACKED,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_ETHERTYPE,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_VLAN_ETHERTYPE,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_ETHERTYPE
*
* nni_lif_create:
* Create NNI LIF according to the LIF type. NNI LIF can be created on a trunk group by port_nni = trunk_gport
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*
* pon_port_ingress_vt_set:
* Set up the ingress VLAN editor of PON LIF according to service type. Translate svlan or cvlan.
*       - Normal VLAN mode: Call bcm_vlan_translate_action_create()
*       - Advanced VLAN mode:  Call bcm_vlan_translate_action_id_create(), bcm_vlan_translate_action_id_set(),
*                                  bcm_vlan_port_translation_set(), bcm_vlan_translate_action_class_set with
BCM_VLAN_ACTION_SET_INGRESS.
*
* pon_port_egress_vt_set:
```

```
* Set up the egress VLAN editor of PON LIF according to service type. Translate svlan or cvlan.
*       - Normal VLAN mode: Call bcm_vlan_translate_egress_action_add()
*       - Advanced VLAN mode:  Call bcm_vlan_translate_action_id_create(), bcm_vlan_translate_action_id_set(),
*                                  bcm_vlan_port_translation_set(), bcm_vlan_translate_action_class_set with
BCM_VLAN_ACTION_SET_EGRESS.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56504_b0.c
* Purpose:     bcm56504_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56504_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_ped.c,v 1.2 Broadcom SDK $"
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$"
*
* t3p1_ped.c: Guadalupe3k V1.0 Ped Configuration
*
* DO NOT EDIT THIS FILE!
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_ped.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lpm.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/lpm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassIPv4TosEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassIPv4TosEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: srds_api_uc_common.h 924 2015-02-24 18:08:11Z eroes $  *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arlmsg.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arlmsg.c
* Purpose: Keep a synchronized ARL shadow table.
*      Provide a reliable stream of ARL insert/delete messages.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/arlmsg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_mgmt.h,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stat.h
* Purpose:     SBX internal stats definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Multicast CLI commands
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_vmap.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM core operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_vmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_status.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 FABRIC STATUS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_fabric_status.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_multicast_ingress.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_multicast_ingress.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcmult_ing
*
* FILE DESCRIPTION: Ingress Multicast refers to the act of replication at
*                   the ingress.
*                   This file holds the API functions and Structures
*                   which implement the egress multicast.
*                   The file contains the standard get/set, clear and print
*                   for configuration. This file also contains dynamic
```

```
*               configuration of multicast groups (open. close, update
*               and more).
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_multicast_ingress.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_topology.c,v 1.16.24.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC TOPOLOGY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_topology.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_consts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_consts.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPCTSingleConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPCTSingleConsole.hx

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: api_ref.c
* Purpose: BCM API routines reference
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/api_ref.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	eyescan.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/eyescan.h
No license file was found, but licenses were detected in source scan.

```
/*
*****************************************************************************
Copyright 2014-2016 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.
```

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
   SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
   NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
   COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
   YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
   BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
   WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
   THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
   OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
   OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
   ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/model.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/rx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ingress_packet_queuing.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ingress_packet_queuing.c
*
* MODULE PREFIX:  soc_jer2_tmcipq
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type23.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type28.h
* Purpose:    Define dma control block (DCB) format for a type28 DCB
*             used by the 88650 (Arad)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type28.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfFabBm3200BwWctDpEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWctDpEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwWctDpEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* $Id: tscmod_cfg_seq.c,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : tscmod_cfg_seq.c
* Description: c functions implementing Tier1s for TSCMod Serdes Driver
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_tdm.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_qax_init.h Exp $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_init.h
No license file was found, but licenses were detected in source scan.

/*
*$Id: hal_common.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_common.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bme3200.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BME3200 (BCM83332) SOC Initialization
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bme3200.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bbase_util.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bbase_util.h
No license file was found, but licenses were detected in source scan.

#
Id
#

```
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

echo "syssnake.rc : Initializing system snake on unit $unit"

# fbpoe setup
# (enabled by adding the property "fbpoe=1")
# Notes:
#       BCM56504 unit-0 higig port (port 27,28) is connected
#       to BCM56504 Unit-1 higig port (port 27,28)
#
if $?BCM56147_A0 \
   'local BCM56147 1'

if $?unit0 && $?firebolt_any && $?fbpoe \
 "mod port_tab 24 2 PORT_BRIDGE=1; \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0xC; \
  w egress_mask 0 12 EGRESS_MASK=0x8000000; \
  w egress_mask 12 12 EGRESS_MASK=0x4000000; \
  w egress_mask 24 1 EGRESS_MASK=0x8000000; \
  w egress_mask 25 1 EGRESS_MASK=0x4000000"

if $?unit1 && $?firebolt_any && $?fbpoe \
  "mod port_tab 24 2 PORT_BRIDGE=1; \
  w modport_map 0 1 HIGIG_PORT_BITMAP=0xC; \
  w egress_mask 32 12 EGRESS_MASK=0x8000000; \
  w egress_mask 44 12 EGRESS_MASK=0x4000000; \
  w egress_mask 56 1 EGRESS_MASK=0x8000000; \
  w egress_mask 57 1 EGRESS_MASK=0x4000000"

# LM fb48 platform setup
# (enabled by adding the property "lm48p=1")
#
if $?unit0 && $?firebolt_any && $?lm48p || $?lm48p_D \
  "w modport_map 1 1 HIGIG_PORT_BITMAP=0xC; \
   w egress_mask 0 12 EGRESS_MASK=0x8000000; \
   w egress_mask 12 12 EGRESS_MASK=0x4000000"


if $?unit1 && $?firebolt_any && $?lm48p || $?lm48p_D \
  "w modport_map 0 1 HIGIG_PORT_BITMAP=0xC; \
   w egress_mask 32 12 EGRESS_MASK=0x8000000; \
   w egress_mask 44 12 EGRESS_MASK=0x4000000"

# Raptor dual Eb platforms
if $?raptor && $?unit0 && $?ics_eb \
 "modify PORT 1 29 MY_MODID=0 ;            \
  modify IPORT_TABLE 1 1 MY_MODID=0 ;      \
```

```
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x1; \
  "

if $?raptor && $?unit1 && $?ics_eb \
  "modify PORT 1 29 MY_MODID=1 ;          \
   modify IPORT_TABLE 1 1 MY_MODID=1 ;     \
   w modport_map 0 1 HIGIG_PORT_BITMAP=0x1;\
   "

# Raptor dual Eb platforms
if $?raven && $?unit0 && $?ics_eb \
 "modify PORT 1 29 MY_MODID=0 ;           \
  modify IPORT_TABLE 1 1 MY_MODID=0 ;      \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x2; \
  port ge0 AN=off SP=1000 FD=True;        \
  "

if $?raven && $?unit1 && $?ics_eb \
  "modify PORT 1 29 MY_MODID=1 ;          \
   modify IPORT_TABLE 1 1 MY_MODID=1 ;     \
   w modport_map 0 1 HIGIG_PORT_BITMAP=0x2;\
   port ge0 AN=off SP=1000 FD=True;        \
   "

# hurricane 48p GE platform setup
# (enabled by adding the property "ge_hu_48p=1")
#
if $?unit0 && $?ge_hu_48p \
  "stkmode modid=0; \
   w modport_map 1 1 HIGIG_PORT_BITMAP=0x3; \
   w egress_mask 0 12 EGRESS_MASK=0x8000000; \
   w egress_mask 12 12 EGRESS_MASK=0x4000000; \
   w egress_mask 24 1 EGRESS_MASK=0x8000000; \
   w egress_mask 25 1 EGRESS_MASK=0x4000000"

if $?unit1 && $?ge_hu_48p \
  "stkmode modid=1; \
   w modport_map 0 1 HIGIG_PORT_BITMAP=0xc; \
   w egress_mask 64 12 EGRESS_MASK=0x20000000; \
   w egress_mask 76 12 EGRESS_MASK=0x10000000; \
   w egress_mask 88 1 EGRESS_MASK=0x20000000; \
   w egress_mask 89 1 EGRESS_MASK=0x10000000"

# hurricane 48p FE platform setup
# (enabled by adding the property "fe_hu_48p=1")
#
if $?unit0 && $?fe_hu_48p && !$?BCM56147 \
  "stkmode modid=0; \
```

```
  port ge0-ge1 sp=2500 an=f encap=higig2; \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x3; \
  w egress_mask 0 12 EGRESS_MASK=0x8000000; \
  w egress_mask 12 12 EGRESS_MASK=0x4000000; \
  w egress_mask 24 1 EGRESS_MASK=0x8000000; \
  w egress_mask 25 1 EGRESS_MASK=0x4000000"

if $?unit1 && $?fe_hu_48p && !$?BCM56147 \
 "stkmode modid=1; \
  port ge2-ge3 sp=2500 an=f encap=higig2; \
  w modport_map 0 1 HIGIG_PORT_BITMAP=0xc; \
  w egress_mask 64 12 EGRESS_MASK=0x20000000; \
  w egress_mask 76 12 EGRESS_MASK=0x10000000; \
  w egress_mask 88 1 EGRESS_MASK=0x20000000; \
  w egress_mask 89 1 EGRESS_MASK=0x10000000"

# hurricane 48p FE platform setup for 56147_A0 devices
# (enabled by adding the property "fe_hu_48p=1")
#
if $?unit0 && $?fe_hu_48p && $?BCM56147 \
 "stkmode modid=0; \
  w modport_map 1 1 HIGIG_PORT_BITMAP=0x3; \
  w egress_mask 2 27 EGRESS_MASK=0x8000000"

if $?unit1 && $?fe_hu_48p && $?BCM56147 \
 "stkmode modid=1; \
  w modport_map 0 1 HIGIG_PORT_BITMAP=0xc; \
  w egress_mask 66 91 EGRESS_MASK=0x20000000"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/syssnake.soc
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Definition file for the PHY8806X.
* This file provides all basic definitions required to program the PHY8806X.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/include/phy8806x_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_qe_auto_ex.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_qe_auto_ex.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: netio.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* netio module for VxWorks
*
*   Abstracts FTP or RSH to look like ordinary file I/O.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/netio.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: iproc.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/iproc.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# SNMP Counter (TX/RX) and MIB Stats initialization
# all counters must be zeroed out before they start
# counting (R. Selvaraj)
# Receive/Transmit Packet counter

echo Clearing Fast Ethernet Statistics Counters

setreg RPKT 0
setreg TPKT 0
# Receive/Transmit Byte counter
setreg RBYT 0
setreg TBYT 0
# Receive/Transmit FCS error counter
setreg RFCS 0
setreg TFCS 0
# Receive/Transmit Multicast Packet counter
setreg RMCA 0
setreg TMCA 0
# Receive/Transmit Broadcast Packet counter
setreg RBCA 0
setreg TBCA 0
# Receive/Transmit Control Frame/Unicast Packet counter
setreg RXCF 0
setreg TUCA 0
# Receive/Transmit Pause Frame Packet counter
setreg RXPF 0
setreg TXPF 0
# Receive/Transmit Unknown Opcode counter
setreg RXUO 0
# Transmit Single/Multiple Deferral Packet counter
setreg TDFR 0
setreg TXDF 0
#Transmit single/multiple/late collision packet counter
setreg TSCL 0
setreg TMCL 0
setreg TLCL 0
# Transmit Total/Excessive Collision packet counter
```

```
setreg TNCL 0
setreg TXCL 0
# Receive/Transmit Alignment Error counter
setreg RALN 0
# Receive/Transmit Frame Length out of range counter
setreg RFLR 0
# Receive/Transmit Code Error counter
setreg RCDE 0
# Receive/Transmit False carrier counter
setreg RFCR 0
# Receive/Transmit Undersize Packet counter
setreg RUND 0
# Receive/Transmit Oversize Packet counter
setreg ROVR 0
setreg TOVR 0
# Receive/Transmit Fragments counter
setreg RFRG 0
# Receive/Transmit Jabber counter
setreg RJBR 0
setreg TJBR 0
# Receive/Transmit 64 byte frame counter
setreg R64 0
setreg T64 0
# Receive/Transmit 65 - 127 byte frame counter
setreg R127 0
setreg T127 0
# Receive/Transmit 128 - 255 byte frame counter
setreg R255 0
setreg T255 0
# Receive/Transmit 256 - 511 byte frame counter
setreg R511 0
setreg T511 0
# Receive/Transmit 512 - 1023 byte frame counter
setreg R1023 0
setreg T1023 0
# Receive/Transmit 1024 - MaxPktLen frame counter
setreg RMAX 0
setreg TMAX 0
# Receive/Transmit 1519 - 1522 byte Good VLAN Frame counter
setreg RMGV 0
setreg TMGV 0
# Receive/Transmit 1519 - 1522 byte Bad VLAN Frame counter
setreg RMBV 0
setreg TMBV 0
# L3 Received unicast packet counter
setreg RIPC 0
# L3 Received Discarded packet counter
setreg RIPD 0
```

```
# L3 Received IP Header Error packet counter
setreg RIPCHK 0
# L3 Received IPX Packet counter
setreg RIPX 0
# L3 Received IPX Error packet counter
setreg RIPXD 0
# L3 Received Packet Discard counter
setreg RDISC 0
# Number of packets dropped due to Egress Aging
setreg TAGE 0
# L3 Packets transmitted
setreg TIP 0
# Number of L3 packets aborted
setreg TIPD 0
# Number of tagged VLAN packets transmitted
setreg TVLAN 0
# Number of IPX packets transmitted
setreg TIPX 0
# Number of packets aborted
setreg TABRT 0

echo Clearing Gigabit Ethernet Statistics Counters

setreg GR64 0
setreg GR127 0
setreg GR255 0
setreg GR511 0
setreg GR1023 0
setreg GRMAX 0
setreg GRMVL 0
setreg GRBCA 0
setreg GRXCF 0
setreg GRFCS 0
setreg GRFDR 0
setreg GRFRG 0
setreg GRIPC 0
setreg GRIPCHK 0
setreg GRIPD 0
setreg GRJBR 0
setreg GRSER 0
setreg GRLER 0
setreg GRTYP 0
setreg GRMCA 0
setreg GRBYT 0
setreg GROVR 0
setreg GRXPF 0
setreg GRUNI 0
setreg GRUND 0
```

```
setreg GRXUO 0
setreg GRVLF 0
setreg GT64 0
setreg GT127 0
setreg GT255 0
setreg GT511 0
setreg GT1023 0
setreg GTMAX 0
setreg GTBCA 0
setreg GTXCF 0
setreg GTFDR 0
setreg GTFCS 0
setreg GTFRG 0
setreg GTJBR 0
setreg GTMVL 0
setreg GTMCA 0
setreg GTBYT 0
setreg GTOVR 0
setreg GTXPF 0
setreg GTUND 0
setreg GTUNI 0
setreg GTVLF 0
setreg GRDISC 0
setreg GRIPX 0
setreg GRIPXD 0
setreg GTABRT 0
setreg GTAGE 0
setreg GTIP 0
setreg GTIPD 0
setreg GTIPX 0
setreg GTVLAN 0

echo Statistics Counters cleared.
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/clrctrs.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in Self Test for KAPS TCAM
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/test/kaps_bist.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/lif_learn_info.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_tcam.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_tmcapi_tcam.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_tcam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_kbp_entry_mgmt.c,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_kbp_entry_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_pure_defi.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/diag/dpp/utils_pure_defi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_template.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       shr_template.h
* Purpose:    Internal routines to the BCM library for template
*             gu2 management.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_template.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_h_ext_sim.stg,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* g3p1_tmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_tmu_sim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmac_drv.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC CMAC DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/cmac_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils_fe1600_card.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       utils_fe1600_card.c
* Purpose:     fe1600 card Utilities.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dfe/utils_fe1600_card.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tnl_term.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Tunnel terminator TCAM table insert/delete/lookup routines
```

```
* soc_tunnel_term_init    - Called from bcm_l3_init
* soc_tunnel_term_insert  - Insert/Update an IPv4/IPV6 tunnel
*                          termination entry into L3_TUNNEL table
* soc_tunnel_term_delete  - Delete an IPv4/IPV6 tunnel termination
*                          entry from L3_TUNNEL table
* soc_tunnel_term_match  -  Exact match for the key.
*                          Will match  tunnel type (GRE/IP/MCAST) &&
*                                      (DIP & DIP_MASK)&&
*                                      (SIP & SIP_MASK)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tnl_term.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_furia_fields.h 661 2014-08-14 23:20:49Z kirand $ *
*                                                                                       *
*  Description   :  Register access macros for FALCON_FURIA                             *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_fields.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/
BCM56xx LED Processor
by Curt McDowell 08/09/02

1) LED Processor

The LED Processor is featured in the BCM5605 and later StrataSwitch chips, as well as all StrataXGS switch and fabric chips. It is a very simple, tiny 8-bit CPU integrated into the CPU Management Interface Controller (CMIC) portion of the chip. The processor is very well-matched to the task of managing LEDs, but does not have enough power or capacity to perform additional functions.

Downloading the LED Processor program, and subsequent communication between the LED Processor and the host device, is done via direct-mapped PCI memory accesses into the LED Processor program and data space.

The net output of the LED Processor are two pins, clock and data, that output a scan chain of 0's and 1's into a series of external shift registers connected to LEDs. The layout and length of the LED chain is completely dependent on board implementation, so if the customer LED chain is not the same as one of the existing SDK chains, then a custom program is needed.

The entire LED Processor program runs from start to completion approximately 30 times per second, providing a maximum update rate of 30Hz. Little or no host CPU intervention is required, however the host CPU can always information to the LED Processor by writing into its data space.

2) LED Processor Resources

Starting in SDK 2.0.0 and later, the $SDK/led directory in the top level of the release tree contains PDF documentation, tools including assembler, disassembler, and debugger, and numerous sample programs for existing Broadcom SDK boards.

On Broadcom SDK systems, the rc.soc initialization script starts a default program running on the LED Processor where appropriate. The rc.soc script is located in

$SDK/rc/rc.soc

and rc.soc is also commonly programmed on the CPU flash filesystem as:

flash:rc.soc

For example, the source code for the default LED program for BCM5605, BCM5615, and BCM5645 SDKs is called "sdk5605.asm" and is located in:

```
$SDK/led/example/sdk5605.asm
$SDK/led/example/sdk5605.hex (assember output file)
```

3) Developing LED Programs

A LED program can be written or modified by the programmer to present other behaviors.

In general, to try a new program the user should assemble the source code and test-load the program using the BCM commands:

```
led stop
led load my_prog.hex
led start
```

Once a program is developed, the program's .hex data can be used to replace the one in rc.soc for custom behavior, or can be passed as a byte array to the soc_ledproc_config() routine in the driver library.

4) An example SDK LED Program for BCM5605

The BCM5605 SDK has 14 columns of 4 LEDs each as shown below:

```
Lxx  L25  L01 L03 L05 L07 L09 L11 L13 L15 L17 L19 L21 L23
Lxx  A25  A01 A03 A05 A07 A09 A11 A13 A15 A17 A19 A21 A23
Lxx  L26  L02 L04 L06 L08 L10 L12 L14 L16 L18 L20 L22 L24
Lxx  A26  A02 A04 A06 A08 A10 A12 A14 A16 A18 A20 A22 A24
```

Lxx are voltage status LEDs and are not accessible.

The sdk5605.asm program writes bits to the LED scan chain in the proper order in order to implement the following behavior (see sdk5605.asm for detailed information):

L01 reflects port 1 link status:
- Black: no link
- Amber: 10 Mb/s
- Green: 100 Mb/s
- Alternating green/amber: 1000 Mb/s
- Very brief flashes of black at 1 Hz: half duplex
- Longer periods of black: collisions in progress

A01 reflects port 1 activity (even if port is down)
- Black: idle
- Green: RX (pulse extended to 1/3 sec)

Amber: TX (pulse extended to 1/3 sec, takes precedence over RX)
Green/Amber alternating at 6 Hz: both RX and TX

5) Information Available to the LED Processor

The "pushst" instruction of the LED Processor can push the following status information, where a 1 indicates true and 0 indicates false:

RX	0x0	Received packet in the last 1/30 sec window
TX	0x1	Transmitted packet in the last 1/30 sec window
COLL	0x2	Collision detected in the last 1/30 sec window
SPEED_C	0x3	MAC is configured for 100 Mbps mode
SPEED_M	0x4	MAC is configured for 1000 Mbps mode
DUPLEX	0x5	MAC is configured for full duplex
FLOW	0x6	Flow control capable
LINKUP	0x7	Link is up
LINKEN	0x8	Link is enabled

The "port" instruction configures the port on which the "pushst" instruction operates.

The LED Processor is part of the CMIC and has access only to the MACs, not to the PHYs or other parts of the switch chip.

The latter two values, LINKUP and LINKEN, are not generally available in all MACs. For example, the SERDES and Higig MACs have this information, but the 10/100 MAC does not.

As such, it is recommended that link up/down status and other user-defined information be passed to the LED Processor by the main CPU, for example by the linkscan task.

6) Passing Information to the LED Processor

In the Broadcom SDK, memory locations 0x80 through 0x99 in the LED Processor program data space are reserved for communication from the host CPU to the LED Processor. One byte per port has been assigned:

Bit 0 of each byte is used to pass link up/down status.
Bits 1-6 of each byte remain unassigned.
Bit 7 of each byte is used to pass link turbo enable/disable status.

There is no reason this format is required; the user may feel free to redefine the communication protocol and re-write parts of the driver code.

Please refer to the file

$SDK/src/appl/diag/ledproc.c

which demonstrates how to initialize and download the LED Processor, and
how to tie into the linkscan callback routine to send link up/down
status to the LED Processor whenever a link goes up or down.

Note that, as mapped in the CMIC PCI memory space, each byte of the LED
processor occupies an entire 32-bit word, of which only the least
significant eight bits is actually valid. Therefore, when reading or
writing the LED program or data spaces from the main CPU, the byte
offset must be multiplied by 4 and added to the PCI
CMIC_LED_DATA_RAM_BASE, and 32-bit read/write operations should be used
to avoid any endian issue. The macros CMIC_LED_PROGRAM_RAM(offset) and
CMIC_LED_DATA_RAM(offset) help calculate these offsets.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/led-proc.txt
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_fabric.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/ARAD/arad_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/JER/jer_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/JER/jer_api_egr_queuing.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_jer_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dnx/legacy/JER/jer_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: valkyrie.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       valkyrie.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/valkyrie.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cosq.h
* Purpose:     COSQ internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* Only edit this file under $(UKERNEL), the SDK version is a copy!
*
* $Id: bcm53084lib.c,v 1.55 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcm53084lib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/aps/bcm89500lib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_cell_snake_test.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF FABRIC SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_fabric_cell_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtdebugbank1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcast.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mcast.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_lbp_init.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_lbp_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag register commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/reg.c
No license file was found, but licenses were detected in source scan.

```
# $Id: ebsanity.soc,v 1.8 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"



# We need to print out port status since any cabling effects results.
*:ps

if $?raptor '\
local lbpbm "ge1,ge4,ge5-ge52";   \
'
if $?raven '\
local lbpbm "ge1,ge4,ge5-ge28";   \
'

if $?BCM56212_A0 || $?BCM56213_A0 'local lbpbm "ge1,ge4,ge5-ge12"'
if $?BCM56216_A0 || $?BCM56217_A0 'local lbpbm "ge1,ge4,ge5-ge20"'
if $?BCM56214_A0 || $?BCM56215_A0 'local lbpbm "ge1,ge4,ge5-ge28"'
if $?BCM56212_A1 || $?BCM56213_A1 'local lbpbm "ge1,ge4,ge5-ge12"'
if $?BCM56216_A1 || $?BCM56217_A1 'local lbpbm "ge1,ge4,ge5-ge20"'
if $?BCM56214_A1 || $?BCM56215_A1 'local lbpbm "ge1,ge4,ge5-ge28"'
if $?BCM56212_A2 || $?BCM56213_A2 'local lbpbm "ge1,ge4,ge5-ge12"'
if $?BCM56216_A2 || $?BCM56217_A2 'local lbpbm "ge1,ge4,ge5-ge20"'
if $?BCM56214_A2 || $?BCM56215_A2 'local lbpbm "ge1,ge4,ge5-ge28"'
if $?BCM56224_A0 || $?BCM56225_A0 'local lbpbm "ge1,ge4,ge5,ge5-ge28"'
if $?BCM56226_A0 || $?BCM56227_A0 'local lbpbm "ge1,ge4,ge5,ge5-ge20"'
if $?BCM56228_A1 || $?BCM56229_A1 'local lbpbm "ge1,ge4,ge5,ge5-ge12"'

set rcerror=false

console off
pbmp $lbpbm
if $? && $?BCM56215_A0 'local lbpbm "ge1,ge4,ge2-ge27"'
if $? && $?BCM56215_A1 'local lbpbm "ge1,ge4,ge2-ge27"'
if $? && $?BCM56215_A2 'local lbpbm "ge1,ge4,ge2-ge27"'
console on
set rcerror=true
```

```
if  $?BCM56018_A0  || $?BCM56014_A0 ' \
   local lbpbm "none"                  ;\
   '
if  $?BCM56018_A1  || $?BCM56014_A1 ' \
   local lbpbm "none"                  ;\
   '
if  $?BCM56018_A2  || $?BCM56014_A2 ' \
   local lbpbm "ge1,ge4,fe"                  ;\
   '

if  $?BCM56024_A0 || $?BCM56024_B0 || $?BCM56025_A0 ' \
   local lbpbm "ge1,ge4,fe"                  ;\
   '

#Display config property settings
config

init
init misc

local done 'echo "    Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Deselect all
ts -*

#Display some useful information
date
ver
soc

echo "Running S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
```

```
init soc;
#Clean up after register read/write test.

echo "Running CPU Benchmarks ..."
tr 21
$done

echo "Running Switching Memory tests ..."
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"
#echo "tr 50 M=BSAFE_CMD_DATA_IN"
#tr 50 M=BSAFE_CMD_DATA_IN IS=min IE=max
#echo " Done"
#echo "tr 50 M=BSAFE_CMD_DATA_OUT"
#tr 50 M=BSAFE_CMD_DATA_OUT IS=min IE=max
#echo " Done"
echo "tr 50 M=DSCP_TABLE"
tr 50 M=DSCP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_DSCP_ECN_MAP"
tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_DSCP_TABLE"
tr 50 M=EGR_DSCP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_EM_MTP_INDEX"
tr 50 M=EGR_EM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_IM_MTP_INDEX"
tr 50 M=EGR_IM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_IP_TUNNEL"
tr 50 M=EGR_IP_TUNNEL IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_L3_INTF"
tr 50 M=EGR_L3_INTF IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_L3_NEXT_HOP"
tr 50 M=EGR_L3_NEXT_HOP IS=min IE=max
echo " Done"
echo "tr 50 M=EGRESS_MASK"
tr 50 M=EGRESS_MASK IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_VLAN"
tr 50 M=EGR_VLAN IS=min IE=max
echo " Done"
echo "tr 50 M=EGR_VLAN_STG"
tr 50 M=EGR_VLAN_STG IS=min IE=max
```

```
echo " Done"
echo "tr 50 M=EM_MTP_INDEX"
tr 50 M=EM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=FP_COUNTER_TABLE"
tr 50 M=FP_COUNTER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_METER_TABLE"
tr 50 M=FP_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_POLICY_TABLE"
tr 50 M=FP_POLICY_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_PORT_FIELD_SEL"
tr 50 M=FP_PORT_FIELD_SEL IS=min IE=max
echo " Done"
echo "tr 50 M=FP_RANGE_CHECK"
tr 50 M=FP_RANGE_CHECK IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_BCAST_METER_TABLE"
tr 50 M=FP_SC_BCAST_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_DLF_METER_TABLE"
tr 50 M=FP_SC_DLF_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_MCAST_METER_TABLE"
tr 50 M=FP_SC_MCAST_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SC_METER_TABLE"
tr 50 M=FP_SC_METER_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=FP_SLICE_MAP"
tr 50 M=FP_SLICE_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=FP_TCAM"
tr 50 M=FP_TCAM IS=min IE=max
echo " Done"
echo "tr 50 M=UDF_OFFSET"
tr 50 M=UDF_OFFSET IS=min IE=max
echo " Done"
echo "tr 50 M=IM_MTP_INDEX"
tr 50 M=IM_MTP_INDEX IS=min IE=max
echo " Done"
echo "tr 50 M=ING_L3_NEXT_HOP"
tr 50 M=ING_L3_NEXT_HOP IS=min IE=max
echo " Done"
echo "tr 50 M=IPORT_TABLE"
tr 50 M=IPORT_TABLE IS=min IE=max
```

```
echo " Done"
echo "tr 50 M=L2MC"
tr 50 M=L2MC IS=min IE=max
echo " Done"
echo "tr 50 M=L2_ENTRY"
tr 50 M=L2_ENTRY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_ENTRY_ONLY"
tr 50 M=L2_ENTRY_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_HITDA_ONLY"
tr 50 M=L2_HITDA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_HITSA_ONLY"
tr 50 M=L2_HITSA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_MOD_FIFO"
tr 50 M=L2_MOD_FIFO IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY"
tr 50 M=L2_USER_ENTRY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY"
tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L2_USER_ENTRY_ONLY"
tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=L3_TUNNEL"
tr 50 M=L3_TUNNEL IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_MAC_BLOCK"
tr 50 M=PORT_MAC_BLOCK IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 50 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=AGING_CTR"
tr 50 M=AGING_CTR IS=min IE=max
echo " Done"
echo "tr 50 M=AGING_EXP"
tr 50 M=AGING_EXP IS=min IE=max
echo " Done"
echo "tr 50 M=CBPCELLHEADER"
tr 50 M=CBPCELLHEADER IS=min IE=max
```

```
echo " Done"
echo "tr 50 M=CBPDATA0"
tr 50 M=CBPDATA0 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA1"
tr 50 M=CBPDATA1 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA2"
tr 50 M=CBPDATA2 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA3"
tr 50 M=CBPDATA3 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA4"
tr 50 M=CBPDATA4 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA5"
tr 50 M=CBPDATA5 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA6"
tr 50 M=CBPDATA6 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPDATA7"
tr 50 M=CBPDATA7 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPPKTHEADER0"
tr 50 M=CBPPKTHEADER0 IS=min IE=max
echo " Done"
echo "tr 50 M=CBPPKTHEADER1"
tr 50 M=CBPPKTHEADER1 IS=min IE=max
echo " Done"
echo "tr 50 M=CCP"
tr 50 M=CCP IS=min IE=max
echo " Done"
echo "tr 50 M=CFAP"
tr 50 M=CFAP IS=min IE=max
echo " Done"
echo "tr 50 M=XQ0"
tr 50 M=XQ0 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ1"
tr 50 M=XQ1 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ2"
tr 50 M=XQ2 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ3"
tr 50 M=XQ3 IS=min IE=max
```

```
echo " Done"
echo "tr 50 M=XQ4"
tr 50 M=XQ4 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ5"
tr 50 M=XQ5 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ6"
tr 50 M=XQ6 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ7"
tr 50 M=XQ7 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ8"
tr 50 M=XQ8 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ9"
tr 50 M=XQ9 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ10"
tr 50 M=XQ10 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ11"
tr 50 M=XQ11 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ12"
tr 50 M=XQ12 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ13"
tr 50 M=XQ13 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ14"
tr 50 M=XQ14 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ15"
tr 50 M=XQ15 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ16"
tr 50 M=XQ16 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ17"
tr 50 M=XQ17 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ18"
tr 50 M=XQ18 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ19"
tr 50 M=XQ19 IS=min IE=max
```

```
echo " Done"
echo "tr 50 M=XQ20"
tr 50 M=XQ20 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ21"
tr 50 M=XQ21 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ22"
tr 50 M=XQ22 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ23"
tr 50 M=XQ23 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ24"
tr 50 M=XQ24 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ25"
tr 50 M=XQ25 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ26"
tr 50 M=XQ26 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ27"
tr 50 M=XQ27 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ28"
tr 50 M=XQ28 IS=min IE=max
echo " Done"
echo "tr 50 M=XQ29"
tr 50 M=XQ29 IS=min IE=max
echo " Done"
if $?raptor '\
echo "tr 50 M=XQ30"; \
tr 50 M=XQ30 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=XQ31"; \
tr 50 M=XQ31 IS=min IE=max;  \
echo " Done"; \
echo "tr 50 M=XQ32";        \
tr 50 M=XQ32 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ33";        \
tr 50 M=XQ33 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ34";        \
tr 50 M=XQ34 IS=min IE=max;  \
echo " Done";               \
echo "tr 50 M=XQ35";        \
```

```
tr 50 M=XQ35 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ36";         \
tr 50 M=XQ36 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ37";         \
tr 50 M=XQ37 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ38";         \
tr 50 M=XQ38 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ39";         \
tr 50 M=XQ39 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ40";         \
tr 50 M=XQ40 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ41";         \
tr 50 M=XQ41 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ42";         \
tr 50 M=XQ42 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ43";         \
tr 50 M=XQ43 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ44";         \
tr 50 M=XQ44 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ45";         \
tr 50 M=XQ45 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ46";         \
tr 50 M=XQ46 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ47";         \
tr 50 M=XQ47 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ48";         \
tr 50 M=XQ48 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ49";         \
tr 50 M=XQ49 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ50";         \
tr 50 M=XQ50 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ51";         \
```

```
tr 50 M=XQ51 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ52";         \
tr 50 M=XQ52 IS=min IE=max;  \
echo " Done";                \
echo "tr 50 M=XQ53";         \
tr 50 M=XQ53 IS=min IE=max;  \
echo " Done";                \
'
echo "tr 50 M=MODPORT_MAP"
tr 50 M=MODPORT_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_EM"
tr 50 M=MODPORT_MAP_EM IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_IM"
tr 50 M=MODPORT_MAP_IM IS=min IE=max
echo " Done"
echo "tr 50 M=MODPORT_MAP_SW"
tr 50 M=MODPORT_MAP_SW IS=min IE=max
echo " Done"
echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max
echo " Done"
echo "tr 50 M=MAC_LIMIT_COUNT_TABLE"
tr 50 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max
echo " Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max
echo " Done"
echo "tr 50 M=PORT"
tr 50 M=PORT IS=min IE=max
echo " Done"
echo "tr 50 M=SOURCE_TRUNK_MAP"
tr 50 M=SOURCE_TRUNK_MAP IS=min IE=max
echo " Done"
echo "tr 50 M=SRC_MODID_BLOCK"
tr 50 M=SRC_MODID_BLOCK IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_STG"
tr 50 M=VLAN_STG IS=min IE=max
echo " Done"
echo "tr 50 M=TRUNK_BITMAP"
tr 50 M=TRUNK_BITMAP IS=min IE=max
echo " Done"
```

```
echo "tr 50 M=TRUNK_GROUP"
tr 50 M=TRUNK_GROUP IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_MAC"
tr 50 M=VLAN_MAC IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_PROTOCOL"
tr 50 M=VLAN_PROTOCOL IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_PROTOCOL_DATA"
tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET"
tr 50 M=VLAN_SUBNET IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET_DATA_ONLY"
tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN_SUBNET_ONLY"
tr 50 M=VLAN_SUBNET_ONLY IS=min IE=max
echo " Done"
echo "tr 50 M=VLAN"
tr 50 M=VLAN IS=min IE=max
echo " Done"

if $?raven '\
echo "tr 50 M=EGR_PRI_CNG_MAP"; \
tr 50 M=EGR_PRI_CNG_MAP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE"; \
tr 50 M=EGR_VLAN_XLATE IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 50 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=EGR_VLAN_XLATE_ONLY"; \
tr 50 M=EGR_VLAN_XLATE_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=IFP_PORT_FIELD_SEL"; \
tr 50 M=IFP_PORT_FIELD_SEL IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=ING_PRI_CNG_MAP"; \
tr 50 M=ING_PRI_CNG_MAP IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP"; \
```

```
tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=INITIAL_L3_ECMP"; \
tr 50 M=INITIAL_L3_ECMP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP"; \
tr 50 M=L3_DEFIP IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_DATA_ONLY"; \
tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_HIT_ONLY"; \
tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_DEFIP_ONLY"; \
tr 50 M=L3_DEFIP_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ECMP"; \
tr 50 M=L3_ECMP IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 50 M=L3_ENTRY_HIT_ONLY"; \
tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV4_UNICAST"; \
tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_IPV6_UNICAST"; \
tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_ONLY"; \
tr 50 M=L3_ENTRY_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=L3_ENTRY_VALID_ONLY"; \
tr 50 M=L3_ENTRY_VALID_ONLY IS=min IE=max; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 50 M=L3_IPMC"; \
```

```
tr 50 M=L3_IPMC IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL0"; \
tr 50 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL1"; \
tr 50 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_GROUP_TBL2"; \
tr 50 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_IPMC_VLAN_TBL"; \
tr 50 M=MMU_IPMC_VLAN_TBL IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_MAX_BUCKET_GPORT"; \
tr 50 M=MMU_MAX_BUCKET_GPORT IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=MMU_MIN_BUCKET_GPORT"; \
tr 50 M=MMU_MIN_BUCKET_GPORT IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_PROFILE_TAB"; \
tr 50 M=VLAN_PROFILE_TAB IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE"; \
tr 50 M=VLAN_XLATE IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE_DATA_ONLY"; \
tr 50 M=VLAN_XLATE_DATA_ONLY IS=min IE=max; \
echo " Done"; \
echo "tr 50 M=VLAN_XLATE_ONLY"; \
tr 50 M=VLAN_XLATE_ONLY IS=min IE=max; \
echo " Done"; \
'

if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"
'
#echo "tr 51 M=BSAFE_CMD_DATA_IN"
#tr 51 M=BSAFE_CMD_DATA_IN IS=min IE=max ITER=1
#echo " Done"
#echo "tr 51 M=BSAFE_CMD_DATA_OUT"
#tr 51 M=BSAFE_CMD_DATA_OUT IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=DSCP_TABLE"
tr 51 M=DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_DSCP_ECN_MAP"
tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=EGR_DSCP_TABLE"
tr 51 M=EGR_DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_EM_MTP_INDEX"
tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_IM_MTP_INDEX"
tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_IP_TUNNEL"
tr 51 M=EGR_IP_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_L3_INTF"
tr 51 M=EGR_L3_INTF IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_L3_NEXT_HOP"
tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGRESS_MASK"
tr 51 M=EGRESS_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_VLAN"
tr 51 M=EGR_VLAN IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EGR_VLAN_STG"
tr 51 M=EGR_VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=EM_MTP_INDEX"
tr 51 M=EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_COUNTER_TABLE"
tr 51 M=FP_COUNTER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_METER_TABLE"
tr 51 M=FP_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_POLICY_TABLE"
tr 51 M=FP_POLICY_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_PORT_FIELD_SEL"
tr 51 M=FP_PORT_FIELD_SEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_RANGE_CHECK"
tr 51 M=FP_RANGE_CHECK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_BCAST_METER_TABLE"
tr 51 M=FP_SC_BCAST_METER_TABLE IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 51 M=FP_SC_DLF_METER_TABLE"
tr 51 M=FP_SC_DLF_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_MCAST_METER_TABLE"
tr 51 M=FP_SC_MCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=FP_SC_METER_TABLE"
tr 51 M=FP_SC_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "Skip FP_SLICE_MAP table (NOT TESTABLE)"
#echo "tr 51 M=FP_SLICE_MAP"
#tr 51 M=FP_SLICE_MAP IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=FP_TCAM"
tr 51 M=FP_TCAM IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=UDF_OFFSET"
tr 51 M=UDF_OFFSET IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=IM_MTP_INDEX"
tr 51 M=IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=ING_L3_NEXT_HOP"
tr 51 M=ING_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "Skip IPORT_TABLE table (NOT TESTABLE)"
#echo "tr 51 M=IPORT_TABLE"
#tr 51 M=IPORT_TABLE IS=min IE=max ITER=1
#echo " Done"
echo "tr 51 M=L2MC"
tr 51 M=L2MC IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_ENTRY"
tr 51 M=L2_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_ENTRY_ONLY"
tr 51 M=L2_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_HITDA_ONLY"
tr 51 M=L2_HITDA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_HITSA_ONLY"
tr 51 M=L2_HITSA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_MOD_FIFO"
tr 51 M=L2_MOD_FIFO IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=L2_USER_ENTRY"
tr 51 M=L2_USER_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY"
tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L2_USER_ENTRY_ONLY"
tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=L3_TUNNEL"
tr 51 M=L3_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_MAC_BLOCK"
tr 51 M=PORT_MAC_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 51 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=AGING_CTR"
tr 51 M=AGING_CTR IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=AGING_EXP"
tr 51 M=AGING_EXP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPCELLHEADER"
tr 51 M=CBPCELLHEADER IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA0"
tr 51 M=CBPDATA0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA1"
tr 51 M=CBPDATA1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA2"
tr 51 M=CBPDATA2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA3"
tr 51 M=CBPDATA3 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA4"
tr 51 M=CBPDATA4 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA5"
tr 51 M=CBPDATA5 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=CBPDATA6"
tr 51 M=CBPDATA6 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPDATA7"
tr 51 M=CBPDATA7 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPPKTHEADER0"
tr 51 M=CBPPKTHEADER0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CBPPKTHEADER1"
tr 51 M=CBPPKTHEADER1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CCP"
tr 51 M=CCP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=CFAP"
tr 51 M=CFAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ0"
tr 51 M=XQ0 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ1"
tr 51 M=XQ1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ2"
tr 51 M=XQ2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ3"
tr 51 M=XQ3 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ4"
tr 51 M=XQ4 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ5"
tr 51 M=XQ5 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ6"
tr 51 M=XQ6 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ7"
tr 51 M=XQ7 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ8"
tr 51 M=XQ8 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ9"
tr 51 M=XQ9 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=XQ10"
tr 51 M=XQ10 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ11"
tr 51 M=XQ11 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ12"
tr 51 M=XQ12 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ13"
tr 51 M=XQ13 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ14"
tr 51 M=XQ14 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ15"
tr 51 M=XQ15 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ16"
tr 51 M=XQ16 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ17"
tr 51 M=XQ17 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ18"
tr 51 M=XQ18 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ19"
tr 51 M=XQ19 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ20"
tr 51 M=XQ20 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ21"
tr 51 M=XQ21 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ22"
tr 51 M=XQ22 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ23"
tr 51 M=XQ23 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ24"
tr 51 M=XQ24 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ25"
tr 51 M=XQ25 IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=XQ26"
tr 51 M=XQ26 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ27"
tr 51 M=XQ27 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ28"
tr 51 M=XQ28 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=XQ29"
tr 51 M=XQ29 IS=min IE=max ITER=1
echo " Done"
if $?raptor ' \
echo "tr 51 M=XQ30";              \
tr 51 M=XQ30 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ31";              \
tr 51 M=XQ31 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ32";              \
tr 51 M=XQ32 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ33";              \
tr 51 M=XQ33 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ34";              \
tr 51 M=XQ34 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ35";              \
tr 51 M=XQ35 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ36";              \
tr 51 M=XQ36 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ37";              \
tr 51 M=XQ37 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ38";              \
tr 51 M=XQ38 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ39";              \
tr 51 M=XQ39 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ40";              \
tr 51 M=XQ40 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 51 M=XQ41";              \
tr 51 M=XQ41 IS=min IE=max ITER=1; \
```

```
echo " Done";                   \
echo "tr 51 M=XQ42";            \
tr 51 M=XQ42 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ43";            \
tr 51 M=XQ43 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ44";            \
tr 51 M=XQ44 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ45";            \
tr 51 M=XQ45 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ46";            \
tr 51 M=XQ46 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ47";            \
tr 51 M=XQ47 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ48";            \
tr 51 M=XQ48 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ49";            \
tr 51 M=XQ49 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ50";            \
tr 51 M=XQ50 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ51";            \
tr 51 M=XQ51 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ52";            \
tr 51 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                   \
echo "tr 51 M=XQ53";            \
tr 51 M=XQ53 IS=min IE=max ITER=1; \
echo " Done";                   \
'

echo "tr 51 M=MODPORT_MAP"
tr 51 M=MODPORT_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MODPORT_MAP_EM"
tr 51 M=MODPORT_MAP_EM IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MODPORT_MAP_IM"
tr 51 M=MODPORT_MAP_IM IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=MODPORT_MAP_SW"
tr 51 M=MODPORT_MAP_SW IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=MAC_LIMIT_COUNT_TABLE"
tr 51 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=PORT"
tr 51 M=PORT IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=SOURCE_TRUNK_MAP"
tr 51 M=SOURCE_TRUNK_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=SRC_MODID_BLOCK"
tr 51 M=SRC_MODID_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_STG"
tr 51 M=VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=TRUNK_BITMAP"
tr 51 M=TRUNK_BITMAP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=TRUNK_GROUP"
tr 51 M=TRUNK_GROUP IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_MAC"
tr 51 M=VLAN_MAC IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_PROTOCOL"
tr 51 M=VLAN_PROTOCOL IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_PROTOCOL_DATA"
tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_SUBNET"
tr 51 M=VLAN_SUBNET IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN_SUBNET_DATA_ONLY"
tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 51 M=VLAN_SUBNET_ONLY"
tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 51 M=VLAN"
tr 51 M=VLAN IS=min IE=max ITER=1
echo " Done"
$done

if $?raven '\
echo "tr 51 M=EGR_PRI_CNG_MAP"; \
tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE"; \
tr 51 M=EGR_VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 51 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=EGR_VLAN_XLATE_ONLY"; \
tr 51 M=EGR_VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=IFP_PORT_FIELD_SEL"; \
tr 51 M=IFP_PORT_FIELD_SEL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=ING_PRI_CNG_MAP"; \
tr 51 M=ING_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=INITIAL_L3_ECMP"; \
tr 51 M=INITIAL_L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 51 M=L3_DEFIP"; \
tr 51 M=L3_DEFIP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_DATA_ONLY"; \
tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_HIT_ONLY"; \
tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_DEFIP_ONLY"; \
tr 51 M=L3_DEFIP_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 51 M=L3_ECMP"; \
tr 51 M=L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_HIT_ONLY"; \
tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 51 M=L3_ENTRY_IPV4_UNICAST"; \
tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_IPV6_UNICAST"; \
tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_ONLY"; \
tr 51 M=L3_ENTRY_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_ENTRY_VALID_ONLY"; \
tr 51 M=L3_ENTRY_VALID_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=L3_IPMC"; \
tr 51 M=L3_IPMC IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_GROUP_TBL0"; \
tr 51 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_GROUP_TBL1"; \
tr 51 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 51 M=MMU_IPMC_GROUP_TBL2"; \
tr 51 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_IPMC_VLAN_TBL"; \
tr 51 M=MMU_IPMC_VLAN_TBL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=MMU_MAX_BUCKET_GPORT"; \
tr 51 M=MMU_MAX_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 51 M=MMU_MIN_BUCKET_GPORT"; \
tr 51 M=MMU_MIN_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_PROFILE_TAB"; \
tr 51 M=VLAN_PROFILE_TAB IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE"; \
tr 51 M=VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE_DATA_ONLY"; \
tr 51 M=VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 51 M=VLAN_XLATE_ONLY"; \
tr 51 M=VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
'

if $?raptor '\
echo "Skip BSAFE_CMD_DATA_IN/BSAFE_CMD_DATA_OUT table (NOT TESTABLE)"; \
'

#echo "tr 52 M=BSAFE_CMD_DATA_IN"
#tr 52 M=BSAFE_CMD_DATA_IN IS=min IE=max ITER=1
#echo " Done"
#echo "tr 52 M=BSAFE_CMD_DATA_OUT"
#tr 52 M=BSAFE_CMD_DATA_OUT IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=DSCP_TABLE"
tr 52 M=DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_DSCP_ECN_MAP"
tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_DSCP_TABLE"
tr 52 M=EGR_DSCP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_EM_MTP_INDEX"
tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_IM_MTP_INDEX"
tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_IP_TUNNEL"
tr 52 M=EGR_IP_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_L3_INTF"
tr 52 M=EGR_L3_INTF IS=min IE=max ITER=1
echo " Done"
```

```
echo "tr 52 M=EGR_L3_NEXT_HOP"
tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGRESS_MASK"
tr 52 M=EGRESS_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_VLAN"
tr 52 M=EGR_VLAN IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EGR_VLAN_STG"
tr 52 M=EGR_VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=EM_MTP_INDEX"
tr 52 M=EM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_COUNTER_TABLE"
tr 52 M=FP_COUNTER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_METER_TABLE"
tr 52 M=FP_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_POLICY_TABLE"
tr 52 M=FP_POLICY_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_PORT_FIELD_SEL"
tr 52 M=FP_PORT_FIELD_SEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_RANGE_CHECK"
tr 52 M=FP_RANGE_CHECK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_BCAST_METER_TABLE"
tr 52 M=FP_SC_BCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_DLF_METER_TABLE"
tr 52 M=FP_SC_DLF_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_MCAST_METER_TABLE"
tr 52 M=FP_SC_MCAST_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=FP_SC_METER_TABLE"
tr 52 M=FP_SC_METER_TABLE IS=min IE=max ITER=1
echo " Done"
echo "Skip FP_SLICE_MAP table (NOT TESTABLE)"
#echo "tr 52 M=FP_SLICE_MAP"
#tr 52 M=FP_SLICE_MAP IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=FP_TCAM"
tr 52 M=FP_TCAM IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 52 M=UDF_OFFSET"
tr 52 M=UDF_OFFSET IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=IM_MTP_INDEX"
tr 52 M=IM_MTP_INDEX IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=ING_L3_NEXT_HOP"
tr 52 M=ING_L3_NEXT_HOP IS=min IE=max ITER=1
echo " Done"
echo "Skip IPORT_TABLE table (NOT TESTABLE)"
#echo "tr 52 M=IPORT_TABLE"
#tr 52 M=IPORT_TABLE IS=min IE=max ITER=1
#echo " Done"
echo "tr 52 M=L2MC"
tr 52 M=L2MC IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_ENTRY"
tr 52 M=L2_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_ENTRY_ONLY"
tr 52 M=L2_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_HITDA_ONLY"
tr 52 M=L2_HITDA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_HITSA_ONLY"
tr 52 M=L2_HITSA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_MOD_FIFO"
tr 52 M=L2_MOD_FIFO IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY"
tr 52 M=L2_USER_ENTRY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY"
tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L2_USER_ENTRY_ONLY"
tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=L3_TUNNEL"
tr 52 M=L3_TUNNEL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_MAC_BLOCK"
tr 52 M=PORT_MAC_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_PORT_MAP_TABLE"
```

```
tr 52 M=MAC_LIMIT_PORT_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=AGING_CTR"
tr 52 M=AGING_CTR IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=AGING_EXP"
tr 52 M=AGING_EXP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPCELLHEADER"
tr 52 M=CBPCELLHEADER IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA0"
tr 52 M=CBPDATA0 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA1"
tr 52 M=CBPDATA1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA2"
tr 52 M=CBPDATA2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA3"
tr 52 M=CBPDATA3 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA4"
tr 52 M=CBPDATA4 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA5"
tr 52 M=CBPDATA5 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA6"
tr 52 M=CBPDATA6 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPDATA7"
tr 52 M=CBPDATA7 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPPKTHEADER0"
tr 52 M=CBPPKTHEADER0 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CBPPKTHEADER1"
tr 52 M=CBPPKTHEADER1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CCP"
tr 52 M=CCP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=CFAP"
```

```
tr 52 M=CFAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ0"
tr 52 M=XQ0 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ1"
tr 52 M=XQ1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ2"
tr 52 M=XQ2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ3"
tr 52 M=XQ3 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ4"
tr 52 M=XQ4 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ5"
tr 52 M=XQ5 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ6"
tr 52 M=XQ6 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ7"
tr 52 M=XQ7 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ8"
tr 52 M=XQ8 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ9"
tr 52 M=XQ9 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ10"
tr 52 M=XQ10 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ11"
tr 52 M=XQ11 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ12"
tr 52 M=XQ12 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ13"
tr 52 M=XQ13 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ14"
tr 52 M=XQ14 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ15"
```

```
tr 52 M=XQ15 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ16"
tr 52 M=XQ16 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ17"
tr 52 M=XQ17 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ18"
tr 52 M=XQ18 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ19"
tr 52 M=XQ19 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ20"
tr 52 M=XQ20 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ21"
tr 52 M=XQ21 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ22"
tr 52 M=XQ22 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ23"
tr 52 M=XQ23 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ24"
tr 52 M=XQ24 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ25"
tr 52 M=XQ25 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ26"
tr 52 M=XQ26 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ27"
tr 52 M=XQ27 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ28"
tr 52 M=XQ28 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=XQ29"
tr 52 M=XQ29 IS=min IE=max ITER=1
echo " Done"
if $?raptor '\
echo "tr 52 M=XQ30";              \
tr 52 M=XQ30 IS=min IE=max ITER=1; \
echo " Done";                       \
```

```
echo "tr 52 M=XQ31";              \
tr 52 M=XQ31 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ32";              \
tr 52 M=XQ32 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ33";              \
tr 52 M=XQ33 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ34";              \
tr 52 M=XQ34 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ35";              \
tr 52 M=XQ35 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ36";              \
tr 52 M=XQ36 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ37";              \
tr 52 M=XQ37 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ38";              \
tr 52 M=XQ38 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ39";              \
tr 52 M=XQ39 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ40";              \
tr 52 M=XQ40 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ41";              \
tr 52 M=XQ41 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ42";              \
tr 52 M=XQ42 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ43";              \
tr 52 M=XQ43 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ44";              \
tr 52 M=XQ44 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ45";              \
tr 52 M=XQ45 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ46";              \
tr 52 M=XQ46 IS=min IE=max ITER=1; \
echo " Done";                     \
```

```
echo "tr 52 M=XQ47";              \
tr 52 M=XQ47 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ48";              \
tr 52 M=XQ48 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ49";              \
tr 52 M=XQ49 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ50";              \
tr 52 M=XQ50 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ52";              \
tr 52 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ52";              \
tr 52 M=XQ52 IS=min IE=max ITER=1; \
echo " Done";                     \
echo "tr 52 M=XQ53";              \
tr 52 M=XQ53 IS=min IE=max ITER=1; \
echo " Done";                     \
'
echo "tr 52 M=MODPORT_MAP"
tr 52 M=MODPORT_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_EM"
tr 52 M=MODPORT_MAP_EM IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_IM"
tr 52 M=MODPORT_MAP_IM IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MODPORT_MAP_SW"
tr 52 M=MODPORT_MAP_SW IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=MAC_LIMIT_COUNT_TABLE"
tr 52 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=PORT"
tr 52 M=PORT IS=min IE=max ITER=1
```

```
echo " Done"
echo "tr 52 M=SOURCE_TRUNK_MAP"
tr 52 M=SOURCE_TRUNK_MAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=SRC_MODID_BLOCK"
tr 52 M=SRC_MODID_BLOCK IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_STG"
tr 52 M=VLAN_STG IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=TRUNK_BITMAP"
tr 52 M=TRUNK_BITMAP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=TRUNK_GROUP"
tr 52 M=TRUNK_GROUP IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_MAC"
tr 52 M=VLAN_MAC IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_PROTOCOL"
tr 52 M=VLAN_PROTOCOL IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_PROTOCOL_DATA"
tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET"
tr 52 M=VLAN_SUBNET IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET_DATA_ONLY"
tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN_SUBNET_ONLY"
tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max ITER=1
echo " Done"
echo "tr 52 M=VLAN"
tr 52 M=VLAN IS=min IE=max ITER=1
echo " Done"

if $?raven '\
echo "tr 52 M=EGR_PRI_CNG_MAP"; \
tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=EGR_VLAN_XLATE"; \
tr 52 M=EGR_VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=EGR_VLAN_XLATE_DATA_ONLY"; \
tr 52 M=EGR_VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 52 M=EGR_VLAN_XLATE_ONLY"; \
tr 52 M=EGR_VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=IFP_PORT_FIELD_SEL"; \
tr 52 M=IFP_PORT_FIELD_SEL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=ING_PRI_CNG_MAP"; \
tr 52 M=ING_PRI_CNG_MAP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP"; \
tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=INITIAL_L3_ECMP"; \
tr 52 M=INITIAL_L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP"; \
tr 52 M=L3_DEFIP IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 52 M=L3_DEFIP_DATA_ONLY"; \
tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP_HIT_ONLY"; \
tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_DEFIP_ONLY"; \
tr 52 M=L3_DEFIP_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ECMP"; \
tr 52 M=L3_ECMP IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_HIT_ONLY"; \
tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST"; \
tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV4_UNICAST"; \
tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST"; \
tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_ENTRY_IPV6_UNICAST"; \
tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max ITER=1; \
echo " Done"; \
```

```
echo "tr 52 M=L3_ENTRY_ONLY"; \
tr 52 M=L3_ENTRY_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
'
if $?BCM56224_A0 || $?BCM56226_A0 || $?BCM56228_A0 || $?BCM56024_A0 || \
$?BCM56224_B0 || $?BCM56226_B0 || $?BCM56228_B0 || $?BCM56024_B0'\
echo "tr 52 M=L3_ENTRY_VALID_ONLY"; \
tr 52 M=L3_ENTRY_VALID_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=L3_IPMC"; \
tr 52 M=L3_IPMC IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL0"; \
tr 52 M=MMU_IPMC_GROUP_TBL0 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL1"; \
tr 52 M=MMU_IPMC_GROUP_TBL1 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_GROUP_TBL2"; \
tr 52 M=MMU_IPMC_GROUP_TBL2 IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_IPMC_VLAN_TBL"; \
tr 52 M=MMU_IPMC_VLAN_TBL IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_MAX_BUCKET_GPORT"; \
tr 52 M=MMU_MAX_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=MMU_MIN_BUCKET_GPORT"; \
tr 52 M=MMU_MIN_BUCKET_GPORT IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_PROFILE_TAB"; \
tr 52 M=VLAN_PROFILE_TAB IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE"; \
tr 52 M=VLAN_XLATE IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE_DATA_ONLY"; \
tr 52 M=VLAN_XLATE_DATA_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
echo "tr 52 M=VLAN_XLATE_ONLY"; \
tr 52 M=VLAN_XLATE_ONLY IS=min IE=max ITER=1; \
echo " Done"; \
'
echo "tr 50/51/52/71 M=FP_SLICE_ENTRY_PORT_SEL"
if !$?BCM537XX ' \
  echo "tr 50"; tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max          ; \
  echo "tr 51"; tr 51 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max ITER=1   ; \
  echo "tr 52"; tr 52 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max ITER=1   ; \
```

```
   echo "tr 71"; tr 71 M=FP_SLICE_ENTRY_PORT_SEL S=-1 C=-1 VC=1 TSE=True; \
   local ix_incr 432                                        ; \
'
if $?BCM537XX ' \
   tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=0 IE=max II=8 ; \
   tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=1 IE=max II=8 ; \
   tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=2 IE=max II=8 ; \
   tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=3 IE=max II=8 ; \
   local ix_incr 8                              ; \
'

if $?raptor 'local max_idx 431'
if $?raven 'local max_idx 479'

for ix_min=0,431,$ix_incr '                                    \
   expr $ix_min + 3;local ix_max $?                              ; \
   tr 51 M=FP_SLICE_ENTRY_PORT_SEL IS=$ix_min IE=$ix_max ITER=1    ; \
   tr 52 M=FP_SLICE_ENTRY_PORT_SEL IS=$ix_min IE=$ix_max ITER=1    ; \
'
echo " Done"

echo "Skip BSAFE Self test"
#echo "Running BSAFE Self test"
#tr 65
#$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
```

```
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

if $?raven '\
echo "Running IPV4 overflow insert test ..."; \
tr 87 IPMCEnable=False; \
tr 87 IPMCEnable=True; \
$done; \
echo "Running IPV4 hash test ..."; \
tr 88 IPMCEnable=False; \
tr 88 IPMCEnable=True; \
$done; \
echo "Running IPV6 overflow insert test ..."; \
tr 85 IPMCEnable=False; \
tr 85 IPMCEnable=True; \
$done; \
echo "Running IPV6 hash test ..."; \
tr 86 IPMCEnable=False; \
tr 86 IPMCEnable=True; \
$done; \
'

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed
rcload rc.soc

echo "Running MAC loopback V2 on ports ...";
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=$lbpbm;
$done;
echo "Running PHY loopback V2 on ports ...";
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=single pbm=$lbpbm;
$done;

date
tl
local returnCode $?
```

```
echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ebsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: error.h,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/error.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ser.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:      ser.c
* Purpose:   SER enable/detect and test functionality.
* Requires:  sal/soc/shared layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2/ser.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/ser.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmdbllinklist.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmdbllinklist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_link.h,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_link.h
No license file was found, but licenses were detected in source scan.

```
/*
* BCM43XX Sonics SiliconBackplane PCMCIA core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbpcmcia.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbpcmcia.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: adp4000.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* I2C Device Driver for ADP4000 an integrated power control IC.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/adp4000.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_framework.h,v 1.167 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_portmod_dispatch.c.c,v 1.23 2012/08/23 16:30:48 xp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     null.c
* Purpose:    Defines NULL PHY driver routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_portmod_dispatch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x_xmod_arg_len.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x_xmod_arg_len.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250IntLib.c,v 1.3 2011/07/21 16:14:48 yshtil Exp $
*****************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
******************************************************************************
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250IntLib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_action_cmd.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_action_cmd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy56xxx.c,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     phy56xxx.c
* Purpose:
*     Fiber driver for 56xxx using internal Serdes PHY.
*
* For BCM56504, the internal GMACC core of the GPORT should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     phy_56xxx_notify_duplex
*     phy_56xxx_notify_speed
*     phy_56xxx_notify_stop
*     phy_56xxx_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy56xxx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: manager.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board_int/manager.h
* Purpose:    Board manager internal interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board_int/manager.h
No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA engine SW interface
*
* $Id: hnddma.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-robo-knet/hnddma.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56160_a0.c
* Purpose:    bcm56160_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56160_a0.c

No license file was found, but licenses were detected in source scan.

```
#
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Run packet TX, packet RX tests and CPU benchmark.
echo "testsuite: started: performance"

# Packet RX test is not supported on fabric devices.
if $?bradley || $?humv || $?herc "local skipRX false"

echo "Running: Test(CPU_Benchmark)"
tr 21
echo "Complete: Test(CPU_Benchmark)"

echo "Running: Test(Packet_TX_PPC4)"
tr 40 FP=false op=1000 LS=64 LE=1518 C=10000 PktsPerChain=4
echo "Complete: Test(Packet_TX_PPC4)"

echo "Running: Test(Packet_TX_PPC16)"
tr 40 FP=false op=1000 LS=64 LE=1518 C=10000 PktsPerChain=16
echo "Complete: Test(Packet_TX_PPC16)"

# Magnum requires override. testmode +override indicates that this tr
# has not been tested on this chip. However I've validated this test
# before committing this change.
if $?magnum "testmode +override"
if $?tucana "testmode +override"

if !$?skipRX "echo 'Running: Test(Packet_RX_PPC4)'"
if !$?skipRX "tr 41 T=2 LS=64 LE=1518 LI=64 PERC=0 R=0 B=100 PPC=4 C=4"
if !$?skipRX "echo 'Complete: Test(Packet_RX_PPC4)'"

if !$?skipRX "echo 'Running: Test(Packet_RX_PPC16)'"
if !$?skipRX "tr 41 T=2 LS=64 LE=1518 LI=64 PERC=0 R=0 B=100 PPC=16 C=4"
if !$?skipRX "echo 'Complete: Test(Packet_RX_PPC16)'"

tl
local returnCode $?

echo "testsuite: finished: performance: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/perf.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwQlopEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQlopEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwQlopEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   general include files
File Name:
   ag_results.h

File Description:
   contains system wide return codes of AG functions.

$Revision: 1.1.2.1 $  - Visual SourceSafe automatic revision number

History:
   Date          Name          Comment
   ----          ----          -------
   3/7/00        Gadi Admoni    initial version
   22/1/00       Gadi Admoni    Added AG_ to all.
   13/08/02      Raanan Refua   Addition of Capitator Driver base code,
                                Header Insertion Program base code
   17/9/02       Raanan Refua   Added AG_E_BAD_ALIGNMENT to error codes
 28/7/2004  Edi Shmukler   Added AG_RESULT()
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_results.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_resource.h,v 1.23 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OAM Resources module (traps, profiles, IDs, ...)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/oam_resource.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* tffsBootImagePut - write to the boot-image region of the flash device
*
* This routine writes an input stream to the boot-image region (if any) of
* a flash memory device.  Typically, the input stream contains a boot image,
* such as the VxWorks boot image, but you are free to use this function to
* write any data needed. The size of the boot-image region is set by
* the tffsDevFormat() call (or the sysTffsFormat() call, a BSP-specific helper
* function that calls tffsDevFormat() internally) that formats the flash
* device for use with TrueFFS.
*
* If tffsBootImagePut() is used to put a VxWorks boot image in flash, you
* should not use the s-record version of the boot image typically produced
* by make.  Instead, you should take the pre s-record version (usually
* called 'bootrom' instead of 'bootrom.hex'), and filter out its loader
* header information using an <xxx>'ToBin' utility.  For example:
* .CS
* elfToBin < bootrom > bootrom.bin
* .CE
*
* Use the resulting 'bootrom.bin' as input to tffsBootImagePut().
*
* The discussion above assumes that you want only to use the flash device to
* store a VxWorks image that is retrieved from the flash device and then run
* out of RAM. However, because it is possible to map many flash devices
* directly into the target's memory, it is also possible run the VxWorks
* image from flash memory, although there are some restrictions:
* .IP "-"
* The flash device must be non-NAND.
* .IP "-"
* Only the text segment of the VxWorks image ('vxWorks.res_rom') may run out
* of flash memory. The data segment of the image must reside in standard RAM.
* .IP "-"
* No part of the flash device may be erased while the VxWorks image is running
* from flash memory.
* .LP
```

```
* Because TrueFFS garbage collection triggers an erase, this last restriction
* means that you cannot run a VxWorks boot image out of a flash device that
* must also support a writable file system (although a read-only file system
* is OK).
*
* This last restriction arises from the way in which flash devices are
* constructed. The current physical construction of flash memory devices does
* not allow access to the device while an erase is in
* progress anywhere on the flash device. As a result, if TrueFFS tries to
* erase a portion of the flash device, the entire device becomes inaccessible
* to all other users.  If that other user happens to be the VxWorks image
* looking for its next instruction, the VxWorks image crashes.
*
*RETURNS: OK or ERROR
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/tffsConfig.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/tffsConfig.c
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_user_common.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_user_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_port.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_port.h
*
* MODULE PREFIX:  soc_ppd_port
*
* FILE DESCRIPTION:
*
* REMARKS:
```

* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     TH2 SOC Port driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/port.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-12x10g.bcm,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 8x10G + 16x1G QSGMII config
#
ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=24
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3
ucode_port.port5.0=clport0.xe.1.0:clport1.hg126.0.4
ucode_port.port6.0=clport0.xe.1.1:clport1.hg126.0.5
ucode_port.port7.0=clport0.xe.1.2:clport1.hg126.0.6
```

```
ucode_port.port8.0=clport0.xe.1.3:clport1.hg126.0.7
ucode_port.port9.0=xtport1.ge.0.8:clport1.hg126.0.8
ucode_port.port10.0=xtport1.ge.0.9:clport1.hg126.0.9
ucode_port.port11.0=xtport1.ge.0.10:clport1.hg126.0.10
ucode_port.port12.0=xtport1.ge.0.11:clport1.hg126.0.11
ucode_port.port13.0=xtport2.ge.0.0:clport1.hg126.0.12
ucode_port.port14.0=xtport2.ge.0.1:clport1.hg126.0.13
ucode_port.port15.0=xtport2.ge.0.2:clport1.hg126.0.14
ucode_port.port16.0=xtport2.ge.0.3:clport1.hg126.0.15
ucode_port.port17.0=xtport2.ge.0.4:clport1.hg126.0.16
ucode_port.port18.0=xtport2.ge.0.5:clport1.hg126.0.17
ucode_port.port19.0=xtport2.ge.0.6:clport1.hg126.0.18
ucode_port.port20.0=xtport2.ge.0.7:clport1.hg126.0.19
ucode_port.port21.0=xtport2.ge.0.8:clport1.hg126.0.20
ucode_port.port22.0=xtport2.ge.0.9:clport1.hg126.0.21
ucode_port.port23.0=xtport2.ge.0.10:clport1.hg126.0.22
ucode_port.port24.0=xtport2.ge.0.11:clport1.hg126.0.23

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_ge0=0x1032
xgxs_rx_lane_map_ge8=0x1032

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_ge0=0x3210
xgxs_tx_lane_map_ge8=0x3210


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_ge=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
```

```
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001


phy_port_primary_and_offset_ge0=0x2000
phy_port_primary_and_offset_ge1=0x2001
phy_port_primary_and_offset_ge2=0x2002
phy_port_primary_and_offset_ge3=0x2003
phy_port_primary_and_offset_ge4=0x2004
phy_port_primary_and_offset_ge5=0x2005
phy_port_primary_and_offset_ge6=0x2006
phy_port_primary_and_offset_ge7=0x2007
phy_port_primary_and_offset_ge8=0x2800
phy_port_primary_and_offset_ge9=0x2801
phy_port_primary_and_offset_ge10=0x2802
phy_port_primary_and_offset_ge11=0x2803
phy_port_primary_and_offset_ge12=0x2804
phy_port_primary_and_offset_ge13=0x2805
phy_port_primary_and_offset_ge14=0x2806
phy_port_primary_and_offset_ge15=0x2807
phy_fiber_pref_ge=1
phy_automedium_ge=1


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
```

ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494

```
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-

8x10g_16x1g-hg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* APACHE MMU/Cosq soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:

File Name:
   ag_common.h

File Description:

$Revision: 1.1.2.1 $  - Visual SourceSafe automatic revision number

History:
   Date          Name          Comment
   ----          ----          -------
   30/07/00       Gadi Admoni     Created

*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane3/port.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision     :  $Id: srds_api_uc_common.h 1364 2016-02-25 19:50:10Z jgaither $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vsc256_fabric_cell.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC VSC256 FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/vsc256_fabric_cell.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnxc/legacy/vsc256_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: merlin_dino_debug_functions.h 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_flow_converts.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_flow_converts.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: headers.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC utility routines for managing DNX headers
*  ITMH: Ingress Traffic Management Header
*  FTMH: Fabric Traffic Management Header
```

```
*  OTMH: Outgoing Traffic Management Header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/headers.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software and
* all intellectual property rights therein.  IF YOU HAVE NO AUTHORIZED
* LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY WAY,
* AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE
* OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof, and
* to use this information only in connection with your use of Broadcom
* integrated circuit products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL,
* INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY
```

* RELATING TO YOUR USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF
* BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; OR (ii)
* ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE
* ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL
* APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED
* REMEDY.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/bfd.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: acl_util.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: acl_util.h
*
* Purpose:
* Access Control List (ACL) utility functions. These
* are intended primarily to provide additional support for the CLI code.
* and API prototypes.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/acl/acl_util.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53128_a0.c
* Purpose: bcm53128_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53128_a0.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgNotTmePortRemapAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgNotTmePortRemapAddr.hx
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamSeqGenRawFormatConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamTimerConfigConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfilePolicerMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfilePolicerMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamTimerRawFormat.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamTimerConfig.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbol_dump.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileTimerMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmGroupConfigConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileSeqGenMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileTimerMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileSeqGenMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamTimerRawFormatConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmPolicerConfig.hx

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbol.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmGroupConfig.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmPolicerRawFormatConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileSeqGenMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbols_index.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbol_fields.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmPolicerConfigConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfilePolicerMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileSeqGenMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfilePolicerMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileTimerMemory.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbols_get.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbol_show_fields.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfC2PmProfileMemoryConsole.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmPolicerRawFormat.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmOamSeqGenRawFormat.hx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbZfFe2000PmProfileTimerMemoryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm53324_a0.c
```

```
* Purpose:     bcm53324_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm53324_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        rx.h
* Purpose:     rx activation header file.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_h.stg,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_cop.h
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
# * $Id: an_10g_ncl72_fec.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
```

```
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *---------------------------------------------------------------------
# * File       : an_10g_ncl72_fec.soc
# * Description: an_10g_ncl72_fec
# *---------------------------------------------------------------------*/

#For 10G, CL72 is enabled by defaut, and FEC is off by default.
#This soc script is to disable cl72 and enable FEC.

link off

#Clear the Speed Change bit
phy xe4,xe8 0xc050 0x001c

#Clear the AN enables
phy xe4,xe8 0xc180
phy xe4,xe8 0xc180 0x0000

#Setup for CL73
#cl73_nonce_match_over is set with a value zero, to disable nonce match
Phy xe4,xe8 0xc185 0xa01

#Advertise 10G and FeC
phy xe4,xe8 0xc186 0x308

#Advertise 10G and no FEC
#phy xe4,xe8 0xc186 0x008

#Write to the DataRAM, with value for AN Port
#0x400: lane0, 0x500: lane1, 0x600: lane2 , 0x700: lane3
#0x800d201: has the Dataram Address to Write
#0x800d203: has the data to write
#0x800d204: has the read data
#The value 0x380 is byte swapped, so the data is to be analyzed as 0x8003
phy xe4,xe8 0x800d201 0x400
phy xe4,xe8 0x800d203 0x0380

#Read the value to check
phy xe4,xe8 0x800d201 0x400
phy xe4,xe8 0x800d204

#Setup main0 register with refclk as 156p25MHz
phy xe4,xe8 0x9000 0x6000

#To disable cl72
#Write to enable the cl72 override(0xc061), with a value(0xc253) of zero to disable cl72
```

```
phy xe4,xe8 0xc061 0x2000
phy xe4,xe8 0xc253 0x0000

#Enable cl72, you can skip the next 2 lines. that no override is required,
#cl72 is enabled by default for 10G AN
#phy xe4,xe8 0xc061 0x2000
#phy xe4,xe8 0xc253 0x0000


#The value 0x380 is byte swapped, so the data is to be analyzed as 0x8003
phy xe4,xe8 0x800d201 0x400
phy xe4,xe8 0x800d203 0x0380

#Read the value to check
phy xe4,xe8 0x800d201 0x400
phy xe4,xe8 0x800d204

#Setup main0 register with refclk as 156p25MHz
phy xe4,xe8 0x9000 0x6000

#Write to enable the cl72 override(0xc061), with a value(0xc253) of zero to disable cl72
phy xe4,xe8 0xc061 0x2000
phy xe4,xe8 0xc253 0x0000

#Enable CL73
phy xe4,xe8 0xc180 0x0101

ps
#read the cl72 status
phy xe4,xe8 0xc072
phy xe4,xe8 0x8000096
phy xe4,xe8 0x8000097

#FEC Error injection
#phy xe4,xe8  0x9045  0x2

#inject error on lane 0/ports xe4,xe8
#phy xe4,xe8  0x9032  0x24
#phy xe4,xe8  0x9032  0x4
#phy xe4,xe8  0x9032  0x24
#phy xe4,xe8  0x9032  0x4
#phy xe4  0x9032  0x24
#phy xe4  0x9032  0x4

#Read the clear on read,Error Counter
#phy xe4,xe8  0xc157
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/an_10g_ncl72_fec.soc
No license file was found, but licenses were detected in source scan.

```
/*

* $Id: init.c,v 1.94 Broadcom SDK $

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*   This module calls the initialization routine of each BCM module.
*
* Initial System Configuration
*
*   Each module should initialize itself without reference to other BCM
*   library modules to avoid a chicken-and-the-egg problem.  To do
*   this, each module should initialize its respective internal state
*   and hardware tables to match the Initial System Configuration.  The
*   Initial System Configuration is:
*
*   STG 1 containing VLAN 1
*   STG 1 all ports in the DISABLED state
*   VLAN 1 with
*     PBMP = all switching Ethernet ports (non-fabric) and the CPU.
*     UBMP = all switching Ethernet ports (non-fabric).
*   No trunks configured
*   No mirroring configured
*   All L2 and L3 tables empty
*   Ingress VLAN filtering disabled
*   BPDU reception enabled
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/init.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_array_memory_allocator.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_array_memory_allocator.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_array_memory_allocator.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  alloc.c
* Purpose: Defines sal routines for memory allocation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/alloc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfHwQe2000QsPriLutAddr.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfHwQe2000QsPriLutAddr.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfHwQe2000QsPriLutAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_cint_data.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hand-coded support for soc_dfe routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dfe_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mim.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mim.c
* Purpose: Manages MiM functions for triumph3
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/mim.c
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: 1g_6p25_4ports_withsdkinit.soc  $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : 1g_6p25_4ports_withsdkinit.soc for 85650
# * Description: 1g_6p25_4ports_withsdkinit cfg
# *            Expect the SDKInit has loaded the ucode
# *            Configures the TSCE core as 4 independent ports for 1G/VCO=6.25
# *-----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
link off
local port $1
sleep 1;

#configure Core
# Disable all ports
phy raw sbus $port 0.6 0xc050 0x0000

# pll_mode = 2, reg_adr=0x908d127 reg_data=0x2. For 6.25VCO
phy raw sbus $port 1.0 0xd127 0x0002
phy raw sbus $port 1.0 0xd127

phy raw sbus $port 1.0 0xd201 0x50
phy raw sbus $port 1.0 0xd203 0x0600
```

```
#Write the Lane Config
phy raw sbus $port 1.0 0xd201 0x400
phy raw sbus $port 1.0 0xd203 0x0000
phy raw sbus $port 1.0 0xd201 0x500
phy raw sbus $port 1.0 0xd203 0x0000
phy raw sbus $port 1.0 0xd201 0x600
phy raw sbus $port 1.0 0xd203 0x0000
phy raw sbus $port 1.0 0xd201 0x700
phy raw sbus $port 1.0 0xd203 0x0000

# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.$lane 0x9000 0x6400
phy raw sbus $port 0.$lane 0x9000

#Configure Lane 0
local lane 0

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# 0sr_mode_frc = 1, reg_adr=0xd080.$lane reg_data=0x8000
phy raw sbus $port 1.$lane 0xd080 0x8005
phy raw sbus $port 1.$lane 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113
```

```
# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
phy raw sbus $port 0.$lane 0xc050 0x0003
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus $port 1.$lane 0xd0d2 0x7
#phy raw sbus $port 1.$lane 0xd0d2

#Configure Lane 1
local lane 1

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# 0sr_mode_frc = 1, reg_adr=0xd080 reg_data=0x8005
phy raw sbus $port 1.$lane 0xd080 0x8005
phy raw sbus $port 1.$lane 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113
```

```
# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
phy raw sbus $port 0.$lane 0xc050 0x0003
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus $port 1.$lane 0xd0d2 0x7
#phy raw sbus $port 1.$lane 0xd0d2

#Configure Lane 2
local lane 2

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# 0sr_mode_frc = 1, reg_adr=0xd080 reg_data=0x8005
phy raw sbus $port 1.$lane 0xd080 0x8005
phy raw sbus $port 1.$lane 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
phy raw sbus $port 0.$lane 0xc050 0x0003
```

```
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus $port 1.$lane 0xd0d2 0x7
#phy raw sbus $port 1.$lane 0xd0d2

#Configure Lane 3
local lane 3

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010

# 0sr_mode_frc = 1, reg_adr=0xd080 reg_data=0x8005
phy raw sbus $port 1.$lane 0xd080 0x8005
phy raw sbus $port 1.$lane 0xd080

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
phy raw sbus $port 0.$lane 0xc050 0x0003
phy raw sbus $port 0.$lane 0xc050
```

```
phy raw sbus $port 0.$lane 0xc050 0x0103
phy raw sbus $port 0.$lane 0xc050

# PMD LOOPBACK
#phy raw sbus $port 1.$lane 0xd0d2 0x7
#phy raw sbus $port 1.$lane 0xd0d2

sleep 2;
phy raw sbus $port 0.0 0xc154 # pcs live link status
phy raw sbus $port 0.1 0xc154 # pcs live link status
phy raw sbus $port 0.2 0xc154 # pcs live link status
phy raw sbus $port 0.3 0xc154 # pcs live link status

link on
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/1g_6p25_4ports_withsdkinit.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ip_route_explicit_rif.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_route_explicit_rif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: b57um.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

/* All rights reserved. */

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/b57um.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmEgressRankerEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEgressRankerEntry.c
No license file was found, but licenses were detected in source scan.

Broadcom Proprietary and Confidential. All rights reserved.$

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/switch/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/keystone-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/lotus/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/nsx64/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/raptor/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ptp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.subdirs
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kernel-4_4
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-smp_generic_64-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/stk/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/bcmsim/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-gto
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-smp_generic-4_9/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/ptp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/asm3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/kernel/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dfe/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-rh72/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-raptor-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/keystone-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/saber2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/bin2hex.pl
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/make/Makefile.linux-iproc-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-rsx-3_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/util/howto-pmd2sdk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-smp_generic_64-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vlan/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-iproc-3_14
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mmu/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/l3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/res_mngr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/user/kernel/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/gtr-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vlan/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_mt_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/make/Makefile.vxworks-keystone
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lks.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kmodule
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag-full/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-rh72
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/phymod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/vswitch/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/iproc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/drv/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/bcm2c.pl
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/ifp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/manager/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/raptor/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bradley/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/iproc-3_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ces/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mirror/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/user/xlr-3_14/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/nsx_wrl-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan2plus/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/doc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.bcmsim-linux
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flexctr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmxpt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-nsx_wrl-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-iproc-3_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/lmsc.pl
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mpls/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/rules.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/bmw-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/editline/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/titan/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/xlr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/unix/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/keystone_le-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/tcb/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kernel-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-xlr
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/regex/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-iproc_be-3_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/loadbalance/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.kernlib
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/gtr-3_7/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/subdir.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/c3unit.sim
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-smp_generic-2_6

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/gto/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/dbx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/tx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/gto-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/lif_mngr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vulcan/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-bmw-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-knet/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ces/nemo_driver/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flowcnt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/stack/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/shadow/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/interrupts/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/gto/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/bde/linux/user/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/subdir.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-jag
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/hwstate/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-gto-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-common-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/qos/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ces/sal/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-metrocore-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstar/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/knet-cb/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/swstate/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/eth/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-raptor
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-mdk92
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/mdb/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/simxpt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/subdir.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-net/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-metrocore
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/conqueror/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/stg/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-keystone_le-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/bcm2c_linux.pl
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PORT/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cpudb/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/xpt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/lif/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/greyhound/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shrextend/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-robo-knet/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2p/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/scorpion/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/niv/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-generic_64-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-generic_64-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/alpm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/lib.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/diagnostic/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgtmftm_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/nsx-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QUX/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/linux/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/wrx-3_7/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/keystone_le-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/etu/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/bmw-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/crps/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-nsx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-keystone-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/raptor/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-rh72/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-common
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/maketools.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/portmod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/kernel/modules/bcm-core/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnxf/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-iproc
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/pemladrv/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kernel
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/doc/mkdoc
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/compat/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/linux/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/metrolite/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/rx_los/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.ase
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/humv/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmrangemgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/sweep/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/l2switch/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-linux
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lu.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/init/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-smp_generic-4_9/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/polar/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/blackholexpt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-polaris.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/voyager/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/version.pl
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/metrolite/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/nsx_wrl-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-gto
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/raptor-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/raptor-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/thunderbolt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/jer2_a0/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-mdk92/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-wrx-3_7
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-jag-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-generic_64-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/auto_launch_kernel.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/interrupts/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/tx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/gtr-3_7/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/FecPerformance/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/port/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/JER/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bme3200/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/mpls/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/init/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/portmod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dcmn/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3mc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/jag-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/simxpt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/cos/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/xlr-3_14/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-xlr-3_14
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-generic-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-common
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/diag/esw/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dnx_data/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/oam/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-gtr-3_7
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-raptorle
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino16/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-smp_generic_64-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-metrocore_xes-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs4/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/template_mngr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/auto_launch_user.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-nsx
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kernel-4_9
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/JERP_PP/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-pcp-dma/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/iproc-3_14/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-slk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/kernel/x86-smp_generic-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/nsx64/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-smp_generic-4_9
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/portability/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_mt_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/depend.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/libonly/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/nsx-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/basic/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/hurricane3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/wrx-3_7/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-iproc
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/user/rsx-3_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vfp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-bmw
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.lib
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/common/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-nsx64
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/vxworks/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/make/config.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-kernel-3_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmgenerictblmgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/pstat/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.bcmsim-solaris
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/aps/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/riot/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ces/clsbuilder/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/portmod/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/esw/trident2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-smp_generic-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/triumph3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/cmodel/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-bmw
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vxlan/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/DRC/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/libxml/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/xlr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/uk-proxy/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/jag-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-jag
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-jagle
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-netbsd
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/gto-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/l2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_refapp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/flexport/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/user/iproc-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-generic-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3uc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/x86-generic-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-nsx-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-solaris
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/rx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/shared/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/metrocore-2_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/katana2/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/dbal/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/vxworks/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/imacsec/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/algo/mirror/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sbxsim/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/slk/Makefile

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/customer/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/example/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-common
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/access/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/dgm/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/FecAllocation/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/acl/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/Makefile.LE
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-gtr-2_6
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.vxworks-raptor
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/lk.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/auto_sbx.sh
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/discover/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/sal/core/unix/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/Makefile.LE
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.unix-linux-64
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/iproc_be-3_6/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/src/subdir.mk
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/user/x86-mdk92/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Makefile.linux-x86-common-4_9
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/mdb/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/apache/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/Makefile
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_metering.c,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_metering.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cmac.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CMAC driver
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_pwe_gal_lif_update.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: Bsc.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/Bsc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_cos_remark_llid_dml.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_cos_remark_llid_dml.c
*
* Purpose: set mapping bwtween packet cos to sysstem tc for 1G traffic to resolve PFC_1 issue.
*        The mapping is used to make sure 1G traffic will go to HR-1 and EGQ-1, and 10G traffic will go to HR-0 and EGQ-0.
*
* Map PKT_PRI to System TC by using PMF as follows:
*    Ingress(PKT_PRI/CFI)    System TC
*    0                       4
*    1                       5
*    2                       6
*    3                       7
*    4                       4
*    5                       5
*    6                       6
*    7                       7
*
```

```
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/pon/cint_pon_cos_remark_llid_dml.c
*     BCM> cint
*     cint> pon_dn_cos_remark(unit, 5);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_cos_remark_llid_dml.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCRTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibCRTConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct0AEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct0AEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ps_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PORT/arad_ps_db.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/legacy/ps_db.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PORT/arad_ps_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: AlarmProcessTk.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     AlarmProcessTk.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/AlarmProcessTk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_iproc.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_iproc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_init.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 HW Init Header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_init.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_stateful_load_balancing.c,v 1.3 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stateful_load_balancing.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgSrcIdConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgSrcIdConsole.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_FAP20V.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_FAP20V.h
No license file was found, but licenses were detected in source scan.

/**
****
* File Name : falcon_furia_pll_config.c *
* Created On : 23/12/2013 *
* Created By : Kiran Divakar *
* Description : Falcon Furia PLL Configuration API *
* Revision : $Id: falcon_furia_pll_config.c 857 2015-01-16 22:22:38Z kirand $ *
* *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ *
* No portions of this material may be reproduced in any form without *
* the written permission of: *
* Broadcom Corporation *
* 5300 California Avenue *
* Irvine, CA 92617 *
* *
* All information contained in this document is Broadcom Corporation *

```
*  company private proprietary, and trade secret.                          *
*                                                                          *
****************************************************************************
****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_pll_config.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flash29GL1GDrvLib.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/flash29GL1GDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_c.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_c.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeRateEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsShapeRateEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54880.c,v 1.101 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54880.c
* Purpose:     PHY driver for BCM54880
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54880.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_init.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh_msg.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bhh_msg.h
* Purpose: BHH Messages definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bhh_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       qos.c
* Purpose:     Trident2 QoS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE INTERRUPT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_interrupt.h
No license file was found, but licenses were detected in source scan.

```
/*
b * $Id: rx.c,v 1.131 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tx.c
* Purpose: Implementation of bcm_rx* API for dune devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmdevmgr.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmdevmgr/nlmdevmgr.c

No license file was found, but licenses were detected in source scan.

```
# $Id: esanitypcid.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

set rctest=f
set rcerror=f

log file=esanitylog.txt append=yes on

date
ver
soc

linkscan off
init
init misc
init mmu

tc *

echo "Register reset defaults "
tr 1
echo "Done"

echo "Register read/write"
tr 3
echo "Done"

# The following tests are shortened for PLI mode.

echo "Memory Random Addr/Data"
tr51er.soc
echo "Done"

echo "Table DMA"
tdmaer.soc
echo "Done"

rc.soc

counter i=1000000 dma=f pbm=all
sleep 10
counter i=0
```

```
echo "XGS L2 Ins/Lookup/Del"
if $?plisim "tr 32 count=4"

echo "Done"

echo "XGS L2 Overflow Ins"
if $?plisim "tr 33 count=4"
echo "Done"

echo "XGS L2 Hashing"
if $?plisim "tr 34 count=256"
echo "Done"

echo "XGS L3 IPV6 Ins/Lookup/Del"
if $?plisim "tr 85 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=t; \
        tr 85 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
        "
echo "Done"

echo "XGS L3 IPV6 Overflow Ins"
if $?plisim "tr 86 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
        tr 86 C=4 V=t R=f BIP=1122:3344:5566:7788:9900:aabb:ccdd:eeff \
        SIP=9988:aabb:ccdd:eeff:1122:3344:5566:7788 IPMCE=f; \
       "

echo "Done"
echo "XGS L3 IPV4 Ins/Lookup/Del"
if $?plisim "tr 87 count=4"
echo "Done"

echo "XGS L3 IPV4 Overflow Ins"
if $?plisim "tr 88 count=4"
echo "Done"

echo "Counter widths"
tr 30
echo "Done"

echo "Counter read/write"
tr 31
echo "Done"

echo "CPU Benchmarks"
tr 21
```

```
echo "Done"

echo "Linkscan MDIO"
#5 for PCID/QT. Make it 10000 for chip
if $?plisim "tr 60 R=5"
echo "Done"

testmode +override
set rctest=t
echo "MAC loopback on Ethernet ports"
tr 18 pbm=e PPC=2 C=2 dmi=1
echo "Done"

echo "MAC loopback on HG ports"
tr 18 pbm=hg PPC=2 C=2 dmi=1
echo "Done"

echo 'CPU S/G, Reload'
tr 22 LE=512 LI=192 DI=3 C=1
echo 'Done'

echo 'CPU S/G, Simple'
tr 23 LE=512 LI=192 PPCE=2 DPPI=6 C=1
echo 'Done'

echo 'CPU S/G, Random'
tr 24 LE=512 LI=192 PPCI=3 DVI=3 DI=3 C=1
echo 'Done'

echo "MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single

echo "PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

date

#Print the final summary information
tl

log off
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/esanitypcid.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_metering.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_metering.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_metering.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sync.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sync.h
* Purpose:  SAL thread definitions
*
* Note: the SAL mutex abstraction is required to allow the same mutex
* to be taken recursively by the same thread without deadlock.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/sync.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/trunk.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54682.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54682.h
*
* This driver applies to BCM54682.
* It support driving Copper or SERDES interfaces.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54682.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* General utility routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/util.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-12x10g-ilkn100.bcm,v 1.1.24.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#
line_pr_buffer_profile=2
caladan3_etu_enable=0
ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
```

```
bcm88030_ucode.0=g3p1

ucode_num_ports.0=12
ucode_port.port1.0=clport0.xe.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xe.0.1:il1.il100.0.1
ucode_port.port3.0=clport0.xe.0.2:il1.il100.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il100.0.3
ucode_port.port5.0=clport0.xe.1.0:il1.il100.0.4
ucode_port.port6.0=clport0.xe.1.1:il1.il100.0.5
ucode_port.port7.0=clport0.xe.1.2:il1.il100.0.6
ucode_port.port8.0=clport0.xe.1.3:il1.il100.0.7
ucode_port.port9.0=clport0.xe.2.0:il1.il100.0.8
ucode_port.port10.0=clport0.xe.2.1:il1.il100.0.9
ucode_port.port11.0=clport0.xe.2.2:il1.il100.0.10
ucode_port.port12.0=clport0.xe.2.3:il1.il100.0.11

# To enable Rxaui mode, uncomment the following lines:
#serdes_rxaui_mode_xe0=1
#serdes_rxaui_mode_xe1=1
#serdes_rxaui_mode_xe2=1
#serdes_rxaui_mode_xe3=1
#serdes_rxaui_mode_xe4=1
#serdes_rxaui_mode_xe5=1
#serdes_rxaui_mode_xe6=1
#serdes_rxaui_mode_xe7=1
#serdes_rxaui_mode_xe8=1
#serdes_rxaui_mode_xe9=1
#serdes_rxaui_mode_xe10=1
#serdes_rxaui_mode_xe11=1

higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe8=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe8=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
```

```
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001
phy_xaui_rx_polarity_flip_xe5=0x0001
phy_xaui_rx_polarity_flip_xe6=0x0001
phy_xaui_rx_polarity_flip_xe7=0x0001
phy_xaui_rx_polarity_flip_xe8=0x0001
phy_xaui_rx_polarity_flip_xe9=0x0001
phy_xaui_rx_polarity_flip_xe10=0x0000
phy_xaui_rx_polarity_flip_xe11=0x0001


phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_xe4=0x0001
phy_xaui_tx_polarity_flip_xe5=0x0001
phy_xaui_tx_polarity_flip_xe6=0x0001
phy_xaui_tx_polarity_flip_xe7=0x0001
phy_xaui_tx_polarity_flip_xe8=0x0000
phy_xaui_tx_polarity_flip_xe9=0x0000
phy_xaui_tx_polarity_flip_xe10=0x0001
phy_xaui_tx_polarity_flip_xe11=0x0001



#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode
```

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98

ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c

ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-12x10g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pci.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Routines for accessing BCM56xx PCI memory mapped registers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/pci.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_mem.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_mem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: miim.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MII Management (MDIO) bus access routines for reading and writing PHY
* registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/miim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tscf_ucode.c $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier2/tscf_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flexport.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The flexport test checks the flexport and TDM functionalities by streaming
* L2UC packets on all ports at maximum rate. All ports are configured in
* MAC or PHY loopback mode and each port is associated with one VLAN. The test
* calculates the number of packets needed to saturate each port and send the
* L2UC packets with the port's VLAN tag from the CPU to each port initially.
* Then the packets DLF and flood to the VLAN which contains one port. Port
* bridging is enabled to allow the DLF packet to go back to its ingress port.
* Thus, the packets keep looping back within each port indefinitely. The
* flexport functionality is checked by flexing one or more port macros to
* a different mode/speed/encapsulation. The port macros and mode/speed/
* encapsulation can be specify either by command line or through a series of
* config.bcm files. Once the traffic reaches steady state, rate and packet
* integrity are checked on the flex ports. Then, traffic will be stopped on the
* flex ports before calling the BCM FlexPort API to performance the flexport
* operation. Traffic on the non-flex ports will not be interrupted. The rate
* calculation is done by dividing the transmit packet count changes and
* transmit byte count changes over a programmable interval. The rates are
* checked against expected rates based on port configuration and
* oversubscription ratio. Packet integrity check is achieved by disabling the
* VLAN so the packets go back to the CPU as unknown VLAN. The packets are
* compared against expected packets to ensure packet integrity.
*
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*          ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swirl. Setting this to 0 will let the
*           test calculate the number of packets that can be sent to achieve
*           a lossless swirl at full rate. Set to 0 by default.
* RateCalcInt: Interval in seconds over which rate is to be calculated
* TolLr: Rate tolerance percentage for line rate ports (1% by default).
* TolOv: Rate tolerance percentage for oversubscribed ports (3% by default).
* ChkPktInteg: Set to 0 to disable packet integrity checks, 1 to enable
               (default).
* MaxNumCells: Max number of cells for random packet sizes. Default = 4. Set
```

```
*             to 0 for random.
* LoopbackMode: Loopback mode. Set to 1 for MAC loopback, 2 for PHY loopback.
*              (default is MAC loopback).
* ConfigFile: Config files for each succession flexport operation.
*            (default is none)
* Tsc<num>: TSC to be flexed and port mode to flex to, e.g. Tsc5=4x10G.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/flexport.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        fields_p.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_p.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_trap.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/QAX_PP/qax_pp_trap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       init.c
* Purpose:    device initialization
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcidappl.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The PCID application handler.
*
* Requires:
*     All modules
*
* Provides:
*     User interface, initialization, main()
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/pcidappl.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_dir_ext_compare_result.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_dir_ext_compare_result.c
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2013, Broadcom Corporation. All Rights Reserved.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
```

* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.int
spi_flash_cmd_wait_ready(struct spi_flash *flash, unsigned long timeout)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/iProcQspi.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/iProcQspi.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/iProcQspi.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/iProcQspi.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: arad_fabric_cell.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC ARAD FABRIC CELL
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_fabric_cell.c
No license file was found, but licenses were detected in source scan.

/**
* @file sbG2EplibZf.h
*
* <pre>
* ==
* == sbG2EplibZf.h - Master Include File for ZFrames ==
* ==
*
* WORKING REVISION: $Id: sbG2EplibZf.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* MODULE NAME:
*
*     sbG2EplibZf.h
*
* ABSTRACT:
*
*     Master Include File for ZFrames
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     15-April-2005
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2EplibZf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_port.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 PORT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_port.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipv6_tunnel.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipv6_tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.h
* Purpose:     Internal Field Processor data structure definitions for the
*              BCM library.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_8x10g_2xhg10_1xil100.h,v 1.1.2.5 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x10g_2xhg10_1xil100.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x10g_4xhg10_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmu_c.stg,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cmu.c: Guadalupe2k V1.3 CMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/t3p1/t3p1_cmu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_mact.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_mact.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_mact.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
-----------------------------------------------------------------
            Notes on BCM Packet type, bcm_pkt_t
                    Broadcom Corp.
                Last Updated: 05-20-03
-----------------------------------------------------------------


(1) Overview

   This document describes the bcm_pkt_t structure.


(2) Related Documents
```

See also $SDK/doc/txrx.txt.

(3) Goals:

1. Provide meta-data about a packet such as the source port on receive. This includes the proprietary SL tag and HiGig header.
2. Support scatter/gather blocks.
3. Provide a uniform treatment of packets across both transmit and receive.
4. Support zero-copy transmit and receive paths.
5. Support application specific data through cookies.

(4) Packet blocks

Data is described by the bcm_pkt_blk_t. This is simply a pair comprised of a data pointer and a length.

```
/* BCM packet gather block type */
typedef struct bcm_pkt_blk_s {
    uint8 *data;
    int len;
} bcm_pkt_blk_t;
```

The bcm_pkt_t points to an array of these structures and has a count of the number of elements in the array:

```
bcm_pkt_blk_t    *pkt_data;     /* Pointer to array of data blocks */
uint8            blk_count;     /* Number of blocks in array */
```

In addition, in order that applications do not need to allocate a bcm_pkt_blk_t structure for simple packets with one buffer, the bcm_pkt_t structure contains a single block. This can be setup with the macro:

```
BCM_PKT_ONE_BUF_SETUP(pkt, buf, len);
```

where pkt is a pointer to a bcm_pkt_t structure, buf is a pointer to a data buffer and len is the length of that data buffer in bytes.

(5) Packet Macros and Data Members

Below, pkt is a pointer to a bcm_pkt_t structure.

BCM_PKT_IEEE_LEN(pkt)
pkt->pkt_len
Length of the packet according to its current state. This usually includes the VLAN tag and CRC as well as the MAC addresses and other L2 header information. It does not include any proprietary headers such as the SL tag or HiGig header.

BCM_PKT_DMAC(pkt)
Returns a pointer to dest MAC in pkt as uint8*.

BCM_PKT_VLAN_PTR(pkt)
Returns a pointer to the VLAN tag in the packet in network byte order. Note that this may be in the packet data itself, or, if the packet is untagged, the information is stored in an auxiliary buffer in the packet structure.

The following BCM_PKT_TAG and BCM_PKT_VLAN macros use the BCM_PKT_VLAN_PTR macro, so the notes above apply.

BCM_PKT_TAG_PROTOCOL(pkt)
The protocol (eg 0x8100) bytes of the packet in host byte order.

BCM_PKT_VLAN_CONTROL(pkt)
The VLAN control tag itself in host byte order.

BCM_PKT_VLAN_ID(pkt)
BCM_PKT_VLAN_PRI(pkt)
BCM_PKT_VLAN_CFI(pkt)
The VLAN ID, priority and CFI bit respectively extracted from the packet (using the BCM_PKT_VLAN_CONTROL

BCM_PKT_SL_TAG(pkt)
Returns pointer to the SL tag as uint8*. Note that this is not in the packet data, but in an auxiliary buffer in the packet structure. The tag is in network byte order.

BCM_PKT_HG_HDR(pkt)
Returns pointer to the HiGig Header as uint8* Note that this is not in the packet data, but in an auxiliary buffer in the

BCM_PKT_HAS_HGHDR(pkt)
Boolean: Should the packet be treated as having a HiGig header according to the flags in the packet?

BCM_PKT_HAS_SLTAG(pkt)
Boolean: Should the packet be treated as having an SL tag

according to the flags in the packet?

BCM_PKT_NO_VLAN_TAG(pkt)
Boolean: Should the packet be treated as NOT having a VLAN tag according to the flags in the packet?

The following data members provide access to HiGig or SL tag information:

pkt->src_mod, pkt->src_port, pkt->dest_mod, pkt->dest_port
The source and destination module ID and port numbers that indicate the system ingress and egress ports.

pkt->cos
The COS queue in which the packet is transferred.

pkt->opcode
The opcode byte that appears in the HiGig header.

BCM_HG_OPCODE_CPU CPU bit is set
BCM_HG_OPCODE_UC Unicast frame
BCM_HG_OPCODE_BC Broadcast frame
BCM_HG_OPCODE_MC Multicast frame
BCM_HG_OPCODE_IPMC IP multicast frame

The Higig opcode must be set appropriately when sending unicast, broadcast, multicast, or IPMC packets from a fabric chip. The BCM_HG_OPCODE_CPU is used to send to the CPU on an adjacent fabric chip.

The following members are receive specific:

pkt->rx_reason
Provides a bitmap of reasons a packet was forwarded to the CPU.

pkt->rx_port, pkt->rx_unit
The packet was received from a specific unit and port. These indicate which. Note that this may be different than the system ingress port.

pkt->rx_cpu_cos
When forwarded to the CPU, a packet may be sent on a different COS queue. This indicates that remapping.

The following members are transmit specific:

pkt->tx_pbmp, pkt->tx_upbmp, pkt->tx_l3pbmp

Transmit port bitmaps. May be directly manipulated or indirectly with a call to bcm_tx_pkt_l2_map (to be implemented).

To send broadcast or multicast packets from a switch chip, just include all the destination ports in the port bitmap and include the appropriate MAC DA in the packet data.

pkt->call_back, pkt->cookie, pkt->cookie2
Callback and two cookies for user. Note that the decision to send a packet synchronously or asynchronously is made by examining whether or not call_back is NULL. If call_back is non-NULL, the packet is sent asynchronously.

Other data members in the packet:

pkt->pkt_len
See BCM_PKT_IEEE_LEN above.

pkt->unit
The local unit number on which the packet is to be sent on for TX.

pkt->tot_len
The actual number of bytes received (for example, including the HiGig header which may have been stripped from the data buffer.)

pkt->flags
State flags
BCM_PKT_F_HGHDR Does the packet have a HiGig tag?
BCM_PKT_F_SLTAG Does the packet have an SL tag?
BCM_PKT_F_NO_VTAG Is the packet lacking a VLAN tag?

Action flags
BCM_TX_CRC_ALLOC Allocate space for CRC on TX.
BCM_TX_CRC_REGEN Regenerate the CRC on TX.
BCM_TX_CRC_APPEND Append CRC (allocate + regenerate).
BCM_TX_NO_PAD Don't pad runt packets.
BCM_TX_FAST_PATH Raw packet ready to transmit.

BCM_RX_CRC_STRIP Don't include CRC in length of an RX pkt.

pkt->next
User level "next" pointer for linked lists of packets. This pointer may be used by the BCM RX layer before packets are sent to applications. So the data in this

pointer should only be used when the application "owns"
the packet.

Although scatter/gather is supported, the following is ASSUMED:
MAC addresses, the VLAN tag and the CRC do not span
bcm_pkt_blk_t boundaries.

The following functions provide access to the data in the packet.
These may not be efficient.

```
uint8 *bcm_pkt_byte_index(bcm_pkt_t *pkt, int n, int *len,
                          int *blk_idx);
```

Returns pointer to the n-th byte in the packet. Sets len to
the number of bytes remaining in the gather block of that
byte. If blk_idx is non-NULL, it gets the index of the gather
block in which the byte indexed resides.

```
int bcm_pkt_memcpy(bcm_pkt_t *pkt, int dest_byte, uint8 *src, int len)
```

Copies len bytes from the src buffer into the packet in
existing allocation units. Returns the number of bytes
actually copied into the packet which may be less than len if
the packet does not have sufficient space in its buffer.

(6) Packet manipulation macros and functions

BCM_PKT_NO_VTAG_REQUIRE(pkt)
After this macro is called, the packet will be treated as
though it has no VLAN tag in the data buffer. However, note
that the hardware requires a VLAN tag internally. To send a
packet out untagged, manipulate the untagged port bitmap.

BCM_PKT_HGHDR_REQUIRE(pkt)
After this macro is called, the packet will be treated as
having a HiGig header. This should only be used for BCM 5670
and related units. For other XGS devices, the HiGig header
information is transferred in the DMA control words, not added
to the packet buffer data.
NOTE that the HiGig header is never a part of the packet,
but is maintained separately.

BCM_PKT_SLTAG_REQUIRE(pkt)
After this macro is called, the packet will be treated as
having an SL tag. This should only be used when the system is
running in the SL stacking mode. In this case, all packets
received by and sent by the CPU should have an SL tag.
NOTE that the SL tag is never a part of the packet, but is
maintained separately.

bcm_pkt_hghdr_setup(bcm_pkt_t *pkt)
Setup the HiGig header to be consistent with the data members in the packet such as src_port and src_mod (see above). This should be called before bcm_tx for packets that have a HiGig header.

bcm_pkt_hghdr_extract(bcm_pkt_t *pkt)
Extract the HiGig header data into the packet's members such as src_port and src_mod (see above). This is called by RX on packets that have a HiGig header before application callbacks are called, so pkt->src_mod, etc. are properly set for the application.

bcm_pkt_sltag_setup(bcm_pkt_t *pkt)
To Be Implemented.
Setup the SL tag to be consistent with the packet's data members. This should be called before bcm_tx when the system is in SL stacking mode.

bcm_pkt_sltag_extract(bcm_pkt_t *pkt)
To Be Implemented.
Extract the SL tag data into the packet's data members. This is called by RX on packets that have an SL tag before application callbacks are made.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/pkt.txt
No license file was found, but licenses were detected in source scan.

```
# $Id: robosanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"
rcload robo.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps


local done 'echo "   Done"'
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
ver
soc

# Tests Start Here
echo Running CPU benchmarks ...
tr 21
$done

echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
$done

#Internal snake Loopback
echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy
$done

#Packet TX tests
echo "Running Packet TX Performance test..."
tr 40
$done

#Packet RX tests
echo "Running Packet RX Performance test..."
tr 41
$done

#Do re-init after tr 41
rcload robo.soc
counter off
l2mode off
```

```
#--------- PHY Loopback V2 ---------
echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Traffic Test
echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY
$done

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload robo.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/robosanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_packet_queuing.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ingress_packet_queuing.c
*
* MODULE PREFIX:  soc_tmcipq
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/TMC/tmc_api_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_callback.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_callback.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_callback.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_HURACAN.
* This file provides all basic definitions required to program the BCMI_HURACAN.
*
* This file is autogenerated. Please do not edit.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/bcmi_huracan_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc_mngr.h,v 1.119 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       alloc_mngr.h
* Purpose:     Resource allocation manager for SOC_SAND chips.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEbMvtEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cyclic_buffer.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE CELLS BUFFER H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/cyclic_buffer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_2xhg10_16x1g_1xil50.h,v 1.1.2.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_2xhg10_16x1g_1xil50.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv6.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv6.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_1Entry.hx

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_etu.c,v 1.37 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_etu.c
* Purpose: Caladan3 ETU test driver
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_etu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCfgTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredCfgTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: oam_sw_db.c,v 1.148 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    oam_sw_db.c
* Purpose: OAM SW DB
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/oam_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  falcon16_tsc_internal.c                                *
*  Created On    :  13/02/2014                                             *
*  Created By    :  Justin Gaither                                         *
```

```
*  Description   :  APIs for Serdes IPs                                  *
*  Revision      :  *
*                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                            *
*      Broadcom Corporation                                              *
*      5300 California Avenue                                            *
*      Irvine, CA  92617                                                 *
*                                                                        *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                                        *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTable.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibPriTable.h
*
* <pre>
*
* ==========================================================
* ==  sbZfSbQe2000ElibPriTable.h - Port Pri Table ==
* ==========================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibPriTable.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
```

```
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibPriTable.h
*
* ABSTRACT:
*
*    ZFrame Definition.  Allow 24 bit RMW of BF Pri Memory
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     27-October-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTable.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysTimer.c,v 1.2 2011/07/21 16:14:38 yshtil Exp $
*************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
**************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sysTimer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     counter.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/counter.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision    :  $Id: falcon_tsc_internal.h 1193 2015-10-21 21:50:52Z kirand $ *
*                                                                            *
*  Description :  Internal API functions                                     *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_thin.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Implementation of SBX thin_* services
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_thin.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-12x10g.bcm,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 20x1G SGMII - 1xHG42 setup
#
ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1
bcm88030_config.0=35

ucode_num_ports.0=20
ucode_port.port1.0=clport0.ge.0.0-1/0/192/1:clport1.hg42.0.0-1/64/128/1
ucode_port.port2.0=clport0.ge.0.1-1/1/193/1:clport1.hg42.0.1-1/65/129/1
ucode_port.port3.0=clport0.ge.0.2-1/2/194/1:clport1.hg42.0.2-1/66/130/1
ucode_port.port4.0=clport0.ge.0.3-1/3/195/1:clport1.hg42.0.3-1/67/131/1
ucode_port.port5.0=clport0.ge.1.0-1/4/196/1:clport1.hg42.0.4-1/68/132/1
ucode_port.port6.0=clport0.ge.1.1-1/5/197/1:clport1.hg42.0.5-1/69/133/1
ucode_port.port7.0=clport0.ge.1.2-1/6/198/1:clport1.hg42.0.6-1/70/134/1
ucode_port.port8.0=clport0.ge.1.3-1/7/199/1:clport1.hg42.0.7-1/71/135/1
ucode_port.port9.0=clport0.ge.2.0-1/8/200/1:clport1.hg42.0.8-1/72/136/1
ucode_port.port10.0=clport0.ge.2.1-1/9/201/1:clport1.hg42.0.9-1/73/137/1
ucode_port.port11.0=clport0.ge.2.2-1/10/202/1:clport1.hg42.0.10-1/74/138/1
ucode_port.port12.0=clport0.ge.2.3-1/11/203/1:clport1.hg42.0.11-1/75/139/1

ucode_port.port13.0=clport1.ge.1.0-1/12/215/1:clport1.hg42.0.12-1/76/140/1
ucode_port.port14.0=clport1.ge.1.1-1/13/216/1:clport1.hg42.0.13-1/77/141/1
ucode_port.port15.0=clport1.ge.1.2-1/14/217/1:clport1.hg42.0.14-1/78/142/1
ucode_port.port16.0=clport1.ge.1.3-1/15/218/1:clport1.hg42.0.15-1/79/143/1
ucode_port.port17.0=clport1.ge.2.0-1/16/219/1:clport1.hg42.0.16-1/80/144/1
ucode_port.port18.0=clport1.ge.2.1-1/17/220/1:clport1.hg42.0.17-1/81/145/1
ucode_port.port19.0=clport1.ge.2.2-1/18/221/1:clport1.hg42.0.18-1/82/146/1
ucode_port.port20.0=clport1.ge.2.3-1/19/222/1:clport1.hg42.0.19-1/83/147/1

#cmic_ingress_squeue=22
#cmic_egress_squeue=86
#cmic_ingress_dqueue=206
#cmic_egress_dqueue=150
#xl_ingress_squeue=20
```

```
#xl_egress_squeue=84
#xl_ingress_dqueue=204
#xl_egress_dqueue=148

#serdes_qsgmii_sgmii_override_ge=2
serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2
serdes_qsgmii_sgmii_override_ge4=2
serdes_qsgmii_sgmii_override_ge5=2
serdes_qsgmii_sgmii_override_ge6=2
serdes_qsgmii_sgmii_override_ge7=2
serdes_qsgmii_sgmii_override_ge8=2
serdes_qsgmii_sgmii_override_ge9=2
serdes_qsgmii_sgmii_override_ge10=2
serdes_qsgmii_sgmii_override_ge11=2
serdes_qsgmii_sgmii_override_ge12=2
serdes_qsgmii_sgmii_override_ge13=2
serdes_qsgmii_sgmii_override_ge14=2
serdes_qsgmii_sgmii_override_ge15=2
serdes_qsgmii_sgmii_override_ge16=2
serdes_qsgmii_sgmii_override_ge17=2
serdes_qsgmii_sgmii_override_ge18=2
serdes_qsgmii_sgmii_override_ge19=2

higig2_hdr_mode_hg0=2

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_ge0=0x1230
xgxs_rx_lane_map_ge4=0x1032
xgxs_rx_lane_map_ge8=0x1230

xgxs_tx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge4=0x3210
xgxs_tx_lane_map_ge8=0x1032

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0000
phy_xaui_rx_polarity_flip_ge2=0x0000
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
```

```
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0000
phy_xaui_rx_polarity_flip_ge11=0x0001


phy_xaui_tx_polarity_flip_ge0=0x0001
phy_xaui_tx_polarity_flip_ge1=0x0001
phy_xaui_tx_polarity_flip_ge2=0x0000
phy_xaui_tx_polarity_flip_ge3=0x0000
phy_xaui_tx_polarity_flip_ge4=0x0001
phy_xaui_tx_polarity_flip_ge5=0x0001
phy_xaui_tx_polarity_flip_ge6=0x0001
phy_xaui_tx_polarity_flip_ge7=0x0001
phy_xaui_tx_polarity_flip_ge8=0x0000
phy_xaui_tx_polarity_flip_ge9=0x0000
phy_xaui_tx_polarity_flip_ge10=0x0001
phy_xaui_tx_polarity_flip_ge11=0x0001

#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032

xgxs_rx_lane_map_ge12=0x3210
xgxs_rx_lane_map_ge16=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032

xgxs_tx_lane_map_ge12=0x3210
xgxs_tx_lane_map_ge16=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
```

ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999

ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-20x1g-1xhg42.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkStatsP.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:    Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkStatsP.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ilkn_drv.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC NIF ILKN DRV H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/NIF/ilkn_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_property.h,v 1.8.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 PROPERTY H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_property.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dscdump.c
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/src/dscdump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.22.26.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX Counter CLI support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/counter.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250MacEnd.c,v 1.2 2011/07/21 16:14:37 yshtil Exp $
* Copyright 2000,2001
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license to Wind River Systems, Inc.
* and may be used only in accordance with the terms and conditions of
* this license.  No title or ownership is transferred hereby.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250MacEnd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configNet.h.template,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* configNet.h - Network configuration header file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/configNet.h.template
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84756_fcmap.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756_fcmap.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_pss.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_pss.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       reg.c
* Purpose:     Diag shell register commands for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sand/diag_sand_reg.c
No license file was found, but licenses were detected in source scan.

```
# $Id: gh_bcm953411x.soc,v 1.0 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to configure BCM953411K/R board
#

# Enable LED matrix mode (RDB_Reg 0x85f) for the 1st PHY54292
phy raw 0x0 0x17 0xf7e
phy raw 0x0 0x15 0x0000
phy raw 0x0 0x1e 0x85f
phy raw 0x0 0x1f 0x23
```

```
phy raw 0x0 0x1e 0x87
phy raw 0x0 0x1f 0x8000

# Enable LED matrix mode (RDB_Reg 0x85f) for the 2nd PHY54292
phy raw 0x9 0x17 0xf7e
phy raw 0x9 0x15 0x0000
phy raw 0x9 0x1e 0x85f
phy raw 0x9 0x1f 0x23
phy raw 0x9 0x1e 0x87
phy raw 0x9 0x1f 0x8000
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/gh_bcm953411x.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_cell_snake_test.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_fabric_cell_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*     Copyright (c) 1999-2012, Broadcom Corporation
*     All Rights Reserved
*     Confidential Property of Broadcom Corporation
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on         Mon Apr 16 13:59:44 2012
*               MD5 Checksum         669ce1e23392543807bc38a9d02ecf49
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  UCSS_X4              1
*               aer                  1
*               an_x1_control        1
*               an_x1_timers         1
*               an_x4_abilities      1
*               an_x4_hw_lp_pages    1
*               an_x4_sw_management  1
*               anapll               1
*               anarx                1
*               anatx                1
*               cl49                 1
*               cl72                 1
*               cl72_shared          1
*               cl73                 1
*               cl82                 1
*               cl82_am              1
*               cl82_am_tsc_12       1
*               cl82_shared          1
```

```
*       digital         1
*       digital5        1
*       dsc_1           1
*       dsc_2           1
*       dsc_3           1
*       dsc_4           1
*       dsc_5           1
*       ed6466_user     1
*       generic         1
*       gp2             1
*       ieee0_cl22      1
*       ieee1_cl22      1
*       ieee_an0        1
*       ieee_an3        1
*       ieee_pcs1       1
*       ieee_pcs2       1
*       ieee_pcs3       1
*       ieee_pma_pmd0   1
*       ieee_pma_pmd10  1
*       ieee_pma_pmd10_tsc_121
*       ieee_pma_pmd9   1
*       main0           1
*       micro           1
*       microtmp2       1
*       patgen_0        1
*       patgen_1        1
*       rx_x1_control0  1
*       rx_x1_control1  1
*       rx_x2_control0  1
*       rx_x2_status0   1
*       rx_x4_control0  1
*       rx_x4_control0_tsc_121
*       rx_x4_status0   1
*       rx_x4_status0_tsc_12 1
*       rx_x4_status1   1
*       test0           1
*       test1           1
*       testmux         1
*       testshared0     1
*       testshared1     1
*       tx_x1_control0  1
*       tx_x1_status0   1
*       tx_x2_control0  1
*       tx_x2_status0   1
*       tx_x4_control0  1
*       tx_x4_credit_gen0  1
*       tx_x4_status0   1
*       xgxsblk1        1
```

```
*            xgxsblk10          1
*            xgxsblk4           1
*
* RDB Files:  /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_TSC_ALL.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee0_cl22Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee1_cl22Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/patgen_0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/patgen_1_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pma_pmd0Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pma_pmd9Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pma_pmd10Regs.rdb
*
/projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pma_pmd10_tsc_12Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pcs1Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pcs2Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45pcs3Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45an0Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ieee_cl45an3Regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/anapll_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/testshared0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/testshared1_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/testmux_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/xgxsblock1_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/xgxsblock4_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/xgxsblock10_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/an_x1_timers_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/gp2_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl72_shared_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl82_shared_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl82_am_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl82_am_tsc_12_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/main0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x1_control0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x1_control1_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x1_control0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x1_status0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/an_x1_control_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl82_user_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x2_control0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x2_status0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x2_control0_regs.rdb
*          /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x2_status0_regs.rdb
```

```
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/gen_per_lane_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/anatx_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/anarx_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/test0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/test1_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x4_credit_gen0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x4_control0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/tx_x4_status0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x4_control0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x4_status0_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x4_status1_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x4_control0_tsc_12_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/rx_x4_status0_tsc_12_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/an_x4_abilities_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/an_x4_hw_lp_pages_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/an_x4_sw_management_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ucss_x4_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/dsc_1_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/dsc_2_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/dsc_3_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/dsc_4_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/dsc_5_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/digital_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/digital5_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl49_user_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl72_user_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/cl73_user_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/ed6466_user_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/microtmp2_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/micro_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/aer_regs.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/enum_inc.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_ieeeBlockCL22.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_ieeeBlockPMA_PMD.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_ieeeBlockPCS.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_userBlocks1.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_userBlocks2.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_userBlocks4.rdb
*       /projects/trident2_scratch/mjang/td2_nq_regr/trident2/ip_cores/tsc/rtl/rdb/WC4_userBlocksX.rdb
*
```

```
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_warmboot.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*Des:
*  This test cfg sw info before warmboot and expecting to get the same sw info after warm boot.
*
*  first run bcm after cfg in config-bcm:
*     "##warm boot
*     stable_location=3
*     stable_size=200000
*     scache_filename=warm_boot.mem"
*  run cint_dfe_cold_boot_set
*  exit;
*
*  now run bcm again after:
*  export SOC_BOOT_FLAGS=0x200000
*  and run cint_dfe_warm_boot_check
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_warmboot.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipmc_example.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_ipmc_example.c
* Purpose: Example shows how to configure IP multicast for IPv4 and IPv6.
*
* Default Settings:
* There are two examples, one for IPv4 and one IPv6. Both are similar, except the IP structures.
*
```

```
* The main example configures the following:
*  *   Create an IP MC Group - create_ip_mc_group (unit, flags, ipmc_index, dest_port_id, vlan)
*  *   Add an IP MC Entry - add_ip4mc_entry (unit, mc_ip, src_ip, vlan, mc_id)
*  Note that the bcm_multicast_t that was created in the create_ip_mc_group() function is saved to pass it
*  to the add_ip4mc_entry() as an argument. Passing the MC ID alone without the encapsulation
*  results in an error. Also, trying to create the entry before the group results in an error.
*  *   Use bcm_ipmc_find to get the entry that was just added.
*  *   You can also use the individual functions that are included.
*
* IPv4 Application: ipv4_mc_example(unit)
*
*  ~~~
```

cint examples/dpp/utility/cint_utils_l3.c
cint examples/dpp/cint_ip_route.c
cint examples/dpp/cint_ipmc_example.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipmc_example.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_utils_multicast.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_multicast.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: phyctrl.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: phyctrl.h
* Purpose: Data structures and function prototypes for PHY configuration.
* Note: This header file is for PHY driver module. Should not include
* this header file in SOC or BCM layers except
* soc/common/phyctrl.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phyctrl.h
No license file was found, but licenses were detected in source scan.

/*
* Normally, this file is autogenerated, but for SBX we are doing it by hand
*
* $Id: allenum.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/allenum.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/include/tdm_th2_vec.h#7 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM vector library for BCM56970
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk2/tdm_th2_vec.h
No license file was found, but licenses were detected in source scan.

```
/** \file algo_mirror.h
*
* Internal DNX resource manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/mirror/algo_mirror.h
No license file was found, but licenses were detected in source scan.

```
# $Id: tr3_sanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*
```

```
if $?BCM56540_A0 || $?BCM56541_A0 || $?BCM56542_A0 || \
  $?BCM56540_A1 || $?BCM56541_A1 || $?BCM56542_A1 || \
  $?BCM56540_B0 || $?BCM56541_B0 || $?BCM56542_B0 \
   'local firebolt4 1'

if $?BCM56544_A0 || $?BCM56545_A0 || $?BCM56546_A0 || \
  $?BCM56544_A1 || $?BCM56545_A1 || $?BCM56546_A1 || \
  $?BCM56544_B0 || $?BCM56545_B0 || $?BCM56546_B0 \
   'local apollo2 1'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
```

```
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

#tr3_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done
```

```
echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=ge Speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=10G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=ge Speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=10G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
```

```
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe
$done

echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=ge
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=ge
$done

echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=xe
$done

echo "Running Traffic Test in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=hg
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=hg
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr3_sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.h,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/debug.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: brd_chassis_smlb.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: brd_chassis_smlb.c
* Purpose: BCM956000 Chassis source-modid based load balancing
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_chassis_smlb.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy8481_firmware.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: phy8481_firmware.c
* Purpose: Firmware for 848X PHYs
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8481_firmware.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: hnddma.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic Broadcom Home Networking Division (HND) DMA module.
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* Note: This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
* the contents of this file may not be disclosed to third parties, copied or

* duplicated in any form, in whole or in part, without the prior written
* permission of Broadcom Corporation.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/hnddma.c
No license file was found, but licenses were detected in source scan.

/*
* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: eth_lm_dm_sdk_msg.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/eth_lm_dm_sdk_msg.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_property.c,v 1.68.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_property.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_eg_mirror.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_mirror.c
No license file was found, but licenses were detected in source scan.

/* $Id: soc_jer2_jer2_jer2_tmcapi_tcam_key.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_tcam_key.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c_cmds.c,v 1.124 Broadcom SDK $
*
* I2C specific commands.
* These commands are specific to the I2C driver and or I2C slave
* devices which use that driver. See drv/i2c/ for more details.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/i2c_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_res_tag_bitmap.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- tagged bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_res_tag_bitmap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.c,v 1.7 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx/auth.c
* Purpose: BCMX 802.1x support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.118 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.c
* Purpose:
* Requires:
*
* Notes on internals:
*    The basic tx function is bcm_tx.  In this case, a chain
*    corresponds to a single packet.  The done chain interrupt (dv done)
*    is used to indicate the end of packet for async transmission.
*
*    Arrays may be transmitted using bcm_tx_array; similarly, linked lists
*    can be transmitted with bcm_tx_list.  In both cases, the
*    tx_dv_info_t structure is associated with the DV.  Currently,
*    only one call back is supported for a chain of packets.  It
*    wouldn't be too difficult to have a per packet callback using
*    the packet's call back member.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VLAN CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/vlan.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_mmu.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_mmu.c
* Purpose: Maintains all the debug information for mmu
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mmu/trident2plus_mmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: next_hop.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       next_hop.h
* Purpose:     Header file for next hop transport
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/next_hop.h
No license file was found, but licenses were detected in source scan.

```
/* Copyright 1997,1998,1999 Motorola, Inc. All Rights Reserved */
/* Copyright 1997-2001 Wind River Systems, Inc. All Rights Reserved */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks5x/bcm1125/pciAutoConfigLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks5x/bcm1125/pciAutoConfigLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_defines.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM macro values for BCM56860
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/tdm/apache/tdm_ap_defines.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_vswitch_vpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_vpls.c
* Purpose: Example of Open Multi-Point VPLS service and attach logical ports to the service.
*          The attached ports can be attachment circuits or PWEs.
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                          connect from access side.
* PWE: Virtual circuit attached to the service based on VC-label. Connect to the MPLS
*      network side.
*
* For this service, multiple logical ports can be attached where each logical port can be:
*
*
~~~
```

```
* |         | Ethr | Data |     | Ethr | MPLS | PWE | Ethr | Data |     | Ethr |S-TAG|C-TAG| Data | |
* |         +-------------+     +--------------------------------+     +-------------------------+ |
* |                                                                                                |
* |                  +~~~
```

```
* Headers:
*
*  ~~~
```

```
*  |  +-+-+-+
```

```
*  Flooding Packets Incoming from MPLS Network same as Packets Received from PWE1, see Figure 15
*
*  -   Packet is flooded (as DA is not known):
*      -   Packet is received.
*          -    In access P1: physical port P2 with VLAN tag1: VID =10, VLAN tag2: VLAN ID = 20.
*          -    In access P2: physical port P2 with VLAN tag1 VID =15, VLAN tag2: VLAN ID = 30.
*          Note that the packet is not received on PWE1 or PWE2 due to split-horizon filtering.
*          A packet received from HUB is not flooded back to HUB.
*  -   The SA of the packet is learned 6202.
*      -   Call l2_print_mact(unit) to print MAC table content.
*
*  Flooding packets incoming access side.
*  -   Send Ethernet packet from access-P1:
*      -   Any SA
*      -   Unknown DA
*      -   VLAN tag1: VLAN tag type 0x8100, VID =10
*      -   VLAN tag2: VLAN tag type 0x9100, VID =20
*
*  Flooding Packets from Incoming Access Side same as Packets Received/Transmitted
*  on Access Port 1, see Figure 18.
*
*  -   Packet is flooded (as DA is not known).
*      -   Packet is received:
*          -   On physical port P1:
*              -  PWE1,2: With VC label and MPLS tunnels as described above.
*          -   On physical port P2:
*              -   In P2: port 1 with VLAN tag1: VID =3, VLAN tag2: VLAN ID = 6.
*          Note that the packet is not received on access P1, as packet was injected
*          from this logical port, that is, hair-pin filtering.
*  -   The SA of the packet is learned on VSI 6202.
*      -   Call l2_print_mact(unit) to print MAC table content.
*
* Sending to known DA
*  -   Send Ethernet packet from any logical interface PWE or Access port with known DA on VSI 6202
*      the packet will be forwarded to the specific logical port with required editing.
*
* Remarks:
*  -   For this application at least two ports are needed, one for access side and one for MPLS network side
*  -   User can statically add entry to the MACT pointing to a gport using
*      vswitch_add_l2_addr_to_gport(unit, gport_id)
*  -   Set verbose = 1/0 to show/hide informative prints
*  -   When calling vswitch_vpls_run(unit, extend_example), extend_example
*      o   if 0: service includes 2 ports, one Access port, and one network (VPLS) port
*      o   else: service includes 4 ports, two Access ports, and two network (VPLS) ports as
*          described in the above figure
*  -   Calling vswitch_vpls_run() as is more than one time would fail because this call will try open same
*      VPN twice,  to avoid this user should set vswitch_vpls_info_1.vpn_id different value in order to
*      open new service.
```

```
* -   Call switch_pwe_tunnel function to switch PWE1 from mpls tunnel (1000,1002) to the other (300,400) that
was prevously configured for PWE2.
*      This configures only the multicast traffic to go throught the new tunnel, unicast traffic is not effected.
* -   make_before_break variable can be set in order to configure both mplt ports with same vc label, then remove
the first port.
* -   vccv_type3_ttl variable can be set in order to configure VCCV type 3 on PWE1. This configuration will trap
packets with TTL<=1 to the control plane.
* -   encap_optimized variable is used to enable EEDB optimized mode.
*          In this mode of PWE over protected MPLS tunnel, only one EEDB entry is allocated for PWE OutLif (as
opposed to two entries in the regular mode),
*          which is pointed by the MACT (as opposed to being pointer by the FEC). The FEC in this mode points to
MPLS tunnel EEDB entry.
*          The protection switching in this mode is done by changing the PWE OutLif pointer using
bcm_mpls_tunnel_initiator_create api.
*          Thus EEDB resources are reduced by cost of protection switching time.
*          In addition, in this mode FEC should contain EEI information instead of OutLif in the regular mode.
*          To use this mode two apis should be set with flags:
*              bcm_l3_egress_create flag BCM_L3_ENCAP_SPACE_OPTIMIZED should be set to configure FEC
format to OutLif.
*              bcm_mpls_port_add flag BCM_MPLS_PORT2_LEARN_ENCAP should be set when configuring
ingress properties to enable OutLif learning.
* - When working with fabric + egress multicast group, it is user responsible to configure fabric multicast group to
send to the correct device.
*       In case of working on single-device then fabric_connect_mode soc property must be set with SINGLE_FAP
*
* To Activate Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_global.c
*   BCM> cint examples/dpp/utility/cint_utils_vlan.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
*      BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/utility/cint_utils_l2.c
*      BCM> cint examples/dpp/utility/cint_utils_l3.c
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/cint_advanced_vlan_translation_mode.c
*      BCM> cint examples/dpp/cint_qos.c
*      BCM> cint examples/dpp/cint_mpls_lsr.c
*      BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*      BCM> cint examples/dpp/cint_vswitch_vpls.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = vswitch_vpls_run_with_defaults(unit, second_unit, extend_example);
*
* Script adjustment:
*  User can adjust the following attribute of the application
* -   vpn_id:            VPN id to create
* -   ac_in_port:        accesss port: physical port connect to customer
* -   pwe_in_port:       network port: physical port connect to MPLs network (for incoming packets)
```

```
* -   pwe_out_port:      network port: physical port connect to MPLs network (for outgoing packets)
* -   in_vc_label:       incomming VC label
* -   eg_vc_label:       egress VC label
* -   in_tunnel_label:   inner tunnel label
* -   out_tunnel_label:  outer tunnel label
* -   pwe_cw:            adding CW to all the PWEs
* -   is_gal:            configure PW-ACH termination for BFD vccv Type 4 packets.
* -   pwe_php:           No mpls tunnels for PWE interface
*                        Note: in this case VLAN must be valid in bcm_l3_egress_create in order to infer the l3 interface.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Routines to access SPROM and to parse SROM/CIS variables.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmsrom.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:       bhh_sdk_pack.c
* Purpose:    BHH pack and unpack routines for:
*             - BHH Control messages
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/bhh_sdk_pack.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_multicast_imp.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dnx/legacy/ARAD/arad_multicast_imp.c
No license file was found, but licenses were detected in source scan.

/* $Id: sysLib.c,v 1.10 2011/07/21 16:14:55 yshtil Exp $
  Copyright 2001, Broadcom Corporation
  All Rights Reserved.

  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
  the contents of this file may not be disclosed to third parties, copied or
  duplicated in any form, in whole or in part, without the prior written
  permission of Broadcom Corporation.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/raptor/vxworks5x/bcm56218/sysLib.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trunk.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for trunking (a.k.a. Port Aggregation)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/bcm/sbx/common/trunk.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_api_cnt.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dpp/ARAD/arad_api_cnt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbx_inline_regs.c,v 1.11 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx_inline_regs.c
* Purpose:     Split out from sbx.c to cut down on compile time.
*
*  This file includes several massisve auto-generated functions to add
*  the various chips to the diag shell.  Each taking several seconds to
*  compile, causing long compile times for minor changes to sbx.c.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbx_inline_regs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-knet.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/bcm-knet.h
No license file was found, but licenses were detected in source scan.

```
/*
* SiliconBackplane Chipcommon core hardware definitions.
*
* The chipcommon core provides chip identification, SB control,
* jtag, 0/1/2 uarts, clock frequency control, a watchdog interrupt timer,
* gpio interface, extbus, and support for serial and parallel flashes.
*
* $Id: sbchipc.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbchipc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: streaming_library.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Extern declarations for test functions in streaming_library.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_lib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_harrier.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/robo_harrier.h
No license file was found, but licenses were detected in source scan.

```
# $Id: sbx-c3-led.soc,v 1.1.2.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Initialization Caladan3 LED (run commands) file
#
#       These are default commands that are read and executed by default
#       when Caladan3 LED boots up.

# led binary code
local ledcode '\
02 32 60 e3 06 e3 e2 01 60 e3 28 06 e3 12 a0 f8\
15 1a 00 27 87 06 e3 12 a0 f8 15 1a 00 27 76 2d\
28 32 00 32 01 b7 76 2d 16 e0 1a 03 27 87 06 e3\
d2 01 75 04 86 e0 3a 64 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
```

```
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00'


# Download LED code into LED processor and enable (if applicable).
echo $unit:call led process;
led prog $ledcode;
led auto on;
led start;

#   sdk-all-6.3.0/src/soc/common/feature.c:soc_features_bcm88030_a0()
#    switch (feature) {
#        case soc_feature_cmicm:
#        .....
#        case soc_feature_logical_port_num:
#        case soc_feature_unified_port:
#        case soc_feature_cmac:
#        case soc_feature_ddr3:
#        case soc_feature_led_proc: /* <=== insert code */
#        case soc_feature_led_data_offset_a0: /* <=== insert code */
#        return TRUE;


# led enable register
m CMIC_LEDUP0_CTRL LEDUP_SCAN_INTRA_PORT_DELAY=0x2
m CMIC_LEDUP0_CTRL LEDUP_SCAN_START_DELAY=0x1
m CX_DEBUG_LED_INITIAL_DELAY LED_INITIAL_DELAY=0x8

m  CMIC_LEDUP0_PORT_ORDER_REMAP_0_3.cmic0    REMAP_PORT_0=63
m  CMIC_LEDUP0_PORT_ORDER_REMAP_0_3.cmic0    REMAP_PORT_1=62
m  CMIC_LEDUP0_PORT_ORDER_REMAP_0_3.cmic0    REMAP_PORT_2=61
m  CMIC_LEDUP0_PORT_ORDER_REMAP_0_3.cmic0    REMAP_PORT_3=60
m  CMIC_LEDUP0_PORT_ORDER_REMAP_4_7.cmic0    REMAP_PORT_4=11
m  CMIC_LEDUP0_PORT_ORDER_REMAP_4_7.cmic0    REMAP_PORT_5=10
m  CMIC_LEDUP0_PORT_ORDER_REMAP_4_7.cmic0    REMAP_PORT_6=9
m  CMIC_LEDUP0_PORT_ORDER_REMAP_4_7.cmic0    REMAP_PORT_7=8
m  CMIC_LEDUP0_PORT_ORDER_REMAP_8_11.cmic0   REMAP_PORT_8=7
m  CMIC_LEDUP0_PORT_ORDER_REMAP_8_11.cmic0   REMAP_PORT_9=6
m  CMIC_LEDUP0_PORT_ORDER_REMAP_8_11.cmic0   REMAP_PORT_10=5
m  CMIC_LEDUP0_PORT_ORDER_REMAP_8_11.cmic0   REMAP_PORT_11=4
m  CMIC_LEDUP0_PORT_ORDER_REMAP_12_15.cmic0  REMAP_PORT_12=3
m  CMIC_LEDUP0_PORT_ORDER_REMAP_12_15.cmic0  REMAP_PORT_13=2
m  CMIC_LEDUP0_PORT_ORDER_REMAP_12_15.cmic0  REMAP_PORT_14=1
m  CMIC_LEDUP0_PORT_ORDER_REMAP_12_15.cmic0  REMAP_PORT_15=0
m  CMIC_LEDUP0_PORT_ORDER_REMAP_16_19.cmic0  REMAP_PORT_16=23
m  CMIC_LEDUP0_PORT_ORDER_REMAP_16_19.cmic0  REMAP_PORT_17=22
m  CMIC_LEDUP0_PORT_ORDER_REMAP_16_19.cmic0  REMAP_PORT_18=21
m  CMIC_LEDUP0_PORT_ORDER_REMAP_16_19.cmic0  REMAP_PORT_19=20
m  CMIC_LEDUP0_PORT_ORDER_REMAP_20_23.cmic0  REMAP_PORT_20=19
```

```
m  CMIC_LEDUP0_PORT_ORDER_REMAP_20_23.cmic0  REMAP_PORT_21=18
m  CMIC_LEDUP0_PORT_ORDER_REMAP_20_23.cmic0  REMAP_PORT_22=17
m  CMIC_LEDUP0_PORT_ORDER_REMAP_20_23.cmic0  REMAP_PORT_23=16
m  CMIC_LEDUP0_PORT_ORDER_REMAP_24_27.cmic0  REMAP_PORT_24=15
m  CMIC_LEDUP0_PORT_ORDER_REMAP_24_27.cmic0  REMAP_PORT_25=14
m  CMIC_LEDUP0_PORT_ORDER_REMAP_24_27.cmic0  REMAP_PORT_26=13
m  CMIC_LEDUP0_PORT_ORDER_REMAP_24_27.cmic0  REMAP_PORT_27=12
m  CMIC_LEDUP0_PORT_ORDER_REMAP_28_31.cmic0  REMAP_PORT_28=35
m  CMIC_LEDUP0_PORT_ORDER_REMAP_28_31.cmic0  REMAP_PORT_29=34
m  CMIC_LEDUP0_PORT_ORDER_REMAP_28_31.cmic0  REMAP_PORT_30=33
m  CMIC_LEDUP0_PORT_ORDER_REMAP_28_31.cmic0  REMAP_PORT_31=32
m  CMIC_LEDUP0_PORT_ORDER_REMAP_32_35.cmic0  REMAP_PORT_32=31
m  CMIC_LEDUP0_PORT_ORDER_REMAP_32_35.cmic0  REMAP_PORT_33=30
m  CMIC_LEDUP0_PORT_ORDER_REMAP_32_35.cmic0  REMAP_PORT_34=29
m  CMIC_LEDUP0_PORT_ORDER_REMAP_32_35.cmic0  REMAP_PORT_35=28
m  CMIC_LEDUP0_PORT_ORDER_REMAP_36_39.cmic0  REMAP_PORT_36=27
m  CMIC_LEDUP0_PORT_ORDER_REMAP_36_39.cmic0  REMAP_PORT_37=26
m  CMIC_LEDUP0_PORT_ORDER_REMAP_36_39.cmic0  REMAP_PORT_38=25
m  CMIC_LEDUP0_PORT_ORDER_REMAP_36_39.cmic0  REMAP_PORT_39=24
m  CMIC_LEDUP0_PORT_ORDER_REMAP_40_43.cmic0  REMAP_PORT_40=47
m  CMIC_LEDUP0_PORT_ORDER_REMAP_40_43.cmic0  REMAP_PORT_41=46
m  CMIC_LEDUP0_PORT_ORDER_REMAP_40_43.cmic0  REMAP_PORT_42=45
m  CMIC_LEDUP0_PORT_ORDER_REMAP_40_43.cmic0  REMAP_PORT_43=44
m  CMIC_LEDUP0_PORT_ORDER_REMAP_44_47.cmic0  REMAP_PORT_44=43
m  CMIC_LEDUP0_PORT_ORDER_REMAP_44_47.cmic0  REMAP_PORT_45=42
m  CMIC_LEDUP0_PORT_ORDER_REMAP_44_47.cmic0  REMAP_PORT_46=41
m  CMIC_LEDUP0_PORT_ORDER_REMAP_44_47.cmic0  REMAP_PORT_47=40
m  CMIC_LEDUP0_PORT_ORDER_REMAP_48_51.cmic0  REMAP_PORT_48=39
m  CMIC_LEDUP0_PORT_ORDER_REMAP_48_51.cmic0  REMAP_PORT_49=38
m  CMIC_LEDUP0_PORT_ORDER_REMAP_48_51.cmic0  REMAP_PORT_50=37
m  CMIC_LEDUP0_PORT_ORDER_REMAP_48_51.cmic0  REMAP_PORT_51=36
m  CMIC_LEDUP0_PORT_ORDER_REMAP_52_55.cmic0  REMAP_PORT_52=59
m  CMIC_LEDUP0_PORT_ORDER_REMAP_52_55.cmic0  REMAP_PORT_53=58
m  CMIC_LEDUP0_PORT_ORDER_REMAP_52_55.cmic0  REMAP_PORT_54=57
m  CMIC_LEDUP0_PORT_ORDER_REMAP_52_55.cmic0  REMAP_PORT_55=56
m  CMIC_LEDUP0_PORT_ORDER_REMAP_56_59.cmic0  REMAP_PORT_56=55
m  CMIC_LEDUP0_PORT_ORDER_REMAP_56_59.cmic0  REMAP_PORT_57=54
m  CMIC_LEDUP0_PORT_ORDER_REMAP_56_59.cmic0  REMAP_PORT_58=53
m  CMIC_LEDUP0_PORT_ORDER_REMAP_56_59.cmic0  REMAP_PORT_59=52
m  CMIC_LEDUP0_PORT_ORDER_REMAP_60_63.cmic0  REMAP_PORT_60=51
m  CMIC_LEDUP0_PORT_ORDER_REMAP_60_63.cmic0  REMAP_PORT_61=50
m  CMIC_LEDUP0_PORT_ORDER_REMAP_60_63.cmic0  REMAP_PORT_62=49
m  CMIC_LEDUP0_PORT_ORDER_REMAP_60_63.cmic0  REMAP_PORT_63=48
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sbx-c3-led.soc
No license file was found, but licenses were detected in source scan.

/* $Id: ui_fe_indirect.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fe_indirect.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: typedefs.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/typedefs.h
No license file was found, but licenses were detected in source scan.

/* $Id: uc.h,v 1.5 Broadcom SDK $
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	uc.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/uc.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmSlqCntrsEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmSlqCntrsEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: max127.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* MAX127 multi-range 12-bit D-A converter chip which provides for
* eight (8) analog input channels that are independently software
* programmable via I2C bus.
* See also: MAXIM MAX127 data sheet for more details.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/max127.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_ast_entry.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_ast_entry.h
* Purpose:     Declare AST entries based on CINT_AST_LIST_ENTRY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_ast_entry.h
No license file was found, but licenses were detected in source scan.

```
/*
* Common [OS-independent] portion of
* Broadcom Home Networking Division 10/100 Mbit/s Ethernet
* Device Driver.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etc.c,v 1.5 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_esm_serdes.c,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod_esm_serdes.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xfp.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for XFP modules.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/xfp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_mgmt.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_mgmt.c
*
* MODULE PREFIX:  soc_jer2_tmcmgmt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtdebugbank1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank1Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nsgmac.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Gigabit Ethernet MAC defines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/nsgmac.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_debug.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_counter.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qe2000_counter.c
* Purpose:    Software Counter Collection module for QE2000.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_counter.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.boards,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Board support
```

```
#

ifneq (,$(findstring BOARD,$(FEATURE_LIST)))

# board feature is defined

# make sure I2C is excluded if only ROBO is defined
ifdef ROBO_CHIPS

ifdef ESW_CHIPS
NEEDS_I2C=1
endif

ifdef SBX_CHIPS
NEEDS_I2C=1
endif

ifndef NEEDS_I2C
FEATURE_EXCLUDE_LIST += I2C
endif

endif


ifndef BOARD_LIST

# if BOARD_LIST is not defined, create one based on the devices
# available

BOARD_LIST  =

#
# device architecture dependent generic board drivers
#
ifdef ESW_CHIPS
SBX_ESW_GENERIC_BOARD=1
endif

ifdef SBX_CHIPS
SBX_ESW_GENERIC_BOARD=1
endif

ifdef ROBO_CHIPS
ROBO_GENERIC_BOARD=1
endif

ifdef SBX_ESW_GENERIC_BOARD
BOARD_LIST += GENERIC
```

```
endif

ifdef ROBO_GENERIC_BOARD
BOARD_LIST += ROBO
endif

#
# BCM956504R24, BCM956504R48 and other similar designs
#
ifdef BCM_56504_A0
BCM956504R24=1
endif

ifdef BCM_56504_B0
BCM956504R24=1
endif

ifdef BCM_56514_A0
BCM956504R24=1
endif

ifdef BCM_56102_A0
BCM956504R24=1
endif

ifdef BCM_56112_A0
BCM956504R24=1
endif

ifdef BCM_56304_B0
BCM956504R24=1
endif

#
# single and dual device boards
#
ifdef BCM956504R24
BOARD_LIST += BCM956504R24
BOARD_LIST += BCM956504R48
endif

#
# BCM988230 and other similar designs
#
ifdef BCM_88230_A0
BCM988230=1
endif
```

```
ifdef BCM_88230_B0
BCM988230=1
endif

ifdef BCM_88230_C0
BCM988230=1
endif

ifdef BCM988230
BOARD_LIST += BCM988230
endif

# expand board list to defines
CFGFLAGS += $(foreach board,$(BOARD_LIST), -DINCLUDE_BOARD_$(board))

endif # ifndef BOARD_LIST

endif # if BOARD FEATURE
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.boards
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200NmRankAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200NmRankAddr.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200NmRankAddr.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pcp_frwrd_ipv4_test.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_pcp_frwrd_ipv4_test.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_diag.c,v 1.2.12.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON DIAG C
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod_defines.h,v 1.17 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*-----------------------------------------------------------------------
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*  Description: define enumerators
*-----------------------------------------------------------------------
*  CVS INFORMATION:
*     $Id: wcmod_defines.h,v 1.17 Broadcom SDK $
*     $Revision: 1.17 $
*     $Source: /projects/ntsw-cvs2/swcvs4/minerva/sdk/src/soc/phy/wcmod/include/wcmod_defines.h,v $
*     $Date: 2012/06/04 18:23:53 $
*     $Header: /projects/ntsw-cvs2/swcvs4/minerva/sdk/src/soc/phy/wcmod/include/wcmod_defines.h,v 1.17
Broadcom SDK $
*     $Log: wcmod_defines.h,v $
*     Revision 1.17  2012/06/04 18:23:53  wniu
*     PHY-615 added a new define for PLL enable without lock wait
*
*     Revision 1.16  2012/05/29 23:58:13  wniu
*     PHY-613 added a member of fiber_pref for wcmod structure
*
*     Revision 1.15  2012/05/21 18:47:30  wniu
```

```
*     PHY-594 added a member of firmware_mode for wcmod structure
*
*     Revision 1.14  2012/05/01 17:50:59  wniu
*     added 4 variables into wcmod_st to accommodate deadlink vga/dfe value
*
*     Revision 1.13  2012/01/18 06:22:06  mjang
*      Adding dual_port.  dxgxs is for dual port BCST for register access.
*      dual_port is for indication of being a dual port.
*      For some dual port setting, only regsisters of one lane should be set.
*
*     Revision 1.12  2012/01/13 08:26:13  mjang
*      Add one variable for diagnostics functions.
*
*     Revision 1.11  2011/12/20 02:12:26  wniu
*     added a reg defines for 0x820e
*
*     Revision 1.10  2011/12/07 23:05:35  wniu
*     added two more mask defines for AUTONEG_ENABLE and AUTONEG_DONE
*
*     Revision 1.9  2011/12/01 22:31:15  wniu
*     added three mebers vco_freq, pll_divider and oversample_mode into ws structure
*
*     Revision 1.8  2011/11/23 19:44:23  wniu
*     added another defines for getting vertical offset for eyescan
*
*     Revision 1.7  2011/11/09 22:45:30  wniu
*     added many diag eyescan defines for soc layer
*
*     Revision 1.6  2011/11/04 20:29:24  wniu
*     added a new define for low freq PF value override
*
*     Revision 1.5  2011/10/11 01:37:30  wniu
*     added a void pointer in wcmod structure to accommodate the eye-scan
*
*     Revision 1.4  2011/10/05 02:03:42  wniu
*     added two more variables for wcmod structure
*
*     Revision 1.3  2011/10/01 03:15:31  wniu
*     added two more member for tx/rx polarity
*
*     Revision 1.2  2011/09/14 02:17:34  miyarn
*     Keep the build env happy. shut of complaints about missing id, copyright etc
*
*     Revision 1.1  2011/08/15 15:47:57  mlarsen
*     Moved from soc/phy directory.
*
*     Revision 1.7  2011/07/28 22:17:25  wniu
*     added two new variable for HW read and write of the wcmod_st
```

```
*
*     Revision 1.6  2011/06/29 23:50:29  wniu
*     PHY-479 added eye margin stuff into wcmod structure
*
*     Revision 1.5  2011/06/09 23:22:52  wniu
*     sync up with the Irvine database
*
*     Revision 1.59  2011/06/09 17:17:04  ravick
*     incorporated RedStone and TR3 changes
*
*     Revision 1.58  2011/03/22 19:46:25  ravick
*     consistant handles for TAPS + add refclk+plldiv in wcmod_st
*
*     Revision 1.57  2011/03/18 17:59:20  ravick
*     new wcmod (derived from WC-C0)
*
*     Revision 1.56  2011/03/14 23:00:42  prasunp
*     power control defines
*
*     Revision 1.55  2011/03/11 18:54:00  ravick
*     c89 compatibility issues
*
*     Revision 1.54  2011/03/02 21:08:53  ravick
*     *** empty log message ***
*
*     Revision 1.53  2011/02/28 23:42:16  ravick
*     *** empty log message ***
*
*     Revision 1.52  2011/02/15 19:39:49  ravick
*     extended control variables
*     extended control variables
*
*     Revision 1.51  2011/02/14 23:34:47  ravick
*     *** empty log message ***
*
*     Revision 1.50  2011/02/04 22:09:31  ravick
*     removed slash-slash comments
*
*     Revision 1.49  2011/01/28 17:41:00  ravick
*     *** empty log message ***
*
*     Revision 1.48  2011/01/17 23:52:51  ravick
*     redstone changes. Also pcs_bypass_control
*
*     Revision 1.47  2011/01/17 23:09:52  ravick
*     correct typo RX_M1_THESH_ZERO_ON. Documentation cleanup
*
*     Revision 1.46  2010/12/18 00:06:24  aerik
```

```
*     wrote scrambler control function + documentation
*
*     Revision 1.45  2010/12/17 19:35:19  aerik
*     added DFE, VGA to tier1 selector + documentation for lane power control
*
*     Revision 1.44  2010/12/17 03:17:39  aerik
*     added peaking filter tier1
*
*     Revision 1.43  2010/12/17 01:37:51  aerik
*     added dfe functions
*
*     Revision 1.42  2010/12/14 22:42:59  ravick
*     merge prasuns changes
*
*     Revision 1.41  2010/12/11 00:25:04  ravick
*     removed slashslash comments
*
*     Revision 1.40  2010/11/19 23:13:14  ravick
*     use autogeneration of enums on verilog side. chandle, fix diag enums
*
*     Revision 1.39  2010/11/19 16:39:55  ravick
*     *** empty log message ***
*
*     Revision 1.38  2010/11/18 18:14:33  ravick
*     changed lane_num to lane_select
*
*     Revision 1.37  2010/11/08 19:06:18  ravick
*     changes to consolidate address calc.
*
*     Revision 1.36  2010/11/01 20:44:53  aerik
*     patch for 1g gmii in xenia -- changed pll divider ratio
*
*     Revision 1.35  2010/10/26 23:53:55  aerik
*     patch for broadcast address bug + 1G xgmii/sgmii in xenia
*
*     Revision 1.34  2010/10/21 17:20:39  aerik
*     added a div70 macro fro WC B0
*
*     Revision 1.33  2010/10/20 19:45:19  aerik
*     model number updates
*
*     Revision 1.32  2010/10/14 22:18:36  ravick
*     autoneg related changes. Too numerous to type
*
*     Revision 1.31  2010/10/13 22:51:56  ravick
*     changed lane_num to lane_select. Next step is to use enums (currently using
*     numbers)
*     added MULTI_REG type. (must enumize this)
```

```
*
*     Revision 1.30  2010/09/30 22:14:47  ravick
*     diags enum
*
*     Revision 1.29  2010/09/24 22:19:14  aerik
*     added functionality to enable TX with gloop on
*
*     Revision 1.28  2010/09/17 22:11:21  ravick
*     1. script to autogenerate enum files.
*     2. Makefile changes to support above script
*     3. Test vectors changed for new speed modes
*     4. Regression debugged
*     5. WC verif. checkers debugged.
*     6. Documentation enhancements
*     7. Remove redundant functions.
*
*     Revision 1.27  2010/09/16 19:48:56  aerik
*     fixed autoneg function to work with lanes other than 0
*
*     Revision 1.26  2010/09/09 23:04:40  aerik
*     changed Tier2 param from platform_info_type* to wcmod_st*
*
*     Revision 1.25  2010/08/11 23:30:52  aerik
*     added additional Tier2 functions + a return value from the Tier2 configuration selector
*
*     Revision 1.24  2010/08/04 21:20:36  aerik
*     added extra fields to struct wcmod_st to support Triumph3 and Tier2+
*     modifications to support Triumph3 and Tier2+
*
*     Revision 1.23  2010/07/31 01:06:14  aerik
*     adding a dv target
*     updated files for integration with full chip DV environments
*
*     Revision 1.22  2010/07/28 22:20:57  aerik
*     added multi-lane support
*     added multi-lane support
*
*     Revision 1.21  2010/07/15 19:11:46  ravick
*     documentation changes
*
*     Revision 1.20  2010/07/13 19:22:30  aerik
*     generated the wcmod_spd_intf_set enum values from an x-macro definition file
*
*     Revision 1.19  2010/07/09 23:39:09  aerik
*     introduced some constants for use with wcmod_autoneg_control function for improved readability and usage
*
*     Revision 1.18  2010/07/08 22:45:53  aerik
*     added USE_CJPAT and USE_CRPAT #defines for use with the CJPAT/CRPAT function
```

```
*
*     Revision 1.17  2010/07/02 20:18:58  ravick
*     modifed lane_select enum to only do any one lane or all lanes.
*
*     Revision 1.16  2010/07/01 21:13:23  ravick
*     add doxygen target to makefile. Change printfs to display phy_ad
*
*     Revision 1.15  2010/06/28 18:31:20  ravick
*     added reg_read and reg_write functions. Lots of doxygen hooks
*
*     Revision 1.14  2010/06/24 18:46:18  ravick
*     this version of code supports doxygen. runwc fixed to  understand logext
*
*     Revision 1.13  2010/06/16 18:08:39  ravick
*     bcst offset
*
*     Revision 1.12  2010/06/15 21:30:56  ravick
*     AER support for lane access in indep mode
*
*     Revision 1.11  2010/06/07 17:21:25  ravick
*     pass port/lane etc to final drivers
*
*     Revision 1.10  2010/05/26 22:38:38  aerik
*     removed prbs_data and prbs_mask fields
*
*     Revision 1.9  2010/05/25 22:47:51  ravick
*     added wc_touched and other speed modes
*
*     Revision 1.8  2010/05/25 19:13:22  ravick
*     new wcmod interface, removed most of SDK deps. + indep. lane support
*
*     Revision 1.7  2010/05/19 17:43:20  ravick
*     combined checkin with fixes,merges,whathaveyous. PRBS yet to work
*
*     Revision 1.6  2010/05/05 22:41:46  aerik
*     added a few fields to a struct to support DPI calls for prbs
*     added a few fields to support DPI calls for prbs
*
*     Revision 1.5  2010/05/04 15:53:27  ravick
*     added another enum for port_type and changed spd_set to spd_intfc_set
*
*     Revision 1.4  2010/05/03 18:24:36  ravick
*     added port_type, and modified port_mode func....
*
*     Revision 1.3  2010/04/29 16:09:13  ravick
*     remove stop/start type handles. Add en_dis variable. tick/hashdef ENABLE_DISABLE
*
*     Revision 1.2  2010/04/29 10:37:33  ravick
```

```
*      changed PDET_CONTRL to PDET_CONTROL
*      File: wcmod_gloop_combo_1g.vec Status: Locally Modified
*      added per_lane_info
*      File: wcmod_defines.h   Status: Locally Modified
*      added several Tier1 funcs
*      File: wcmod_cfg_seq.c   Status: Locally Modified
*      added selection for several Tier1 funcs
*      File: wcmod_main.c      Status: Locally Modified
*
*      Revision 1.1  2010/04/02 23:17:56  jlouie
*      Initial Version
*
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/include/wcmod_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: simsock.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX SIM Socket client interface
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sbxsim/simsock.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi2Selected_0Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_0Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/fabric.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mirror.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/mirror.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_oamp_pe.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_oamp_pe.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwWredDropNPart2Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart2Entry.c
No license file was found, but licenses were detected in source scan.

/* $Id: dnx_sand_trigger.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_trigger.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmallocator.c,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmallocator.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_sdk_atomics.c,v 1.27.88.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/cint_sdk_atomics.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_integer_arithmetic.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_integer_arithmetic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_integer_arithmetic.h
No license file was found, but licenses were detected in source scan.

/*

```
*  Broadcom Switch API
*
*  Robo L2 Switch API compatible with Strata/XGS Enterprise switch API.
*  OS-Independet API Interface
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.c,v 1.4 2011/09/13 07:23:20 mlarsen Exp $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/swapi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       dnx_sand_ssr.h
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Management/sand_ssr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stk.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Stacking CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/stk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avs.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       avs.c
* Purpose: AVS (Adaptive Voltage Scaling) commands.
* AVS is a power-saving technique of the digital 1.0V supply while maintaining
* performance under various process and operating conditions.
* Commands in this file are provided for AVS algorithm. Also some helper commands
* are also provided for the AVS algorithm verificatiion/validation.
* AVS algorithm commands:
*  avs init : the first command should be invoked to setup the software data
*      and chip specific information for AVS algorithm.
*  avs openloop : read the device otp to get the working voltage and set to the
*      vrm.
*  avs start :(close-loop) perform the predict algorithm to get the converged
*      voltage w/ margin and then set the value to external voltage supply.
*  avs track :(close-loop) perform track algorithm to monitor the ROSC count
*      then adjust the voltage accordingly. Interval value here is used to
*      determine to do the track periodically or just one time.
* AVS helper commands:
*  avs vrm : Add default vrm profile.
*  avs xbmp : Not all the ROSC counts are required for the algorithm
*      calculation to derive the converged voltage. xbmp specify the ROSCs
*      which will be excluded from the algorithm. This command is usually used
*      during the algorithm validation for new chip support.
*  avs CoreVoltage : Set or get the CoreVoltage which is the main voltage
*      supply for the chip.
*  avs margin : Specify the margin value used for the converged method.
*      This command is usually used during the algorithm validation
*      for new chip support.
*  avs vpred : get the predicted voltage according to the specific v1 and v2.
*      This command is usually used during the algorithm validation.
*  avs Count : get the ROSC count.
*      This command is usually used during the algorithm validation.
```

```
*  avs SHow : dump the chip specific avs information.
*  avs PVTmon : get core voltage (0.1 mV), temperature (mC) using pvtmon.
*  avs deinit : release avs related software resources.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/avs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpCrTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpCrTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/stg.c
* Purpose: stg.c BCMX source file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_l3uc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_l3uc.c
* Purpose: Maintains all the debug information for l3uc(layer 3 unicast)
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3uc/trident2_l3uc.c

No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_pkt.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_pkt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 WARM BOOT
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_warm_boot.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_rom_defi_fmf.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fmf.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfHwQe2000QsPriLutEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfHwQe2000QsPriLutEntry.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfHwQe2000QsPriLutEntry.c
No license file was found, but licenses were detected in source scan.

/* PROPRIETARY RIGHTS of Redux Communication are involved in the */

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_ext/utils/memutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains multicast definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
 * $Id: $
 *
 * $Copyright: (c) 2016 Broadcom.
 * Broadcom Proprietary and Confidential. All rights reserved.$
 *
 * File:       field_grp.c
 * Purpose:    BCM56960 Field Processor Group management functions.
 */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field_grp.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_lif_ing_vlan_edit.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_lif_ing_vlan_edit.h
*
* MODULE PREFIX:  soc_ppd_lif
```

```
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_lif_ing_vlan_edit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2xmsg.c,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l2xmsg.c
* Purpose: Provide a reliable stream of L2 insert/delete messages.
*
* This module monitors the L2X table for changes and performs callbacks
* for each insert, delete, or port movement that is detected.
*
* There is a time lag from the actual table change to the callback
* because the l2xmsg task scans the L2X table only periodically.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/l2xmsg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: l3.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  ipmc.c
* Purpose:  Tracks and manages IPMC tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_mact_mgmt.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_mact_mgmt.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_mact_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_stubs.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_stubs.c
* Purpose:     portability stub definitions
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_stubs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rcpu.c,v 1.123 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Remote CPU module for XGS devices.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/rcpu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_trap.c,$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file provides rx basic functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_rx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap21v_tgs.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap21v_tgs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/debug.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/debug.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_debug.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_debug.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-48g.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 48x1G setup
#
ddr3_auto_tune=0
load_firmware=1
#lrp_bypass=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_port.port48.0=xtport2.ge.0.11:clport1.hg25.1.23
ucode_port.port47.0=xtport2.ge.0.10:clport1.hg25.1.22
ucode_port.port46.0=xtport2.ge.0.9:clport1.hg25.1.21
ucode_port.port45.0=xtport2.ge.0.8:clport1.hg25.1.20
ucode_port.port44.0=xtport2.ge.0.7:clport1.hg25.1.19
ucode_port.port43.0=xtport2.ge.0.6:clport1.hg25.1.18
ucode_port.port42.0=xtport2.ge.0.5:clport1.hg25.1.17
ucode_port.port41.0=xtport2.ge.0.4:clport1.hg25.1.16
ucode_port.port40.0=xtport2.ge.0.3:clport1.hg25.1.15
ucode_port.port39.0=xtport2.ge.0.2:clport1.hg25.1.14
ucode_port.port38.0=xtport2.ge.0.1:clport1.hg25.1.13
ucode_port.port37.0=xtport2.ge.0.0:clport1.hg25.1.12
ucode_port.port36.0=xtport1.ge.0.11:clport1.hg25.1.11
ucode_port.port35.0=xtport1.ge.0.10:clport1.hg25.1.10
ucode_port.port34.0=xtport1.ge.0.9:clport1.hg25.1.9
ucode_port.port33.0=xtport1.ge.0.8:clport1.hg25.1.8
ucode_port.port32.0=xtport1.ge.0.7:clport1.hg25.1.7
ucode_port.port31.0=xtport1.ge.0.6:clport1.hg25.1.6
ucode_port.port30.0=xtport1.ge.0.5:clport1.hg25.1.5
```

```
ucode_port.port29.0=xtport1.ge.0.4:clport1.hg25.1.4
ucode_port.port28.0=xtport1.ge.0.3:clport1.hg25.1.3
ucode_port.port27.0=xtport1.ge.0.2:clport1.hg25.1.2
ucode_port.port26.0=xtport1.ge.0.1:clport1.hg25.1.1
ucode_port.port25.0=xtport1.ge.0.0:clport1.hg25.1.0
ucode_port.port24.0=xtport0.ge.0.11:clport1.hg25.0.23
ucode_port.port23.0=xtport0.ge.0.10:clport1.hg25.0.22
ucode_port.port22.0=xtport0.ge.0.9:clport1.hg25.0.21
ucode_port.port21.0=xtport0.ge.0.8:clport1.hg25.0.20
ucode_port.port20.0=xtport0.ge.0.7:clport1.hg25.0.19
ucode_port.port19.0=xtport0.ge.0.6:clport1.hg25.0.18
ucode_port.port18.0=xtport0.ge.0.5:clport1.hg25.0.17
ucode_port.port17.0=xtport0.ge.0.4:clport1.hg25.0.16
ucode_port.port16.0=xtport0.ge.0.3:clport1.hg25.0.15
ucode_port.port15.0=xtport0.ge.0.2:clport1.hg25.0.14
ucode_port.port14.0=xtport0.ge.0.1:clport1.hg25.0.13
ucode_port.port13.0=xtport0.ge.0.0:clport1.hg25.0.12
ucode_port.port12.0=clport0.ge.0.11:clport1.hg25.0.11
ucode_port.port11.0=clport0.ge.0.10:clport1.hg25.0.10
ucode_port.port10.0=clport0.ge.0.9:clport1.hg25.0.9
ucode_port.port9.0=clport0.ge.0.8:clport1.hg25.0.8
ucode_port.port8.0=clport0.ge.0.7:clport1.hg25.0.7
ucode_port.port7.0=clport0.ge.0.6:clport1.hg25.0.6
ucode_port.port6.0=clport0.ge.0.5:clport1.hg25.0.5
ucode_port.port5.0=clport0.ge.0.4:clport1.hg25.0.4
ucode_port.port4.0=clport0.ge.0.3:clport1.hg25.0.3
ucode_port.port3.0=clport0.ge.0.2:clport1.hg25.0.2
ucode_port.port2.0=clport0.ge.0.1:clport1.hg25.0.1
ucode_port.port1.0=clport0.ge.0.0:clport1.hg25.0.0
ucode_num_ports.0=48



higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg1=1

#lrp_bypass=1
load_firmware=2

xgxs_rx_lane_map_ge0=0x1032
xgxs_rx_lane_map_ge8=0x1032
xgxs_rx_lane_map_ge16=0x3210
xgxs_rx_lane_map_ge24=0x3210
xgxs_rx_lane_map_ge32=0x1032
xgxs_rx_lane_map_ge40=0x1032

xgxs_tx_lane_map_ge0=0x3210
xgxs_tx_lane_map_ge7=0x3210
```

```
xgxs_tx_lane_map_ge16=0x1032
xgxs_tx_lane_map_ge24=0x1032
xgxs_tx_lane_map_ge32=0x3210
xgxs_tx_lane_map_ge40=0x3210

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0001
phy_xaui_rx_polarity_flip_ge11=0x0001

phy_xaui_rx_polarity_flip_ge12=0x0001
phy_xaui_rx_polarity_flip_ge13=0x0001
phy_xaui_rx_polarity_flip_ge14=0x0001
phy_xaui_rx_polarity_flip_ge15=0x0001
phy_xaui_rx_polarity_flip_ge16=0x0001
phy_xaui_rx_polarity_flip_ge17=0x0001
phy_xaui_rx_polarity_flip_ge18=0x0001
phy_xaui_rx_polarity_flip_ge19=0x0001
phy_xaui_rx_polarity_flip_ge20=0x0001
phy_xaui_rx_polarity_flip_ge21=0x0001
phy_xaui_rx_polarity_flip_ge22=0x0001
phy_xaui_rx_polarity_flip_ge23=0x0001

phy_xaui_rx_polarity_flip_ge24=0x0001
phy_xaui_rx_polarity_flip_ge25=0x0001
phy_xaui_rx_polarity_flip_ge26=0x0001
phy_xaui_rx_polarity_flip_ge27=0x0001
phy_xaui_rx_polarity_flip_ge28=0x0001
phy_xaui_rx_polarity_flip_ge29=0x0001
phy_xaui_rx_polarity_flip_ge30=0x0001
phy_xaui_rx_polarity_flip_ge31=0x0001
```

```
phy_xaui_rx_polarity_flip_ge32=0x0001
phy_xaui_rx_polarity_flip_ge33=0x0001
phy_xaui_rx_polarity_flip_ge34=0x0001
phy_xaui_rx_polarity_flip_ge35=0x0001

phy_xaui_rx_polarity_flip_ge36=0x0001
phy_xaui_rx_polarity_flip_ge37=0x0001
phy_xaui_rx_polarity_flip_ge38=0x0001
phy_xaui_rx_polarity_flip_ge39=0x0001
phy_xaui_rx_polarity_flip_ge40=0x0001
phy_xaui_rx_polarity_flip_ge41=0x0001
phy_xaui_rx_polarity_flip_ge42=0x0001
phy_xaui_rx_polarity_flip_ge43=0x0001
phy_xaui_rx_polarity_flip_ge44=0x0001
phy_xaui_rx_polarity_flip_ge45=0x0001
phy_xaui_rx_polarity_flip_ge46=0x0001
phy_xaui_rx_polarity_flip_ge47=0x0001


phy_fiber_pref_ge0=1
phy_fiber_pref_ge1=1

phy_fiber_pref_ge2=1
phy_fiber_pref_ge3=1
phy_fiber_pref_ge4=1
phy_fiber_pref_ge5=1
phy_fiber_pref_ge6=1
phy_fiber_pref_ge7=1
phy_fiber_pref_ge8=1
phy_fiber_pref_ge9=1
phy_fiber_pref_ge10=1
phy_fiber_pref_ge11=1
phy_fiber_pref_ge12=1
phy_fiber_pref_ge13=1
phy_fiber_pref_ge14=1
phy_fiber_pref_ge15=1
phy_fiber_pref_ge16=1
phy_fiber_pref_ge17=1
phy_fiber_pref_ge18=1
phy_fiber_pref_ge19=1
phy_fiber_pref_ge20=1
phy_fiber_pref_ge21=1
phy_fiber_pref_ge22=1
phy_fiber_pref_ge23=1
phy_fiber_pref_ge24=1
phy_fiber_pref_ge25=1
phy_fiber_pref_ge26=1
phy_fiber_pref_ge27=1
```

phy_fiber_pref_ge28=1
phy_fiber_pref_ge29=1
phy_fiber_pref_ge30=1
phy_fiber_pref_ge31=1
phy_fiber_pref_ge32=1
phy_fiber_pref_ge33=1
phy_fiber_pref_ge34=1
phy_fiber_pref_ge35=1
phy_fiber_pref_ge36=1
phy_fiber_pref_ge37=1
phy_fiber_pref_ge38=1
phy_fiber_pref_ge39=1
phy_fiber_pref_ge40=1
phy_fiber_pref_ge41=1
phy_fiber_pref_ge42=1
phy_fiber_pref_ge43=1
phy_fiber_pref_ge44=1
phy_fiber_pref_ge45=1
phy_fiber_pref_ge46=1
phy_fiber_pref_ge47=1

phy_automedium_ge1=1
phy_automedium_ge0=1
phy_automedium_ge2=1
phy_automedium_ge3=1
phy_automedium_ge4=1
phy_automedium_ge5=1
phy_automedium_ge6=1
phy_automedium_ge7=1
phy_automedium_ge8=1
phy_automedium_ge9=1
phy_automedium_ge10=1
phy_automedium_ge11=1
phy_automedium_ge12=1
phy_automedium_ge13=1
phy_automedium_ge14=1
phy_automedium_ge15=1
phy_automedium_ge16=1
phy_automedium_ge17=1
phy_automedium_ge18=1
phy_automedium_ge19=1
phy_automedium_ge20=1
phy_automedium_ge21=1
phy_automedium_ge22=1
phy_automedium_ge23=1
phy_automedium_ge24=1
phy_automedium_ge25=1
phy_automedium_ge26=1

phy_automedium_ge27=1
phy_automedium_ge28=1
phy_automedium_ge29=1
phy_automedium_ge30=1
phy_automedium_ge31=1
phy_automedium_ge32=1
phy_automedium_ge33=1
phy_automedium_ge34=1
phy_automedium_ge35=1
phy_automedium_ge36=1
phy_automedium_ge37=1
phy_automedium_ge38=1
phy_automedium_ge39=1
phy_automedium_ge40=1
phy_automedium_ge41=1
phy_automedium_ge42=1
phy_automedium_ge43=1
phy_automedium_ge44=1
phy_automedium_ge45=1
phy_automedium_ge46=1
phy_automedium_ge47=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004
phy_port_primary_and_offset_ge5=0x0005
phy_port_primary_and_offset_ge6=0x0006
phy_port_primary_and_offset_ge7=0x0007
phy_port_primary_and_offset_ge8=0x0800
phy_port_primary_and_offset_ge9=0x0801
phy_port_primary_and_offset_ge10=0x0802
phy_port_primary_and_offset_ge11=0x0803
phy_port_primary_and_offset_ge12=0x0804
phy_port_primary_and_offset_ge13=0x0805
phy_port_primary_and_offset_ge14=0x0806
phy_port_primary_and_offset_ge15=0x0807
phy_port_primary_and_offset_ge16=0x1000
phy_port_primary_and_offset_ge17=0x1001
phy_port_primary_and_offset_ge18=0x1002
phy_port_primary_and_offset_ge19=0x1003
phy_port_primary_and_offset_ge20=0x1004
phy_port_primary_and_offset_ge21=0x1005
phy_port_primary_and_offset_ge22=0x1006
phy_port_primary_and_offset_ge23=0x1007
phy_port_primary_and_offset_ge24=0x1800
phy_port_primary_and_offset_ge25=0x1801
phy_port_primary_and_offset_ge26=0x1802

```
phy_port_primary_and_offset_ge27=0x1803
phy_port_primary_and_offset_ge28=0x1804
phy_port_primary_and_offset_ge29=0x1805
phy_port_primary_and_offset_ge30=0x1806
phy_port_primary_and_offset_ge31=0x1807
phy_port_primary_and_offset_ge32=0x2000
phy_port_primary_and_offset_ge33=0x2001
phy_port_primary_and_offset_ge34=0x2002
phy_port_primary_and_offset_ge35=0x2003
phy_port_primary_and_offset_ge36=0x2004
phy_port_primary_and_offset_ge37=0x2005
phy_port_primary_and_offset_ge38=0x2006
phy_port_primary_and_offset_ge39=0x2007
phy_port_primary_and_offset_ge40=0x2800
phy_port_primary_and_offset_ge41=0x2801
phy_port_primary_and_offset_ge42=0x2802
phy_port_primary_and_offset_ge43=0x2803
phy_port_primary_and_offset_ge44=0x2804
phy_port_primary_and_offset_ge45=0x2805
phy_port_primary_and_offset_ge46=0x2806
phy_port_primary_and_offset_ge47=0x2807

#C3 Fabric side 2xHG[42]
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_hg1=0x3210

xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_hg1=0x3210

ddr3_tune_addrc_ci14=0x000000b5
ddr3_tune_wr_dq_wl1_ci14=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci14=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x0000079e
ddr3_tune_rd_dqs_ci14=0x9a9a9898,0x97979a9a
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rn_ci14=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rp_ci14=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00999999,0x009b9c9b
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b5
ddr3_tune_wr_dq_wl1_ci12=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci12=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x99999999,0x9a9a9898
ddr3_tune_rd_dq_wl1_rn_ci12=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
```

ddr3_tune_rd_dq_wl0_rn_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009c9c9d,0x00989997
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000b2
ddr3_tune_wr_dq_wl1_ci10=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci10=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x0000079e
ddr3_tune_rd_dqs_ci10=0x97979a9a,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10=0x00a6a6a6,0x00a2a4a1
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b4
ddr3_tune_wr_dq_wl1_ci8=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9595,0x97979999
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci8=0x00999a98,0x009d9e9d
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b5
ddr3_tune_wr_dq_wl1_ci6=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x000007df
ddr3_tune_rd_dqs_ci6=0x99999696,0x9b9b9999
ddr3_tune_rd_dq_wl1_rn_ci6=0x8a8a8a8a,0x8a8a8a8a,0x8e8e8e8e,0x8e8e8e8e
ddr3_tune_rd_dq_wl0_rn_ci6=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6=0x8a8a8a8a,0x8a8a8a8a,0x8e8e8e8e,0x8e8e8e8e
ddr3_tune_rd_dq_wl0_rp_ci6=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci6=0x009b9c9b,0x00989997
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b5
ddr3_tune_wr_dq_wl1_ci4=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci4=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x97979999,0x99999898
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b

ddr3_tune_rd_dq_wl0_rn_ci4=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci4=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci4=0x009e9e9f,0x009b9d9a
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b5
ddr3_tune_wr_dq_wl1_ci2=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci2=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x0000079e
ddr3_tune_rd_dqs_ci2=0x98989999,0x9b9b9a9a
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci2=0x00a3a3a3,0x00a7a9a6
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b5
ddr3_tune_wr_dq_wl1_ci0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_wl0_ci0=0x97979797,0x97979797,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x0000079e
ddr3_tune_rd_dqs_ci0=0x94949595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a5a5a6,0x00a1a2a1
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-48x1g-2xhg25.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_vswitch_cross_connect_p2p.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_cross_connect_p2p.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_cross_connect_p2p_directional.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_intr_corr_act_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header correction action functions for ramonicho interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_intr_corr_act_func.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_nif.h,v 1.47 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_nif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: timesync.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Timesync Configurations
* Purpose: API to set and get timesync config profiles for port.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/timesync.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipmc_flows.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_ipmc_flows.c
* Purpose: Example of various IPMC flows.
*
*
*       -----------------------                   ------------------                -------------------------
*       |  bcmSwitchL3McastL2==1 |  <-- NO  <--------| RIF.IPMC enable? |------> YES --->|
ipmc_vpn_lookup_enable |
*       -----------------------                   ------------------                -------------------------
```

```
*                |                                                        |
*                |                                                        |
*                |                                                        |
*                |                                                        |
*       ---NO------- -------YES---                                        ---NO------- -------YES---
*       |                    |                                      |                    |
*       |                    |                                      |                    |
*   -----------             --------------------                        --------------------      --------------------
*  |LEM<FID,DA>|            | LEM<FID,DIP>      |                        | TCAM<RIF,DIP,SIP> |     |
TCAM<RIF,DIP,SIP> |
*   -----------             |TCAM<FID,DIP,SIP>(optional in A+)                | LEM<RIF,DIP,SIP>  |     |
LEM<VRF,DIP>  |
*                           --------------------                        --------------------      --------------------
*       |                    |                                       |                    |
*       |       Hit?           |                                       |                    |
*        -------------------------                                          |                    |
*                |                                                      |                    |
*                |                                                       -------------------------
*                |                                                                  |
*       ---NO-------  -------YES---                                                  |  Hit?
*       |                    |                                                  |
*       |                    |                                      ---NO--------- ---------YES----
*   ------------             -------------                                  |                        |
*  |L2-FLOODING |            |L2-FORWARDING|                                 |                        |
*  |   ON VSI   |             -------------                        ----------------------------------        --------------
*   ------------                                                  |bcmSwitchUnknownIpmcAsMcast == 1|       |L3-
FORWARDING|
*                                                            ----------------------------------        --------------
*                                                                       |
*                                                                       |
*                                                             ---NO------- -------YES---
*                                                             |                    |
*                                                             |                    |
*                                                             |                    |
*                                                           -------------            ------------
*                                                          |L3-FORWARDING|          |L2-FLOODING |
*                                                          | VRF DEFAULT |          |   ON VSI   |
*                                                           -------------            ------------
*
*
*
*  Abstract:
*
*  When an IPv4oE packet arrives at the ingress with multicast-compatible destination address (that is,
*  DA[47:23]=={24'h01_00_5E, 1'b0} and Ethernet-Header.DA[22:0] = IP-Header.DIP[22:0] or IPHeader-
DIP[31:28] = to 4'hE)
*  , one of two main flows take place, according to whether RIF.IPMC is enabled.
*  The flow in which RIF.IPMC is enabled is exemplified in the function ipmc_flows_rif_ipmc_enabled.
```

```
*  The flow in which RIF.IPMC is disabled is exemplified in the function ipmc_flows_rif_ipmc_disabled.
*
*  Each function exemplifies sub flows of these two main flows. Each sub flow is defined in a matching
*  section which also determines a possible traffic flow of a packet.
*  Each function's header contains exact information required to understand each sub flow and send
*  a packet according to the sub-flow's stipulations.
*
*
*  We present a pre-configuration for ipmc_flows_rif_ipmc_disabled(), after which we can send traffic
*  according to sub-flows in this flow. The sub flows are presented in the preamble of the function, each one
*  exemplified by certain packet sending and receiving.
*
*  BCM> cint cint_ipmc_flows.c
*  BCM> cint
*  cint> int rv;
*  cint> int inP = 200;
*  cint> int outP = 201;
*  cint> int outP2 = 202;
*  cint> int outP3= 203;
*  cint> int vid1 = 4000;
*  cint> int vid2 = 4001;
*  cint> int vid3 = 4002;
*  cint> int vid4 = 4003;
*  cint> rv = ipmc_flows_rif_ipmc_disabled(unit, inP, outP,outP2 ,outP3 ,vid1, vid2, vid3, vid4);
*
* Packet sending for ipmc_flows_rif_ipmc_disabled():
*
* 1. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,vid1);
*    Then, send packet with : src_mac: 00:02:05:00:00:00    dst_mac :01:00:5E:00:01:02    src_ip: 0xc0a8000b
(192.168.0.11)    dst_ip: 0xe0000102 (224.0.1.2).
*    Expect it to be forwarded to ports outP, outP2, outP3, with vid == 4000; src_mac, dst_mac, src_ip, dst_ip
without change.
*
* 1.1. Valid only in ARAD+ and in case SOC property "ipmc_l2_ssm_mode=1".
*      Include 3 types of scenarios in SSM:  1. (*,G) forwarding   2. (S,G) forwarding  3. (S,G) drop
*      Send packet with : src_mac: 00:02:05:00:00:00    dst_mac :01:00:5E:00:01:02    src_ip: 0xc0a8000f
(192.168.0.15)    dst_ip: 0xe0000102 (224.0.1.2).
*      Expect it to be forwarded to ports outP, outP2, outP3, with vid == 4001; src_mac, dst_mac, src_ip, dst_ip
without change.
*      Send packet with : src_mac: 00:02:05:00:00:00    dst_mac :01:00:5E:00:01:02    src_ip: 0xc0a8000e
(192.168.0.14)    dst_ip: 0xe0000102 (224.0.1.2).
*      Expect it to be dropped;
*
*
* 2. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,vid2);
*                cint> switch_control_set(unit,bcmSwitchL3McastL2,0);
*    Then, send packet with: src_mac: 00:02:05:00:00:01    dst_mac :01:00:5E:00:01:03    src_ip: 0xc0a8000c
(192.168.0.12)    dst_ip: 0xe0000103 (224.0.1.3).
```

```
*    Expect it to be forwarded to ports outP, outP2, outP3, with vid == 4001; src_mac, dst_mac, src_ip, dst_ip
without change.
*
* 3. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,vid3);
*                  cint> switch_control_set(unit,bcmSwitchL3McastL2,1);
*    Then, send packet with: src_mac: 00:02:05:00:00:02    dst_mac :01:00:5E:00:01:04    src_ip: 0xc0a8000d
(192.168.0.13)    dst_ip: 0xe0000104 (224.0.1.4).
*    Expect it to be forwarded to ports outP, outP2, outP3, with vid == 4002; src_mac, dst_mac, src_ip, dst_ip
without change.
*
* 4. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,vid4);
*                  cint> switch_control_set(unit,bcmSwitchL3McastL2,0);
*    Then, send packet with: src_mac: 00:02:05:00:00:03    dst_mac :01:00:5E:00:01:05    src_ip: 0xc0a8000e
(192.168.0.14)    dst_ip: 0xe0000105 (224.0.1.5).
*    Expect it to be flooded to ports outP, outP2, with vid == 4003; src_mac, dst_mac, src_ip, dst_ip without change.
*
*
*  We present a pre-configuration for ipmc_flows_rif_ipmc_enabled(), after which we can send traffic
*  according to sub-flows in this flow. The sub flows are presented in the preamble of the function, each one
*  exemplified by certain packet sending and receiving.
*
*  BCM> cint cint_ipmc_flows.c
*  BCM> cint
*  cint> int rv;
*  cint> int inP = 200;
*  cint> int outP = 201;
*  cint> int outP2 = 202;
*  cint> int outP3= 203;
*  cint> int rif1 = 4000;
*  cint> int rif2 = 4001;
*  cint> int rif3 = 4002;
*  cint> int rif4 = 4003;
*  cint> int rif5 = 4009;
*  cint> int vlan = 4005;
*  cint> rv = ipmc_flows_rif_ipmc_enabled(unit, inP, outP,outP2 ,outP3 , rif1, rif2, rif3, rif4, rif5, vlan);
*
* Packet sending for ipmc_flows_rif_ipmc_enabled():
*
* 1. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,rif1);
*    If ipmc_vpn_lookup_enable ==1, then, send packet with : src_mac: 00:02:05:00:00:00    dst_mac
:01:00:5E:00:01:02    src_ip: 0xc0a8000b (192.168.0.11)    dst_ip: 0xe0000102 (224.0.1.2)
*    Otherwise(ipmc_vpn_lookup_enable==0), Then, send packet with : src_mac: 00:02:05:00:00:00    dst_mac
:01:00:5E:00:01:02    src_ip: 0xc0a8000b (192.168.0.13)    dst_ip: 0xe0000102 (224.0.1.4)
*    Both them expect to be forwarded to ports outP, outP2, outP3, with vid == 4000; src_mac, dst_mac, src_ip,
dst_ip without change.
*
* 2. First type :  cint> bcm_port_untagged_vlan_set(unit,inP,rif2);
*    Then, send packet with: src_mac: 00:02:05:00:00:01    dst_mac :01:00:5E:00:01:03    src_ip: 0xc0a8000c
```

(192.168.0.12) dst_ip: 0xe0000103 (224.0.1.3).
* Expect it to be forwarded to ports outP, outP2, with vid == 4001; src_mac, dst_mac, src_ip, dst_ip without change.
*
* 3. First type : cint> bcm_port_untagged_vlan_set(unit,inP,rif3);
* Then, send packet with: src_mac: 00:02:05:00:00:01 dst_mac :01:00:5E:00:01:03 src_ip: 0xc0a8000d (192.168.0.13) dst_ip: 0xe0000103 (224.0.1.3).
* Expect it to be forwarded to ports outP2, outP3, with vid == 4002; src_mac, dst_mac, src_ip, dst_ip without change.
*
* 4. First type : cint> bcm_port_untagged_vlan_set(unit,inP,rif4);
* If ipmc_vpn_lookup_enable ==1, then, send packet with: src_mac: 00:02:05:00:00:00 dst_mac :01:00:5E:00:01:02 src_ip: 0xc0a8000b (192.168.0.11) dst_ip: 0xe0000102 (224.0.1.2).
* Otherwise(ipmc_vpn_lookup_enable==0), then, send packet with : src_mac: 00:02:05:00:00:00 dst_mac :01:00:5E:00:01:02 src_ip: 0xc0a8000e (192.168.0.14) dst_ip: 0xe0000102 (224.0.1.5)
* Expect it to be forwarded to ports outP, outP3, with vid == 4003; src_mac, dst_mac, src_ip, dst_ip without change.
*
* 5. First type : cint> bcm_port_untagged_vlan_set(unit,inP,vlan);
* Then, send packet with: src_mac: 00:02:05:00:00:02 dst_mac :01:00:5E:00:01:04 src_ip: 0xc0a8000d (192.168.0.13) dst_ip: 0xe0000104 (224.0.1.4).
* Expect it to be flooded to ports outP, outP2, with vid == 4005; src_mac, dst_mac, src_ip, dst_ip without change.
*
* 6. First type : cint> bcm_port_untagged_vlan_set(unit,inP,rif5);
* cint> switch_control_set(unit,bcmSwitchUnknownIpmcAsMcast,0);
* Then, send packet with: src_mac: 00:02:05:00:00:02 dst_mac :01:00:5E:00:01:04 src_ip: 0xc0a8000e (192.168.0.14) dst_ip: 0xe0000105 (224.0.1.5).
* Expect it to be forwarded to ports outP, outP2, with vid == 4009; src_mac, dst_mac, src_ip, dst_ip without change.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipmc_flows.c
No license file was found, but licenses were detected in source scan.

/**
* @file sbQe2000ElibVersion.h
*
* <pre>
* ==========
* == sbQe2000ElibVersion.h - ELib Version Header ==
* ==========
*
* WORKING REVISION: $Id: sbQe2000ElibVersion.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* MODULE NAME:
*
*     sbQe2000ElibVersion.h
*
* ABSTRACT:
*
*     Strings for ELib version
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     01-December-2004
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000ElibVersion.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon16_tsc_access.c                                    *
*  Created On    :  03 Nov 2015                                              *
*  Created By    :  Brent Roberts                                            *
*  Description   :  APIs for Serdes IPs                                      *
*  Revision      :   *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
```

```
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_access.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_multicast_ingress.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_multicast_ingress.c
*
* MODULE PREFIX:  soc_jer2_tmcmult_ing
*
* FILE DESCRIPTION: refer to H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_multicast_ingress.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Fundamental constants relating to IP Protocol
*
* $Id: bcmip.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/proto/bcmip.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: multicast.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: chip.c
* Purpose: Chip driver table defined
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/chip.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log FIle Sink
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bslfile.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fe600_bsp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fe600_bsp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ledproc.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  ledproc.c
* Purpose:  LED Processor Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ledproc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* QoS module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/qos.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bhh_sdk_pack.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bhh_sdk_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
*     'Field Processor' (FP) API for Dune Soc_petra using PPD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_lm_dm_pkt.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        eth_lm_dm_pkt.h
* Purpose:     ETH_LM_DM Packet Format definitions
*              common to SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/eth_lm_dm_pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_modid_local_map.h,v 1.3 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF MODID LOCAL MAP H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/dnxf_modid_local_map.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_tsc_fields_public.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for FALCON_TSC                              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/public/falcon_tsc_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_prbs.c,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Running PRBS
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/cint_prbs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_diag.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPTConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPTConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.581 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:    BCM56504 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2u.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2u.h
```

```
* Purpose:     XGS3 L2 User table manipulation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/l2u.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_status.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC STATUS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_status.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_appl_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_intr_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_qax_multicast_imp.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*
* Fabric and Higig related CLI commands
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/fabric.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: qos.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* QoS implementation for caladan3
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/qos.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_dhrp_api.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_dhrp_api.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: safc.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: safc.h
* Purpose: SAFC board programming interfaces
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/safc.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: mbcm.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_pon_multicast.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_multicast.c
*
* Purpose: An example of how to use BCM APIs to implement multicast function.
*          There are 2 multicast group, one is for unknown-uc, unknown-mc and bc.
*          Another is for known-mc.
*
* PP model:
*     PON Port 1  <-------------------------------->  VSI  <---> NNI Port 128
*     Pon 1 Tunnel-ID 100 clvan 2000 --------------------|---4096  |----------- CVLAN 100
*     Pon 1 Tunnel-ID 101 clvan 2001 --------------------|
*
*     Pon 1 Tunnel-ID 1000 multicast vlan 4001 ------ ---|---4097  |----------- multicast vlan 4001
*
*
* Calling sequence:
*
* Initialization:
*
* To Activate Above Settings:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/pon/cint_pon_utils.c
*      BCM> cint examples/dpp/pon/cint_pon_multicast.c
*      BCM> cint
*      cint>
*      cint> print pon_mc_app(unit, pon1, nni1, nni2);
*      cint> print pon_mc_group_create(unit);
*      cint> print pon_join_group(unit, port, gport);
*      cint> print pon_leave_group(unit, port, gport);
* To clean all above configuration:
```

```
*      cint> print pon_leave_group(unit, port, gport);
*      cint> print pon_mc_app_clean(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hl65.c,v 1.166 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        hl65.c
* Purpose:     Broadcom 10/100/1000/2500/10000/12000/13000/16000/20000 SerDes
*              (HyperLite 65nm with x1 and x4 lane support)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/hl65.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_tsc_debug_functions.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_debug_functions.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk2.h,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tomahawk2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tomahawk2.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_tcam.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_tmcapi_tcam.h
*
* MODULE PREFIX:  soc_ppc_tcam
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_tcam.h
No license file was found, but licenses were detected in source scan.

```
/*
* local version of endian.h - byte order defines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  $Id: bcmendian.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmendian.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: eagle2_tsc2pll_enum.h 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       jer2_jer_link.c
* Purpose:     Hardware Linkscan module
*
* These routines will be called by the linkscan module,
* so they need to be defined and return SOC_E_NONE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_link.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_jer2_jer2_tmc_api_cnm.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_cnm.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fabric.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/fabric.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_port.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_port.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: lb_util.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utilities for Loopback Tests
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/lb_util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.10.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     trunk.c
* Purpose:  BCMX trunking commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_fabric_cell.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_pkt.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_unit/sbx_pkt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_parse.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based printing and parsing functions
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gex_service.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/gex_service.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ? $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_e.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_e.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_c.stg,v 1.24 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_cop.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_cop.c
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
#* $Id: xfi_10g_pmd_gloop_10p3125.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*----------------------------------------------------------------------
#* File       : an_10g.soc
#* Description: an_10g
#*----------------------------------------------------------------------*/

link off
phy xe0 0x2c050 0x001c
phy xe1 0x2c050 0x001c

port xe0,xe1 adv=1000full an=t

phy xe0 0x2c180 0x0000
phy xe1 0x2c180 0x0000
phy xe0 0x2c186 0x08
phy xe1 0x2c186 0x08
phy xe0 0x2c185 0xa01
phy xe1 0x2c185 0xa01

phy xe 0x9258 0x1200
```

```
#phy xe0 0x802d080 0x8008
#phy xe1 0x802d080 0x8008

#phy xe0 0x9000 0x6600
#phy xe1 0x9000 0x6600
phy xe0 0x9000 0x6208
phy xe1 0x9000 0x6208

phy xe0 0x2c180 0x0000
phy xe1 0x2c180 0x0000
phy xe0 0x2c180 0x0100
phy xe1 0x2c180 0x0100

phy xe0 0x2c180 0x0101
phy xe1 0x2c180 0x0101
phy xe0 0x2c180 0x0100
phy xe1 0x2c180 0x0100
#phy xe0 0x2c054
#phy xe0 0x2c1ad
#phy xe1 0x2c054
#phy xe1 0x2c1ad
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/an_10g.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: AlarmProcess.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     AlarmProcess.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/AlarmProcess.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alpm_trie_v6.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    trie_v6.c
* Purpose: Custom Trie Data structure
```

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/alpm_trie_v6.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_rx_no_cos.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_no_cos.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_api_ssr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_ssr.c
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_api_ssr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgTmePortRemapAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgTmePortRemapAddrConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaPmLastLineConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaPmLastLineConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_framework.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_framework.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm56820_a0.c
* Purpose: bcm56820_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56820_a0.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: rx_pool.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx_pool.c
* Purpose:     Receive packet pool code
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/rx_pool.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sandHalFrameHwQe2000FMVT.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/**
* @file hwQe2000FMVT.zf
*
* <pre>
*
* ==============================================================================
* ==  hwQe2000FMVT.h - Multicast Vector Table Entry ZFrame ==
* ==============================================================================
*
* WORKING REVISION: $Id
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     hwQe2000FMVT.h
```

```
*
* ABSTRACT:
*
*     Multicast Vector Table Entry ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Smith
*
* CREATION DATE:
*
*     8/11/05
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sandHalFrameHwQe2000FMVT.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_engine.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/wb_engine.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.h,v 1.110 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socregs.c is missing some information about tables, including the
* minimum and maximum indices, a user-friendly names for the tables,
* and table descriptions.  socmem_info_t is a parallel structure
* indexed by soc_mem_t that contains this information.
*
* CBP memory consists of the tables MMU_MEMORIES1_xx, which are of
* varying lengths and widths, and the transaction queue memories
```

```
* MMU_MEMORIES2_xx.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_sr_cell.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DCMN send \ receive SR cell example:
*
* The example simulate:
*  1. define single route and send  sr cell to this route
*  2. define route group and cell sr cell to the group
*  3. receive sr cells
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/cint_sr_cell.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=6

# 4 10g XE Ports Running in Independent Lane Mode
# WC0
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3

# WC1
ucode_port.port5.0=clport0.xaui.1.0:clport1.hg126.0.4
```

```
# WC2
ucode_port.port6.0=clport0.xaui.2.0:clport1.hg126.0.5


higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1




xgxs_rx_lane_map_xe0=0x1230

xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe5=0x1230


xgxs_tx_lane_map_xe0=0x1032

xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe5=0x1032



phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_rx_polarity_flip_xe4=0x000f

phy_xaui_rx_polarity_flip_xe5=0x000b



phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000

phy_xaui_tx_polarity_flip_xe4=0x000f

phy_xaui_tx_polarity_flip_xe5=0x000c
```

```
#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110


# ??? Not included in Trupti's but is in Vinodh's

#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode


ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci4.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dqs_ci8.0=0x99999797,0x97979292
```

ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_en_ci10.0=0x00a2a4a0,0x009da09b
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x98989797
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci2.0=0x009d9e9c,0x00a0a39d
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_addrc_ci10.0=0x000000af
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a9a9a,0x00969894
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci12.0=0x96969292,0x97979797
ddr3_tune_rd_dqs_ci0.0=0x92929a9a,0x99999797
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4.0=0x009a9a9b,0x00989a96
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292

ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_data_dly_ci0=0x00000404
ddr3_tune_vref_ci14.0=0x000007df
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989998,0x009a9d98
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci14.0=0x98989a9a,0x9a9a9797
ddr3_tune_rd_dqs_ci2.0=0x98989797,0x98989797
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x0000079e
ddr3_tune_addrc_ci2.0=0x000000af
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_addrc_ci0=0x000000b2

ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_wr_dq_wl1_ci14.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_rd_dqs_ci4.0=0x97979797,0x9a9a9999
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci8.0=0x00969697,0x00999b97
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_addrc_ci4.0=0x000000b0
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_wr_dq_wl0_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_addrc_ci8=0x000000b1

ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci6.0=0x98989191,0x99999898
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_addrc_ci6.0=0x000000b0
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0.0=0x00a1a0a2,0x009c9f99
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-xaui_3x10G-1xhg127.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmBaaCfgTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmBaaCfgTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: bregex.c,v 1.10 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to program Regex engine for flow tracking
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bregex.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmsimxpt.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/simxpt/nlmsimxpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_fabric_cell.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC JER2_ARAD FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*  Firmware Version : 0xD009
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/flashing_ucode.c

No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA module.
*
*
* $Id: hnddma.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-robo-knet/hnddma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bsc_cmds.c,v 1.14 Broadcom SDK $
*
* BSC (Broadcom Serial Control) specific commands.
* These commands are specific to the BSC driver and or BSC slave
* devices which use that driver. See drv/i2c/ for more details.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bsc_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: traverse_key.h
* Purpose: BCM API Traverse routine key
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/rpc/traverse_key.h
No license file was found, but licenses were detected in source scan.

```
/*
*   Copyright 2003, Broadcom Corporation
*   All Rights Reserved.
*
*   Broadcom BCM56218 SOC Internal Core
*   and MIPS3301 (R4K) System Address Space
*
*   $Id: bcm56218.h,v 1.3 2007/10/08 22:31:08 iakramov Exp $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bcm56218.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flex_ctr_ingress.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flex_ctr_ingress.c
* Purpose:     Manage flex counter ingress group creation and deletion
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flexctr/flex_ctr_ingress.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :   *
*                                                                             *
*  Description :  Internal API error functions                                *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
```

```
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                 *
*                                                                                 *
***********************************************************************************
***********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_internal_error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_internal_error.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_sand.h
* Purpose:     Conversion between BCM and DNX_SAND types, and common macros/function for
*              handling Dune's code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkRuleApi.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkRuleApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/TkRuleApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: notify.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Misc. tests
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/notify.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cM41T81Clock.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/i2cM41T81Clock.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bradley.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       firebolt.h
* Purpose:    Function declarations for Bradley bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bradley.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap21v_app.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap21v_app.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.73.14.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: VLAN management
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_EAGLE_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_eagle_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_fp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_fp.h
No license file was found, but licenses were detected in source scan.

```
/*
* Hardware-specific MIB definition for
* Broadcom Home Networking Division
* GbE Unimac core
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmgmacmib.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmgmacmib.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: srds_api_uc_common.h 869 2015-01-23 00:24:44Z kirand $  *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common/srds_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbx-c3ss-sim.bcm,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for Caladan3 simulation

#string.unit-number
num_modules=32
ucode_num_ports.0=48
num_max_fabric_ports_on_module=50
ucode_port.port1.0=clport0.ge.0.0:clport1.hg25.0.0
ucode_port.port2.0=clport0.ge.0.1:clport1.hg25.0.1
ucode_port.port3.0=clport0.ge.0.2:clport1.hg25.0.2
ucode_port.port4.0=clport0.ge.0.3:clport1.hg25.0.3
ucode_port.port5.0=clport0.ge.0.4:clport1.hg25.0.4
ucode_port.port6.0=clport0.ge.0.5:clport1.hg25.0.5
ucode_port.port7.0=clport0.ge.0.6:clport1.hg25.0.6
```

```
ucode_port.port8.0=clport0.ge.0.7:clport1.hg25.0.7
ucode_port.port9.0=clport0.ge.0.8:clport1.hg25.0.8
ucode_port.port10.0=clport0.ge.0.9:clport1.hg25.0.9
ucode_port.port11.0=clport0.ge.0.10:clport1.hg25.0.10
ucode_port.port12.0=clport0.ge.0.11:clport1.hg25.0.11
ucode_port.port13.0=xtport0.ge.0.0:clport1.hg25.0.12
ucode_port.port14.0=xtport0.ge.0.1:clport1.hg25.0.13
ucode_port.port15.0=xtport0.ge.0.2:clport1.hg25.0.14
ucode_port.port16.0=xtport0.ge.0.3:clport1.hg25.0.15
ucode_port.port17.0=xtport0.ge.0.4:clport1.hg25.0.16
ucode_port.port18.0=xtport0.ge.0.5:clport1.hg25.0.17
ucode_port.port19.0=xtport0.ge.0.6:clport1.hg25.0.18
ucode_port.port20.0=xtport0.ge.0.7:clport1.hg25.0.19
ucode_port.port21.0=xtport0.ge.0.8:clport1.hg25.0.20
ucode_port.port22.0=xtport0.ge.0.9:clport1.hg25.0.21
ucode_port.port23.0=xtport0.ge.0.10:clport1.hg25.0.22
ucode_port.port24.0=xtport0.ge.0.11:clport1.hg25.0.23
ucode_port.port25.0=xtport1.ge.0.0:clport1.hg25.1.0
ucode_port.port26.0=xtport1.ge.0.1:clport1.hg25.1.1
ucode_port.port27.0=xtport1.ge.0.2:clport1.hg25.1.2
ucode_port.port28.0=xtport1.ge.0.3:clport1.hg25.1.3
ucode_port.port29.0=xtport1.ge.0.4:clport1.hg25.1.4
ucode_port.port30.0=xtport1.ge.0.5:clport1.hg25.1.5
ucode_port.port31.0=xtport1.ge.0.6:clport1.hg25.1.6
ucode_port.port32.0=xtport1.ge.0.7:clport1.hg25.1.7
ucode_port.port33.0=xtport1.ge.0.8:clport1.hg25.1.8
ucode_port.port34.0=xtport1.ge.0.9:clport1.hg25.1.9
ucode_port.port35.0=xtport1.ge.0.10:clport1.hg25.1.10
ucode_port.port36.0=xtport1.ge.0.11:clport1.hg25.1.11
ucode_port.port37.0=xtport2.ge.0.0:clport1.hg25.1.12
ucode_port.port38.0=xtport2.ge.0.1:clport1.hg25.1.13
ucode_port.port39.0=xtport2.ge.0.2:clport1.hg25.1.14
ucode_port.port40.0=xtport2.ge.0.3:clport1.hg25.1.15
ucode_port.port41.0=xtport2.ge.0.4:clport1.hg25.1.16
ucode_port.port42.0=xtport2.ge.0.5:clport1.hg25.1.17
ucode_port.port43.0=xtport2.ge.0.6:clport1.hg25.1.18
ucode_port.port44.0=xtport2.ge.0.7:clport1.hg25.1.19
ucode_port.port45.0=xtport2.ge.0.8:clport1.hg25.1.20
ucode_port.port46.0=xtport2.ge.0.9:clport1.hg25.1.21
ucode_port.port47.0=xtport2.ge.0.10:clport1.hg25.1.22
ucode_port.port48.0=xtport2.ge.0.11:clport1.hg25.1.23


# Maximum number of COSes
bcm_num_cos=8


# Maximum number of modules in the system (number of QEs)
```

```
# By default, run in standalone mode
#diag_chassis=0

# TME mode
#qe_tme_mode=1

# System (fabric) configuration
# 0 : BM32 + QE2K
# 1 : BM96 + Sirius
# 2 : BM96 + QE2K
# 3 : BM96 + QE2K + Sirius
#
# Vport mode, polaris+sirius
#fabric_configuration=1

# Create subports, 4 ports on hg 0
if_subports_create=1
if_subports.port1=1
if_subports.port2=1
if_subports.port3=1
if_subports.port4=1
port_init_speed.port1=1000
port_init_speed.port2=1000
port_init_speed.port3=1000
port_init_speed.port4=1000

# Enable/Disable dual local grants
dual_local_grants=1

# Disable independent egress fifo flow control
egress_fifo_independent_fc=0

diag_emulator_partial_init=0

# Default is HG
# pbmp_xport_xe=0x0

# Will use this for 1xGE SVK board
# pbmp_xport_ge = 0

# serdes speed and encoding
# if not set, default speed and encoding are used
# For 6.5G use 6500, for 3.125G use 3125
# default encoding is 8B10B (TRUE); for 64B66B, use FALSE

# backplane_serdes_speed=0
# backplane_serdes_encoding=0
```

```
# Hold TS: for 7 set it to 8
hold_pri_num_timeslots=8

# DDR stuff
sirius_ddr3_clock_mhz=667
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-unit-sim.bcm
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Make definitions for compilation of WRX for an executable that serves
# all architectures including JR2
#
FEATURE_LIST := L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE CUSTOMER TEST CHASSIS MSTP RCPU ATPTRANS_SOCKET DUNE_UI INTR APIMODE PTP KBP

DEBUG_CFLAGS=-Wdeclaration-after-statement

BCM_PTL_SPT=1

#
# Specify that, we want to compile for the new DNXF line, starting
# with Ramon
#
ALL_DNXF_CHIPS = 1

# Includes XML library and enables use of "diag pp dump" utility for PP import/export facilities
DATAIO_SUPPORT = 1
KERN_VER=3.7.10

CFGFLAGS += -DSTATIC=static
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT
CFGFLAGS += -DBCM_WARM_BOOT_SUPPORT_SW_DUMP
CFGFLAGS += -DBCM_EASY_RELOAD_WB_COMPAT_SUPPORT
CFGFLAGS += -DBCM_CONTROL_API_TRACKING
CFGFLAGS += -D__DUNE_LINUX_BCM_CPU_PCIE__
CFGFLAGS += -DPHYS_ADDRS_ARE_64BITS -DSAL_BDE_32BIT_USER_64BIT_KERNEL
CFGFLAGS += -D_SIMPLE_MEMORY_ALLOCATION_=0 -DUSE_LINUX_BDE_MMAP=1
CFGFLAGS += -DSCACHE_CRC_CHECK

CFGFLAGS += -DBROADCOM_SVK
```

KBP_DEVICE := KBP_ALG

VENDOR_LIST=CUSTOMER78 BROADCOM DNX

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/dnx/Make.custom.wrx_dnxf_only
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaNmPriorityUpdate.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaNmPriorityUpdate.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_drv_flash28f_utils.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bsp_drv_flash28f_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     hal_vlan.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/init.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tomahawk2_mbist_test.c,v 1.1 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Built-in Self Test for Tomahawk2
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/tomahawk2_mbist_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_utils_tunnel.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: This file provides IPv4 tunnel basic functionality and defines global variables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.c
* Purpose:    Switch common APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_cells_buffer.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 CELLS BUFFER
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_cells_buffer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dpp.c
* Purpose:     Other CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/dpp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/debug.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_multi_set.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*************************************************************************
* NAME:
*     soc_sand_multi_set_tests
* TYPE:
*   PROC
* DATE:
*   June 01 2015
* FUNCTION:
*     Tests the multiset module
*
*INPUT:
*  SOC_SAND_DIRECT:
```

```
*    SOC_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  SOC_SAND_INDIRECT:
*    None.
*OUTPUT:
*  SOC_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  SOC_SAND_INDIRECT:
*    NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_multi_set.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_jer_fc_oob_config_example.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_jer_fc_oob_config_example.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_port.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_port.h
*
* MODULE PREFIX:  soc_ppc_port
```

```
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nssrabreg.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X SRAB register definition
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/nssrabreg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*   This module calls the initialization routine of each BCM module.
*
* Initial System Configuration
*
*   Each module should initialize itself without reference to other BCM
*   library modules to avoid a chicken-and-the-egg problem.  To do
*   this, each module should initialize its respective internal state
*   and hardware tables to match the Initial System Configuration.  The
*   Initial System Configuration is:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/init.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/init.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_bitstream.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_bitstream.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_bitstream.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_db.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_pmf_low_level.c
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_pmf_low_level_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsDepthHplenEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/qe2k/sbZfKaQsDepthHplenEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane3.h, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane3.h
* Purpose:     Function declarations for Hurricane3  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/hurricane3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy543xx.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy543xx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in init related tests
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/exhaustive.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2BEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2BEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56334_b0.c
* Purpose:     bcm56334_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56334_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_nif.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_nif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashVlanIPv4Console.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassHashVlanIPv4Console.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: error.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/error.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       subport.c
* Purpose:    Subport CoE related functions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_sram.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_sram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_cint_data.c,v 1.44 Broadcom SDK $
*
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_cint_data.c: Guadalupe2k V1.3 C-Interpreter functions
```

```
*
* This file contains the manually created portions of the
* g3p1 SoC CINT API.  Most of these will become auto generated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/g3p1_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_qax_sram.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_sram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: er_tcam_type1.c,v 1.76 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     er_tcam_type1.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/er_tcam_type1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_cmn.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wb_db_cmn.h
* Purpose:    WarmBoot - Level 2 support common file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/wb_db_cmn.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_general.h,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_general.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socintf.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The part of PCID that interfaces to sockets
*
* Requires:
*     Socket library
*     Verinet functions (write_command, etc)
*     pli_getreg_service
*     pli_setreg_service
*
*
* Provides:
*     pcid_setup_socket
*     pcid_wait_for_cnxn
*     pcid_process_request
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/socintf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM3200 Stack API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/sbx/bme3200/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains filed process module definitions internal to
* the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/tk371x/field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWatEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWatEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwWatEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54616.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54616.h
*
* This driver applies to both BCM54616 and BCM54616S.
* Both parts support driving Copper or SERDES interfaces.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54616.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: simintf.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBX SIM SDK interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sbxsim/simintf.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3test.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.190 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2x.c
*
* Provides:
```

```
*      soc_internal_l2x_read
*      soc_internal_l2x_write
*      soc_internal_l2x_lkup
*      soc_internal_l2x_init
*      soc_internal_l2x_del
*      soc_internal_l2x_ins
*
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_cell.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON_FE1600 FABRIC CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC JERP INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/jerp_intr_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_sweep_app_b.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_sweep_app_b.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_top.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM top header for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/apache/tdm_ap_top.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_fabric_cell.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_fabric_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Handle trident2plus specific MPLS APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_diag.c,v 1.11 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arl.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switchctl.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Switch Control commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/switchctl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/switchctl.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision    :  $Id: falcon_furia_interface.h 970 2015-03-13 21:24:59Z kirand $   *
*                                                                                       *
*  Description :  Interface functions targeted to IP user                              *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                          *
*      5300 California Avenue                                        *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                    *
*                                                                    *
*******************************************************************************
*******************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon_furia/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* falcon_furia_interface.h - provides the primary functionality.
*
* falcon_furia_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_interface.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_hashtable.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_hashtable.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: blackbird2_service.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/blackbird2_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: humv.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       firebolt.h
* Purpose:     Function declarations for Firebolt bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/humv.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
    flow

File Name:
    flow_result.h

File Description:
  flow result

$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 10/5/2001   Initial Creation
```

```
****************************************/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/ces/include_ext/flow/flow_result.h
No license file was found, but licenses were detected in source scan.

/*
*   Copyright 2003, Broadcom Corporation
*   All Rights Reserved.
*
*   Broadcom Sentry5 (S5) BCM4704, 53xx, BCM58xx SOC Internal Core
*   and MIPS3301 (R4K) System Address Space
*
*   $Id: bcm4704.h,v 1.3 2006/01/12 22:57:03 sanjayg Exp $
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/jag/bcm4704/bcm4704.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_api_debug.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/ARAD/arad_api_debug.c
No license file was found, but licenses were detected in source scan.

/*****************************************************************************
** ==============================================
** == hal_user.h - Hardware Abstraction Layer   ==
** ==============================================
**
** WORKING REVISION: $Id: hal_user.h,v 1.10 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** MODULE NAME:
**
**     HAL
**
** ABSTRACT:
```

```
**
**     HAL macros for register access
**
**  USER should define the following macros:
**    SAND_HAL_READ_OFFS_RAW(addr,offs)        - register read function with no endian swapping
**    SAND_HAL_WRITE_OFFS_RAW(addr,offs,value) - register write function with no endian swapping
**    SAND_HAL_READ_OFFS(addr,offs)            - register read function
**    SAND_HAL_WRITE_OFFS(addr,offs,value)     - register write function
**
** LANGUAGE:
**
**     C/C++
**
** AUTHORS:
**
**     Lennart Augustsson
**
** CREATION DATE:
**
**     29-July-2004
**
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_user.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_flp_init.h,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_flp_init.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_qax_tbls.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_tbls.h

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allenum.h
* Purpose:    Enumerated types for fields, memories, registers
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
*             bcm56634_a0
*             bcm56634_b0
*             bcm56524_a0
*             bcm56524_b0
*             bcm56685_a0
*             bcm56685_b0
*             bcm56334_a0
*             bcm56334_b0
*             bcm88230_a0
*             bcm88230_b0
*             bcm88230_c0
*             bcm56840_a0
*             bcm56840_b0
*             bcm88650_a0
*             bcm88650_b0
*             bcm88660_a0
*             bcm2801pm_a0
*             bcm88202_a0
*             bcm88675_a0
*             bcm83207_a0
```

```
*          bcm83208_a0
*          bcm88732_a0
*          bcm56440_a0
*          bcm56440_b0
*          bcm88030_a0
*          bcm88030_a1
*          bcm88030_b0
*          bcm56640_a0
*          bcm88750_a0
*          bcm88750_b0
*          bcm88754_a0
*          bcm88950_a0
*          bcm88790_a0
*          bcm56850_a0
*          bcm56450_a0
*          bcm56450_b0
*          bcm56450_b1
*          bcm56340_a0
*          bcm56150_a0
*          bcm53400_a0
*          bcm56960_a0
*          bcm56860_a0
*          bcm56560_a0
*          bcm56560_b0
*          bcm56260_a0
*          bcm56260_b0
*          bcm88375_a0
*          bcm88470_a0
*          bcm88470_b0
*          bcm88270_a0
*          bcm8206_a0
*          bcm88675_b0
*          bcm88375_b0
*          bcm88680_a0
*          bcm88690_a0
*          bcm56160_a0
*          bcm56270_a0
*          bcm56965_a0
*          bcm56970_a0
*          bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/allenum.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* This file is not auto-generated from the registers
* file.
*
* $Id: chips.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/chips.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccmdma_internal.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ccmdma_internal.h
* Purpose:    Maps out structures used for CCM DMA operations and
*             internal routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ccmdma_internal.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

if [ -z "$1" ]; then
 echo >&2 "Usage: inject packetfile"
 exit 1
fi

cp $1 $1.tmp
mv $1.tmp pkt
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/inject
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: g3p1_cmds.c,v 1.35.14.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       g3p1_cmds.c
* Purpose:     Caladan3 diag shell commands commands for ucode objects
* Requires:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etc_robo_spi.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/etc_robo_spi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ser Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ser.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_config_dest_per_core.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtEntryConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtEntryConsole.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_general_hrp.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_general_hrp.c
No license file was found, but licenses were detected in source scan.

```
/**  -*-  Mode:C; c-basic-offset:4 -*-
*  sbG2EplibVersion.cx
*
* <pre>
*
* THIS IS A GENERATED FILE - DO NOT EDIT
*
*
* ==========================================================================
* == sbG2EplibVersion.cx - Version Information for G2Eplib ==
* ==========================================================================
*
* $Id: sbG2EplibVersion.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibVersion.cx
*
* ABSTRACT:
*
*     Version Information For:  G2Eplib, Non Released Test Software
*     Sandburst Product Code:   10
*     Major Version:            0
*     Minor Version:            0
*     Patch Level:              999999
*
* LANGUAGE:
*
*     C
*
* CREATION DATE:
*
*     Tue May  1 12:09:20 2007
```

```
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbG2EplibVersion.c
No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA engine SW interface
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: hnddma.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hnddma.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hnddma.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_end2end.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_scheduler_end2end.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_stack.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_pp_flp_init.c,v 1.119 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_flp_init.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.config,v 1.429.8.1.4.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Make command configuration for SOC driver and diags.

ALLOWED_MAKE_VERSIONS :=3.81 3.82 4.0 4.1

MAKE_VERSION_IS_SUPPORTED := $(strip $(foreach v,$(ALLOWED_MAKE_VERSIONS), $(findstring $v,$(MAKE_VERSION))))
ifeq ($(MAKE_VERSION_IS_SUPPORTED),)
# {
$(error Make $(MAKE_VERSION) not supported, use one of $(ALLOWED_MAKE_VERSIONS))
# }
endif


ifeq (${BCM_HIDE_DISPATCHABLE},1)
# {
CFGFLAGS += -DBCM_HIDE_DISPATCHABLE
# }
endif

ifeq (${WAN_PORT_SUPPORT},1)
# {
CFGFLAGS += -DWAN_PORT_SUPPORT
# }
endif

ifeq (${IPROC_NO_ATL},1)
# {
CFGFLAGS += -DIPROC_NO_ATL
# }
endif

#
# Set a default target if one is not set. If override-target is set,
# then the target will become override-target and a warning is printed
# if the assigned TARGET was different.
#
```

```
ifneq ($(strip $(override-target)),)
# {
override TARGET=$(override-target)
# }
endif

#
# If TARGET is not set, default to a Unix target based on host type
#
ifndef TARGET
# {
uname := $(shell uname -s)
ifeq ($(filter-out Linux Darwin,$(uname)),)
 ifeq ($(shell uname -m),x86_64)
  TARGET=unix-linux-64
 else
  TARGET=unix-linux
 endif
endif
ifeq ($(uname),SunOS)
 TARGET=unix-solaris
endif
ifeq ($(uname),NetBSD)
 TARGET=unix-netbsd
endif
ifndef TARGET
 $(error Cannot determine TARGET in Make.config, uname = $(uname))
endif
# }
endif

export TARGET


#
# Set up the target name, and the target base variables.
#
# target = The full name of the target such as vxworks-bmw
# targetbase = 1st part of target (e.g. vxworks)
# targetplat = 2nd part of target (e.g. x86) if any; otherwise same as 1st
#
target     = ${TARGET}
targetsplt = $(subst -, , ${target}) # change hyphens to spaces
targetbase = $(word 1,${targetsplt})
targetplat = $(subst ${targetbase}-,,${TARGET})
#targetplat = $(lastword ,${targetsplt})

#
```

```
# Common configuration for all platforms
# (Additional platform-dependent configurations are in Makefile.xxx)
#

#
# THIS FILE SHOULD NOT BE MODIFIED LOCALLY, to override, add a file
# $SDK/make/Make.local that sets your local settings, and/or provide
# a path to your settings using the MAKE_LOCAL variable.  If
# either of these files exists, their values will override those in this makefile.
#
ifdef MAKE_LOCAL
# {
include       ${MAKE_LOCAL}
# }
else
# {
-include ${SDK}/make/Make.local
# }
endif


# Make sure some chip is supported

SBX_CALADAN_DEVICES = BCM_88030_A0 BCM_88030_A1 BCM_88030_B0
#
# Caladan devices are not supported when compiling for Linux kernel mode
#
ifndef LINUX_MAKE_KERNEL
# {
  SUPPORTED_CALADAN_DEVICES = $(SBX_CALADAN_DEVICES)
# }
endif
ifndef SUPPORTED_CALADAN_DEVICES
# {
  CFGFLAGS += $(strip $(foreach chipname,$(SBX_CALADAN_DEVICES),\
                -DNO_$(chipname) \
                $(eval export NO_$(chipname) = 1)))
  SUPPORTED_CALADAN_DEVICES =
# }
endif
SBX_CHIP_NAMES = BCM_QE2000_A0 BCM_BME3200_A0 BCM_BME3200_B0 \
 BCM_BM9600_A0 BCM_88230_A0 BCM_88230_B0 BCM_88230_C0 BCM_BM9600_B0 \
 $(SUPPORTED_CALADAN_DEVICES)

# Here list EA chipsets
EA_CHIP_NAMES = BCM_TK371X_A0

ROBO_CHIP_NAMES = BCM_53242_A0 BCM_53262_A0 BCM_53115_A0 BCM_53118_A0 \
```

```
 BCM_53280_A0 BCM_53280_B0 BCM_53101_A0 BCM_53125_A0 BCM_53134_A0 BCM_53134_B0
BCM_53128_A0 BCM_53600_A0 \
 BCM_89500_A0 BCM_53010_A0 BCM_5389_A0 BCM_53020_A0 BCM_5396_A0
ESW_CHIP_NAMES = BCM_5675_A0 BCM_56504_A0 BCM_56504_B0 BCM_56314_A0 BCM_56112_A0 \
 BCM_56304_B0 BCM_56102_A0 BCM_56580_A0 BCM_56700_A0 BCM_56800_A0 BCM_56218_A0 \
 BCM_56514_A0 BCM_56624_A0 BCM_56680_A0 BCM_56680_B0 BCM_56224_A0 BCM_56224_B0
BCM_56820_A0 \
 BCM_53314_A0 BCM_56725_A0 BCM_56624_B0 BCM_56634_A0 BCM_56634_B0 \
 BCM_56524_A0 BCM_56524_B0 BCM_56685_A0 BCM_56685_B0 BCM_56334_A0 BCM_56334_B0 \
 BCM_56840_A0 BCM_56840_B0 BCM_56142_A0 BCM_53324_A0 BCM_88732_A0 BCM_56440_A0 \
 BCM_56440_B0 BCM_56640_A0 BCM_56850_A0 BCM_56450_A0 BCM_56450_B0 BCM_56450_B1
BCM_56340_A0 \
 BCM_56150_A0 BCM_53400_A0 BCM_56960_A0 BCM_56860_A0 BCM_56560_A0 BCM_56260_A0
BCM_56260_B0 \
 BCM_56160_A0 BCM_56560_B0 BCM_56270_A0 BCM_56965_A0 BCM_56970_A0 BCM_53570_A0

DPP_CHIP_NAMES = BCM_88650_A0 BCM_88650_B0 BCM_88660_A0 BCM_88675_A0 BCM_88675_B0
BCM_88375_A0 BCM_88375_B0 BCM_88680_A0 BCM_88470_A0 BCM_88470_B0 BCM_88270_A0
BCM_8206_A0 BCM_88202_A0
DFE_CHIP_NAMES = BCM_88750_A0 BCM_88750_B0 BCM_88754_A0 BCM_88950_A0 BCM_88950_A1
BCM_88770_A1
DNX_CHIP_NAMES = BCM_88690_A0
DNXF_CHIP_NAMES = BCM_88790_A0

whereischip = $(origin $(chipname))
seekrob = $(foreach chipname,$(ROBO_CHIP_NAMES),$(whereischip))
seekesw = $(foreach chipname,$(ESW_CHIP_NAMES),$(whereischip))
seeksbx = $(foreach chipname,$(SBX_CHIP_NAMES),$(whereischip))
seekea  = $(foreach chipname,$(EA_CHIP_NAMES),$(whereischip))
seekdpp = $(foreach chipname,$(DPP_CHIP_NAMES),$(whereischip))
seekdfe = $(foreach chipname,$(DFE_CHIP_NAMES),$(whereischip))
seekdnx = $(foreach chipname,$(DNX_CHIP_NAMES),$(whereischip))
seekdnxf = $(foreach chipname,$(DNXF_CHIP_NAMES),$(whereischip))

setallsbx = $(foreach chipname,$(SBX_CHIP_NAMES),$(eval export $(chipname) = 1))
setallesw = $(foreach chipname,$(ESW_CHIP_NAMES),$(eval export $(chipname) = 1))
setallrob = $(foreach chipname,$(ROBO_CHIP_NAMES),$(eval export $(chipname) = 1))
setallea  = $(foreach chipname,$(EA_CHIP_NAMES),$(eval export $(chipname) = 1))
setalldpp = $(foreach chipname,$(DPP_CHIP_NAMES),$(eval export $(chipname) = 1))
setalldfe = $(foreach chipname,$(DFE_CHIP_NAMES),$(eval export $(chipname) = 1))
setalldnx = $(foreach chipname,$(DNX_CHIP_NAMES),$(eval export $(chipname) = 1))
setalldnxf = $(foreach chipname,$(DNXF_CHIP_NAMES),$(eval export $(chipname) = 1))

ifeq (1,$(PORTMOD_STAND_ALONE))
# {
export PORTMOD_STAND_ALONE
BCM_PTL_SPT=1
PHYMOD_SUPPORT=1
```

```
PORTMOD_SUPPORT=1
CFLAGS += -DPORTMOD_STAND_ALONE
# }
endif
#
# If any of DNX_CHIPS or DNXF_CHIPS is set (Jericho 2 or corresponding fabric)
# then set a make-level variable: DNX_DNXF_CHIPS
#
ifdef BCM_PTL_SPT
# {

 ifdef ALL_SBX_CHIPS
   $(setallsbx)
   export BCM_SBX_SUPPORT = 1
 endif

 ifdef ALL_ESW_CHIPS
   $(setallesw)
   export BCM_ESW_SUPPORT = 1
   export BCM_ALL_CHIPS = 1
   CFGFLAGS+=-DBCM_ALL_CHIPS
 endif

 ifdef ALL_ROBO_CHIPS
   $(setallrob)
   export BCM_ROBO_SUPPORT = 1
 endif

 ifdef ALL_EA_CHIPS
   $(setallea)
   export BCM_EA_SUPPORT = 1
   export BCM_TK371X_SUPPORT = 1
   export EA_CHIPS = 1
 else
 ifdef EA_CHIPS
   export BCM_EA_SUPPORT = 1
 endif
 ifdef EA_CHIPS
 ifndef BCM_TK371X_A0
   export BCM_TK371X_SUPOORT = 1
 endif
 endif
 ifndef EA_CHIPS
 ifdef BCM_TK371X_A0
 export BCM_EA_SUPPORT = 1
 export BCM_TK371X_SUPPORT = 1
 endif
 endif
```

```
ifdef BCM_EA_SUPPORT
  export EA_CHIPS = 1
  ifndef BCM_TK371X_SUPPORT
        $(setallea)
   export BCM_TK371X_SUPPORT = 1
  endif
endif # BCM_EA_SUPPORT
endif # ALL_EA_CHIPS

ifdef ALL_DPP_CHIPS
  $(setalldpp)
endif

ifdef ALL_DFE_CHIPS
  $(setalldfe)
endif

ifdef ALL_DNX_CHIPS
  $(setalldnx)
endif

ifdef ALL_DNXF_CHIPS
  $(setalldnxf)
endif

ifneq "$(findstring file,$(seekrob))" ""
  ROBO_CHIPS = 1
  export ROBO_CHIPS
endif

ifneq "$(findstring file,$(seekesw))" ""
  ESW_CHIPS = 1
endif

ifneq "$(findstring file,$(seeksbx))" ""
  SBX_CHIPS = 1
endif
ifneq "$(findstring environment,$(seeksbx))" ""
  SBX_CHIPS = 1
endif

ifneq "$(findstring file,$(seekea))" ""
  EA_CHIPS = 1
  export EA_CHIPS = 1
endif

ifneq "$(findstring file,$(seekdpp))" ""
  DPP_CHIPS = 1
```

```
  export DPP_CHIPS
 endif

 ifneq "$(findstring file,$(seekdfe))" ""
  DFE_CHIPS = 1
  export DFE_CHIPS
 endif

 ifneq "$(findstring file,$(seekdnx))" ""
  DNX_CHIPS = 1
  export DNX_CHIPS
 endif

 ifneq "$(findstring file,$(seekdnxf))" ""
  DNXF_CHIPS = 1
  export DNXF_CHIPS
 endif

ifndef ROBO_CHIPS
# {
ifndef ESW_CHIPS
# {
ifndef SBX_CHIPS
# {
ifndef EA_CHIPS
# {
ifndef DPP_CHIPS
# {
ifndef DFE_CHIPS
# {
ifndef DNX_CHIPS
# {
ifndef DNXF_CHIPS
# {
ifndef PORTMOD_STAND_ALONE #Compile without chips is allowed in case of portmod stand alone
# {
ifneq (C_COMPILER,$(MAKECMDGOALS))
# {
 $(error "BCM_PTL_SPT defined, and no valid chip names were defined")
# }
endif
# }
endif
# }
endif
# }
endif
# }
```

```
endif
# }
endif
# }
endif
# }
endif
# }
endif
# }
endif

# }
else # BCM_PTL_SPT
# {

ifdef ALL_CHIPS
# {
 ROBO_CHIPS = 1
 ESW_CHIPS = 1
 SBX_CHIPS = 1
 EA_CHIPS = 1
 DPP_CHIPS = 1
 DFE_CHIPS = 1
 DNX_CHIPS = 1
 DNXF_CHIPS = 1

 export ROBO_CHIPS
# }
else
# {
 # BCM5836/4704 ROBO Build
 ifdef ROBO_CHIPS
   export ROBO_CHIPS
 else
   # Chekc if Keystone build,
   # enable ROBO_CHIPS by default for single image target
   ifdef KS_BUILD
     # Check if ROBO is in dispatch list, build only when present
     ifdef DISPATCH_LIST
       ifneq "$(findstring ROBO,$(DISPATCH_LIST))" ""
         ROBO_CHIPS = 1
         export ROBO_CHIPS
         export BCM_EA_SUPPORT = 1
       export BCM_TK371X_SUPPORT = 1
       endif
     else
       ROBO_CHIPS = 1
```

```
      export ROBO_CHIPS
      export BCM_EA_SUPPORT = 1
export BCM_TK371X_SUPPORT = 1
    endif
  endif

  # Check IPROC build,
  # enable ROBO_CHIPS by default for single image target
  ifdef IPROC_BUILD
    # Check if ROBO is in dispatch list, build only when present
    ifdef DISPATCH_LIST
      ifneq "$(findstring ROBO,$(DISPATCH_LIST))" ""
        ROBO_CHIPS = 1
        export ROBO_CHIPS
      endif
    else
      ROBO_CHIPS = 1
      export ROBO_CHIPS
    endif
  endif

  ifndef ESW_CHIPS
  ifndef SBX_CHIPS
    # Check if ESW support exist
    ifeq ($(shell test -d $(SDK)/src/bcm/esw; echo $$?),0)
      ESW_CHIPS = 1
      export ESW_CHIPS
     endif
    endif
  endif
endif # ROBO_CHIPS

ifdef ALL_EA_CHIPS
 export BCM_EA_SUPPORT = 1
export BCM_TK371X_SUPPORT = 1
 export EA_CHIPS = 1
      $(setallea)
else
ifdef EA_CHIPS
  export BCM_EA_SUPPORT = 1
endif
ifdef EA_CHIPS
ifndef BCM_TK371X_A0
  export BCM_TK371X_SUPOORT = 1
endif
endif
ifndef EA_CHIPS
ifdef BCM_TK371X_A0
```

```
 export BCM_EA_SUPPORT = 1
 export BCM_TK371X_SUPPORT = 1
 endif
 endif
 ifdef BCM_EA_SUPPORT
   export EA_CHIPS = 1
   ifndef BCM_TK371X_SUPPORT
     export BCM_TK371X_SUPPORT = 1
   endif
 endif # BCM_EA_SUPPORT
 endif # ALL_EA_CHIPS

 ifdef ALL_DPP_CHIPS
   DPP_CHIPS=1
   export DPP_CHIPS
 endif

 ifdef ALL_DFE_CHIPS
   DFE_CHIPS=1
   export DFE_CHIPS
 endif

 ifdef ALL_DNX_CHIPS
   DNX_CHIPS=1
   export DNX_CHIPS
 endif

 ifdef ALL_DNXF_CHIPS
   DNXF_CHIPS=1
   export DNXF_CHIPS
 endif

# }
endif # ALL_CHIPS

# }
endif # BCM_PTL_SPT

#
# Check for incompatible reload options
#

ifneq (,$(findstring -DBCM_WARM_BOOT_SUPPORT,$(CFGFLAGS)))
# {
ifneq (,$(findstring -DBCM_EASY_RELOAD_SUPPORT,$(CFGFLAGS)))
# {
$(error "BCM_WARM_BOOT_SUPPORT and BCM_EASY_RELOAD_SUPPORT should not be enabled at the
same time")
```

```
# }
endif
# }
endif

#
# By default, turn off the "changing directory" message.
#

MAKEFLAGS += --no-print-directory

#
# Use gmake by default
#

include ${SDK}/make/Make.tools
include ${SDK}/make/Makefile.${target}

# For make v3.80, eval function can't be placed inside any ifxxx-endif section
# The bug is fixed in v3.81
eval_fixed_ver := 3.81
eval_fixed := $(filter $(eval_fixed_ver),$(firstword $(sort $(MAKE_VERSION) $(eval_fixed_ver))))

# See Make.local (Make.local.template) to configure chip support

ifndef BCM_PTL_SPT
# {

# Support all chips by default
CFGFLAGS += -DBCM_ALL_CHIPS

ifdef ROBO_CHIPS
# {
ifeq ($(eval_fixed),$(eval_fixed_ver))
# {
$(setallrob)
# }
else
# {
BCM_53242_A0 = 1
BCM_53262_A0 = 1
BCM_53115_A0 = 1
BCM_53118_A0 = 1
BCM_53280_A0 = 1
BCM_53280_B0 = 1
BCM_53101_A0 = 1
BCM_53125_A0 = 1
BCM_53134_A0 = 1
```

```
BCM_53134_B0 = 1
BCM_53128_A0 = 1
BCM_53600_A0 = 1
BCM_89500_A0 = 1
BCM_53010_A0 = 1
BCM_5389_A0 = 1
BCM_53020_A0 = 1
BCM_5396_A0 = 1
# }
endif
# }
endif

ifdef ESW_CHIPS
# {
ifeq ($(eval_fixed),$(eval_fixed_ver))
# {
$(setallesw)
# }
else
# {
BCM_5675_A0 = 1
BCM_56504_A0 = 1
BCM_56504_B0 = 1
BCM_56314_A0 = 1
BCM_56112_A0 = 1
BCM_56304_B0 = 1
BCM_56102_A0 = 1
BCM_56580_A0 = 1
BCM_56700_A0 = 1
BCM_56800_A0 = 1
BCM_56218_A0 = 1
BCM_56514_A0 = 1
BCM_56624_A0 = 1
BCM_56224_A0 = 1
BCM_56224_B0 = 1
BCM_56820_A0 = 1
BCM_53314_A0 = 1
BCM_56725_A0 = 1
BCM_56624_B0 = 1
BCM_56634_A0 = 1
BCM_56634_B0 = 1
BCM_56524_A0 = 1
BCM_56524_B0 = 1
BCM_56685_A0 = 1
BCM_56685_B0 = 1
BCM_56334_A0 = 1
BCM_56334_B0 = 1
```

```
BCM_56840_A0 = 1
BCM_56840_B0 = 1
BCM_56142_A0 = 1
BCM_53324_A0 = 1
BCM_56440_A0 = 1
BCM_56440_B0 = 1
BCM_56450_A0 = 1
BCM_56450_B0 = 1
BCM_56450_B1 = 1
BCM_56640_A0 = 1
BCM_56850_A0 = 1
BCM_56340_A0 = 1
BCM_56150_A0 = 1
BCM_53400_A0 = 1
BCM_56960_A0 = 1
BCM_56160_A0 = 1
BCM_56860_A0 = 1
BCM_56560_A0 = 1
BCM_56260_A0 = 1
BCM_56260_B0 = 1
BCM_56270_A0 = 1
BCM_56560_B0 = 1
BCM_56965_A0 = 1
BCM_56970_A0 = 1
BCM_53570_A0 = 1
# }
endif
# }
endif

ifdef DNXF_CHIPS
CFGFLAGS += $(strip $(foreach chipname,$(DNXF_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
endif # DNXF_CHIPS

ifdef SBX_CHIPS
# {
$(setallsbx)
ifndef BCM_FE2000_A0
# {
export NO_BCM_FE2000_A0 = 1
CFLAGS += -DNO_BCM_FE2000_A0
# }
endif
# }
endif

ifdef EA_CHIPS
```

```
# {
$(setallea)
ifndef BCM_TK371X_SUPPORT
# {
export BCM_TK371X_SUPPORT = 1
# }
endif
# }
endif

ifdef DPP_CHIPS
# {
$(setalldpp)
# }
endif

ifdef DFE_CHIPS
# {
$(setalldfe)
# }
endif

ifdef DNX_CHIPS
# {
$(setalldnx)
# }
endif

ifdef DNXF_CHIPS
# {
$(setalldnxf)
# }
endif

# }
else # BCM_PTL_SPT
# {

# Some chip or chips excluded

ifdef ROBO_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(ROBO_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # ROBO_CHIPS

ifdef ESW_CHIPS
```

```
# {
CFGFLAGS += $(strip $(foreach chipname,$(ESW_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
CFGFLAGS += -DUSE_SCACHE_DIRTY_BIT
ifdef BCM_56340_A0
# {
BCM_56640_A0 = 1
# }
endif
ifdef BCM_56440_A0
# {
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56440_B0
# {
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56450_A0
# {
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56450_B0
# {
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56450_B1
# {
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56260_A0
# {
BCM_56450_A0 = 1
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56260_B0
# {
BCM_56450_A0 = 1
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56270_A0
# {
```

```
BCM_56260_A0 = 1
BCM_56450_A0 = 1
BCM_56840_A0 = 1
# }
endif
ifdef BCM_56560_B0
# {
BCM_56560_A0 = 1
# }
endif
# }
endif # ESW_CHIPS

ifdef DPP_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(DPP_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # DPP_CHIPS

ifdef DFE_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(DFE_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # DFE_CHIPS

ifdef DNX_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(DNX_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # DNX_CHIPS

ifdef DNXF_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(DNXF_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # DNXF_CHIPS

ifdef SBX_CHIPS
# {
ifndef BCM_FE2000_A0
# {
export NO_BCM_FE2000_A0 = 1
CFLAGS += -DNO_BCM_FE2000_A0
# }
```

```
endif
CFGFLAGS += $(strip $(foreach chipname,$(SBX_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # SBX_CHIPS

ifdef EA_CHIPS
# {
CFGFLAGS += $(strip $(foreach chipname,$(EA_CHIP_NAMES), $(if $(value $(chipname)),,-
DNO_$(chipname))))
# }
endif # EA_CHIPS

# }
endif # BCM_PTL_SPT

ifndef FEATURE_LIST
# {
ifdef ROBO_CHIPS
# {
ifeq "$(HOSTTYPE)" "Windows2000PC"
# {
_ROBO_FEATURE_LIST = L3 I2C BCMX BCMX_DIAG EDITLINE TEST CINT
# }
else
# {
_ROBO_FEATURE_LIST = L3 I2C BCMX BCMX_DIAG EDITLINE TEST CINT
# }
endif
# }
endif

ifdef ESW_CHIPS
# {
_ESW_FEATURE_LIST = L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE RCPU OOB_RCPU
CUSTOMER \
   TEST CHASSIS CINT PTP BFD TCB PSTATS
#
# CES is only supported on Katana devices.
#
ifdef BCM_56440_A0
# {
_ESW_FEATURE_LIST += CES
# }
endif
ifdef BCM_56440_B0
# {
_ESW_FEATURE_LIST += CES
```

```
# }
endif
# }
endif

ifdef SBX_CHIPS
# {
_SBX_FEATURE_LIST = L3 BCMX BCMX_DIAG EDITLINE CUSTOMER TEST CHASSIS CINT
ifdef BCM_88030_A0
# {
 _SBX_FEATURE_LIST += I2C
# }
endif
ifdef BCM_88030_A1
# {
 _SBX_FEATURE_LIST += I2C
# }
endif
ifdef BCM_88030_B0
# {
 _SBX_FEATURE_LIST += I2C
# }
endif
# }
endif

ifdef EA_CHIPS
# {
_EA_FEATURE_LIST = EDITLINE CUSTOMER TEST CINT
ifdef BCM_TK371X_SUPPORT
# {
ifdef ROBO_CHIPS
# {
_EA_FEATURE_LIST += FIELD KNET
# }
endif
# }
endif
# }
endif

ifdef DPP_CHIPS
# {
_DPP_FEATURE_LIST = L3 EDITLINE CUSTOMER TEST CHASSIS CINT BFD
# }
endif

ifdef DFE_CHIPS
```

```
# {
_DFE_FEATURE_LIST = L3 EDITLINE CUSTOMER TEST CHASSIS CINT
# }
endif

ifdef DNX_CHIPS
# {
_DNX_FEATURE_LIST = L3 EDITLINE CUSTOMER TEST CHASSIS CINT BFD
# }
endif

ifdef DNXF_CHIPS
# {
_DNXF_FEATURE_LIST = L3 EDITLINE CUSTOMER TEST CHASSIS CINT
# }
endif

_ALL_FEATURE_LIST = ${_ROBO_FEATURE_LIST} ${_ESW_FEATURE_LIST} \
  ${_SBX_FEATURE_LIST} ${_EA_FEATURE_LIST} ${_DPP_FEATURE_LIST} \
  ${_DFE_FEATURE_LIST} ${_DNX_FEATURE_LIST} ${_DNXF_FEATURE_LIST}

FEATURE_LIST = $(sort ${_ALL_FEATURE_LIST})

ifeq ($(targetbase),vxworks)
# {
FEATURE_LIST += TELNET
FEATURE_LIST += DRIVERS
# }
endif


# end ifndef FEATURE_LIST
# }
endif

# Include board make rules if present
-include ${SDK}/make/Make.boards

ifdef ROBO_CHIPS
# {
FEATURE_LIST += MSTP
# }
endif

# If TCL is enabled then add EDITLINE and ASE_TEST
ifeq (TCL,$(findstring TCL,$(FEATURE_LIST)))
# {
ifneq (EDITLINE,$(findstring EDITLINE,$(FEATURE_LIST)))
```

```
# {
FEATURE_LIST += EDITLINE
# }
endif

ifneq (ASE_TEST,$(findstring ASE_TEST,$(FEATURE_LIST)))
# {
FEATURE_LIST += ASE_TEST
# }
endif
# }
endif

# DPP only compiles with BFD
ifdef DPP_CHIPS
# {
ifneq (BFD,$(findstring BFD,$(FEATURE_LIST)))
# {
FEATURE_LIST += BFD
# }
endif
# Uncomment the next three lines to force PTP inclusion for DPP chipsets
#ifneq (PTP,$(findstring PTP,$(FEATURE_LIST)))
#FEATURE_LIST += PTP
#endif
# }
endif

# DNX only compiles with BFD
ifdef DNX_CHIPS
# {
ifneq (BFD,$(findstring BFD,$(FEATURE_LIST)))
# {
FEATURE_LIST += BFD
# }
endif
# Uncomment the next three lines to force PTP inclusion for DNX chipsets
#ifneq (PTP,$(findstring PTP,$(FEATURE_LIST)))
#FEATURE_LIST += PTP
#endif
# }
endif

# If BFD is enabled then add L3
ifeq (BFD,$(findstring BFD,$(FEATURE_LIST)))
# {
ifneq (L3,$(findstring L3,$(FEATURE_LIST)))
# {
```

```
FEATURE_LIST += L3
# }
endif
# }
endif

# If CINT is not enabled, filter out APIMODE
ifeq (,$(findstring CINT,$(FEATURE_LIST)))
# {
FEATURE_EXCLUDE_LIST += APIMODE
# }
endif

ifdef NO_SAL_APPL
# {
FEATURE_EXCLUDE_LIST += TCL EDITLINE I2C TELNET DRIVERS CINT APIMODE
CFGFLAGS += -DNO_SAL_APPL -DNO_CTRL_C -DNO_FILEIO -DNO_MEMTUNE
# }
endif


ifdef FEATURE_EXCLUDE_LIST
# {
FEATURE_LIST := $(filter-out $(FEATURE_EXCLUDE_LIST), $(FEATURE_LIST))
# }
endif

# If L3 is not defined, remove MPLS_LM_DM if present.
ifeq (MPLS_LM_DM,$(findstring MPLS_LM_DM,$(FEATURE_LIST)))
# {
ifneq (L3,$(findstring L3,$(FEATURE_LIST)))
# {
FEATURE_LIST := $(filter-out MPLS_LM_DM, $(FEATURE_LIST))
# }
endif
# }
endif

CFGFLAGS += $(foreach feature,$(FEATURE_LIST), -DINCLUDE_$(feature))

ifeq (IPSEC,$(findstring IPSEC,$(FEATURE_LIST)))
DIAG_IPSEC=1
endif

#
# Robo5324 support MDC/MDIO.
#
ifdef ROBO_CHIPS
```

```
# {
ifndef ROBO_OLD
# {
CFGFLAGS += -DEBBUS_BIT16
# }
endif

ifdef BCM_89500_A0
# {
ifeq (WR_LINUX,$(BUILD_PLATFORM))
# {
ifeq (3.0,$(WRS_LINUX_VERSION))
# {
ifeq (unix-user,$(target))
# {
CFGFLAGS += -DINCLUDE_APS_DIAG_LIBS
# }
endif
# }
endif
# }
endif

ifeq ($(targetbase), vxworks)
# {
ifeq ($(targetplat), keystone)
# {
CFGFLAGS += -DINCLUDE_APS_DIAG_LIBS
# }
endif
# }
endif

# }
endif

# }
endif

ifneq ($(targetbase),vxworks)
# {
# Make sure that VX_VERSION doesn't indicate VX_WORKS even if set
VX_VERSION = ''
# }
endif


ifdef SBX_CHIPS
```

```
# {
CFGFLAGS += -DCHECK_BUILD -DZDT_SIM -DSB_FAB_LOG_WITH_BCM

ifdef BCM_FE2000_A0
# {
# Microcode options: Default microcode is G2P2; all supported
# microcodes are compiled in by default
# CFGFLAGS += -DBCM_FE2000_P2_SUPPORT=0
CFGFLAGS += -DBCM_FE2000_P3_SUPPORT=1
CFGFLAGS += -DBCM_FE2000_G2XX_SUPPORT=1
# BCM_FE2000_P2=0
BCM_FE2000_P3=1
BCM_FE2000_G2XX=1
# }
endif

ifdef BCM_88030_A0
# {
#Caladan3 g3p1 support
CFGFLAGS += -DBCM_CALADAN3_G3P1_SUPPORT
CFGFLAGS += -DBCM_CALADAN3_T3P1_SUPPORT

ifndef PCID_BUILD
# {
#Caladan3 SVK support
CFGFLAGS += -DBCM_CALADAN3_SVK
# }
else
# {
#Sim support for PCID Builds
CFGFLAGS += -DBCM_CALADAN3_SIM
# }
endif

# }
endif

# }
endif

ifndef DISPATCH_LIST
# {
ifdef ROBO_CHIPS
# {
DISPATCH_LIST = ROBO
# }
endif
ifdef ESW_CHIPS
```

```
# {
DISPATCH_LIST += RPC ESW
# }
endif
ifdef SBX_CHIPS
# {
DISPATCH_LIST += RPC SBX
ifdef BCM_88030_A0
# {
DISPATCH_LIST += CALADAN3
# }
endif
# }
endif

ifdef BCM_EA_SUPPORT
# {
CFGFLAGS += -DBCM_EA_SUPPORT
ifdef BCM_TK371X_SUPPORT
# {
DISPATCH_LIST += TK371X
# }
endif

# }
endif

# }
endif
ifdef BCM_88732_A0
# {
DISPATCH_LIST += SHADOW
# }
endif

#
# SAND_CHIPS means that at least one of Dune chip family defined
# aka DPP_CHIPS || DFE_CHIPS || DNX_CHIPS || DNXF_CHIPS
#
# If ANY 'dune chip' is supported (SAND_CHIPS = 1) then define
# BCM_SAND_SUPPORT (for C-preprocessor usage) to indicate that.
#

ifdef DPP_CHIPS
# {
DISPATCH_LIST += RPC PETRA
SAND_CHIPS = 1
# }
```

```
endif
ifdef DFE_CHIPS
# {
DISPATCH_LIST += RPC DFE
SAND_CHIPS = 1
# }
endif
#
# For 'dnx', we want only DNX
# See dispatcher.c
#
ifdef DNX_CHIPS
# {
DISPATCH_LIST += RPC DNX
SAND_CHIPS = 1
# }
endif

ifdef DNXF_CHIPS
# {
DISPATCH_LIST += RPC DNXF
SAND_CHIPS = 1
# }
endif

#
# If ANY 'dune chip' is supported then define BCM_SAND_SUPPORT to
# indicate that.
#
ifdef SAND_CHIPS
# {
CFGFLAGS += -DBCM_SAND_SUPPORT
# }
endif

CFGFLAGS += $(foreach dispatch,$(DISPATCH_LIST), -DBCM_$(dispatch)_SUPPORT)
ifneq (,$(findstring -DBCM_RPC_SUPPORT,$(CFGFLAGS)))
# {
CFGFLAGS += -DINCLUDE_LIB_CPUDB
CFGFLAGS += -DINCLUDE_LIB_CPUTRANS
CFGFLAGS += -DINCLUDE_LIB_DISCOVER
CFGFLAGS += -DINCLUDE_LIB_STKTASK
CFGFLAGS += -DDISCOVER_APP_DATA_BOARDID
# }
endif

ifdef DPP_CHIPS
# {
```

```
CFLAGS += -DDUNE_BCM -DLINK_PETRA_LIBRARIES -DLINK_PPD_LIBRARIES
ifdef BCM_88675_A0
# {
CFLAGS += -DBCM_JERICHO_SUPPORT
# }
endif
ifdef BCM_88375_A0
# {
CFLAGS += -DBCM_JERICHO_SUPPORT
# }
endif
ifdef BCM_88680_A0
# {
CFLAGS += -DBCM_JERICHO_PLUS_SUPPORT
# }
endif
ifdef BCM_88470_A0
# {
CFLAGS += -DBCM_QAX_SUPPORT
# }
endif
ifdef BCM_88270_A0
# {
CFLAGS += -DBCM_QUX_SUPPORT
# }
endif
ifdef BCM_8206_A0
# {
CFLAGS += -DBCM_FLAIR_SUPPORT
# }
endif
ifneq (,$(findstring -DPLISIM,$(CFLAGS)))
# {
CFLAGS += -DSAND_LOW_LEVEL_SIMULATION -DUSING_CHIP_SIM
DEBUG_SYMBOLS=TRUE
# }
endif
ifneq (, $(findstring PIONEER,$(FEATURE_LIST)))
# {
CFGFLAGS += -DINCLUDE_LIB_PIONEER_HOST
# }
endif
# }
endif

ifdef DNX_CHIPS
# {
ifdef BCM_88690_A0
```

```
# {
CFLAGS += -DBCM_JERICHO_2_SUPPORT
# }
endif
ifneq (,$(findstring -DPLISIM,$(CFLAGS)))
# {
CFLAGS += -DSAND_LOW_LEVEL_SIMULATION -DUSING_CHIP_SIM
DEBUG_SYMBOLS=TRUE
# }
endif
ifneq (, $(findstring PIONEER,$(FEATURE_LIST)))
# {
CFGFLAGS += -DINCLUDE_LIB_PIONEER_HOST
# }
endif
# }
endif

ifdef DFE_CHIPS
# {
CFLAGS += -DDUNE_BCM
ifneq (,$(findstring -DPLISIM,$(CFLAGS)))
# {
CFLAGS += -DSAND_LOW_LEVEL_SIMULATION -DUSING_CHIP_SIM
DEBUG_SYMBOLS=TRUE
# }
endif
# }
endif

ifdef DNXF_CHIPS
# {
ifneq (,$(findstring -DPLISIM,$(CFLAGS)))
# {
CFLAGS += -DSAND_LOW_LEVEL_SIMULATION -DUSING_CHIP_SIM
DEBUG_SYMBOLS=TRUE
# }
endif
# }
endif

ifneq (,$(findstring I2C,$(FEATURE_LIST)))
# {
CFGFLAGS += -DINCLUDE_I2C
# }
endif

ifneq (,$(findstring AEDEV,$(FEATURE_LIST)))
```

```
# {
CFGFLAGS += -DINCLUDE_LIB_AEDEV
# }
endif

ifneq (,$(findstring CINT,$(FEATURE_LIST)))
# {
CFGFLAGS += -DINCLUDE_LIB_CINT
CFGFLAGS += -DCINT_CONFIG_INCLUDE_SDK_SAL=1 -DCINT_CONFIG_INCLUDE_PARSER=1 -
DCINT_CONFIG_INCLUDE_CINT_LOAD=0
ifeq (,$(findstring EDITLINE,$(FEATURE_LIST)))
# {
CFGFLAGS += -DCINT_CONFIG_INCLUDE_PARSER_READLINE=0 -
DCINT_CONFIG_INCLUDE_PARSER_ADD_HISTORY=0
# }
endif
# }
endif

ifneq (,$(findstring C_UNIT,$(FEATURE_LIST)))
# {
CFGFLAGS += -DINCLUDE_LIB_C_UNIT
CFGFLAGS += -DC_UNIT_CONFIG_INCLUDE_SDK_SAL=1
# }
endif

ifndef VENDOR_LIST
# {
VENDOR_LIST = CALHOUN GAMMA BROADCOM
# }
endif
CFGFLAGS += $(foreach vendor,$(VENDOR_LIST), -DVENDOR_$(vendor))

ifndef BCM_PHY_LIST
# {
BCM_PHY_LIST=522X 54XX 5464 5421S 5482 54616 54680 54680E 52681E 54880E 54682 54684 54640
54640E 54880 SERDES SIMUL 8703 8705 8706 8072 8040 8481 8750 8729 84740 84756 54380 542XX 84334
84728 84749 84328 84793 82328 82381 82780
BCM_PHY_LIST += 82764 EGPHY28 82864 82109
ifdef ESW_CHIPS
# {
BCM_PHY_LIST += 8806X
# }
endif
# }
endif

CFGFLAGS += $(foreach phy,$(BCM_PHY_LIST), -DINCLUDE_PHY_$(phy))
```

```
ifneq (,(findstring 54880,$(BCM_PHY_LIST)))
# {
CFGFLAGS += -DINCLUDE_LONGREACH
# }
endif

# use QUIET=1 to control printing of compilation lines
ifdef QUIET
# {
Q:=@
# }
else
# {
Q:=
# }
endif

#
# Suffix to add to the "target" files to allow local builds with different
# flags. Set "target_suffix" to XXX to cause the build to put built objects
# in ${target}${target_suffix}. This allows things like building a debug
# version with different flags.  This may also be set in another Makefile.
#

#target_suffix :=

#
# Optional suffix to add to the build directory and output binary files
# to allow multiple builds to co-exist for various reasons.
#
#chip_suffix := -$(shell echo $(CHIP) | tr A-Z a-z)

#
# Combined suffixes
#
all_suffix = ${chip_suffix}${target_suffix}

#
# Default location to place binaries and make depend files for building
# purposes.
#
ifeq "$(HOSTTYPE)" "Windows2000PC"
# {
BLDROOTWITHDRIVE = ${SDK}/build/${target}${all_suffix}${bldroot_suffix}
BLDROOT = ${SDK_NO_DRIVE_NAME}/build/${target}${all_suffix}${bldroot_suffix}
# }
else # ifeq "$(HOSTTYPE)" "Windows2000PC"
```

```
# {

ifndef SDKBUILD
# {
SDKBUILD :=build
# }
endif

BLDROOT = ${SDK}/${SDKBUILD}/$(if
${BLDCONFIG},${BLDCONFIG}/)${target}${all_suffix}${bldroot_suffix}

# }
endif # ifeq "$(HOSTTYPE)" "Windows2000PC"

# This is needed because we cannot include Make.vxworks before Make.config
ifndef DEST_DIR_SUFFIX
# {
export DEST_DIR_SUFFIX :=$(subst $(realpath $(SDK))/systems,,$(realpath $(CURDIR)/$(dir ($(firstword
$(MAKEFILE_LIST))))))
ifeq ($(MAKELEVEL),0)
# {
# }
endif
# }
endif

ifeq ($(DEST_DIR),)
# {
export DEST_DIR :=${SDK}/${SDKBUILD}$(if ${BLDCONFIG},/${BLDCONFIG})$(DEST_DIR_SUFFIX)
# }
endif

ifdef LOCALDIR
# {
BLDDIR = ${BLDROOT}/${LOCALDIR}
ifeq "$(HOSTTYPE)" "Windows2000PC"
# {
BLDDIRWITHDRIVE = ${BLDROOTWITHDRIVE}/${LOCALDIR}
# }
endif
# }
else # ifdef LOCALDIR
# {
BLDDIR = ${BLDROOT}
ifeq "$(HOSTTYPE)" "Windows2000PC"
# {
BLDDIRWITHDRIVE = ${BLDROOTWITHDRIVE}
# }
```

```
endif
# }
endif # ifdef LOCALDIR

LIBDIR = ${BLDROOT}

#
# Export directory, where build objects used by the outside world are
# placed (exported header files, libs, bins)
#
EXPDIR = ${SDK}/export/${target}${all_suffix}

#
# Standard include paths
#

INCDIR = ${SDK}/include
ifdef ROBO_CHIPS
# {
INCDIR += -I$(SDK)/include/soc/robo -I$(SDK)/include/bcm_int/robo \
 -I$(SDK)/src/soc/robo
# }
endif

ifdef EA_CHIPS
# {
INCDIR += -I$(SDK)/include/soc/ea -I$(SDK)/include/bcm_int/ea
# }
endif

ifdef SBX_CHIPS
# {
ifndef NO_BCM_FE2000_A0
# {
INCDIR += \
 -I${SDK}/include/soc/sbx/g2eplib \
     -I${SDK}/include/soc/sbx/qe2k \
     -I${SDK}/include/soc/sbx/qe2kep \
     -I${SDK}/include/soc/sbx \
     -I${SDK}/include/soc/sbx/fabric
# }
else
# {
INCDIR += \
     -I${SDK}/include/soc/sbx/g2eplib \
     -I${SDK}/include/soc/sbx/qe2k \
     -I${SDK}/include/soc/sbx/qe2kep \
     -I${SDK}/include/soc/sbx \
```

```
    -I${SDK}/include/soc/sbx/fabric
# }
endif

ifdef BCM_88030_A0
# {
INCDIR += -I${SDK}/include/soc/sbx/caladan3
INCDIR += -I${SDK}/include/soc/sbx/caladan3/tmu
INCDIR += -I${SDK}/include/soc/sbx/caladan3/asm3
# }
endif

# }
endif

# MACSEC include paths
ifneq (,$(findstring MACSEC,$(FEATURE_LIST)))
# {
BUILD_MACSEC = 1
FEATURE_MACSEC = 1
MACSEC_BUILD_FLAG=-DBROADCOM_SAL -I${SDK} -I${SDK}/include -g -Wall -Werror -fno-strict-
aliasing

MACSEC_BUILD_FLAG += ${STD_CFLAGS}

ifndef MACSEC_HOME
# {
toast:; $(error 'The $$MACSEC_HOME environment variable is not set')
# }
endif
INCDIR += -I${SDK} -I${MACSEC_HOME}/include -I${MACSEC_HOME}/cli -
I${MACSEC_HOME}/phy/bcm54380  -I${MACSEC_HOME}/phy/bcm8729 -
I${MACSEC_HOME}/phy/bcm84756 -I${MACSEC_HOME}/phy/bcm84334  -
I${MACSEC_HOME}/phy/bcm84749  -I${MACSEC_HOME}/phy/dummyphy
CFGFLAGS += -DBROADCOM_SAL
# }
endif

# FCMAP include paths
ifneq (,$(findstring FCMAP,$(FEATURE_LIST)))
# {
FEATURE_FCMAP = 1
INCDIR += -I${SDK}  -I${SDK}/include -I${SDK}/src/soc/phy/fcmap/include
CFGFLAGS += -DBROADCOM_SAL
# }
endif
INCDIR += -I${SDK}  -I${SDK}/include -I${SDK}/src/soc/phy/chip/koi/merlin_koi_src
INCDIR += -I${SDK}  -I${SDK}/include -I${SDK}/src/soc/phy/chip/orca/eagle_orca_src
```

```
ifdef IMACSEC_HOME
INCDIR += -I${SDK}/src/soc/phy -I${SDK}/src/soc/phy/imacsec/include -
I${IMACSEC_HOME}/bcm_plp_base_t_sec
CFGFLAGS += -DINCLUDE_PLP_IMACSEC
CFGFLAGS += -DINCLUDE_PLP_UNIMAC
endif

# EAV APPL in diag is intended to be built
#ifneq (,$(findstring EAV_APPL,$(FEATURE_LIST)))
#BUILD_EAV_APPL = 1
#endif

ifneq (,$(findstring KNET,$(FEATURE_LIST)))
# {
BUILD_KNET = 1
ifdef KS_BUILD
# {
BUILD_ROBO_KNET = 1
# }
endif
ifdef IPROC_BUILD
# {
ifdef ROBO_CHIPS
# {
BUILD_ROBO_KNET = 1
# }
endif
# }
endif
# }
endif

# Start Checking for KBP feature
#
ifeq (KBP,$(findstring KBP,$(FEATURE_LIST)))
# {
ifndef KBP_DEVICE
# {
$(error "KBP Feature is Enabled, and no valid Device was defined. Define KBP_DEVICE=KBP_11K or
KBP_DEVICE=KBP_ALG")
# }
else
# {
ifeq (KBP_12K,$(findstring KBP_12K,$(KBP_DEVICE)))
# {
$(error "KBP_12K device not supported. Only KBP_11K and KBP_ALG devices are supported for KBP feature")
# }
```

```
endif
# }
endif

ifeq (KBP_11K,$(findstring KBP_11K,$(KBP_DEVICE)))
# {
DEVICE=nlm2
INCDIR += -I${SDK}/include/soc/kbp/nlm2/diagnostic
INCDIR += -I${SDK}/include/soc/kbp/nlm2/nlmxpt
INCDIR += -I${SDK}/include/soc/kbp/nlm2/simxpt
# }
endif

ifeq (KBP_12K,$(findstring KBP_12K,$(KBP_DEVICE)))
# {
DEVICE=nlm3
INCDIR += -I${SDK}/include/soc/kbp/nlm3/model
INCDIR += -I${SDK}/include/soc/kbp/nlm3/blackholexpt
INCDIR += -I${SDK}/include/soc/kbp/nlm3/xpt
# }
endif

ifneq (KBP_ALG,$(findstring KBP_ALG,$(KBP_DEVICE)))
# {
KBP_LIBDIR=${SDK}/src/soc/kbp/${DEVICE}/lib/${targetbase}-${targetplat}/${platform}/

CFLAGS += -DNLMPLATFORM_BCM
INCDIR += -I${SDK}/include
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/nlmdevmgr
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/arch
INCDIR += -I${SDK}/include/soc/kbp/common
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/nlmrangemgr
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/nlmgenerictblmgr
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/nlmfibtblmgr/api
INCDIR += -I${SDK}/include/soc/kbp/${DEVICE}/nlmfibtblmgr/common
# }
else
# {
INCDIR += -I${SDK}/include/soc/kbp/alg_kbp/include
CFLAGS += -DNLMPLATFORM_UNIX -DNLMPLATFORM_LINUX
# }
endif


ifeq ($(shell uname -m),x86_64)
# {
ifeq (DLONGS_ARE_64BITS,$(findstring DLONGS_ARE_64BITS,$(CFLAGS)))
# {
```

```
ifeq (DPTRS_ARE_64BITS,$(findstring DPTRS_ARE_64BITS,$(CFLAGS)))
# {
CFLAGS += -DNLM_BUILD64
# }
endif
# }
endif
# }
endif
# }
endif

# End Checking for KBP feature

#
# PHYMOD library support
#
# PHYMOD_CHIP_NAMES defines which internal PHYs require PHYMOD support.
# PHYMOD_PHY_LIST defines which external PHYs require PHYMOD support.
#
PHYMOD_CHIP_NAMES = BCM_53400_A0 BCM_88650_A0 BCM_88950_A0 BCM_88790_A0
BCM_88675_A0 BCM_56860_A0 BCM_88375_A0 BCM_88680_A0 BCM_88690_A0  BCM_88470_A0
BCM_88270_A0 BCM_8206_A0 BCM_56960_A0 BCM_88202_A0 BCM_56560_A0 BCM_56560_B0
BCM_56260_A0 BCM_56160_A0 BCM_56260_B0 BCM_56965_A0 BCM_56970_A0 BCM_53570_A0

PHYMOD_PHY_LIST = 82381 82764 8806X 82864 82109

# Define default PHYMOD support based on included PHYs
ifeq (,$(PHYMOD_SUPPORT))
# {
seekphymodchips = $(foreach chipname,$(PHYMOD_CHIP_NAMES),$(whereischip))
ifneq "$(findstring file,$(seekphymodchips))" ""
# {
PHYMOD_SUPPORT = 1
# }
endif
# }
endif
ifeq (,$(PHYMOD_SUPPORT))
# {
ifneq (,$(filter $(PHYMOD_PHY_LIST),$(BCM_PHY_LIST)))
# {
PHYMOD_SUPPORT = 1
# }
endif
# }
endif
```

```
# Include PHYMOD diagnotics by default
ifeq (,$(PHYMOD_DIAG))
# {
PHYMOD_DIAG = $(PHYMOD_SUPPORT)
# }
endif

# Configure PHYMOD build
ifeq (1,$(PHYMOD_SUPPORT))
# {
BUILD_PHYMOD = 1
INCDIR += -I${SDK}/libs/phymod/include
CFLAGS += -DPHYMOD_SUPPORT
CFLAGS += -DPHYMOD_TIER1_SUPPORT
CFLAGS += -DPHYMOD_INCLUDE_CUSTOM_CONFIG
ifeq (1,$(PHYMOD_DIAG))
# {
CFLAGS += -DPHYMOD_DIAG
# }
endif
# }
endif

PORTMOD_CHIP_NAMES = BCM_53400_A0 BCM_88950_A0 BCM_88790_A0 BCM_88670_A0
BCM_88675_A0 BCM_56860_A0 BCM_88375_A0  BCM_88680_A0 BCM_88690_A0 BCM_88470_A0
BCM_88270_A0 BCM_8206_A0 BCM_56960_A0 BCM_56560_A0 BCM_56560_B0 BCM_56160_A0
BCM_56965_A0 BCM_56970_A0 BCM_53570_A0

seekportmod =  $(foreach chipname,$(PORTMOD_CHIP_NAMES),$(whereischip))
#portmod support)
ifeq (,$(PORTMOD_SUPPORT))
# {
ifneq "$(findstring file,$(seekportmod))" ""
# {
PORTMOD_SUPPORT = 1
# }
endif
# }
endif

ifeq (1,$(PORTMOD_SUPPORT))
# {
BUILD_PORTMOD = 1
CFLAGS += -DPORTMOD_DIAG
CFLAGS += -DPORTMOD_SUPPORT
export PORTMOD_SUPPORT
# }
endif
```

```
#Add the devices that supports SW Autoneg to the lst below
SW_AN_CHIP_NAMES = BCM_56965_A0 BCM_56560_B0 BCM_56565_B0 BCM_56969_A0
BCM_56966_A0 BCM_56967_A0

ifeq (,$(SW_AUTONEG_SUPPORT))
# {
seekswanchips = $(foreach chipname,$(SW_AN_CHIP_NAMES),$(whereischip))
ifneq "$(findstring file,$(seekswanchips))" ""
# {
SW_AUTONEG_SUPPORT = 1
# }
endif
# }
endif

ifeq (1,$(SW_AUTONEG_SUPPORT))
# {
CFLAGS += -DSW_AUTONEG_SUPPORT
#}
endif



#
# Paths of where we install files for make install
#
# install_headers - where to install header files.
# install_lib     - where to install libs
# install_bin   - where to install completely linked binaries
#
install_headers = ${SDK}/export/include
install_lib = ${SDK}/export/lib/${target}
install_bin = ${SDK}/export/bin/${target}

#
# Compilation Flags
#
# Flags may be added to (see below)
#

INCDIR += -I${SDK}/src/soc/phy/phy8806x/include

INCFLAGS = -I${INCDIR} -I${SDK}/systems

CFLAGS += ${INCFLAGS}
CXXFLAGS += ${INCFLAGS}
CPPFLAGS += ${INCFLAGS}
```

```
#
# Debug #ifdef control
#
# Compiling out #ifdef DEBUG code saves about 1.3% on executable size.
# It is recommended to leave debug enabled when developing applications.
#
ifndef DEBUG_IFDEFS
# {
DEBUG_IFDEFS=TRUE
# }
endif

ifeq ($(DEBUG_IFDEFS),TRUE)
# {
CFLAGS += -DBROADCOM_DEBUG
CXXFLAGS += -DBROADCOM_DEBUG
CPPFLAGS += -DBROADCOM_DEBUG
# }
endif

#
# Debug symbol information control
#
ifneq ($(targetbase),ghs)
# {
ifndef DEBUG_SYMBOLS
# {
DEBUG_SYMBOLS=TRUE
# }
endif
# }
endif

ifeq ($(DEBUG_SYMBOLS),TRUE)
# {
CFLAGS += -g
CXXFLAGS += -g
CPPFLAGS += -g
# }
endif

ifndef BCM_88732_A0
# {
CFGFLAGS += -DNO_BCM_88732_A0
# }
endif
```

```
#
# If DEBUG_CFLAGS is set, add its contents to CFLAGS.
# May be useful for setting on the command line or adding to Make.local.
# Example: gmake DEBUG_CFLAGS=-save-temps system.c
#

ifneq ($(DEBUG_CFLAGS),)
# {
CFLAGS += $(DEBUG_CFLAGS)
CXXFLAGS += $(DEBUG_CFLAGS)
CPPFLAGS += $(DEBUG_CFLAGS)
# }
endif

#
# Optimization level
#
# Set DEBUG_OPTIMIZE to TRUE (default) to use a normal optimization
#  determined by OPTFLAGS_DEFAULT in the platform Makefile.
# Set DEBUG_OPTIMIZE to FALSE to use no optimization,
#  strongly recommended when using any debugger.
# Set DEBUG_OPTIMIZE to any other option string to request specific
#  optimization flags (for example -O2).
#
ifndef DEBUG_OPTIMIZE
# {
DEBUG_OPTIMIZE=TRUE
# }
endif

ifeq ($(DEBUG_OPTIMIZE),TRUE)
# {
OPTFLAGS += $(OPTFLAGS_DEFAULT)
# }
else
# {
ifneq ($(DEBUG_OPTIMIZE),FALSE)
# {
OPTFLAGS += $(DEBUG_OPTIMIZE)
# }
endif
# }
endif

#
# Debug assertion control.
#
# Compiling out assert() saves about 1.1% on executable size,
```

```
# however doing so is VERY MUCH discouraged.
#
ifndef DEBUG_ASSERTS
# {
DEBUG_ASSERTS=TRUE
# }
endif

ifeq ($(DEBUG_ASSERTS),FALSE)
# {
CFLAGS += -DNDEBUG
CXXFLAGS += -DNDEBUG
CPPFLAGS += -DNDEBUG
# }
endif

#
# GCC pedantic mode.
#
ifeq ($(DEBUG_PEDANTIC),TRUE)
# {
CFGFLAGS += -D__PEDANTIC__
CFLAGS += --pedantic
CXXFLAGS += --pedantic
# }
endif

#
# In each directory, build a list of local sources, objects, and headers
#
LSRCS = $(wildcard *.c *.cpp *.s *.cc *.C)
LOBJS = $(addsuffix .o, $(basename ${LSRCS}))
BOBJS =  $(addprefix ${BLDDIR}/,${LOBJS})
LHDRS = $(wildcard *.h *.H)
LDOTIS = $(wildcard *.i)


ifeq ($(TOOLS),Borland)
# {
BORLAND_LOBJS = $(addsuffix .obj, $(basename ${LSRCS}))
#BORLAND_BLDDIR =  $(subst, \,/, $(subst -,_,$(BLDDIR)))
BORLAND_BLDDIR =  $(BLDDIR)
BORLAND_BOBJS =  $(addprefix ${BORLAND_BLDDIR}/,${BORLAND_LOBJS})
# }
endif

#
# Rule to create object file (build) directory
```

```
#

.PHONY: all install clean distclean

.PRECIOUS: ${BLDDIR}/.tree

%/.tree:
 @$(ECHO) Creating build directory $(dir $@)
 $Q($(MKDIR) $(dir $@); $(TOUCH) $@)

# Rule allowing build through CPP only, creates .E file from .c file.

%.E: %.c
 $Q$(CC) -E ${CFLAGS} $< | $(SED) -e '/^ *$$/d' -e p -e d > $@

# Rule allowing build through source only, creates .s file from .c file.

%.s: %.c
 $Q$(CC) -S ${CFLAGS} $<

# allow disabling of dependency file generation
# enable partial recompilation through use of included
# dependency make files
#
ifndef NO_SDK_DEPS
# {
# take the compiler generated .d file and reparse it
# to generate a dependency graph rule for this object
# file
# the two steps generate:
#  file.o: file.c \
# file.h ...
#
#  file.h:
#  header.h:
# some compilers will generate errors without the latter
# part of the list

.PHONY: .phony

DEPS_SED = \
 $(CP) $(BLDDIR)/$*.d $(BLDDIR)/$*.tmp;\
 $(ECHO) >> $(BLDDIR)/$*.tmp;\
 $(SED) -e 's/\#.*//' -e 's/^[^:]*: *//' \
 -e 's/ *\\$$//' -e '/^$$/ d' -e 's/$$/ :/' \
 -e '/^ .$$/d' \
 < $(BLDDIR)/$*.d >> $(BLDDIR)/$*.tmp; \
 $(SED) -e 's|^\([^\/ ].*\.o\):|'$(BLDDIR)/'\1:|g'  \
```

```
 -e 's|.*?/\(.*\.o\):|'$(BLDDIR)/'\1:|g'  \
 < $(BLDDIR)/$*.tmp > $(BLDDIR)/$*.P; \
 $(RM) -f $(BLDDIR)/$*.d $(BLDDIR)/$*.tmp
DEPS_CMD = $(DEPS_SED)

ifeq ($(targetbase),ghs)
# {
DEPS_CMD = $(DEPS_SED)
# }
else
# {
ifeq ($(VX_VERSION),55)
# {
# this supports the tornado 2.x.x compiler
# (VxWorks 5.x)
DEPS_CMD = $(DEPS_SED)
# }
else
# {
ifneq ($(findstring gnu,$(TOOL)),)
# {
# Gnu compilers always support -MD -MF
DEPS_OPT = -MD -MF $(BLDDIR)/$*.d
DEPS_CMD = $(DEPS_SED)
# }
else
# {
ifneq (,$(filter 64 65,$(VX_VERSION)))
# {
BCM_CFLAGS = -Xstop-on-warning -Xlint
DEPS_OPT = -Xmake-dependency=4 -Xmake-dependency-savefile=$(BLDDIR)/$*.d
DEPS_CMD = $(DEPS_SED)
# }
else
# {
ifneq ($(findstring i686,$(CROSS_COMPILE)),)
# {
# Gcc 2.95 does not support -MD -MF with -o and -c
# }
else
# {
# newer gnu-based compilers allow -MD -MF
DEPS_OPT = -MD -MF $(BLDDIR)/$*.d
DEPS_CMD = $(DEPS_SED)
# }
endif
# }
endif
```

```
# }
endif
# }
endif
# }
endif

# From gmsl

# Standard definitions for true and false.  true is any non-empty
# string, false is an empty string. These are intended for use with
# $(if).

true  := T
false :=

# ------------------------------------------------------------------------------
# Function:  not
# Arguments: 1: A boolean value
# Returns:   Returns the opposite of the arg. (true -> false, false -> true)
# ------------------------------------------------------------------------------
not = $(if $1,$(false),$(true))

# ------------------------------------------------------------------------------
# Function:  map
# Arguments: 1: Name of function to $(call) for each element of list
#            2: List to iterate over calling the function in 1
# Returns:   The list after calling the function on each element
# ------------------------------------------------------------------------------
map = $(strip $(foreach a,$2,$(call $1,$a)))

# ------------------------------------------------------------------------------
# Function:  seq
# Arguments: 1: A string to compare against...
#            2: ...this string
# Returns:   Returns $(true) if the two strings are identical
# ------------------------------------------------------------------------------
seq = $(if $(filter-out xx,x$(subst $1,,$2)$(subst $2,,$1)x),$(false),$(true))

# ------------------------------------------------------------------------------
# Function:  sne
# Arguments: 1: A string to compare against...
#            2: ...this string
# Returns:   Returns $(true) if the two strings are not the same
# ------------------------------------------------------------------------------
sne = $(call not,$(call seq,$1,$2))

# End from gmsl
```

```
# Define comma symbol so we can repace it with a variable
comma :=,

# Signature
last_target :=

dump_var = $$(eval $1 := $($1))

define new_rule
@echo '$(call map,dump_var,@ < *)' > $S
@$(if $(wildcard $F),,touch $F)
@echo $@: $F >> $S
endef

define do
$(eval S := $(BLDDIR)/$*.sig)$(eval F := $(BLDDIR)/$*.force)$(eval C := $1)
$(if $(call sne,$@,$(last_target)),$(call new_rule),$(eval last_target := $@))
@echo '$$(if $$(call sne,$$(sort $1),$(sort $(subst $(comma),$$(comma),$C))),$$(shell touch $F))' >> $S
$Q$C
endef

# end of Signature


# }
else # ifndef NO_SDK_DEPS
# {
# No dependency files, faster compile times
# no partial compile support
DEPS_SED =
DEPS_OPT =
DEPS_CPY =
DEPS_CMD = /bin/true

define do
$(eval C := $1)
$Q$C
endef

# }
endif

#
# Default Build rules for .c --> .o, leaving the binary in BLDDIR/X.o,
# even if file not built from directory of source.
#
ifeq ($(FAST),1)
```

```
# {
${BLDDIR}/%.o: %.c
# }
else
# {
ifdef GENERATE_C_FILES
# {
${BLDDIR}/%.o: %.c
# }
else
# {

${BLDDIR}/%.o: %.c
# }
endif
# }
endif
# echo Compiling needed to properly process errors
 @$Q$(ECHO) Compiling ${LOCALDIR}/$<
 $Q$(MKDIR) $(BLDDIR)/
 $Q$(RM) -f $@
# 55 is VERY different
ifeq ($(VX_VERSION),55)
# {
 $Q$(CC) -M $(CFLAGS) $(EXTRA_CFLAGS)  $(realpath $<) > $(BLDDIR)/$*.d && ($(DEPS_CMD))
 $(call do,$$(CC) $$(CFLAGS) $$(EXTRA_CFLAGS) -o $$@  -c $$(realpath $$<))
# }
else
# {
 $(call do,$$(CC) $$(DEPS_OPT) $$(CFLAGS) $$(EXTRA_CFLAGS) -o $$@ -c $$(realpath $$<))  &&
($(DEPS_CMD))
# }
endif

${BLDDIR}/%.o: %.s
ifdef QUIET
# {
 @$(ECHO) Assembling ${LOCALDIR}/$<
# }
endif
 $Q$(CC) ${CFLAGS} ${EXTRA_CFLAGS} -o $@ -c $(realpath $<)

${BLDDIR}/%.o: %.cpp
ifdef QUIET
# {
 @$(ECHO) Compiling ${LOCALDIR}/$<
# }
endif
```

```
 $Q$(CXX) ${CXXFLAGS}  -o $@ -c $(realpath $<)

${BLDDIR}/%.o: %.cc ${BLDDIR}/.tree
ifdef QUIET
# {
 @$(ECHO) Compiling ${LOCALDIR}/$<
# }
endif
 $Q$(CXX) ${CXXFLAGS} -o $@ -c $(realpath $<)

#
# Cause "make foo.o" in any subdirectory to put the object in the build
# directory instead of the local directory.
#
%.o: ${BLDDIR}/%.o
 @

#
# Borland/NT
#
ifeq ($(TOOLS),Borland)
# {
${BLDDIR}/%.obj: %.c
 bcc32 -D__BORLAND__ $(CFGFLAGS) \
  -I$(subst /,\,$(SDK)\include) \
  $(SYSINCLUDES) -o$@ -c $<
# }
endif

#
# Java Support
#
JAVAC = /bin/javac
JAVACFLAGS= -nowarn

${BLDDIR}/%.class: %.java
 $(JAVAC) ${JAVACFLAGS} -d ${BLDDIR} $<

%.Z: %
 @$(ECHO) Compressing $< .....
 @$(COMPRESS) -c $< > $@

%.gz: %
 @$(ECHO) Compressing $< .....
 @$(GZIP) -c $< > $@


#
```

```
# Some Basic tools
#
INSTALL = /usr/ucb/install
INSTALLFLAGS =
CTAGS   = ctags
ETAGS = etags

#
# List of directories where built objects live.
# (we are not making the export directories for now)
#
#DIRS = ${BLDDIR} ${EXPDIR}/lib ${EXPDIR}/bin ${EXPDIR}/include
DIRS = ${BLDDIR}

#
# Targets for build
#
include ${SDK}/make/Make.targets

ifeq (C_COMPILER,$(MAKECMDGOALS))
# {
C_COMPILER:
 @echo $(CC)
# }
endif

ifeq (CXX_COMPILER,$(MAKECMDGOALS))
# {
CXX_COMPILER:
 @echo $(CXX)
# }
endif

#
# Required for building PHYMOD library
#
ifeq (1,$(BUILD_PHYMOD))
# {
export CC
export AR
export ARFLAGS
export CROSS_COMPILE
export PHYMOD_BLDDIR = $(LIBDIR)
export PHYMOD_OBJDIR = $(BLDDIR)
export PHYMOD_EPIL_BLDDIR = $(LIBDIR)
export PHYMOD_EPIL_OBJDIR = $(BLDDIR)
export PHYMOD_CPPFLAGS = $(CFLAGS)
export PHYMOD_MAKE_RULES = $(SDK)/make/Make.phymod
```

```
# }
endif
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.config
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hashing.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hashing.c
* Purpose:     TR3-Hash calcualtions for trunk and ECMP packets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/hashing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_oamp_pe.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_oamp_pe.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mim_mp_roo.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mim_mp_roo.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_koi_functions.c                                  *
*  Created On    :  29/04/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  APIs for Serdes IPs                                     *
*  Revision      :  $Id: merlin_koi_functions.c 1103 2015-08-14 16:57:21Z kirand $ *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                        *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_functions.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_device_management.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Management/sand_device_management.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_device_management.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueStateEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueStateEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3sw_test.c,v 1.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       c3sw_test.c
* Purpose:     Run a Caladan3 Software driver Drivers tests
*
*
* Notes:
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/c3sw_test.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_frwrd_ipv4.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_frwrd_ipv4.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84328_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84758_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/switch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84318_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84793_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82328_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: interrupt_handler.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dfe/interrupts/interrupt_handler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_ptp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_ptp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/include/tdm_th2_defines.h#13 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM macro values for BCM56970
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk2/tdm_th2_defines.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod16_defines.h,v 1.1.1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators and temod16_st
```

```
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpV6TciConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpV6TciConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmRandomNumGenEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmRandomNumGenEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_occupation_bitmap.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*************************************************************************
* NAME:
*     dnx_sand_occ_bm_tests
* TYPE:
*   PROC
* DATE:
*   Mar  6 2008
* FUNCTION:
*     Tests the bit map module
*
*INPUT:
*   DNX_SAND_IN  int    unit -
*     Identifier of the device to access.
*  DNX_SAND_DIRECT:
```

```
*    DNX_SAND_IN uint32 silent -
*    Indicator.
*    1 - Do not print debuging info.
*    0 - Print various debuging info.
*  DNX_SAND_INDIRECT:
*    None.
*OUTPUT:
*  DNX_SAND_DIRECT:
*    uint32 -
*    Indicator.
*    1 - Test pass.
*    0 - Test fail.
*  DNX_SAND_INDIRECT:
*    NON
*REMARKS:* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_occupation_bitmap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwDstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwDstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwDstEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.c
```

```
* Purpose:     BCM definitions  for bcm_switch_control and
*              bcm_switch_port_control functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_l3uc.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_l3uc.c
* Purpose: Maintains all the debug information for l3uc(layer 3 unicast)
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3uc/trident2plus_l3uc.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc Broadcom BCM47XX MDC/MDIO enet phy definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmenetphy.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmenetphy.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_main.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core main functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/esw/tdm/core/tdm_main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.48 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tx.c
* Purpose: Implementation of bcm_petra_tx* API for dune devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/policer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_srab.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X SRAB utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/robo_srab.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgTmePortRemapAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgTmePortRemapAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.68 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Soc_petra-B Multicast Implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/multicast.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lynx.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	lynx.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/lynx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmxpt.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/xpt/nlmxpt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/phymod_sim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_1EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmIngressRankerEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmPortsetLinkEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_qsgmiie_serdes_resetval.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tsn.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/port.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwAllocCfgBaseEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_0EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_eagle_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEgressRankerEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/preemption.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/switch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600FoLinkStateTableEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_0EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPortVridSmacTableEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_qtce_serdes_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/preemption_cnt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart2EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/preemption_cnt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_dump.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/mcast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/include/phymod/chip/bcmi_viper_xgxs_resetval.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_falcon_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/viper_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_sgmiip2x4_serdes_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_1EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tsce_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/preemption.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/greyhound2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_1EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tscf_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_0EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_utils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/tsn.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwFetchValidEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredCfgBaseEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaSysportMapEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaRandomNumGenEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmRandomNumGenEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmSysportArrayEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmFullStatusEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank0EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/knet-cb/knet-cb.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/include/phymod/chip/falcon_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/alloc_list.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound2/bondoptions.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tscf_16nm_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmPortsetInfoEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tsce_xgxs_resetval.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/preemption.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_sc_lkup_table.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank1EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_viper_xgxs_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/preemption_cnt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qtce_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_qsgmiie_serdes_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce16_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart1EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaNmPriorityUpdateConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tsce_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/tscf16_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/qsgmiie_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi2Selected_0EntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/eagle_sim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmRateDeltaMaxTableEntryConsole.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/include/phymod/chip/bcmi_tscf_xgxs_gen2_sym.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_1EntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dcmn_mbist.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_mbist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.h,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/mbcm.h
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 12x1GE+1xHG[42] setup
# $Id: Broadcom SDK $
```

```
ddr3_auto_tune=0
load_firmware=1
lrp_bypass=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

#C3 Fabric side 1xHG[42]on CL1{XMAC0}

ucode_num_ports.0=12
ucode_port.port1.0=clport0.ge.0.0:clport1.hg42.0.0
ucode_port.port2.0=clport0.ge.0.1:clport1.hg42.0.1
ucode_port.port3.0=clport0.ge.0.2:clport1.hg42.0.2
ucode_port.port4.0=clport0.ge.0.3:clport1.hg42.0.3
ucode_port.port5.0=clport0.ge.1.0:clport1.hg42.0.4
ucode_port.port6.0=clport0.ge.1.1:clport1.hg42.0.5
ucode_port.port7.0=clport0.ge.1.2:clport1.hg42.0.6
ucode_port.port8.0=clport0.ge.1.3:clport1.hg42.0.7
ucode_port.port9.0=clport0.ge.2.0:clport1.hg42.0.8
ucode_port.port10.0=clport0.ge.2.1:clport1.hg42.0.9
ucode_port.port11.0=clport0.ge.2.2:clport1.hg42.0.10
ucode_port.port12.0=clport0.ge.2.3:clport1.hg42.0.11


higig2_hdr_mode_hg0=1

serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2
serdes_qsgmii_sgmii_override_ge4=2
serdes_qsgmii_sgmii_override_ge5=2
serdes_qsgmii_sgmii_override_ge6=2
serdes_qsgmii_sgmii_override_ge7=2
serdes_qsgmii_sgmii_override_ge8=2
serdes_qsgmii_sgmii_override_ge9=2
serdes_qsgmii_sgmii_override_ge10=2
serdes_qsgmii_sgmii_override_ge11=2


xgxs_rx_lane_map_ge0=0x1230
xgxs_rx_lane_map_ge4=0x1032
xgxs_rx_lane_map_ge8=0x1230

xgxs_tx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge4=0x3210
```

xgxs_tx_lane_map_ge8=0x1032

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0000
phy_xaui_rx_polarity_flip_ge2=0x0000
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0000
phy_xaui_rx_polarity_flip_ge11=0x0001

phy_xaui_tx_polarity_flip_ge0=0x0001
phy_xaui_tx_polarity_flip_ge1=0x0001
phy_xaui_tx_polarity_flip_ge2=0x0000
phy_xaui_tx_polarity_flip_ge3=0x0000
phy_xaui_tx_polarity_flip_ge4=0x0001
phy_xaui_tx_polarity_flip_ge5=0x0001
phy_xaui_tx_polarity_flip_ge6=0x0001
phy_xaui_tx_polarity_flip_ge7=0x0001
phy_xaui_tx_polarity_flip_ge8=0x0000
phy_xaui_tx_polarity_flip_ge9=0x0000
phy_xaui_tx_polarity_flip_ge10=0x0001
phy_xaui_tx_polarity_flip_ge11=0x0001

phy_fiber_pref_ge0=1
phy_fiber_pref_ge1=1
phy_fiber_pref_ge2=1
phy_fiber_pref_ge3=1
phy_fiber_pref_ge4=1
phy_fiber_pref_ge5=1
phy_fiber_pref_ge6=1
phy_fiber_pref_ge7=1
phy_fiber_pref_ge8=1
phy_fiber_pref_ge9=1
phy_fiber_pref_ge10=1
phy_fiber_pref_ge11=1

```
phy_automedium_ge1=1
phy_automedium_ge0=1
phy_automedium_ge2=1
phy_automedium_ge3=1
phy_automedium_ge4=1
phy_automedium_ge5=1
phy_automedium_ge6=1
phy_automedium_ge7=1
phy_automedium_ge8=1
phy_automedium_ge9=1
phy_automedium_ge10=1
phy_automedium_ge11=1


phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004
phy_port_primary_and_offset_ge5=0x0005
phy_port_primary_and_offset_ge6=0x0006
phy_port_primary_and_offset_ge7=0x0007
phy_port_primary_and_offset_ge8=0x0800
phy_port_primary_and_offset_ge9=0x0801
phy_port_primary_and_offset_ge10=0x0802
phy_port_primary_and_offset_ge11=0x0803




#C3 Fabric side 1xHG[42]on CL1{XMAC0}
xgxs_rx_lane_map_hg0=0x1032


xgxs_tx_lane_map_hg0=0x1032
xgxs_tx_lane_map_ge12=0x3012
xgxs_tx_lane_map_ge16=0x3210

#xgxs_lcpll_xtal_refclk_ge48=25
#xgxs_lcpll_xtal_refclk_ge49=25


ddr3_tune_rd_dq_wl1_rp_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_wr_dq_wl0_ci4.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x99999797,0x96969292
ddr3_tune_vref_ci6.0=0x0000075d
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10.0=0x00a2a4a0,0x009d9f9b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci10.0=0x98989393,0x97979797
ddr3_tune_rd_en_ci2.0=0x009c9d9c,0x00a0a39d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000af
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000075d
ddr3_tune_rd_en_ci12.0=0x009a9a9b,0x00969895
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci12.0=0x92929494,0x97979898
ddr3_tune_rd_dqs_ci0.0=0x92929a9a,0x99999696
ddr3_tune_rd_en_ci4.0=0x009b9a9c,0x00989a96
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000af
ddr3_tune_wr_dq_wl0_ci14.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00999a99,0x009b9e98
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b

ddr3_tune_rd_dqs_ci14.0=0x98989a9a,0x9a9a9797
ddr3_tune_rd_dqs_ci2.0=0x98989797,0x98989797
ddr3_tune_rd_en_ci6.0=0x00999a98,0x00959793
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8c8c8c8c,0x8c8c8c8c,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x92929292,0x92929292,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dqs_ci4.0=0x97979797,0x98989898
ddr3_tune_rd_en_ci8.0=0x00979797,0x00989b96
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b0
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci6.0=0x98989191,0x9a9a9999
ddr3_tune_vref_ci4.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x8a8a8a8a,0x8a8a8a8a,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci0.0=0x00a09fa2,0x009c9f99
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-12x1g_1xhg42.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* STG CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/stg.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy.h,v 1.121 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Useful constants and routines for PHY chips which
* run with Orion (10/100/1000 Mb/s enet) and use MII, GMII,
* or 8b/10b Serdes interfaces.
*
* See Also: IEEE 802.3 (1998) Local and Metropolitan Area Networks
* Sections 22.2.4-XX
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* : temod_enum_defines.h,
* : n *
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*----------------------------------------------------------------------
* Description: This file contains enums, elems, and doxygen comments
* needed for SerDes Configuration programs.
```

```
*-----------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------
*/
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_enum_defines.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 1355 2016-02-12 23:21:46Z cvazquez $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                            *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/common/srds_api_enum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/public/srds_api_enum_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_port.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_sirius_tme_setup.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains examples for both TM and inline TM configurations
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/cint_sirius_tme_setup.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2mc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The goal of this test is to check basic multicast and broadcast features of
* the chip.
* Test Sequence:
* 1. Group all active front panel ports into groups of (NumCopy + 1) ports.
*    Each group constitutes 1 multicast "stream". All ports in a stream should
*    either be Ethernet or HG2 and have the same line rate, although they may
*    have different oversub ratios.
* 2. Let us assume a stream has n ports P0, P1 ... Pn. The ports should be
*    arranged such that the P1 is the slowest port, i.e. has the highest
*    oversub ratio.
* 3. Turn off all flow control, set MAC loopback on all ports and set
*    IGNORE_MY_MODID to 1 on ING_CONFIG_64.
* 4. For Ethernet streams:
*      a.  Place all ports in the stream on a single VLAN, say VLAN0.
*      b.  Place ports P0 and P1 on a second VLAN, say VLAN1.
*      c.  Create a 3rd VLAN, say VLAN3 with no ports on it.
*      d.  Add the following VLAN translations:
*          i.  Port=P0 OldVlan=VLAN1 NewVlan=VLAN0
*          ii. Port=P1 OldVlan=VLAN0 NewVlan=VLAN1
*          iii.    Ports=P2, P3 ... Pn OldVlan=VLAN0 NewVlan=VLAN2
* 5. For HG2 streams:
*      a.  Place port P0 on VLAN0.
```

```
*      b.  Place ports P0, P1 ... Pn on VLAN1.
*      c.  Place all ports in the stream except P0, i.e. P1, P2 ... Pn on VLAN2
*      d.  Create 3 entries, say L2MC0, L2MC1 and L2MC2.
*          i.  L2MC0: PORT_BITMAP = P0
*          ii. L2MC1: PORT_BITMAP = P0
*          iii.    L2MC2: PORT_BITMAP = P1, P2 ... Pn
*      e.  Add the following IFP entries:
*          i.  Qualifier: OuterVlan=VLAN0, Actions: OuterVlanNew=VLAN1, RedirectMcast=L2MC0
*          ii. Qualifier: OuterVlan=VLAN2, Actions: OuterVlanNew=VLAN1, RedirectMcast=L2MC1
*          iii.Qualifier: OuterVlan=VLAN1, Actions: OuterVlanNew=VLAN2, RedirectMcast=L2MC2
* 6. Send packets from CPU port on VLAN0 of each stream to flood the stream.
*    If FloodCnt=0, the test will determine the number of packets to send based.
*    These values are obtained empirically through trial and error for LR ports
*    for NumCopy=2 and adjusted for oversub configs based on oversub ratio.
*    Embed the packet size and random seed used to generate each packet in the
*    payload.
* 7. Allow the packets to swill for a fixed amount of time decided by RateCalcInt.
* 8. Snoop back all packets in each stream to the CPU using the following sequence:
*      a.  Program CPU_CONTROL_0.UVLAN_TOCPU=1. This sends all packets with an
*          unknown VLAN to CPU.
*      b.  Invalidate VLAN0 for Ethernet Streams and VLAN1 for HG2 streams by
*          setting VALID=0 in the VLAN table
* 9. Decode each received packet to obtain the random seed and packet size.
*    Reconstruct the expected packet and check the received packet for integrity.
*
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*          ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swill. Setting this to 0 will let the
*           test calculate the number of packets that can be sent to achieve
*           a lossless swirl at full rate. Set to 0 by default.
* NumCopy: Number of multicast copies in each stream (2 by default).
* RateCalcInt: Interval in seconds over which rate is to be calculated
* TolLr: Rate tolerance percentage for linerate ports (1% by default).
* TolOv: Rate tolerance percentage for oversubscribed ports (3% by default).
* ChkPktInteg: Set to 0 to disable packet integrity checks, 1 to enable (default).
* MaxNumCells: Max number of cells for random packet sizes. Default = 4. Set
*              to 0 for random.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_l2mc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueArrivalsEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueArrivalsEntryConsole.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_timna_api.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_timna_api.c
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allregs_t.i
* Purpose: Independent register descriptions.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_t.i
No license file was found, but licenses were detected in source scan.

/*
* $Id: regtest.c,v 1.92 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register Tests
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/regtest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_vxlan.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_vxlan.c
* Purpose: This file implements techsupport utility for
*          vxlan.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vxlan/techsupport_vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/*
*****************************************************************************************
```

Copyright 2009-2012 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors, and may only be used, duplicated, modified or distributed pursuant to the terms and conditions of a separate, written license agreement executed between you and Broadcom (an "Authorized License").Except as set forth in an Authorized License, Broadcom grants no license (express or implied),right to use, or waiver of any kind with respect to the Software, and Broadcom expressly reserves all rights in and to the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the valuable trade secrets of Broadcom, and you shall use all reasonable efforts to protect the confidentiality thereof,and to use this information only in connection with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER

EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/api/nlmfibtblmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_uint32.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmgenerictblmgr/nlmtblmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmgenerictblmgr/nlmblkmemmgrint.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgtmftm_refapp/nlmgtmftm_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_memorytest.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/arch/nlmarch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmmath.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmopenhash_impl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgtmftm_refapp/nlmgtmftm_refapp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_registertest.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmrbtree_str.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/kbp/nlm2/nlmgenerictblmgr/nlmgenerictblmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_mt_refapp/nlmfibtblmgr_mt_common.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr/nlmblkmemmgr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmprefix.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmstoragefactory.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmxpt/nlmxpt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmrangemgr/nlmrangemgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmrangemgr_refapp/nlmrangemgr_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_mt_refapp/nlmdevmgr_mt_refapp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_ptr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmnstblrqt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_interactive_tests.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_int32.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_device_dump.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_mt_refapp/nlmfibtblmgr_mt_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/simxpt/nlmsimxpt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmbitset.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_str.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_udef.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_impl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_interactive_tests.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmpfxbundle.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/kbp/nlm2/nlmrangemgr_refapp3/nlmrangemgr_refapp3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmxpt/nlmxpt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmfile.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmopenhash_pfxbundle.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_refapp/nlmfibtblmgr_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr_display.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/simxpt/nlmsimxpt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmgenerictblmgr/nlmblkmemmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr_display.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_mt_refapp/nlmdevmgr_mt_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmgenerictblmgr/nlmxktblmgr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_byte.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmrbtree_int32.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr_shadow.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/api/nlmnslog.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmopenhash_def.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmdevmgr_refapp/nlmdevmgr_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmfibtblmgr_mt_refapp/nlmfibtblmgr_mt_refapp.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmarray_def.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr/nlmgenerictblmgr.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmrbtree_uint32.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/nlmgenerictblmgr_refapp/nlmgenerictblmgr_refapp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmfactoryalloc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmopenhash_udef.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmregistry.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_registertest.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmrbtree_ptr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmdevmgr/nlmdevmgr_ss.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm2/nlmfibtblmgr/common/nlmcmseqgen.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm2/diagnostic/nlmdiag_comparetest.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: infix.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/infix.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dpp_dbal.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/dbal/dbal_phy.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_flp_dbal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_sw_state_tables.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/dbal/dbal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_fields.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_dbal.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_tables.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fe3200_link.c
* Purpose:    Hardware Linkscan module
*
* These routines will be called by the linkscan module,
* so they need to be defined and return SOC_E_NONE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: metrics.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:    metrics.c
*
* Purpose:
*
* Functions:
*     bcm_common_ptp_ctdev_alarm_callback_register
*     bcm_common_ptp_ctdev_alarm_callback_unregister
*     bcm_common_ptp_ctdev_alpha_get
*     bcm_common_ptp_ctdev_alpha_set
*     bcm_common_ptp_ctdev_enable_get
*     bcm_common_ptp_ctdev_enable_set
*     bcm_common_ptp_ctdev_verbose_get
*     bcm_common_ptp_ctdev_verbose_set
*
*     _bcm_ptp_ctdev_init
*     _bcm_ptp_ctdev_gateway
*     _bcm_ptp_ctdev_phase_accumulator
*     _bcm_ptp_ctdev_calculator
*     _bcm_ptp_ctdev_get
*     _bcm_ptp_llu_div
*     _bcm_ptp_llu_isqrt
*     _bcm_ptp_xorshift_rand
*     _bcm_ptp_ctdev_g823_mask
*     _bcm_ptp_circular_buffer_init
*     _bcm_ptp_circular_buffer_free
*     _bcm_ptp_circular_buffer_write
*     _bcm_ptp_circular_buffer_read
*     _bcm_ptp_circular_buffer_peekn
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/metrics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_diag.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_diag.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/topo.h
No license file was found, but licenses were detected in source scan.

```
/*
* Generic Broadcom Home Networking Division (HND) DMA engine HW interface
* This supports the following chips: BCM42xx, 44xx, 47xx .
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbhnddma.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbhnddma.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbhnddma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_ids.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phymod_ids.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: Bsc.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/Bsc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hercules/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_oam_ccm.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/caladan3_oam_ccm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains mim definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mim.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmlogger.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmlogger.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_53128.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/blackbird2/robo_bb2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaSysportMapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaSysportMapEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: traverse_client.c
* Purpose: BCM API Traverse Server routines for remote units
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/traverse_client.c
No license file was found, but licenses were detected in source scan.

```
/*
```

* $Id: ism_hash.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ISM-HASH management routines
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ism_hash.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_snmp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_snmp.c
No license file was found, but licenses were detected in source scan.

/*
****
Copyright 2014-2017 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES,

EITHER
EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM
SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/kbp_mem_test.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/kbp_mem_test.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_oam_mep_db.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/QAX_PP/qax_pp_oam_mep_db.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: alloc_mngr_lif.h,v 1.45 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       alloc_mngr_lif.h
* Purpose:    Resource allocation for lif.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_lif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/alloc_mngr_local_lif.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_cell.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_main.c
* Purpose:    Field definitions, field names
* Supports:   bcm56504_a0
*             bcm56504_b0
*             bcm56314_a0
*             bcm56800_a0
*             bcm56514_a0
*             bcm56624_a0
*             bcm56624_b0
*             bcm56680_a0
*             bcm56680_b0
*             bcm56224_a0
*             bcm56224_b0
*             bcm56820_a0
*             bcm56725_a0
*             bcm53314_a0
*             bcm53324_a0
```

* bcm56634_a0
* bcm56634_b0
* bcm56524_a0
* bcm56524_b0
* bcm56685_a0
* bcm56685_b0
* bcm56334_a0
* bcm56334_b0
* bcm88230_a0
* bcm88230_b0
* bcm88230_c0
* bcm56840_a0
* bcm56840_b0
* bcm88650_a0
* bcm88650_b0
* bcm88660_a0
* bcm2801pm_a0
* bcm88202_a0
* bcm88675_a0
* bcm83207_a0
* bcm83208_a0
* bcm88732_a0
* bcm56440_a0
* bcm56440_b0
* bcm88030_a0
* bcm88030_a1
* bcm88030_b0
* bcm56640_a0
* bcm88750_a0
* bcm88750_b0
* bcm88754_a0
* bcm88950_a0
* bcm88790_a0
* bcm56850_a0
* bcm56450_a0
* bcm56450_b0
* bcm56450_b1
* bcm56340_a0
* bcm56150_a0
* bcm53400_a0
* bcm56960_a0
* bcm56860_a0
* bcm56560_a0
* bcm56560_b0
* bcm56260_a0
* bcm56260_b0
* bcm88375_a0
* bcm88470_a0

```
*           bcm88470_b0
*           bcm88270_a0
*           bcm8206_a0
*           bcm88675_b0
*           bcm88375_b0
*           bcm88680_a0
*           bcm88690_a0
*           bcm56160_a0
*           bcm56270_a0
*           bcm56965_a0
*           bcm56970_a0
*           bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_main.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:dnxf_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dnxf_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ports.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56840_a0.c
* Purpose:     bcm56840_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56840_a0.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* Copyright 2015-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License").  Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein.  IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1.     This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
```

* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/kbp_driver.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/kbp_driver.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/kbp_driver.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/kbp_driver.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_frwrd_ipv6.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_ipv6.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File: tomahawk2_mmu_config_apis.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mmu_config_apis.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbPoliceCBSEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbPoliceCBSEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     time.h
* Purpose:     SAL time definitions
*
* Microsecond Time Routines
*
*  The main clock abstraction is sal_usecs_t, an unsigned 32-bit
*  counter that increments every microsecond and wraps around every
*  4294.967296 seconds (~71.5 minutes)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/time.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th2_scan.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip data structure scanning functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_scan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FAP above Arad - FE1600 interop example:
*
* For FAP in generation above Arad: its default parameters are optimized to work with FE3200.
```

```
* FAPs above Arad (Jericho, Jericho plus, Kalia) are backward compatible with DNX legacy generation (FE1600).
* This Cint provides an example of what should be configured on the FAP's side when connecting a FAP above
Arad to FE1600 legacy device.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fap_above_arad_fe1600_interop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type34.h
* Purpose:     Define dma control block (DCB) format for a type34 DCB
*              used by the 56160 (Hurricane3)
*
*              This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type34.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: sc_field_defines.h  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : sc_field_defines.h
* Description:
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/sc_field_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/tsce16/tier1/sc_field_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_sc_field_defines.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  *
*                                                                                       *
*  Description   :  Defines and Enumerations required by Falcon16 ucode                 *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_sand.h
* Purpose:     Conversion between BCM and SOC_SAND types, and common macros/function for
*              handling Dune's code.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_tbx.h,v 1.3 Broadcom SDK $
*
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/robo_tbx.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsE2QEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsE2QEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* BCM43XX PCIE core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: pcie_core.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/pcie_core.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_sbusdma_desc.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_sbusdma_desc.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_lif_cos.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_lif_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC STATUS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_status.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibIpSegmentConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbZfG2EplibIpSegmentConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwLthrEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwLthrEntry.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwLthrEntry.hx
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_diag.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_diag.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Notes on Adding a PHY Driver
Curt McDowell, Broadcom Corp. 08-14-02
Last Updated: 08-14-02
---

1) Define the PHY Device ID

In $SDK/include/soc/phy.h, add a definition for the PHY ID.

#define PHY_ID1_BCMxxxx 0x<phy-id>

Here, <phy-id> is normally the value of the PHY ID1 register of the part (MII address 0x03), after having been ANDed with 0x03f0.

For non-Broadcom PHYs, an appropriate PHY_OUI_xxx would need to be defined.

2) Define the PHY Driver ID

In $SDK/include/soc/phy.h, add a definition for the driver ID.

In enum soc_known_phy_t, add _phy_id_BCMxxxx. This is the actual driver ID. Multiple PHY IDs may map to the same driver ID.

3) Add translation from PHY Device ID to Driver ID

In $SDK/src/soc/phy/phyident.c, there is a switch table in _phy_ident_type_get(). A case entry should be added mapping the device ID to the driver ID, for example:

```
    case PHY_ID1_BCM5464:  /* Broadcom 5464 */
```

```
        return _phy_id_BCM5464;
```

For non-Broadcom PHYs, appropriate extra coding would be required.

4) Add translation from Driver ID to driver function vector

In $SDK/src/soc/phy/phyident.c, there is a table mapping PHY driver ID
to function vectors, called _standard_phy_table.

The simplest thing to do is add a new entry to this table.

For example:

```
  {_chk_phy, _phy_id_BCM5464, "BCM5464",     &phy_5464drv_ge, NULL},
```

It is possible to add a PHY driver without modifying phyident.c by using
the soc_phy_add_entry() call to add a new driver to the PHY table.

5) Create a PHY driver include and source file

In $SDK/src/phy, there is a header and source file for each PHY driver;
for example:

```
 phy54xx.h
 phy54xx.c
```

Here, the phy54xx drivers are all so similar that a single driver is
used and multiple PHY function vectors are defined that point to the
same actual driver funtions.

To add a totally different PHY, new files should be created; otherwise,
it may be possible to add functionality to an existing PHY driver in
this manner. Even if a new file is created, it is still possible to
call into the standard driver functions because most PHYs largely adhere
to IEEE register definitions.

The Makefiles that come with the SDK will automatically compile the new
PHY source file without having to list it in any of the Makefiles.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/phy-drivers.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcam.c,v 1.78 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:      tcam.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tcam.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_kaps_xpt.c, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_kaps_xpt.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56685_b0.c
* Purpose:     bcm56685_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56685_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_counting.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_counting.h
*
* MODULE PREFIX:  soc_ppc_counting
*
* FILE DESCRIPTION:
*
```

```
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_counting.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :       *
*                                                                             *
*  Description :  Interface functions targeted to IP user                     *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_prbs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_prbs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_diag.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_bmact.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/Arad/ARAD_PP/src/arad_pp_frwrd_bmact.c
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_bmact.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines L3 constants
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to share  L3 constants.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/l3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.449 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
* Sirius Specific implementation
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56680_a0.c
* Purpose:     bcm56680_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56680_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.64 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cy22150.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*    _____   ______________________
*   / __\ \ / / _ \ _ \ __/ __/ __|
*  | (__ \ ^ /|  _/   / _|\__ \__ \
*   \___| |_| |_| |_|_\___|___/___/ TIMING TECHNOLOGY
*   ================================================
```

```
* Generated by CyClocksRT R1.05.00
*
* Modification Date: 8/12/02
* Comments:
* Customer:
* FAE:
* License #:
* Part Number:  CY22150
*                  ______________
*                 _|    \__/    |_
*            XIN |_| 1        16 |_| XOUT
*                 _|            |_
*            VDD |_| 2        15 |_| CLK6
*                 _|            |_
*           AVDD |_| 3        14 |_| CLK5
*                 _|            |_
*            SDA |_| 4        13 |_| VSS
*                 _|   CY22150   |_
*           AVSS |_| 5        12 |_| LCLK4
*                 _|            |_
*           VSSL |_| 6        11 |_| VDDL
*                 _|            |_
*          LCLK1 |_| 7        10 |_| SCL
*                 _|            |_
*          LCLK2 |_| 8         9 |_| LCLK3
*                 |_______________|
*
*
* Reference Input:   25.000000 MHz External
* Target VCO:  314.000000 MHz
* Actual VCO:  314.000000 MHz    PPM:      0.0
*
* P value:  314  MSB 0100111010 LSB
* Q vaule:  25  MSB 0011001 LSB
* Charge Pump Setting:  4
* Divider 1-X:  4   VCO
* Divider 2-X:  9   VCO
*
* Clock Output
* ====================================================================
* |Output|  Source  |  Desired   |   Actual   |    PPM     | Voltage |
* ====================================================================
* | CLK1 |  Pll/2   | 157.000000 | 157.000000 |      0.0  |   2.5V  |
* | CLK2 |  Pll/2   | 157.000000 | 157.000000 |      0.0  |   2.5V  |
* | CLK3 |    Off   |    Off     |    Off     |    - -    |   2.5V  |
* | CLK4 |    Off   |    Off     |    Off     |    - -    |   2.5V  |
* | CLK5 |  Pll/  9 |  34.888889 |  34.888889 |      0.0  |   3.3V  |
* | CLK6 |  Pll/  9 |  34.888889 |  34.888889 |      0.0  |   3.3V  |
```

```
* ====================================================================
*
*
*
* Programming Algorithm
*
*  For Core (Outputs AB, PLL3): NOTE: Q defaults to 25 so no adjustmnt
*  is necessary.
*
* 1. Adjust Q to desired value (25).  Default so no action necessary!!!
* 2. Adjust P to desired value 3. Adjust output divider to desired value
* (2) - default is 3 for core and SDRAM 4. Adjust LF
*
* For SDRAM (Outputs CD, PLL2):
*
* 1. Adjust Q to desired value (25)
* 2. Adjust P to desired value
* 3. Adjust output divider to desired value (2) - default is 3 for core and
*    SDRAM
* 4. Adjust LF
*
* For PCI/CPU clock  (OUTPUT E, PLL1)
*
* 1. Adjust Q to desired value (25).  Default so no action necessary!!!
* 2. Adjust P to desired value
* 3. Adjust output divider to desired value (4) - Default so no action
*    necessary!!!
* 4. Adjust LF.
* 5. Compensate as necessary for baud rate or other parameters affected by
*    changing the PCI or CPU frequency!!!!!!
*
*
* See the Cypress W22393 Clock chip data sheet(s) for more details.
* See also: http://www.cypress.com/clock/datasheets.html
* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/cy22150.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_learning.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_learning.c
* Purpose: Example of how to set learning with up to two devices
*
```

```
* The devices support automatic (hardware) learning of L2 addresses across devices in the system.
* Learning can occur at the ingress or at the egress. With ingress learning (the default),
* a device learns the reachable MAC addresses at both the ingress and the egress. With egress
* learning, a device learns the reachable MAC addresses at the egress only.
* Learning can be centralized or distributed. In centralized learning, all MACT events
* (Learn, Refresh, Aging) are sent to the CPU, which manages a global MAC table and distributes
* the changes to all devices. In distributed learning, each device manages its own local MAC table
* event and notifies all other devices of the changes via inband DSP packets.
*
* MAC Table Learning Modes:
* MAC table learning is set by the following:
* bcm_switch_control_set(unit, bcmSwitchL2LearnMode, BCM_L2_EGRESS_DIST);
*
* Other modes are:
*  -   BCM_L2_EGRESS_DIST
*  -   BCM_L2_EGRESS_CENT
*  -   BCM_L2_EGRESS_INDEPENDENT
*  -   BCM_L2_INGRESS_DIST
*  -   BCM_L2_INGRESS_CENT
*
* MACT Learning Message Encapsulation
* To define an encapsulation of learning messages for all learning devices that are monitoring an
* Ethernet packet, use the following constructs:
* bcm_l2_learn_msgs_config_set(unit, learn_msgs);
*
* bcm_l2_learn_msgs_config_s{
*     uint32          flags;
*     bcm_gport_t      dest_port;     *Destination port*
*     bcm_multicast_t  dest_group;    *Destination group*
* *L2 encapsulation info*
*     bcm_vlan_t vlan;
*     uint16 vlan_prio;
*     uint16 ether_type;        *Ethernet II frame or 802.1Q*
*     bcm_mac_t src_mac_addr;   *L2: SA*
*     bcm_mac_t dst_mac_addr;   *L2: DA*
*
* } bcm_l2_learn_msgs_config_t
*
* flags =
*  -   BCM_L2_LEARN_MSG_DEST_MULTICAST- The destination of the learning message is dest_group.
*      Otherwise, the destination is dest_port.
*  -   BCM_L2_LEARN_MSG_ETH_ENCAP- The Learn DSP message is encapsulated with an Ethernet header.

*  -   BCM_L2_LEARN_MSG_LEARNING- This definition applies DSP learn messages to Learning devices.

*  -   BCM_L2_LEARN_MSG_SHADOW- This definition applies DSP learn messages to Shadow MACT
*      monitoring CPU MAC table aging rate.
*
```

```
* CINT Usage:
*  1.  Open multicast 4500.
*  2.  Add to the multicast port 79 of each attached device.
*      Note: Port 79 is an internal port used for sending and receiving learning messages.

*  3.  Add a network port to the multicast, so that copies of the learning messages will be sent
*      to the multicast ports.
*  4.  Call bcm_l2_learn_msgs_config_set() which will do the following:
*      a.  Configure the destination of learning messages to be multicast 4500.
*      b.  Set the Ethernet header (SA,DA, Ether-type) of the learning messages.

*  5.  Call bcm_switch_control_set(unit, bcmSwitchL2LearnMode, BCM_L2_EGRESS_DIST).

*      a.  Set learning mode to be egress-distributed.
*  6.  Send an Ethernet packet with unknown SA. This will cause the device to generate learning messages
*      and send them over multicast 4500.
*
* To Active Above Settings Run:
*      BCM> cint examples/dpp/cint_l2_learning.c
*      BCM> cint
*      cint> l2_learning_run_with_defaults(unit, other_unit);
* Pass other_unit as -1 if the system consists of only 1 device.
* The first parameter should be the master unit.
*
* Scrip Adjustment
*  You can adjust the following attribute of the application:
*  -      Number of devices in system, calling l2_learning_run with one/two unit ids.
*  -      ports[1] = 1;                    *network port to send learning information to*
*  -      l2_learning_info1.nof_ports = 2;    *1 to send only to devices in the system*
*                                          *2 to send also to network port*
*  -      l2_learning_info1.mc_id = 4500;     *multicast group used for learning*
*  Note: The learning port (for example, ports[0]) must be 79.
*
*
*  BCM> examples/dpp/utility/cint_utils_multicast.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_learning.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct2AEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct2AEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_q.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_q.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_local_route.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_local_route.c
* Purpose: An example of the PON application for local route feature.
*
* Calling sequence:
*
* Initialization:
*  1. Add the following port configureations to config-sand.bcm
*       ucode_port_129.BCM88650=10GBase-R15
*       ucode_port_5.BCM88650=10GBase-R14
*       ucode_port_4.BCM88650=10GBase-R13
*  2. Add the following soc properties to config-sand.bcm
*       local_switching_enable=1
*       bcm886xx_auxiliary_table_mode=1 (for arad/+ devices only)
*  3. Set PON port and NNI port to recognize single stag, single ctag and s_c_tag frames.
*       - call port_tpid_init()
*       - call bcm_port_tpid_add()
*  4. Remove Ports from VLAN 1.
*       - call bcm_vlan_gport_delete_all()
*  5. Disable membership in PON ports (SDK initialization already disabled membership in NNI ports).
*       - call bcm_port_vlan_member_set()
*  6. Enable additional port tunnel lookup in PON ports.
```

```
*       - call bcm_vlan_control_port_set()
*
* N:1 Service:
* Set up sequence:
*  1. Create vswitch for basic bridging
*       - Call bcm_vswitch_create()
*       - Call bcm_multicast_create()
*  2. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN_STACKED
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_STACKED,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_ETHERTYPE,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_PCP_VLAN_VLAN_ETHERTYPE,
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL_ETHERTYPE
*  3. Add PON LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  4. Set multicast settings,Add PON-LIFs to MC-ID = VSI + 16K
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  5. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  6. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  7. Create NNI LIF only once
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  8. Add NNI LIF to vswitch
*       - Call bcm_vswitch_port_add()
*  9. Set multicast settings, Add NNI-LIF to MC-ID = VSI
*       - Call bcm_multicast_vlan_encap_get()
*       - Call bcm_multicast_ingress_add()
*  10.Set the multicast group offset to flood downstream packets in multicast group
*       - Call bcm_port_control_set (NNI-LIF, offset= X constant)
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Clean up sequence:
*  1. Remove PON and NNI LIFs from VSI.
*       - Call bcm_vswitch_port_delete()
*  2. Delete PON and NNI LIFs.
*       - Call bcm_vlan_port_destroy()
```

```
*  3. Destroy the multicast groups.
*       - Call bcm_multicast_destroy()
*  4. Destroy the VSI.
*       - Call bcm_vswitch_destroy()
*
* Service Model:
* N:1 Service:
*          PON Port 4,5  <---------------------->  VSI  <---> 1 NNI Port 129
*    PON 4 Tunnel-ID 1000 CVLAN 60--------------|
*    PON 4 Tunnel-ID 1000 CVLAN 61--------------|
*    PON 5 Tunnel-ID 1001 CVLAN 62--------------|--- 4096  ---  SVLAN 600 CVLAN 601
*    PON 5 Tunnel-ID 1001 CVLAN 63--------------|
*         PON Port 4,5  <---------------------->  VSI  <---> 1 NNI Port 129
*    PON 4 Tunnel-ID 1000 CVLAN 80--------------|
*    PON 4 Tunnel-ID 1000 CVLAN 81--------------|
*    PON 5 Tunnel-ID 1001 CVLAN 82--------------|--- 4097  ---  SVLAN 800 CVLAN 801
*    PON 5 Tunnel-ID 1001 CVLAN 83--------------|
*
* Traffic:
*
*                     NNI 129 SVLAN 800 CVLAN 801
*                     Send: 5.1
*                     Receive: 1.1,1.5,2.1,3.1,4.1,4.5
*                               |
*                               | InG=0
*                               | OutG=0
*                               |
*           _ _ _ _ _ _ _ _ _ _ _ _ _|_ _ _ _ _ _ _ _ _ _ _ _ _
*          |                                |
*          |                VSI = 4097                |
*          |_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _|
*           |            |            |            |
*           |            |            |            |
*           | InG=1        | InG=1        | InG=1        | InG=1
*           | OutG=1       | OutG=0       | OutG=1       | OutG=0
*           |            |            |            |
*           |            |            |            |
*   PON 4 Tunnel 1000 CVLAN 80  | PON 5 Tunnel 1001 CVLAN 80    |
*   Send: 1.1,1.2,1.3,1.4,1.5   | Send: 3.1                     |
*   Receive:                    | Receive:                      |
*                       |                       |
*              PON 4 Tunnel 1000 CVLAN 80      PON 5 Tunnel 1001 CVLAN 80
*              Send: 2.1                     Send: 4.1,4.2,4.3,4.4,4.5
*              Receive: 1.2,1.5,3.1,4.3,4.5    Receive: 1.4,1.5,2.1,3.1
*
*
*
*  - From PON port 4 Tunnel-ID 1000 CVLAN 80:
```

```
*     -   ethernet header with DA 00:00:00:00:81:01, SA 00:00:00:00:04:01 --(1.1)
*     -   ethernet header with DA 00:00:00:00:04:02, SA 00:00:00:00:04:01 --(1.2)
*     -   ethernet header with DA 00:00:00:00:05:01, SA 00:00:00:00:04:01 --(1.3)
*     -   ethernet header with DA 00:00:00:00:05:02, SA 00:00:00:00:04:01 --(1.4)
*     -   ethernet header with DA 00:00:00:00:ff:ff, SA 00:00:00:00:04:01 --(1.5)
*     -   Tunnel ID:1000
*     -   VLAN tag: VLAN tag type 0x9100, VID = 80
*
*  - From PON port 4 Tunnel-ID 1000 CVLAN 81:
*     -   ethernet header with DA 00:00:00:00:ff:ff, SA 00:00:00:00:04:02 --(2.1)
*     -   Tunnel ID:1000
*     -   VLAN tag: VLAN tag type 0x9100, VID = 81
*
*  - From PON port 5 Tunnel-ID 1001 CVLAN 82:
*     -   ethernet header with DA 00:00:00:00:ff:ff, SA 00:00:00:00:05:01 --(3.1)
*     -   Tunnel ID:1000
*     -   VLAN tag: VLAN tag type 0x9100, VID = 82
*
*  - From PON port 5 Tunnel-ID 1001 CVLAN 83:
*     -   ethernet header with DA 00:00:00:00:81:01, SA 00:00:00:00:05:02 --(4.1)
*     -   ethernet header with DA 00:00:00:00:04:01, SA 00:00:00:00:05:02 --(4.2)
*     -   ethernet header with DA 00:00:00:00:04:02, SA 00:00:00:00:05:02 --(4.3)
*     -   ethernet header with DA 00:00:00:00:05:01, SA 00:00:00:00:05:02 --(4.4)
*     -   ethernet header with DA 00:00:00:00:ff:ff, SA 00:00:00:00:05:02 --(4.5)
*     -   Tunnel ID:1000
*     -   VLAN tag: VLAN tag type 0x9100, VID = 83
*
*  - From NNI port 129 SVLAN 800 CVLAN 801:
*     -   ethernet header with DA 00:00:00:00:ff:ff, SA 00:00:00:00:81:01 --(5.1)
*     -   VLAN tag: VLAN tag type 0x8100, VID = 800, VLAN tag type 0x9100, VID = 801
*
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_local_route.c
*     BCM> cint
*     cint> pon_app_init(unit, pon_port_1, pon_port_2, nni_port);
*     cint> pon_n_1_service(unit);
*     cint> pon_n_1_service_verfiy(unit);
*     cint> pon_n_1_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_local_route.c
No license file was found, but licenses were detected in source scan.

```
/*! \file res_mngr_types.h
*
* Internal DNX resource manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/res_mngr/res_mngr_types.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_array_memory_allocator.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_array_memory_allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_array_memory_allocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:mpls.c,v 1.1 2013/6/28 09:05:00 Jianping Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lcd.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for Matrix Orbital LCD Controller/Display
* command set. The Matrix Orbital display is an LCD display with an
* I2C interface and command set.
*
* See also: Matrix Orbital (http://www.matrix-orbital.com/)
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/lcd.c
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvram.c,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/nvram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28_cb.h,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains DPP DRC CallBack structure and routine declarations for the Dram operation using PHY Combo28.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/DRC/drc_combo28_cb.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_cell.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_tmu.h,v 1.28 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_tmu.h : COP defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_tmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2cache.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 Cache - Layer 2 BPDU and overflow address cache
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/l2cache.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmtwolevelhashtbl.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmtwolevelhashtbl.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: qax.soc,v 1.90 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Load DRAM tuning properties from local File. RcLoad will not fail if file not found, and will not show errors of missing file.
#der 0x40 4
#exit
```

```
debug info
debug appl rcload warn
debug appl symtab warn
debug bcm rx,tx,link,attach warn
debug soc tests warn
debug soc rx,phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,ddr warn
debug soc common err
debug sys verinet warn
debug soc physim warn

if $?QAX \
   'rcload bcm88470_board.soc'

if $?QUX \
   'rcload bcm88270_board.soc'

# Load DRAM tuning properties from local File. RcLoad will not fail if file not found, and will not show errors of
missing file.
set RCError=off
debug appl shell warn
if $?QAX \
   'rcload /home/negev/bcm88470_dram_tune.soc'
if $?QUX \
   'rcload /home/negev/bcm88270_dram_tune.soc'

debug appl shell =
set RCError=on

set RCError=off
rcload combo28_dram.soc
set RCError=on

#Set fabric connect mode as FE for multi FAP system
if $?diag_chassis " \
  config add fabric_connect_mode.BCM88470=FE"

# Set modid:
# If diag_chassis is enabled (two line cards), and 'slot' is defined (slot is defined only when
# working without a management card - set modid to be 'slot'
# Otherwise (single line card, or management card), set modid to be 0 for unit 0, and 1 for unit != 0
if $?diag_chassis && $?slot "\
 local modid $slot" \
else "\
 local modid $unit"
expr $modid==1; if $? "local modid 2"

if $?module_id " \
 local modid $module_id"
```

```
echo "$unit: modid=$modid"

# Set base_modid:
# Id base_module_id is set, then set base_modid to have base_module_id value.
# Otherwise, set base_modid to be 0.
if $?base_module_id " \
 local base_modid $base_module_id" \
else " \
 local base_modid 0"

expr $base_modid > 0
if $? " \
 echo '$unit: base_modid=$base_modid'"

if $?diag_chassis " \
 local nof_devices 2" \
else "\
 local nof_devices 1"

if $?n_devices " \
 local nof_devices $n_devices"

expr $nof_devices > 1
if $? " \
 echo '$unit: nof_devices=$nof_devices'"

if $?mng_cpu " \
 echo '$unit:management card - polling is set on'; \
 config add polled_irq_mode.BCM88675=1; \
 config add schan_intr_enable.BCM88675=0; \
 config add tdma_intr_enable.BCM88675=0; \
 config add tslam_intr_enable.BCM88675=0; \
 config add miim_intr_enable.BCM88675=0; "

#Counters unavailable in cmodel
if $?cmodel " \
 config add counter_engine_sampling_interval=0;"

#default values in a case which these parameters are not exist
if !$?diag_cosq_disable "\
 local diag_cosq_disable 0"
if !$?warmboot "\
 local warmboot 0"
if !$?diag_disable "\
 local diag_disable 0"
if !$?diag_no_itmh_prog_mode "\
 local diag_no_itmh_prog_mode 0"
```

```
if !$?l2_mode "\
 local l2_mode 0"

#Disable interrupts in cmodel
if $?cmodel "\
 local no_intr 1" \
else "\
 local no_intr 0"

if $?QUX "\
   local no_elk 1" \
else "\
   local no_elk 0"

INIT_DNX ModID=$modid NofDevices=$nof_devices CosqDisable=$diag_cosq_disable NoAppl=$diag_disable
Warmboot=$warmboot NoRxLos=1 NoLinkscan=0 NoElkDevice=$no_elk NoElkAppl=0
NoItmhProgMode=$diag_no_itmh_prog_mode L2Mode=$l2_mode NoIntr=$no_intr

#echo "performing force forward to sysport 1"
#mod IHP_PINFO_LLR 0 256 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7
#mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x10001
FWD_ACT_DESTINATION_OVERWRITE=1
#echo "performing credit flush from NIF to EGQ"
#m NBIH_TX_EGRESS_CREDITS_DEBUG_PM TX_FLUSH_EGRESS_PORT_0_MLF_0_QMLF_N=1
TX_FLUSH_EGRESS_PORT_0_MLF_1_QMLF_N=1 TX_FLUSH_EGRESS_PORT_0_MLF_2_QMLF_N=1
TX_FLUSH_EGRESS_PORT_0_MLF_3_QMLF_N=1
echo "qax.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/qax.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff80000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
```

24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000

24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224080a093281f4c03fd8000
224080a093281f4d03fda000
224080a093281f4e03fdc000
224080a093281f4f03fde000
224080a093281f4803fd0000
224080a093281f4903fd2000
224080a093281f4a03fd4000
224080a093281f4b03fd6000
224080a093281f4403fc8000
224080a093281f4503fca000
224080a093281f4603fcc000
224080a093281f4703fce000
224080a093281f4003fc0000
224080a093281f4103fc2000
224080a093281f4203fc4000
224080a093281f4303fc6000
224080a2ffe81330027f8000
24c4007dffe0000000000000
22408061ffe81f5403fe8000
22408061ffe81f5503fea000
22408061ffe81f5603fec000
22408061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22408068fff01ff400000000
22408068fff01ff500000000
22408068fff01ff600000000
22408068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
2240806fffe81f5003fe0000
2240806fffe81f5103fe2000

2240806fffe81f5203fe4000
2240806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22408076fff01ff000000000
22408076fff01ff100000000
22408076fff01ff200000000
22408076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
224080a6ffe81f2d03ff6000
224080a6ffe81f2c03ff4000
224080a6ffe81f2b03ff2000
224080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000

224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241015093281f4c03fd8000
4241015093281f4d03fda000

4241015093281f4e03fdc000
4241015093281f4f03fde000
4241015093281f4803fd0000
4241015093281f4903fd2000
4241015093281f4a03fd4000
4241015093281f4b03fd6000
4241015093281f4403fc8000
4241015093281f4503fca000
4241015093281f4603fcc000
4241015093281f4703fce000
4241015093281f4003fc0000
4241015093281f4103fc2000
4241015093281f4203fc4000
4241015093281f4303fc6000
42410152ffe81330027f8000
42410154ffe81f5403fe8000
42410154ffe81f5503fea000
42410154ffe81f5603fec000
42410154ffe81f5703fee000
42410154ffe81f5003fe0000
42410154ffe81f5103fe2000
42410154ffe81f5203fe4000
42410154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42410156ffe81f2d03ff6000
42410156ffe81f2c03ff4000
42410156ffe81f2b03ff2000
42410156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff

44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000
42410158ffe81f5803e30000
42410158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000
2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000

2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 1
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff107aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000

29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff207aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c171c38ffe0003000000000
281e10b893381f0700000000
ff800000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000

24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
224088a6ffe81f2d03ff6000
224088a6ffe81f2c03ff4000
224088a6ffe81f2b03ff2000
224088a6ffe81f2a03ff0000
253f03a2fff100a200000001
224088a093281f4c03fd8000
224088a093281f4d03fda000
224088a093281f4e03fdc000
224088a093281f4f03fde000
224088a093281f4803fd0000
224088a093281f4903fd2000
224088a093281f4a03fd4000
224088a093281f4b03fd6000
224088a093281f4403fc8000
224088a093281f4503fca000
224088a093281f4603fcc000
224088a093281f4703fce000
224088a093281f4003fc0000
224088a093281f4103fc2000
224088a093281f4203fc4000
224088a093281f4303fc6000
224088a2ffe81330027f8000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
224088a4ffe81f5403fe8000

224088a4ffe81f5503fea000
224088a4ffe81f5603fec000
224088a4ffe81f5703fee000
224088a4ffe81f5003fe0000
224088a4ffe81f5103fe2000
224088a4ffe81f5203fe4000
224088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000
224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000

228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304

47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b8fff81f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42410950ffe81f4c03fd8000
42410950ffe81f4d03fda000
42410950ffe81f4e03fdc000
42410950ffe81f4f03fde000
42410950ffe81f4803fd0000
42410950ffe81f4903fd2000
42410950ffe81f4a03fd4000
42410950ffe81f4b03fd6000

42410950ffe81f4403fc8000
42410950ffe81f4503fca000
42410950ffe81f4603fcc000
42410950ffe81f4703fce000
42410950ffe81f4003fc0000
42410950ffe81f4103fc2000
42410950ffe81f4203fc4000
42410950ffe81f4303fc6000
42410952ffe81330027f8000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42410954ffe81f5403fe8000
42410954ffe81f5503fea000
42410954ffe81f5603fec000
42410954ffe81f5703fee000
42410954ffe81f5003fe0000
42410954ffe81f5103fe2000
42410954ffe81f5203fe4000
42410954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410956ffe81f2d03ff6000
42410956ffe81f2c03ff4000
42410956ffe81f2b03ff2000
42410956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000

44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000
2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42410958ffe81f6003e40000
42410958ffe81f6103e42000
42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000
42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000
24c41f58fff01f0dee110000
2240899dffe81f5803e30000
24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000
2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000

2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 2
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff107aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff207aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555

24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280902e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228090aaffe0000000000000
2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
224090a093281f4803fd0000
224090a093281f4903fd2000
224090a093281f4a03fd4000
224090a093281f4b03fd6000
224090a093281f4403fc8000
224090a093281f4503fca000
224090a093281f4603fcc000
224090a093281f4703fce000
224090a2ffe81330027f8000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff

2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
224090a4ffe81f5403fe8000
224090a4ffe81f5503fea000
224090a4ffe81f5603fec000
224090a4ffe81f5703fee000
224090a4ffe81f5003fe0000
224090a4ffe81f5103fe2000
224090a4ffe81f5203fe4000
224090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001

000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a6ffe81f2d03ff6000
224090a6ffe81f2c03ff4000
224090a6ffe81f2b03ff2000
224090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000

228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000

000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241115093281f4c03fd8000
4241115093281f4d03fda000
4241115093281f4e03fdc000
4241115093281f4f03fde000
4241115093281f4803fd0000
4241115093281f4903fd2000
4241115093281f4a03fd4000
4241115093281f4b03fd6000
4241115093281f4403fc8000
4241115093281f4503fca000
4241115093281f4603fcc000
4241115093281f4703fce000
4241115093281f4003fc0000
4241115093281f4103fc2000

4241115093281f4203fc4000
4241115093281f4303fc6000
42411152ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411156ffe81f2d03ff6000
42411156ffe81f2c03ff4000
42411156ffe81f2b03ff2000
42411156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42411154ffe81f5403fe8000
42411154ffe81f5503fea000
42411154ffe81f5603fec000
42411154ffe81f5703fee000
42411154ffe81f5003fe0000
42411154ffe81f5103fe2000
42411154ffe81f5203fe4000
42411154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000

453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000
453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42411158ffe81f6603e4c000
42411158ffe81f6703e4e000
000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000
4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000

24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000
2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000
24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000
2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000

2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 3
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000030000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000

2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224098a093281f4c03fd8000
224098a093281f4d03fda000
224098a093281f4e03fdc000
224098a093281f4f03fde000

224098a093281f4803fd0000
224098a093281f4903fd2000
224098a093281f4a03fd4000
224098a093281f4b03fd6000
224098a093281f4403fc8000
224098a093281f4503fca000
224098a093281f4603fcc000
224098a093281f4703fce000
224098a093281f4003fc0000
224098a093281f4103fc2000
224098a093281f4203fc4000
224098a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22409861ffe81f5403fe8000
22409861ffe81f5503fea000
22409861ffe81f5603fec000
22409861ffe81f5703fee000
24c440a2ffe0000000000001
22809869ffe0000000000000
22409868fff01ff400000000
22409868fff01ff500000000
22409868fff01ff600000000
22409868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
2240986fffe81f5003fe0000
2240986fffe81f5103fe2000
2240986fffe81f5203fe4000
2240986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22409876fff01ff000000000
22409876fff01ff100000000
22409876fff01ff200000000
22409876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
224098a8ffe81330027f8000
224098a4ffe81f2d03ff6000
224098a4ffe81f2c03ff4000
224098a4ffe81f2b03ff2000

224098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000
224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000
224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000
245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000
245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff207aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
481204b8fff81f0400000000
481608b8fff81f0500000000
481a0cb8fff81f0600000000
4c930c38ffe0003800000000
481e10b8fff81f0700000000
ff800000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42411950ffe81f4c03fd8000
42411950ffe81f4d03fda000
42411950ffe81f4e03fdc000
42411950ffe81f4f03fde000
42411950ffe81f4803fd0000
42411950ffe81f4903fd2000
42411950ffe81f4a03fd4000
42411950ffe81f4b03fd6000
42411950ffe81f4403fc8000
42411950ffe81f4503fca000
42411950ffe81f4603fcc000
42411950ffe81f4703fce000
42411950ffe81f4003fc0000
42411950ffe81f4103fc2000
42411950ffe81f4203fc4000
42411950ffe81f4303fc6000
42411952ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555

453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411956ffe81f2d03ff6000
42411956ffe81f2c03ff4000
42411956ffe81f2b03ff2000
42411956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42411954ffe81f5403fe8000
42411954ffe81f5503fea000
42411954ffe81f5603fec000
42411954ffe81f5703fee000
42411954ffe81f5003fe0000
42411954ffe81f5103fe2000
42411954ffe81f5203fe4000
42411954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000
42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000
44c41f15fff01f1540000000
4281195dffe0000000000000
44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000
2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240999dffe81f6003e40000
24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000
2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f06fff28baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100

27fc0036ffe81f3403e10000
281214b893381f0400000000
29141820fff81f1100000000
281a18b893381f0600000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff80000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000
24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000
24c41f46fff01f0633360000
24c41f47fff01f0644460000
24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
2240a0a093281f4c03fd8000
2240a0a093281f4d03fda000
2240a0a093281f4e03fdc000
2240a0a093281f4f03fde000
2240a0a093281f4803fd0000
2240a0a093281f4903fd2000
2240a0a093281f4a03fd4000
2240a0a093281f4b03fd6000
2240a0a093281f4403fc8000
2240a0a093281f4503fca000

2240a0a093281f4603fcc000
2240a0a093281f4703fce000
2240a0a093281f4003fc0000
2240a0a093281f4103fc2000
2240a0a093281f4203fc4000
2240a0a093281f4303fc6000
2240a0a2ffe81330027f8000
24c4007dffe0000000000000
2240a061ffe81f5403fe8000
2240a061ffe81f5503fea000
2240a061ffe81f5603fec000
2240a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
2240a068fff01ff400000000
2240a068fff01ff500000000
2240a068fff01ff600000000
2240a068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000
24c4007dffe0000000000001
2240a06fffe81f5003fe0000
2240a06fffe81f5103fe2000
2240a06fffe81f5203fe4000
2240a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
2240a076fff01ff000000000
2240a076fff01ff100000000
2240a076fff01ff200000000
2240a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
2240a0a6ffe81f2d03ff6000
2240a0a6ffe81f2c03ff4000
2240a0a6ffe81f2b03ff2000
2240a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa

253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000

44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555
4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000

44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241215093281f4c03fd8000
4241215093281f4d03fda000
4241215093281f4e03fdc000
4241215093281f4f03fde000
4241215093281f4803fd0000
4241215093281f4903fd2000
4241215093281f4a03fd4000
4241215093281f4b03fd6000
4241215093281f4403fc8000
4241215093281f4503fca000
4241215093281f4603fcc000
4241215093281f4703fce000
4241215093281f4003fc0000
4241215093281f4103fc2000
4241215093281f4203fc4000
4241215093281f4303fc6000
42412152ffe81330027f8000
42412154ffe81f5403fe8000
42412154ffe81f5503fea000
42412154ffe81f5603fec000
42412154ffe81f5703fee000
42412154ffe81f5003fe0000
42412154ffe81f5103fe2000
42412154ffe81f5203fe4000
42412154ffe81f5303fe6000
44c41f2dfff00f08c0000000

44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42412156ffe81f2d03ff6000
42412156ffe81f2c03ff4000
42412156ffe81f2b03ff2000
42412156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
4c991122ffe0003000000000
4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000

000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000
4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000
44c41f15fff01f1504000000
4281215dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000

2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000
2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000
24c41f63fff01f12ff660000
2240a19dffe81f6303e46000
24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000

```
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000
2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c130c38ffe0003400000000
281e10b893381f0700000000
```

ff8000000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c41f54fff00f28888c0000
24c41f55fff00f28007c0000
24c41f56ffe0000000000000
24c41f57ffe0000000000000
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe0000000000000
24c41f53ffe0000000000000
245900a2fff01f3911223344
253f03a2fff100a200000001
245900a2fff01f3855667788
2240a8a093281f4c03fd8000
2240a8a093281f4d03fda000
2240a8a093281f4e03fdc000
2240a8a093281f4f03fde000
2240a8a093281f4803fd0000
2240a8a093281f4903fd2000
2240a8a093281f4a03fd4000
2240a8a093281f4b03fd6000
2240a8a093281f4403fc8000
2240a8a093281f4503fca000
2240a8a093281f4603fcc000
2240a8a093281f4703fce000
2240a8a093281f4003fc0000
2240a8a093281f4103fc2000
2240a8a093281f4203fc4000
2240a8a093281f4303fc6000

2240a8a2ffe81330027f8000
2240a8a4ffe81f5403fe8000
2240a8a4ffe81f5503fea000
2240a8a4ffe81f5603fec000
2240a8a4ffe81f5703fee000
2240a8a4ffe81f5003fe0000
2240a8a4ffe81f5103fe2000
2240a8a4ffe81f5203fe4000
2240a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000
2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001
245900a2fff01f3900003344
253f03a2fff100a200000001
245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc
253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000

2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000
2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000
24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000
2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000

44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
4c171c38ffe0005000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481204b893381f0400000000
481624b893381f0500000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000

44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241295093281f4c03fd8000
4241295093281f4d03fda000
4241295093281f4e03fdc000
4241295093281f4f03fde000
4241295093281f4803fd0000
4241295093281f4903fd2000
4241295093281f4a03fd4000
4241295093281f4b03fd6000
4241295093281f4403fc8000
4241295093281f4503fca000
4241295093281f4603fcc000
4241295093281f4703fce000
4241295093281f4003fc0000
4241295093281f4103fc2000
4241295093281f4203fc4000
4241295093281f4303fc6000
42412952ffe81330027f8000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42412954ffe81f5403fe8000

42412954ffe81f5503fea000
42412954ffe81f5603fec000
42412954ffe81f5703fee000
42412954ffe81f5003fe0000
42412954ffe81f5103fe2000
42412954ffe81f5203fe4000
42412954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42412956ffe81f2d03ff6000
42412956ffe81f2c03ff4000
42412956ffe81f2b03ff2000
42412956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000

42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428129a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000

2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000
2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 6
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
```

2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240b0a093281f4803fd0000
2240b0a093281f4903fd2000
2240b0a093281f4a03fd4000
2240b0a093281f4b03fd6000
2240b0a093281f4403fc8000
2240b0a093281f4503fca000
2240b0a093281f4603fcc000
2240b0a093281f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a2ffe81330027f8000
24c4007dffe0000000000000
2240b061ffe81f5403fe8000
2240b061ffe81f5503fea000
2240b061ffe81f5603fec000
2240b061ffe81f5703fee000

24c440a2ffe0000000000001
2280b069ffe0000000000000
2240b068fff01ff400000000
2240b068fff01ff500000000
2240b068fff01ff600000000
2240b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
2240b06fffe81f5003fe0000
2240b06fffe81f5103fe2000
2240b06fffe81f5203fe4000
2240b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
2240b076fff01ff000000000
2240b076fff01ff100000000
2240b076fff01ff200000000
2240b076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b077ffe0000000000000
24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
2240b0a6ffe81f2d03ff6000
2240b0a6ffe81f2c03ff4000
2240b0a6ffe81f2b03ff2000
2240b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000

2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000
2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000
24c41f15fff01f1520000000
2280b0adffe0000000000000
24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000

44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309
47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000

44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241315093281f4c03fd8000
4241315093281f4d03fda000
4241315093281f4e03fdc000
4241315093281f4f03fde000
4241315093281f4803fd0000
4241315093281f4903fd2000
4241315093281f4a03fd4000
4241315093281f4b03fd6000
4241315093281f4403fc8000
4241315093281f4503fca000
4241315093281f4603fcc000
4241315093281f4703fce000
4241315093281f4003fc0000
4241315093281f4103fc2000
4241315093281f4203fc4000
4241315093281f4303fc6000
42413152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413156ffe81f2d03ff6000
42413156ffe81f2c03ff4000
42413156ffe81f2b03ff2000
42413156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000

44c50b53fff00b0b00000000
42413154ffe81f5403fe8000
42413154ffe81f5503fea000
42413154ffe81f5603fec000
42413154ffe81f5703fee000
42413154ffe81f5003fe0000
42413154ffe81f5103fe2000
42413154ffe81f5203fe4000
42413154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000

000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000

2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000

24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c38ffe0005000000000
2240b8a093281f4c03fd8000
2240b8a093281f4d03fda000
2240b8a093281f4e03fdc000
2240b8a093281f4f03fde000
2240b8a093281f4803fd0000
2240b8a093281f4903fd2000
2240b8a093281f4a03fd4000
2240b8a093281f4b03fd6000
2240b8a093281f4403fc8000
2240b8a093281f4503fca000
2240b8a093281f4603fcc000
2240b8a093281f4703fce000
2240b8a093281f4003fc0000
2240b8a093281f4103fc2000
2240b8a093281f4203fc4000
2240b8a093281f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
2240b861ffe81f5403fe8000
2240b861ffe81f5503fea000
2240b861ffe81f5603fec000
2240b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
2240b868fff01ff400000000
2240b868fff01ff500000000
2240b868fff01ff600000000
2240b868fff01ff700000000

24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
2240b86fffe81f5003fe0000
2240b86fffe81f5103fe2000
2240b86fffe81f5203fe4000
2240b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
2240b876fff01ff000000000
2240b876fff01ff100000000
2240b876fff01ff200000000
2240b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001
2240b8a2fff8007d00000000
2c171c76ffe0006000000000
2240b8a8ffe81330027f8000
2240b8a4ffe81f2d03ff6000
2240b8a4ffe81f2c03ff4000
2240b8a4ffe81f2b03ff2000
2240b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001

253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000
2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000

44c40b0afff207aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428138de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000

44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241395093281f4c03fd8000
4241395093281f4d03fda000
4241395093281f4e03fdc000
4241395093281f4f03fde000
4241395093281f4803fd0000
4241395093281f4903fd2000
4241395093281f4a03fd4000
4241395093281f4b03fd6000
4241395093281f4403fc8000
4241395093281f4503fca000
4241395093281f4603fcc000
4241395093281f4703fce000
4241395093281f4003fc0000
4241395093281f4103fc2000
4241395093281f4203fc4000
4241395093281f4303fc6000
42413952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413956ffe81f2d03ff6000
42413956ffe81f2c03ff4000
42413956ffe81f2b03ff2000
42413956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42413954ffe81f5403fe8000
42413954ffe81f5503fea000
42413954ffe81f5603fec000
42413954ffe81f5703fee000
42413954ffe81f5003fe0000

42413954ffe81f5103fe2000
42413954ffe81f5203fe4000
42413954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000
4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000
2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000

4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000

2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000

24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
2240c0a093281f4c03fd8000
2240c0a093281f4d03fda000
2240c0a093281f4e03fdc000
2240c0a093281f4f03fde000
2240c0a093281f4803fd0000
2240c0a093281f4903fd2000
2240c0a093281f4a03fd4000
2240c0a093281f4b03fd6000
2240c0a093281f4403fc8000
2240c0a093281f4503fca000
2240c0a093281f4603fcc000
2240c0a093281f4703fce000
2240c0a093281f4003fc0000
2240c0a093281f4103fc2000
2240c0a093281f4203fc4000
2240c0a093281f4303fc6000
2240c0a2ffe81330027f8000
24c4007dffe0000000000000
2240c061ffe81f5403fe8000
2240c061ffe81f5503fea000
2240c061ffe81f5603fec000
2240c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
2240c068fff01ff400000000
2240c068fff01ff500000000
2240c068fff01ff600000000
2240c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
2240c06fffe81f5003fe0000
2240c06fffe81f5103fe2000

2240c06fffe81f5203fe4000
2240c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
2240c076fff01ff000000000
2240c076fff01ff100000000
2240c076fff01ff200000000
2240c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
2240c0a6ffe81f2d03ff6000
2240c0a6ffe81f2c03ff4000
2240c0a6ffe81f2b03ff2000
2240c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000

2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241415093281f4c03fd8000
4241415093281f4d03fda000

4241415093281f4e03fdc000
4241415093281f4f03fde000
4241415093281f4803fd0000
4241415093281f4903fd2000
4241415093281f4a03fd4000
4241415093281f4b03fd6000
4241415093281f4403fc8000
4241415093281f4503fca000
4241415093281f4603fcc000
4241415093281f4703fce000
4241415093281f4003fc0000
4241415093281f4103fc2000
4241415093281f4203fc4000
4241415093281f4303fc6000
42414152ffe81330027f8000
42414154ffe81f5403fe8000
42414154ffe81f5503fea000
42414154ffe81f5603fec000
42414154ffe81f5703fee000
42414154ffe81f5003fe0000
42414154ffe81f5103fe2000
42414154ffe81f5203fe4000
42414154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42414156ffe81f2d03ff6000
42414156ffe81f2c03ff4000
42414156ffe81f2b03ff2000
42414156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000

4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000
42414158ffe81f5803e30000
42414158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000
2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000

2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 9
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff107aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000

29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff207aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106
27fc0036ffe81f3403e10006
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555

2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2240c8a093281f4c03fd8000
2240c8a093281f4d03fda000
2240c8a093281f4e03fdc000
2240c8a093281f4f03fde000
2240c8a093281f4803fd0000
2240c8a093281f4903fd2000
2240c8a093281f4a03fd4000
2240c8a093281f4b03fd6000
2240c8a093281f4403fc8000
2240c8a093281f4503fca000
2240c8a093281f4603fcc000
2240c8a093281f4703fce000
2240c8a093281f4003fc0000
2240c8a093281f4103fc2000
2240c8a093281f4203fc4000
2240c8a093281f4303fc6000
2240c8a2ffe81330027f8000
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
2240c8a4ffe81f5403fe8000

2240c8a4ffe81f5503fea000
2240c8a4ffe81f5603fec000
2240c8a4ffe81f5703fee000
2240c8a4ffe81f5003fe0000
2240c8a4ffe81f5103fe2000
2240c8a4ffe81f5203fe4000
2240c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000
2c130c79ffe0005800000000
2c130c78ffe0005c00000000
2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000
2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000

2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304

47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b893381f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241495093281f4c03fd8000
4241495093281f4d03fda000
4241495093281f4e03fdc000
4241495093281f4f03fde000
4241495093281f4803fd0000
4241495093281f4903fd2000
4241495093281f4a03fd4000
4241495093281f4b03fd6000

4241495093281f4403fc8000
4241495093281f4503fca000
4241495093281f4603fcc000
4241495093281f4703fce000
4241495093281f4003fc0000
4241495093281f4103fc2000
4241495093281f4203fc4000
4241495093281f4303fc6000
42414952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42414954ffe81f5403fe8000
42414954ffe81f5503fea000
42414954ffe81f5603fec000
42414954ffe81f5703fee000
42414954ffe81f5003fe0000
42414954ffe81f5103fe2000
42414954ffe81f5203fe4000
42414954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414956ffe81f2d03ff6000
42414956ffe81f2c03ff4000
42414956ffe81f2b03ff2000
42414956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000

44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000
2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42414958ffe81f6003e40000
42414958ffe81f6103e42000
42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c99dffe81f5803e30000
24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000

2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 10
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000

24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280d02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d0aaffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000

24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d0a093281f4803fd0000
2240d0a093281f4903fd2000
2240d0a093281f4a03fd4000
2240d0a093281f4b03fd6000
2240d0a093281f4403fc8000
2240d0a093281f4503fca000
2240d0a093281f4603fcc000
2240d0a093281f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240d0a2ffe81330027f8000
24c4007dffe0000000000000
2240d061ffe81f5403fe8000
2240d061ffe81f5503fea000
2240d061ffe81f5603fec000
2240d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
2240d068fff01ff400000000
2240d068fff01ff500000000
2240d068fff01ff600000000
2240d068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
2240d06fffe81f5003fe0000
2240d06fffe81f5103fe2000
2240d06fffe81f5203fe4000
2240d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
2240d076fff01ff000000000
2240d076fff01ff100000000
2240d076fff01ff200000000
2240d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001

22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
2240d0a6ffe81f2d03ff6000
2240d0a6ffe81f2c03ff4000
2240d0a6ffe81f2b03ff2000
2240d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000

2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff107aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff207aa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000

000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241515093281f4c03fd8000
4241515093281f4d03fda000
4241515093281f4e03fdc000
4241515093281f4f03fde000
4241515093281f4803fd0000
4241515093281f4903fd2000
4241515093281f4a03fd4000
4241515093281f4b03fd6000
4241515093281f4403fc8000
4241515093281f4503fca000
4241515093281f4603fcc000
4241515093281f4703fce000
4241515093281f4003fc0000
4241515093281f4103fc2000

4241515093281f4203fc4000
4241515093281f4303fc6000
42415152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415156ffe81f2d03ff6000
42415156ffe81f2c03ff4000
42415156ffe81f2b03ff2000
42415156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42415154ffe81f5403fe8000
42415154ffe81f5503fea000
42415154ffe81f5603fec000
42415154ffe81f5703fee000
42415154ffe81f5003fe0000
42415154ffe81f5103fe2000
42415154ffe81f5203fe4000
42415154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000

000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415158ffe81f6603e4c000
42415158ffe81f6703e4e000
42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000
4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000

24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000
2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000
2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000

2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 11
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000b0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff107aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff207aa00000000
253920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000

2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280d82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
000000000000000000000000
2240d8a093281f4c03fd8000
2240d8a093281f4d03fda000
2240d8a093281f4e03fdc000
2240d8a093281f4f03fde000
2240d8a093281f4803fd0000
2240d8a093281f4903fd2000
2240d8a093281f4a03fd4000
2240d8a093281f4b03fd6000
2240d8a093281f4403fc8000
2240d8a093281f4503fca000
2240d8a093281f4603fcc000
2240d8a093281f4703fce000
2240d8a093281f4003fc0000

2240d8a093281f4103fc2000
2240d8a093281f4203fc4000
2240d8a093281f4303fc6000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
2240d8a2ffe81f5403fe8000
2240d8a2ffe81f5503fea000
2240d8a2ffe81f5603fec000
2240d8a2ffe81f5703fee000
2240d8a2ffe81f5003fe0000
2240d8a2ffe81f5103fe2000
2240d8a2ffe81f5203fe4000
2240d8a2ffe81f5303fe6000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d8a8ffe81330027f8000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
2240d8a4ffe81f2d03ff6000
2240d8a4ffe81f2c03ff4000
2240d8a4ffe81f2b03ff2000
2240d8a4ffe81f2a03ff0000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001

253b03a2fff01f6900000001
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
000000000000000000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d8a6ffe81f5603e2c000
2240d8a6ffe81f5703e2e000
2240d8a6ffe81f5803e30000
2240d8a6ffe81f5903e32000
2240d8a6ffe81f5a03e34000
2240d8a6ffe81f5b03e36000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6003e40000
2240d8a6ffe81f6103e42000
2240d8a6ffe81f6203e44000
2240d8a6ffe81f6303e46000
2240d8a6ffe81f6603e4c000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6703e4e000
2280d8b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d8adffe0000000000000
24c41f15fff01f1501000000
2280d8adffe0000000000000
24c41f15fff01f1502000000
2280d8adffe0000000000000
24c41f15fff01f1504000000
2280d8adffe0000000000000
24c41f15fff01f1540000000
2280d8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
2280d9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c41f08ffe0000000000000
44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f0affe0000000000000
44c41f14fff00baa00000000
44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff107aa00000000
44c7072ffff207aa00000000
44c40b0afff207aa00000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241595093281f4c03fd8000
4241595093281f4d03fda000
4241595093281f4e03fdc000
4241595093281f4f03fde000
4241595093281f4803fd0000
4241595093281f4903fd2000
4241595093281f4a03fd4000
4241595093281f4b03fd6000
4241595093281f4403fc8000
4241595093281f4503fca000
4241595093281f4603fcc000
4241595093281f4703fce000
4241595093281f4003fc0000
4241595093281f4103fc2000
4241595093281f4203fc4000
4241595093281f4303fc6000
42415952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000

4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415956ffe81f2d03ff6000
42415956ffe81f2c03ff4000
42415956ffe81f2b03ff2000
42415956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42415954ffe81f5403fe8000
42415954ffe81f5503fea000
42415954ffe81f5603fec000
42415954ffe81f5703fee000
42415954ffe81f5003fe0000
42415954ffe81f5103fe2000
42415954ffe81f5203fe4000
42415954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
2240d99dffe81f5a03e34000
2240d99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000
44c41f15fff01f1540000000
4281595dffe0000000000000
44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d99dffe81f5803e30000
24c41f59fff01f0dff110000
2240d99dffe81f5903e32000
24c41f5afff00b0eee000000
2240d99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d99dffe81f6003e40000
24c41f61fff01f11ff550000
2240d99dffe81f6103e42000
24c41f62fff01f12ee660000
2240d99dffe81f6203e44000
24c41f63fff01f12ff660000
2240d99dffe81f6303e46000
24c41f64fff01f13ee770000
2240d99dffe81f6403e48000
24c41f65fff01f13ff770000
2240d99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d9a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

//taskmap
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
ff
cf
ff
df
ff
ff
ff
ff
3f
fe
ff
ff
ff
ff
ff
ff
c3
ff
f3
```

```
ff
ff
ef
00
00
00
00
00
00
00
00
00


//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_lt16ddrs.oasm
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************
*
* $Id: bcm-uk-rtrans.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This provides a simple implementation of a BCM C2C/NH transport driver.
* This driver uses a User/Kernel Proxy service to transmit and receive the
* data.
* This driver is compiled for both the kernel and user space.
*
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/bcm-uk-rtrans.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_mirror.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
```

```
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_mirror.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-knet.c,v 1.90 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-knet/bcm-knet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: brd_ident.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_ident.c
* Purpose:     Stack application board identifier functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cpudb/brd_ident.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_multicast_imp.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_multicast_imp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Test for verifying KBP sdk ver compatibility with the SW sdk ver
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/kbp_sdk_ver.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_interpreter.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_interpreter.c
* Purpose:     CINT interpreter
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_interpreter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv4.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv4.hx
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
```

```
* $Id: tscmod_functions.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* Description: string defines  for tier1 and tier2 selectors
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredParamEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredParamEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer_multicast_imp.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_multicast_imp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPost.h,v 1.7 2012/04/27 03:32:03 alai Exp $
* $Copyright: Copyright 2007, Broadcom Corporation All Rights Reserved.
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES
* OF ANY KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.$
* Description: This file configure the VxWorks kernel to includes
```

```
*           additional components necessary for SDK.
*           Includes this file immediately after configAll.h
*           in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/configSdkPost.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_cell.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmccell
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_cell.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     BCM Layer-2 switch API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/l2.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socintf.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       socintf.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/socintf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.74 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcast.c
* Purpose:     Tracks and manages L2 Multicast tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_multicast_id_map.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE MULTICAST ID MAP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/dfe_multicast_id_map.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_chip_defines.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright
```

```
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_chip_defines.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_qos.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_qos.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_qos.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: merlin_koi_dependencies.h 1103 2015-08-14 16:57:21Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
```

```
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                   *
*                                                                                   *
*************************************************************************************
*************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls_lm_dm.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mpls_lm_dm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* General utility routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueByteAdjEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueByteAdjEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0Entry.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_0Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyconfig.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyconfig.h
*
* Purpose:     Set default configuration of the PHYs.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyconfig.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: post.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       post.c
* Purpose:     Run MAC-Phy connectivity check after Reset init
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/post.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: assert.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This version of assert.h should appear in the compiler include path
* ahead of any other version of assert.h to ensure that _sal_assert is
* used for all assertion failures.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/assert.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cop.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_cop.h : COP defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_cop.h
No license file was found, but licenses were detected in source scan.

```
/*
* OS Abstraction Layer
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: osl.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/osl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JER2_ARAD FABRIC CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_diagnostics.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_diagnostics.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File: tomahawk2_flexport_defines.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_flexport_defines.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bm9600_cmds.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bm9600_cmds.h
* Purpose: BM-9600 diagnostic shell commands
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/bm9600_cmds.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_chip_regs.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_chip_regs.h
No license file was found, but licenses were detected in source scan.

$Id: bcm56649sanity.soc,v 1.4 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.

```
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56640 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x1ffffffe
local pbmxe 0x3c000000000000
local pbmhg 0x3c0000000000000
local pbmport 0x3fc00001ffffffe

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc
```

```
#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

#tr3_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
```

```
tr 60
$done

echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

if "expr $pbmxe + 0" \
      'echo "Testing MAC Loopback - 10 Gb/s all XE ports"; \
       tr 18 PortBitMap=$pbmxe Speed=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Testing MAC Loopback - 42 Gb/s all HG ports"; \
       tr 18 PortBitMap=$pbmhg Speed=42G; $done'

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

if "expr $pbmxe + 0" \
      'echo "Testing PHY Loopback - 10 Gb/s all XE ports"; \
       tr 19 PortBitMap=$pbmxe Speed=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Testing PHY Loopback - 42 Gb/s all HG ports"; \
       tr 19 PortBitMap=$pbmhg Speed=42G; $done'

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done
```

```
echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

if "expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, MAC loopback ..."; \
       tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe; $done'

if "expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, PHY loopback ..."; \
       tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe; $done'

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

if "expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G; $done'

if "expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G; $done'

if "expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=42G; $done'

if "expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=42G; $done'

# if you have cable with following paring
```

```
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
```

```
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56649sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi4Selected_0Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi4Selected_0Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp_data.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_pp_data.c
* Purpose:    Routines for PP data export/import
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_pp_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cpu2cpu.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cpu2cpu.c
* Purpose:    Provides CPU to CPU packet transmit
* Requires:   CPU keys for destination; cputrans for pkt alloc
* Notes:
*     Applications must directly register with some RX to receive packets.
*     They may then use c2c_pkt_recognize to determine if a packet
*     is a cpu-to-cpu packet.
*
```

```
*     Since RX is not a service of CPU-to-CPU, loopback is not
*     supported at this level.
*
*     CPU indexing is managed by a local cpudb.  That module must be properly
*     initialized before using cpu2cpu transport including calls to
*     add CPU keys and other info to the local CPU.
*
*     This module uses the tx packet allocation routines implemented in
*     cputrans.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/cpu2cpu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm_sw_db.c,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/bcm_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.215 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     Receive packet mechanism
* Requires:
*
* See sdk/doc/txrx.txt and pkt.txt for
* information on the RX API and implementation.
*
* Quick overview:
*
*     Packet buffer allocation/deallocation is user configurable.
*     This expects to be given monolithic (single block) buffers.
*     When "HANDLED_OWNED" is returned by a handler, that means
*     that the data buffer is stolen, not the packet structure.
*
*     Callback functions may be registered in interrupt or non-
```

```
*     interrupt mode.  Non-interrupt is preferred.
*
*     Interrupt load is limited by setting overall rate limit
*     (bcm_rx_rate_burst_set/get).
*
*     If a packet is not serviced in interrupt mode, it is queued
*     based on its COS.
*
*     Each queue has a rate limit (bcm_rx_cos_rate_set/get) which
*     controls the number of callbacks that will be made for the queue.
*     The non-interrupt thread services these queues from highest to
*     lowest and will discard packets in the queue when they exceed
*     the queue's rate limit.
*
*     Packets handled at interrupt level are still accounted for in
*     the COS rate limiting.
*
*     A channel is:
*         Physically:  A separate hardware DMA process
*         Logically:  A collection of COS bundled together.
*     Rate limiting per channel is no longer supported (replaced
*     by COS queue rate limiting).
*
*     Channels may be enabled and disabled separately from starting RX
*     running.  However, stopping RX disables all channels.
*
*     Packets are started in groups called "chains", each of which
*     is controlled by a "DV" (DMA-descriptor vector).
*
*     Updates to the handler linked list need to be synchronized
*     both with thread packet processing (mutex) and interrupt
*     packet processing (spl).
*
*     If no real callouts are registered (other than internal discard)
*     don't bother starting DVs, nor queuing input pkts into cos queues.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEbMvtEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_link_bonding.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_link_bonding.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: taps.h,v 1.54.14.6 Broadcom SDK $
*
* TAPS defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/taps.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tbx_service.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/tbx_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_field_mact_llid_limit.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_field_mact_llid_limit.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibCIT.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibCIT.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: debug.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: debug.h
* Purpose: Caladan3 ucode debug manager
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/asm3/debug.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassProtocolEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassProtocolEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cputrans.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*
* File:       cputrans.h
* Purpose:     General defines for CPU to CPU communication
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/cputrans/cputrans.h
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# ARAD (BCM88650) Sanity
#
# Script to run all nightly available tests as quickly as possible in Yarum regression run on ARAD PLUS.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'
# Avoid link messages while testing
linkscan off
counter off
ctrp suspend
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*

#Clear test statistics
tc *

#Display some useful information
date




#Start Test
echo "Running tr 141"
tr 141 r=20
$done
```

```
echo 'Dump memories (tr 6)...';
tr 6;
echo '   Done';$date;

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88650sanity_nightly.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hashing.c
* Purpose:     GH2-Hash calcualtions for trunk and ECMP packets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/hashing.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_oam_acc.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_oam_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.160 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SIRIUS Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/sbx/sirius/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txbeacon.c,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/txbeacon.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* *
* File:    bhh_sdk_msg.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/bhh_sdk_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag.c,v 1.47 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Common device register/mem diagnostic functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_ident.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_ident.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dino8_service.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/dino8_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* $Copyright: (c) Broadcom Corporation
* All rights reserved $
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* Author: vn-1109210841
*
* g3p1a__PkgInt__initDefault(C3Asm3__PkgInt *_p)
*
* static data for the C3 asm3 package
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1a_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPre.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*            additional components necessary for SDK.
*            Includes this file before configAll.h
```

```
*            in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/configSdkPre.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_stat_if.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_stat_if.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws.c,v 1.69 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    c3hppc_sws.c
* Purpose: Caladan3 SWS test driver for HPPC environment
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_sws.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counters_data.c,v 1.19 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Counters data
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/counters_data.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_combo28.h,v 1.1.2.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR4 & GDDR5 Memory Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shmoo_combo28.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_trunk.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_n.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_n.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_rx.h,v 1.2.12.2 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON RX H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_rx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_fct.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_fct.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TMU DM defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/hash.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28_cb.c,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/DRC/drc_combo28_bist.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tsce16.c,v 1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier2/tsce16.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyident.c,v 1.476 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phyident.c
* Purpose:     These routines and structures are related to
*              figuring out phy identification and correlating
*              addresses to drivers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyident.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_msg.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    llm_msg.h
* Purpose: llm Messages definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*
*/
/* PON attribution */
/*
* LLM update message
*  This message is used to update pon attribution.
*
*  uint32 type_of_service: which service, can be LLM_SERVICE_MAC_LIMIT or LLM_SERVICE_VMAC
```

```
*  uint32 data_type: data type,
*                  xxx_MAC_ENTRY_DATA_TYPE - add/delete/modify a L2 entry in MACT table
*
*  uint32 data_len: data length. Now the value is 5 because of the data always is CPU_request_request
registervalue.;
*  uint32 data[0]:  Value of CPU_request_request  register
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/llm_msg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    vlan.c
* Purpose: Manages VLAN virtual port creation and deletion.
*          Also manages addition and removal of virtual
*          ports from VLAN. The types of virtual ports that
*          can be added to or removed from VLAN can be VLAN
*          VPs, NIV VPs, or Extender VPs.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600FoTestInfoConsole.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600FoTestInfoConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tcam.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* Diag CLI "tcam" command (5660x devices only)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/tcam.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibPriTableConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: error.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/error.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsLastSentPriEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLastSentPriEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_ingress_packet_queuing.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_ingress_packet_queuing.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: soc_log_buf.c
* Purpose: Thread safe circular buffer for logs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/soc_log_buf.c
No license file was found, but licenses were detected in source scan.

```
#/*-----------------------------------------------------------------------
# * $Id: xfi_10gosrm2.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *-----------------------------------------------------------------------
# * File       : xfi_10gosrm2.soc
# * Description: xfi_10g Oversampling rate of 2
# *-----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port $1
local lane $2
phy raw sbus $port 0.$lane 0x9010 0x0000

sleep 1
phy raw sbus $port 0.$lane 0x9010 0x0003
phy raw sbus $port 0.$lane 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release

phy raw sbus $port 0.$lane 0xc010 0x0000
phy raw sbus $port 0.$lane 0xc010 0x0003
phy raw sbus $port 0.$lane 0xc010
```

```
# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy raw sbus $port 1.$lane 0xd081 0x0002
phy raw sbus $port 1.$lane 0xd081

# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy raw sbus $port 1.$lane 0xd0f4 0x2271
phy raw sbus $port 1.$lane 0xd0f4


# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy raw sbus $port 1.$lane 0xd080 0x8001
phy raw sbus $port 1.$lane 0xd080


# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.$lane 0xd127 0x000a
phy raw sbus $port 1.$lane 0xd127


# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
phy raw sbus $port 0.$lane 0x9000 0x6400
phy raw sbus $port 0.$lane 0x9000


# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc137 0x0001
phy raw sbus $port 0.$lane 0xc137


# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2

phy raw sbus $port 0.$lane 0xc113 0x01ca
phy raw sbus $port 0.$lane 0xc113


# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1

phy raw sbus $port 0.$lane 0xc113 0x01cb
phy raw sbus $port 0.$lane 0xc113


# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c

phy raw sbus $port 0.$lane 0xc050 0x001c
```

```
phy raw sbus $port 0.$lane 0xc050

phy raw sbus $port 0.$lane 0xc050 0x011c
phy raw sbus $port 0.$lane 0xc050

sleep 1;
phy raw sbus $port 0.$lane 0xc154

# PMD LOOPBACK
#phy raw sbus $port 1.$lane 0xd0d2
phy raw sbus $port 1.$lane 0xd0d2 0x1 # PMD Digital loopback control
# PCS LOOPBACK
phy raw sbus $port 0.$lane 0x9009 0xf0 # Main0 loopback control
phy raw sbus $port 1.$lane 0xd080      # OSR control
phy raw sbus $port 0.$lane 0xc154 # pcs live link status
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_10gosrm2.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type25.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type24.h
* Purpose:    Define dma control block (DCB) format for a type25 DCB
*             used by the 88030 (caladan3)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type25.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rce_c.stg,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_rce.c: Guadalupe2k V1.3 RCE
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_rce_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_rce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: config.c,v 1.28.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SAL Configuration Variable Support
*
* The SAL layer maintains a set of configuration variables for use
* by any upper layers (such as SOC or BCM).  It is maintained in the
* SAL layer without using anything other than the standard lib calls
* to avoid requiring anything other than just itself.
*
* These config variables can either be compiled into the image or read
* from a file during initialization.
*
* Precompiled values are defined in the function sal_config_init_defaults()
* which is automatically built from the uncommented values
* in $SDK/rc/config.bcm using the bcm2c.pl script.  This generates a source
* file called platform_defines.c
*
* Runtime values are loaded by reading the file config.bcm, typically
* stored in the switch's flash file system.  The variables are stored one
* per line in the file, in the form VARIABLE=VALUE.  Comment lines beginning
* with a # character and empty lines consisting of only white space are
* ignored.  The file $SDK/rc/config.bcm is an example that can be used
* as a guide.
*
* If the image is compile with NO_FILEIO or SAL_CONFIG_FILE_DISABLE
* defined, then the runtime values are not loaded from an external file.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassSourceIdEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassSourceIdEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTtlRange.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTtlRange.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pstats.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/pstats.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: low_level_defines.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dpp_implementation_defines_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dfe_implementation_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ingress_scheduler.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_northstarplus.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/robo_northstarplus.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  merlin_sesto_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: merlin_sesto_usr_includes.h 869 2015-01-23 00:24:44Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                                      *
*      Broadcom Corporation                                                        *
*      5300 California Avenue                                                      *
*      Irvine, CA  92617                                                           *
*                                                                                *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                                  *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwLthrEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwLthrEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwLthrEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: pr.c,v 1.9.16.14 Broadcom SDK $
*
* File: icc_user.c
* Purpose: Routines that setup ICC entries and customer application helpers
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/icc_user.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR1WstEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1WstEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: netdrv.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Copyright 2002-2004 Wind River Systems, Inc.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/netdrv.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: ddrtest.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ddrtest.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: idxres_mdb.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Aligned Indexed Resource Multilist management, using banked lists
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/idxres_mdb.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_tmc_api_callback.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/***
*
* FILENAME: DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_callback.c
*
* MODULE PREFIX: jer2_tmc
*
* FILE DESCRIPTION:
*

```
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_callback.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_workload_status.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_workload_status.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_workload_status.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mde_agent.c,v 1.5.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     mde_agent.c
*
* Purpose:   MDE Server
*
*          This module provides a network interface for controling
*          the C3 debugger.
*
*          Currently, this only supported for Linux User mode and VxWorks
*          chassis based systems.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/mde_agent.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: sbZfFabBm9600FoLinkStateTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600FoLinkStateTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.28.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    l3.c
* Purpose: Manages L3 interface table, forwarding table, routing table
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLnaPortRemapEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsLnaPortRemapEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_defs.h,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_82212_helper.h Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia_82212/tier2/furia_82212_helper.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabWredTableEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabWredTableEntry.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabWredTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_r.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_r.i
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon2_madura_debug_functions.h 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                                       *
*  Description  :  Functions used internally and available in debug shell only         *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_sbusdma_reg.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: CMICM Register Based SBUS DMA Driver
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_sbusdma_reg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE topology example example:
*
* The example simulate:
*  1. set topology for local module
*  2. set topology for faps group
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_topology.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_line_PTG.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_line_PTG.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ports.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_ports.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_tmcapi_egr_acl.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_egr_acl.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600InaPortPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaPortPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabQe2000BwPortConfigEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabQe2000BwPortConfigEntry.c,v 1.3 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabQe2000BwPortConfigEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfG2EplibIpSegment.hx,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbZfG2EplibIpSegment.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: serdescombo65.h,v 1.7 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdescombo65.h
* Purpose:    BCM5621X (Raptor) Internal Combo Port PHY Driver
*             10/100/1000/2500
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo65.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredCurvesTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredCurvesTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgNotTmePortRemapAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgNotTmePortRemapAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.13.24.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom CALADAN3 Statistics API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/stat.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_field_vxlan_lookup_unfound.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_vxlan_lookup_unfound.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: wb_db_cmu.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Warmboot for CMU software state
*
* Purpose:
* Warm boot module for Counter Management Unit Software
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/wb_db_cmu.c
No license file was found, but licenses were detected in source scan.

/*----------
* $Id: tscmod_enum_defines.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------
* Description: This file is automatically generated. It contains enums,
* elems, and doxygen comments needed for SerDes Configuration programs.
*----------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*----------
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/tscmod/src/tscmod_enum_defines.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/src/tdm_th2_shim.c#4 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip to core API shim layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_shim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alpm.c,v 1.49 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    alpm.c
* Purpose: Primitives for LPM management in ALPM - Mode.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/alpm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*
*
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software
* and all intellectual property rights therein.  IF YOU HAVE
```

```
* NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
* IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
*
* Except as expressly set forth in the Authorized License,
*
* 1.     This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof,
* and to use this information only in connection with your use of
* Broadcom integrated circuit products.
*
* 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
* PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
* BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
* INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
* ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
* TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
* THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
* WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/huracan_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_sesto_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: merlin_sesto_dv_functions.c 869 2015-01-23 00:24:44Z kirand $ *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmctype_def.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmctype_def.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: storm.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/storm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tunnel.c,v 1.53 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/tunnel.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ipv4_test.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ipv4_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm.h,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/cmicm.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon2_dino_fields.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                                       *
*  Description   :  Register access macros for FALCON2_DINO                             *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTciDmacConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTciDmacConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  merlin16_config.c                                          *
*  Created On    :  03 Nov 2015                                                *
*  Created By    :  Brent Roberts                                              *
*  Description   :  APIs for Serdes IPs                                        *
*  Revision      :   *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                 *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Port API
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_multicast_fabric.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_multicast_fabric.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcmult_fabric
*
* FILE DESCRIPTION: In the Fabric-Multicast scheme,
*                   the packets/cells are replicated at the FE stage.
*                   This file holds the API functions and Structures
*                   which implement the Fabric Multicast.
*                   The file contains the standard get/set, clear and print
*                   for configuration.
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_TSCF_XGXS.
* This file provides all basic definitions required to program the BCMI_TSCF_XGXS.
```

```
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tscf_xgxs_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tscf_xgxs_gen2_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_diags.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == qe2000_diags.h - QE2000 Diagnostics      ==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/qe2000_diags.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_ingress_packet_queuing.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_ingress_packet_queuing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_ofp_rates.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
```

```
*****************************************************************************
*  File Name     :  falcon_furia_internal.c                                *
*  Created On    :  13/02/2014                                             *
*  Created By    :  Justin Gaither                                         *
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :  $Id: falcon_furia_internal.c 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmsimxpt.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/simxpt/nlmsimxpt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOsThread.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOsDataTxRx.h
* Purpose:
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkOsThread.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: assert.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/assert.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_sa_auth.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_sa_auth.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_sa_auth.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port parameters.
*
* Its contents are not used directly by applications; it is used only
```

```
* by header files of parent APIs which need to define port parameters.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/fabric.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision     :  $Id: srds_api_enum.h 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*     Broadcom Corporation                                                  *
*     5300 California Avenue                                                *
*     Irvine, CA  92617                                                     *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
// Broadcom Proprietary and Confidential. All rights reserved.$
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/leddasmcore.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/ledsim.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/leddasm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_gsa_petra_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_gsa_petra_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassDefaultQEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassDefaultQEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mirror support for SBX fabric.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rpacket.c,v 1.81 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet receive test that uses the BCM api.
*
* December, 2002:  Options added to support RX APIs.
*    This also adds:
*        interrupt/non-interrupt handling;
*        packet stealing;
*        if stealing, freeing packets with DPC (always with interrupt,
*                optionally with non-interrupt) or immediately;
*
*    When stealing packets, the system will crash if the rate is
*    high enough:  Over 4K pkts/sec on Mousse, and 6K pkts/sec on BMW.
*    This does not appear to be related to DPC.
*
```

```
*    Current max rates for RX API, no packet stealing:
*       BMW (8245) on 5690, interrupt:          11.6 K pkts/sec
*       BMW, non-interrupt:                     11.6 K pkts/sec
*       Mousse, non-interrupt:                  10.4 K pkts/sec
*
*    Update on max rates for RX API:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/rpacket.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this is a utility module that is shared between the other Crash Recovery modules.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_crash_recovery_utils.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_crash_recovery_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_crash_recovery_utils.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_crash_recovery_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem_avl.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  mem_avl.h
* Purpose:  Defines a generic memory manager using AVL tree and DDL List.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/mem_avl.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: mgmt.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem remote management library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/aps/mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Trunk CLI functions that are common for more than one chip architecture
* (XGS, SBX, possibly Robo)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdescombo.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     physerdescombo.c
* Purpose:
*     Fiber driver for serdescombo using internal Serdes PHY.
*
* For BCM56218, the internal GMACC core of the GPORT should always be
* configured to run in SGMII mode.  TBI mode is not supported between
* the GMACC and the internal SERDES module.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     _phy_serdescombo_notify_duplex
*     _phy_serdescombo_notify_speed
*     _phy_serdescombo_notify_stop
```

```
*      _phy_serdescombo_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdescombo.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_mymac.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_mymac.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ingress_scheduler.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod_sc_lkup_table.c, $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
```

```
*  Description: define enumerators
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_sc_lkup_table.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_sc_lkup_table.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: test.h,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       test.h
* Purpose:     Defines and types required for building test lists.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-diag-full.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag-full/bcm-diag-full.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: falcon2_dino_common.h 1266 2015-11-20 13:18:43Z kirand $ *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes APIs        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueStateEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueStateEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pm.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CALADAN3 OAM Performance measurement function
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/pm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag tx (transmit) and rx (receive) commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/txrx.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: fields.c
* Purpose: Field definitions, field names
* Supports: bcm53242_a0
*  bcm53262_a0
*  bcm53115_a0
*  bcm53118_a0
*  bcm53280_a0
*  bcm53280_b0
*  bcm53101_a0
*  bcm53125_a0
*  bcm53128_a0
*  bcm53134_a0
*  bcm53134_b0
*  bcm53600_a0
*  bcm89500_a0
*  bcm53010_a0
*  bcm5389_a0
*  bcm53020_a0
*  bcm5396_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/fields.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTableAddrConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: sbFe2000CommonUtil.h,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000CommonUtil.h
No license file was found, but licenses were detected in source scan.

```
# $Id: polarsanity.soc,v 1.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: polarsanity"
rcload robo.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

#Display config property settings
config

local done 'echo "   Done"'
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
ver
soc

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3
$done

#Clean up after register read/write test.
rcload robo.soc
counter off
l2mode off

echo "Running Switching Memory tests ..."
echo "tr 50 M=CFP_ACT_POL";tr 50 M=CFP_ACT_POL IS=min IE=max; echo " Done"
echo "tr 50 M=CFP_METER";tr 50 M=CFP_METER IS=min IE=max; echo " Done"
echo "tr 50 M=CFP_STAT_IB";tr 50 M=CFP_STAT_IB IS=min IE=max; echo " Done"
echo "tr 50 M=CFP_STAT_OB";tr 50 M=CFP_STAT_OB IS=min IE=max; echo " Done"
echo "tr 50 M=TCAM_Chain_MASK";tr 50 M=TCAM_Chain_MASK IS=min IE=max; echo " Done"
echo "tr 50 M=TCAM_Chain_SC";tr 50 M=TCAM_Chain_SC IS=min IE=max; echo " Done"
echo "tr 50 M=EGRESS_VID_REMARK";tr 50 M=EGRESS_VID_REMARK IS=min IE=max; echo " Done"
echo "tr 50 M=ARL";tr 50 M=ARL IS=min IE=max; echo " Done"
echo "tr 50 M=MSPT";tr 50 M=MSPT IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN";tr 50 M=VLAN IS=min IE=max; echo " Done"

echo "tr 51 M=CFP_ACT_POL";tr 51 M=CFP_ACT_POL IS=min IE=max; echo " Done"
echo "tr 51 M=CFP_METER";tr 51 M=CFP_METER IS=min IE=max; echo " Done"
echo "tr 51 M=CFP_STAT_IB";tr 51 M=CFP_STAT_IB IS=min IE=max; echo " Done"
echo "tr 51 M=CFP_STAT_OB";tr 51 M=CFP_STAT_OB IS=min IE=max; echo " Done"
echo "tr 51 M=TCAM_Chain_MASK";tr 51 M=TCAM_Chain_MASK IS=min IE=max; echo " Done"
echo "tr 51 M=TCAM_Chain_SC";tr 51 M=TCAM_Chain_SC IS=min IE=max; echo " Done"
echo "tr 51 M=EGRESS_VID_REMARK";tr 51 M=EGRESS_VID_REMARK IS=min IE=max; echo " Done"
echo "tr 51 M=ARL";tr 51 M=ARL IS=min IE=max; echo " Done"
echo "tr 51 M=MSPT";tr 51 M=MSPT IS=min IE=max; echo " Done"
```

```
echo "tr 51 M=VLAN";tr 51 M=VLAN IS=min IE=max; echo " Done"

echo "tr 52 M=CFP_ACT_POL";tr 52 M=CFP_ACT_POL IS=min IE=max; echo " Done"
echo "tr 52 M=CFP_METER";tr 52 M=CFP_METER IS=min IE=max; echo " Done"
echo "tr 52 M=CFP_STAT_IB";tr 52 M=CFP_STAT_IB IS=min IE=max; echo " Done"
echo "tr 52 M=CFP_STAT_OB";tr 52 M=CFP_STAT_OB IS=min IE=max; echo " Done"
echo "tr 52 M=TCAM_Chain_MASK";tr 52 M=TCAM_Chain_MASK IS=min IE=max; echo " Done"
echo "tr 52 M=TCAM_Chain_SC";tr 52 M=TCAM_Chain_SC IS=min IE=max; echo " Done"
echo "tr 52 M=EGRESS_VID_REMARK";tr 52 M=EGRESS_VID_REMARK IS=min IE=max; echo " Done"
echo "tr 52 M=ARL";tr 52 M=ARL IS=min IE=max; echo " Done"
echo "tr 52 M=MSPT";tr 52 M=MSPT IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN";tr 52 M=VLAN IS=min IE=max; echo " Done"

#Do re-init after Switching Memory tests
rcload robo.soc
counter off
l2mode off

#Internal snake Loopback
echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy
$done

#--------- PHY Loopback V2 ---------
echo "Running PHY loopback V2 on all ports ..."
tr 49
$done

#Traffic Test
echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY
$done

#echo "Running Traffic Test in EXTERNAL mode ..."
tr 72 RM=EXT AN=F SP=100 PBM=ge0-ge3
#$done

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload robo.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: polarsanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/polarsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_dino_field_access.h                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  Serdes IP Register and Field access APIs                     *
*  Revision      :  $Id: falcon2_dino_field_access.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_field_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmDemandCfgDataEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmDemandCfgDataEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eth_drv.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/eth/eth_drv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_framework.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/src/soc_ppd_api_framework.c
*
* MODULE PREFIX:  soc_ppd_api_framework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_framework.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# $Id$

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

ucode_num_ports.0=6

# 4 10g XE Ports Running in Independent Lane Mode
# WC0
```

```
ucode_port.port1.0=clport0.xe.0.0:clport1.hg126.0.0
ucode_port.port2.0=clport0.xe.0.1:clport1.hg126.0.1
ucode_port.port3.0=clport0.xe.0.2:clport1.hg126.0.2
ucode_port.port4.0=clport0.xe.0.3:clport1.hg126.0.3

# WC1
ucode_port.port5.0=clport0.xaui.1.0:clport1.hg126.0.4

# WC2
ucode_port.port6.0=clport0.xaui.2.0:clport1.hg126.0.5


higig2_hdr_mode_hg0=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1


xgxs_rx_lane_map_xe0=0x1230

xgxs_rx_lane_map_xe4=0x1032
xgxs_rx_lane_map_xe5=0x1230


xgxs_tx_lane_map_xe0=0x1032

xgxs_tx_lane_map_xe4=0x3210
xgxs_tx_lane_map_xe5=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_rx_polarity_flip_xe4=0x000f

phy_xaui_rx_polarity_flip_xe5=0x000b


phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000

phy_xaui_tx_polarity_flip_xe4=0x000f
```

```
phy_xaui_tx_polarity_flip_xe5=0x000c

#2x1G XC ports tx/rx swap
xgxs_tx_lane_map_ge=0x3120
xgxs_rx_lane_map_ge=0x3110


# ??? Not included in Trupti's but is in Vinodh's

#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_hg0=0x1032
xgxs_rx_lane_map_core1_hg0=0x3210
xgxs_rx_lane_map_core2_hg0=0x1032

xgxs_tx_lane_map_core0_hg0=0x1032
xgxs_tx_lane_map_core1_hg0=0x3210
xgxs_tx_lane_map_core2_hg0=0x1032

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_rd_dq_wl1_rp_ci8.0=0x82828282,0x82828282,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_vref_ci10.0=0x000007df
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci8.0=0x99999393,0x99999393
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci10.0=0x00a5a6a5,0x00a0a29e
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b1
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dqs_ci10.0=0x98989292,0x99999898
ddr3_tune_rd_en_ci2.0=0x00a0a1a0,0x00a3a6a1
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
```

ddr3_tune_addrc_ci10.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci6.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_vref_ci12.0=0x000007df
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci4.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci10.0=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009c9d9b,0x00989b96
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci12.0=0x98989393,0x99999797
ddr3_tune_rd_dqs_ci0.0=0x9a9a9494,0x9a9a9999
ddr3_tune_rd_en_ci4.0=0x009d9e9c,0x00979a95
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b3
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci12.0=0x000000b3
ddr3_tune_wr_dq_wl0_ci8.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_vref_ci14.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci6.0=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci12.0=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989998,0x009c9e9b
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci14.0=0x9a9a9797,0x99999999
ddr3_tune_rd_dqs_ci2.0=0x9b9b9494,0x99999898
ddr3_tune_rd_en_ci6.0=0x009b9b9b,0x00979995
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x0000079e
ddr3_tune_addrc_ci2.0=0x000000b2
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x82828282,0x82828282,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b2
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci8.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c

```
ddr3_tune_wr_dq_wl1_ci14.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0.0=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci4.0=0x9a9a9393,0x9b9b9393
ddr3_tune_rd_en_ci8.0=0x00979896,0x009a9d97
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000b3
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci2.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl1_ci0.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci6.0=0x99999494,0x99999999
ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x84848484,0x84848484,0x89898989,0x89898989
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000b4
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x00a2a3a2,0x009fa19d
ddr3_tune_wr_dq_wl0_ci10.0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b


#lrp_bypass=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10G-2xXAUI_1xhg127.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains L2GRE definitions internal to the BCM library.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/l2gre.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision      :  $Id: srds_api_uc_common_public.h 1067 2015-06-16 22:53:47Z kirand $  *
*                                                                            *
*  Description   :  Defines and Enumerations required by Serdes ucode        *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_tmd_api.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_tmd_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x10g_18x1g_1xil50.h,v 1.1.2.4 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/caladan3/sws_configs/c3_4x10g_18x1g_1xil50.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound2/port.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc
init misc
init mmu
# required for OAMP memories
s OAMP_ENABLE_DYNAMIC_MEMORY_ACCESS ENABLE_DYNAMIC_MEMORY_ACCESS=1

echo "there are 635 more memories to test.";echo "tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=min ";tr 50 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=min;echo 'done';
echo "there are 634 more memories to test.";echo "tr 50 M=BCAST_BLOCK_MASK IS=min IE=min ";tr 50 M=BCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 633 more memories to test.";echo "tr 50 M=PORT_COS_MAP IS=min IE=min ";tr 50 M=PORT_COS_MAP IS=min IE=min;echo 'done';
echo "there are 632 more memories to test.";echo "tr 50 M=COS_MAP_SEL IS=min IE=min ";tr 50 M=COS_MAP_SEL IS=min IE=min;echo 'done';
echo "there are 631 more memories to test.";echo "tr 50 M=CPU_COS_MAP IS=min IE=min ";tr 50 M=CPU_COS_MAP IS=min IE=min;echo 'done';
echo "there are 630 more memories to test.";echo "tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=min ";tr 50 M=CPU_COS_MAP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 629 more memories to test.";echo "tr 50 M=CPU_COS_MAP_ONLY IS=min IE=min ";tr 50 M=CPU_COS_MAP_ONLY IS=min IE=min;echo 'done';
echo "there are 628 more memories to test.";echo "tr 50 M=CPU_PBM IS=min IE=min ";tr 50 M=CPU_PBM IS=min IE=min;echo 'done';
echo "there are 627 more memories to test.";echo "tr 50 M=CPU_PBM_2 IS=min IE=min ";tr 50 M=CPU_PBM_2 IS=min IE=min;echo 'done';
echo "there are 626 more memories to test.";echo "tr 50 M=CPU_TS_MAP IS=min IE=min ";tr 50
```

```
M=CPU_TS_MAP IS=min IE=min;echo 'done';
echo "there are 625 more memories to test.";echo "tr 50 M=CTR_DEQ_STATUS_MEM IS=min IE=min ";tr 50
M=CTR_DEQ_STATUS_MEM IS=min IE=min;echo 'done';
echo "there are 624 more memories to test.";echo "tr 50 M=CTR_FLEX_COUNT_0 IS=min IE=min ";tr 50
M=CTR_FLEX_COUNT_0 IS=min IE=min;echo 'done';
echo "there are 623 more memories to test.";echo "tr 50 M=CTR_FLEX_COUNT_1 IS=min IE=min ";tr 50
M=CTR_FLEX_COUNT_1 IS=min IE=min;echo 'done';
echo "there are 622 more memories to test.";echo "tr 50 M=CTR_FLEX_COUNT_2 IS=min IE=min ";tr 50
M=CTR_FLEX_COUNT_2 IS=min IE=min;echo 'done';
echo "there are 621 more memories to test.";echo "tr 50 M=CTR_FLEX_COUNT_3 IS=min IE=min ";tr 50
M=CTR_FLEX_COUNT_3 IS=min IE=min;echo 'done';
echo "there are 620 more memories to test.";echo "tr 50 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min
IE=min ";tr 50 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 619 more memories to test.";echo "tr 50 M=DSCP_TABLE IS=min IE=min ";tr 50
M=DSCP_TABLE IS=min IE=min;echo 'done';
echo "there are 618 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS IS=min IE=min ";tr 50
M=E2E_HOL_STATUS IS=min IE=min;echo 'done';
echo "there are 617 more memories to test.";echo "tr 50 M=E2E_HOL_STATUS_1 IS=min IE=min ";tr 50
M=E2E_HOL_STATUS_1 IS=min IE=min;echo 'done';
echo "there are 616 more memories to test.";echo "tr 50 M=EFP_COUNTER_TABLE IS=min IE=min ";tr 50
M=EFP_COUNTER_TABLE IS=min IE=min;echo 'done';
echo "there are 615 more memories to test.";echo "tr 50 M=EFP_METER_TABLE IS=min IE=min ";tr 50
M=EFP_METER_TABLE IS=min IE=min;echo 'done';
echo "there are 614 more memories to test.";echo "tr 50 M=EFP_POLICY_TABLE IS=min IE=min ";tr 50
M=EFP_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 613 more memories to test.";echo "tr 50 M=EFP_TCAM IS=min IE=min ";tr 50 M=EFP_TCAM
IS=min IE=min;echo 'done';
echo "there are 612 more memories to test.";echo "tr 50 M=EGR_1588_SA IS=min IE=min ";tr 50
M=EGR_1588_SA IS=min IE=min;echo 'done';
echo "there are 611 more memories to test.";echo "tr 50 M=EGR_COS_MAP IS=min IE=min ";tr 50
M=EGR_COS_MAP IS=min IE=min;echo 'done';
echo "there are 610 more memories to test.";echo "tr 50 M=EGR_CPU_COS_MAP IS=min IE=min ";tr 50
M=EGR_CPU_COS_MAP IS=min IE=min;echo 'done';
echo "there are 609 more memories to test.";echo "tr 50 M=EGR_DNX_HEADER IS=min IE=min ";tr 50
M=EGR_DNX_HEADER IS=min IE=min;echo 'done';
echo "there are 608 more memories to test.";echo "tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=min ";tr 50
M=EGR_DSCP_ECN_MAP IS=min IE=min;echo 'done';
echo "there are 607 more memories to test.";echo "tr 50 M=EGR_DSCP_TABLE IS=min IE=min ";tr 50
M=EGR_DSCP_TABLE IS=min IE=min;echo 'done';
echo "there are 606 more memories to test.";echo "tr 50 M=EGR_DVP_ATTRIBUTE IS=min IE=min ";tr 50
M=EGR_DVP_ATTRIBUTE IS=min IE=min;echo 'done';
echo "there are 605 more memories to test.";echo "tr 50 M=EGR_EM_MTP_INDEX IS=min IE=min ";tr 50
M=EGR_EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 604 more memories to test.";echo "tr 50 M=EGR_ENABLE IS=min IE=min ";tr 50
M=EGR_ENABLE IS=min IE=min;echo 'done';
echo "there are 603 more memories to test.";echo "tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min
IE=min ";tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 602 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
```

```
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 601 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 600 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 599 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 598 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 597 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 596 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 595 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min
IE=min ";tr 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 594 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=min ";tr
50 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 593 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=min
";tr 50 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=min;echo 'done';
echo "there are 592 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=min ";tr 50
M=EGR_FLEX_CTR_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 591 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=min
";tr 50 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 590 more memories to test.";echo "tr 50 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=min ";tr 50
M=EGR_FLEX_CTR_TOS_MAP IS=min IE=min;echo 'done';
echo "there are 589 more memories to test.";echo "tr 50 M=EGR_FRAGMENT_ID_TABLE IS=min IE=min ";tr 50
M=EGR_FRAGMENT_ID_TABLE IS=min IE=min;echo 'done';
echo "there are 588 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES IS=min IE=min ";tr 50
M=EGR_GPP_ATTRIBUTES IS=min IE=min;echo 'done';
echo "there are 587 more memories to test.";echo "tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min
IE=min ";tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=min;echo 'done';
echo "there are 586 more memories to test.";echo "tr 50 M=EGR_IM_MTP_INDEX IS=min IE=min ";tr 50
M=EGR_IM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 585 more memories to test.";echo "tr 50 M=EGR_IPMC IS=min IE=min ";tr 50 M=EGR_IPMC
IS=min IE=min;echo 'done';
echo "there are 584 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL IS=min IE=min;echo 'done';
echo "there are 583 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_IPV6 IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL_IPV6 IS=min IE=min;echo 'done';
echo "there are 582 more memories to test.";echo "tr 50 M=EGR_IP_TUNNEL_MPLS IS=min IE=min ";tr 50
M=EGR_IP_TUNNEL_MPLS IS=min IE=min;echo 'done';
echo "there are 581 more memories to test.";echo "tr 50 M=EGR_L3_INTF IS=min IE=min ";tr 50
M=EGR_L3_INTF IS=min IE=min;echo 'done';
echo "there are 580 more memories to test.";echo "tr 50 M=EGR_L3_NEXT_HOP IS=min IE=min ";tr 50
M=EGR_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 579 more memories to test.";echo "tr 50 M=EGR_LM_COUNTER_CONTROL IS=min IE=min ";tr
50 M=EGR_LM_COUNTER_CONTROL IS=min IE=min;echo 'done';
echo "there are 578 more memories to test.";echo "tr 50 M=EGR_MAC_DA_PROFILE IS=min IE=min ";tr 50
```

```
M=EGR_MAC_DA_PROFILE IS=min IE=min;echo 'done';
echo "there are 577 more memories to test.";echo "tr 50 M=EGR_MAP_MH IS=min IE=min ";tr 50
M=EGR_MAP_MH IS=min IE=min;echo 'done';
echo "there are 576 more memories to test.";echo "tr 50 M=EGR_MASK IS=min IE=min ";tr 50 M=EGR_MASK
IS=min IE=min;echo 'done';
echo "there are 575 more memories to test.";echo "tr 50 M=EGR_MASK_MODBASE IS=min IE=min ";tr 50
M=EGR_MASK_MODBASE IS=min IE=min;echo 'done';
echo "there are 574 more memories to test.";echo "tr 50 M=EGR_MA_INDEX IS=min IE=min ";tr 50
M=EGR_MA_INDEX IS=min IE=min;echo 'done';
echo "there are 573 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=min
";tr 50 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=min;echo 'done';
echo "there are 572 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=min ";tr
50 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=min;echo 'done';
echo "there are 571 more memories to test.";echo "tr 50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=min ";tr
50 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=min;echo 'done';
echo "there are 570 more memories to test.";echo "tr 50 M=EGR_MOD_MAP_TABLE IS=min IE=min ";tr 50
M=EGR_MOD_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 569 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=min;echo 'done';
echo "there are 568 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=min;echo 'done';
echo "there are 567 more memories to test.";echo "tr 50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=min ";tr
50 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 566 more memories to test.";echo "tr 50 M=EGR_MPLS_PRI_MAPPING IS=min IE=min ";tr 50
M=EGR_MPLS_PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 565 more memories to test.";echo "tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=min ";tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=min;echo 'done';
echo "there are 564 more memories to test.";echo "tr 50 M=EGR_MP_GROUP IS=min IE=min ";tr 50
M=EGR_MP_GROUP IS=min IE=min;echo 'done';
echo "there are 563 more memories to test.";echo "tr 50 M=EGR_NETWORK_PRUNE_CONTROL IS=min
IE=min ";tr 50 M=EGR_NETWORK_PRUNE_CONTROL IS=min IE=min;echo 'done';
echo "there are 562 more memories to test.";echo "tr 50 M=EGR_OAM_DGLP_PROFILE IS=min IE=min ";tr 50
M=EGR_OAM_DGLP_PROFILE IS=min IE=min;echo 'done';
echo "there are 561 more memories to test.";echo "tr 50 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL
IS=min IE=min ";tr 50 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=min;echo 'done';
echo "there are 560 more memories to test.";echo "tr 50 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=min ";tr
50 M=EGR_OAM_LM_COUNTERS_0 IS=min IE=min;echo 'done';
echo "there are 559 more memories to test.";echo "tr 50 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=min ";tr
50 M=EGR_OAM_LM_COUNTERS_1 IS=min IE=min;echo 'done';
echo "there are 558 more memories to test.";echo "tr 50 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=min ";tr
50 M=EGR_OAM_LM_COUNTERS_2 IS=min IE=min;echo 'done';
echo "there are 557 more memories to test.";echo "tr 50 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min
IE=min ";tr 50 M=EGR_OAM_OPCODE_CONTROL_PROFILE IS=min IE=min;echo 'done';
echo "there are 556 more memories to test.";echo "tr 50 M=EGR_OAM_OPCODE_GROUP IS=min IE=min ";tr 50
M=EGR_OAM_OPCODE_GROUP IS=min IE=min;echo 'done';
echo "there are 555 more memories to test.";echo "tr 50 M=EGR_OLP_CONFIG IS=min IE=min ";tr 50
M=EGR_OLP_CONFIG IS=min IE=min;echo 'done';
echo "there are 554 more memories to test.";echo "tr 50 M=EGR_OLP_DGPP_CONFIG IS=min IE=min ";tr 50
```

```
M=EGR_OLP_DGPP_CONFIG IS=min IE=min;echo 'done';
echo "there are 553 more memories to test.";echo "tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min
IE=min ";tr 50 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=min;echo 'done';
echo "there are 552 more memories to test.";echo "tr 50 M=EGR_PCP_DE_MAPPING IS=min IE=min ";tr 50
M=EGR_PCP_DE_MAPPING IS=min IE=min;echo 'done';
echo "there are 551 more memories to test.";echo "tr 50 M=EGR_PHYSICAL_PORT IS=min IE=min ";tr 50
M=EGR_PHYSICAL_PORT IS=min IE=min;echo 'done';
echo "there are 550 more memories to test.";echo "tr 50 M=EGR_PORT IS=min IE=min ";tr 50 M=EGR_PORT
IS=min IE=min;echo 'done';
echo "there are 549 more memories to test.";echo "tr 50 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=min ";tr
50 M=EGR_PORT_PKT_SOP_ENABLE IS=min IE=min;echo 'done';
echo "there are 548 more memories to test.";echo "tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min
IE=min ";tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_1 IS=min IE=min;echo 'done';
echo "there are 547 more memories to test.";echo "tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min
IE=min ";tr 50 M=EGR_PP_PORT_GPP_TRANSLATION_2 IS=min IE=min;echo 'done';
echo "there are 546 more memories to test.";echo "tr 50 M=EGR_PRI_CNG_MAP IS=min IE=min ";tr 50
M=EGR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 545 more memories to test.";echo "tr 50 M=EGR_PW_INIT_COUNTERS IS=min IE=min ";tr 50
M=EGR_PW_INIT_COUNTERS IS=min IE=min;echo 'done';
echo "there are 544 more memories to test.";echo "tr 50 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=min
";tr 50 M=EGR_QUEUE_TO_PP_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 543 more memories to test.";echo "tr 50 M=EGR_SAT_CONFIG_MAC_SA IS=min IE=min ";tr 50
M=EGR_SAT_CONFIG_MAC_SA IS=min IE=min;echo 'done';
echo "there are 542 more memories to test.";echo "tr 50 M=EGR_SAT_SAMP_DATA IS=min IE=min ";tr 50
M=EGR_SAT_SAMP_DATA IS=min IE=min;echo 'done';
echo "there are 541 more memories to test.";echo "tr 50 M=EGR_SAT_SAMP_DATA_1 IS=min IE=min ";tr 50
M=EGR_SAT_SAMP_DATA_1 IS=min IE=min;echo 'done';
echo "there are 540 more memories to test.";echo "tr 50 M=EGR_SAT_SAMP_TCAM IS=min IE=min ";tr 50
M=EGR_SAT_SAMP_TCAM IS=min IE=min;echo 'done';
echo "there are 539 more memories to test.";echo "tr 50 M=EGR_SERVICE_PRI_MAP_0 IS=min IE=min ";tr 50
M=EGR_SERVICE_PRI_MAP_0 IS=min IE=min;echo 'done';
echo "there are 538 more memories to test.";echo "tr 50 M=EGR_SERVICE_PRI_MAP_1 IS=min IE=min ";tr 50
M=EGR_SERVICE_PRI_MAP_1 IS=min IE=min;echo 'done';
echo "there are 537 more memories to test.";echo "tr 50 M=EGR_SERVICE_PRI_MAP_2 IS=min IE=min ";tr 50
M=EGR_SERVICE_PRI_MAP_2 IS=min IE=min;echo 'done';
#echo "there are 536 more memories to test.";echo "tr 50 M=EGR_SER_FIFO IS=min IE=min ";tr 50
M=EGR_SER_FIFO IS=min IE=min;echo 'done';
echo "there are 535 more memories to test.";echo "tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=min
";tr 50 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=min;echo 'done';
echo "there are 534 more memories to test.";echo "tr 50 M=EGR_VFI IS=min IE=min ";tr 50 M=EGR_VFI IS=min
IE=min;echo 'done';
echo "there are 533 more memories to test.";echo "tr 50 M=EGR_VLAN IS=min IE=min ";tr 50 M=EGR_VLAN
IS=min IE=min;echo 'done';
echo "there are 532 more memories to test.";echo "tr 50 M=EGR_VLAN_STG IS=min IE=min ";tr 50
M=EGR_VLAN_STG IS=min IE=min;echo 'done';
echo "there are 531 more memories to test.";echo "tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min
IE=min ";tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=min;echo 'done';
echo "there are 530 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE IS=min IE=min ";tr 50
```

```
M=EGR_VLAN_XLATE IS=min IE=min;echo 'done';
echo "there are 529 more memories to test.";echo "tr 50 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=min
";tr 50 M=EGR_VLAN_XLATE_OVERFLOW IS=min IE=min;echo 'done';
echo "there are 528 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL IS=min IE=min ";tr 50
M=EMIRROR_CONTROL IS=min IE=min;echo 'done';
echo "there are 527 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL1 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL1 IS=min IE=min;echo 'done';
echo "there are 526 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL2 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL2 IS=min IE=min;echo 'done';
echo "there are 525 more memories to test.";echo "tr 50 M=EMIRROR_CONTROL3 IS=min IE=min ";tr 50
M=EMIRROR_CONTROL3 IS=min IE=min;echo 'done';
echo "there are 524 more memories to test.";echo "tr 50 M=EM_MTP_INDEX IS=min IE=min ";tr 50
M=EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 523 more memories to test.";echo "tr 50 M=EPC_LINK_BMAP IS=min IE=min ";tr 50
M=EPC_LINK_BMAP IS=min IE=min;echo 'done';
echo "there are 522 more memories to test.";echo "tr 50 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=min
";tr 50 M=EP_REDIRECT_EM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 521 more memories to test.";echo "tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min
IE=min ";tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_A IS=min IE=min;echo 'done';
echo "there are 520 more memories to test.";echo "tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min
IE=min ";tr 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_B IS=min IE=min;echo 'done';
echo "there are 519 more memories to test.";echo "tr 50 M=FP_COUNTER_TABLE IS=min IE=min ";tr 50
M=FP_COUNTER_TABLE IS=min IE=min;echo 'done';
echo "there are 518 more memories to test.";echo "tr 50 M=FP_FLEX_KEY_SELECTOR IS=min IE=min ";tr 50
M=FP_FLEX_KEY_SELECTOR IS=min IE=min;echo 'done';
echo "there are 517 more memories to test.";echo "tr 50 M=FP_GLOBAL_MASK_TCAM IS=min IE=min ";tr 50
M=FP_GLOBAL_MASK_TCAM IS=min IE=min;echo 'done';
echo "there are 516 more memories to test.";echo "tr 50 M=FP_HG_CLASSID_SELECT IS=min IE=min ";tr 50
M=FP_HG_CLASSID_SELECT IS=min IE=min;echo 'done';
echo "there are 515 more memories to test.";echo "tr 50 M=FP_I2E_CLASSID_SELECT IS=min IE=min ";tr 50
M=FP_I2E_CLASSID_SELECT IS=min IE=min;echo 'done';
echo "there are 514 more memories to test.";echo "tr 50 M=FP_METER_TABLE IS=min IE=min ";tr 50
M=FP_METER_TABLE IS=min IE=min;echo 'done';
echo "there are 513 more memories to test.";echo "tr 50 M=FP_POLICY_TABLE IS=min IE=min ";tr 50
M=FP_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 512 more memories to test.";echo "tr 50 M=FP_PORT_FIELD_SEL IS=min IE=min ";tr 50
M=FP_PORT_FIELD_SEL IS=min IE=min;echo 'done';
echo "there are 511 more memories to test.";echo "tr 50 M=FP_PORT_METER_MAP IS=min IE=min ";tr 50
M=FP_PORT_METER_MAP IS=min IE=min;echo 'done';
echo "there are 510 more memories to test.";echo "tr 50 M=FP_RANGE_CHECK IS=min IE=min ";tr 50
M=FP_RANGE_CHECK IS=min IE=min;echo 'done';
echo "there are 509 more memories to test.";echo "tr 50 M=FP_SLICE_KEY_CONTROL IS=min IE=min ";tr 50
M=FP_SLICE_KEY_CONTROL IS=min IE=min;echo 'done';
echo "there are 508 more memories to test.";echo "tr 50 M=FP_SLICE_MAP IS=min IE=min ";tr 50
M=FP_SLICE_MAP IS=min IE=min;echo 'done';
echo "there are 507 more memories to test.";echo "tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=min
";tr 50 M=FP_STORM_CONTROL_METERS IS=min IE=min;echo 'done';
echo "there are 506 more memories to test.";echo "tr 50 M=FP_TCAM IS=min IE=min ";tr 50 M=FP_TCAM
```

```
IS=min IE=min;echo 'done';
echo "there are 505 more memories to test.";echo "tr 50 M=GTP_PORT_TABLE IS=min IE=min ";tr 50
M=GTP_PORT_TABLE IS=min IE=min;echo 'done';
echo "there are 504 more memories to test.";echo "tr 50 M=HG_TRUNK_BITMAP IS=min IE=min ";tr 50
M=HG_TRUNK_BITMAP IS=min IE=min;echo 'done';
echo "there are 503 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=min
";tr 50 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=min;echo 'done';
echo "there are 502 more memories to test.";echo "tr 50 M=HG_TRUNK_FAILOVER_SET IS=min IE=min ";tr 50
M=HG_TRUNK_FAILOVER_SET IS=min IE=min;echo 'done';
echo "there are 501 more memories to test.";echo "tr 50 M=HG_TRUNK_GROUP IS=min IE=min ";tr 50
M=HG_TRUNK_GROUP IS=min IE=min;echo 'done';
echo "there are 500 more memories to test.";echo "tr 50 M=HG_TRUNK_MEMBER IS=min IE=min ";tr 50
M=HG_TRUNK_MEMBER IS=min IE=min;echo 'done';
echo "there are 499 more memories to test.";echo "tr 50 M=HIGIG_TRUNK_CONTROL IS=min IE=min ";tr 50
M=HIGIG_TRUNK_CONTROL IS=min IE=min;echo 'done';
echo "there are 498 more memories to test.";echo "tr 50 M=IARB_ING_PHYSICAL_PORT IS=min IE=min ";tr 50
M=IARB_ING_PHYSICAL_PORT IS=min IE=min;echo 'done';
echo "there are 497 more memories to test.";echo "tr 50 M=IARB_TDM_TABLE IS=min IE=min ";tr 50
M=IARB_TDM_TABLE IS=min IE=min;echo 'done';
echo "there are 496 more memories to test.";echo "tr 50 M=IARB_TDM_TABLE_1 IS=min IE=min ";tr 50
M=IARB_TDM_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 495 more memories to test.";echo "tr 50 M=ICONTROL_OPCODE_BITMAP IS=min IE=min ";tr
50 M=ICONTROL_OPCODE_BITMAP IS=min IE=min;echo 'done';
echo "there are 494 more memories to test.";echo "tr 50 M=IFP_COS_MAP IS=min IE=min ";tr 50
M=IFP_COS_MAP IS=min IE=min;echo 'done';
echo "there are 493 more memories to test.";echo "tr 50 M=IFP_REDIRECTION_PROFILE IS=min IE=min ";tr 50
M=IFP_REDIRECTION_PROFILE IS=min IE=min;echo 'done';
echo "there are 492 more memories to test.";echo "tr 50 M=IMIRROR_BITMAP IS=min IE=min ";tr 50
M=IMIRROR_BITMAP IS=min IE=min;echo 'done';
echo "there are 491 more memories to test.";echo "tr 50 M=IM_MTP_INDEX IS=min IE=min ";tr 50
M=IM_MTP_INDEX IS=min IE=min;echo 'done';
echo "there are 490 more memories to test.";echo "tr 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE
IS=min IE=min ";tr 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE IS=min IE=min;echo 'done';
echo "there are 489 more memories to test.";echo "tr 50 M=ING_DVP_TABLE IS=min IE=min ";tr 50
M=ING_DVP_TABLE IS=min IE=min;echo 'done';
echo "there are 488 more memories to test.";echo "tr 50 M=ING_EGRMSKBMAP IS=min IE=min ";tr 50
M=ING_EGRMSKBMAP IS=min IE=min;echo 'done';
echo "there are 487 more memories to test.";echo "tr 50 M=ING_EN_EFILTER_BITMAP IS=min IE=min ";tr 50
M=ING_EN_EFILTER_BITMAP IS=min IE=min;echo 'done';
echo "there are 486 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 485 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 484 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 483 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=min ";tr 50 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 482 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min
```

```
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=min;echo 'done';
echo "there are 481 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 480 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=min;echo 'done';
echo "there are 479 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min
";tr 50 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=min;echo 'done';
echo "there are 478 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 477 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=min;echo 'done';
echo "there are 476 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PORT_MAP IS=min IE=min ";tr 50
M=ING_FLEX_CTR_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 475 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=min ";tr
50 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 474 more memories to test.";echo "tr 50 M=ING_FLEX_CTR_TOS_MAP IS=min IE=min ";tr 50
M=ING_FLEX_CTR_TOS_MAP IS=min IE=min;echo 'done';
echo "there are 473 more memories to test.";echo "tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=min ";tr 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=min;echo 'done';
echo "there are 472 more memories to test.";echo "tr 50 M=ING_L3_NEXT_HOP IS=min IE=min ";tr 50
M=ING_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 471 more memories to test.";echo "tr 50 M=ING_LM_COUNTER_CONTROL IS=min IE=min ";tr
50 M=ING_LM_COUNTER_CONTROL IS=min IE=min;echo 'done';
echo "there are 470 more memories to test.";echo "tr 50 M=ING_MOD_MAP_TABLE IS=min IE=min ";tr 50
M=ING_MOD_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 469 more memories to test.";echo "tr 50 M=ING_MPLS_EXP_MAPPING IS=min IE=min ";tr 50
M=ING_MPLS_EXP_MAPPING IS=min IE=min;echo 'done';
echo "there are 468 more memories to test.";echo "tr 50 M=ING_NETWORK_PRUNE_CONTROL IS=min
IE=min ";tr 50 M=ING_NETWORK_PRUNE_CONTROL IS=min IE=min;echo 'done';
echo "there are 467 more memories to test.";echo "tr 50 M=ING_OAM_LM_COUNTERS_0 IS=min IE=min ";tr 50
M=ING_OAM_LM_COUNTERS_0 IS=min IE=min;echo 'done';
echo "there are 466 more memories to test.";echo "tr 50 M=ING_OAM_LM_COUNTERS_1 IS=min IE=min ";tr 50
M=ING_OAM_LM_COUNTERS_1 IS=min IE=min;echo 'done';
echo "there are 465 more memories to test.";echo "tr 50 M=ING_OAM_LM_COUNTERS_2 IS=min IE=min ";tr 50
M=ING_OAM_LM_COUNTERS_2 IS=min IE=min;echo 'done';
echo "there are 464 more memories to test.";echo "tr 50 M=ING_PHYSICAL_PORT_TABLE IS=min IE=min ";tr
50 M=ING_PHYSICAL_PORT_TABLE IS=min IE=min;echo 'done';
echo "there are 463 more memories to test.";echo "tr 50 M=ING_PRI_CNG_MAP IS=min IE=min ";tr 50
M=ING_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 462 more memories to test.";echo "tr 50 M=ING_PW_TERM_SEQ_NUM IS=min IE=min ";tr 50
M=ING_PW_TERM_SEQ_NUM IS=min IE=min;echo 'done';
echo "there are 461 more memories to test.";echo "tr 50 M=ING_QUEUE_MAP IS=min IE=min ";tr 50
M=ING_QUEUE_MAP IS=min IE=min;echo 'done';
echo "there are 460 more memories to test.";echo "tr 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min
IE=min ";tr 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE IS=min IE=min;echo 'done';
echo "there are 459 more memories to test.";echo "tr 50 M=ING_SAT_SAMP_DATA IS=min IE=min ";tr 50
M=ING_SAT_SAMP_DATA IS=min IE=min;echo 'done';
echo "there are 458 more memories to test.";echo "tr 50 M=ING_SAT_SAMP_TCAM IS=min IE=min ";tr 50
```

```
M=ING_SAT_SAMP_TCAM IS=min IE=min;echo 'done';
echo "there are 457 more memories to test.";echo "tr 50 M=ING_SERVICE_PRI_MAP_0 IS=min IE=min ";tr 50
M=ING_SERVICE_PRI_MAP_0 IS=min IE=min;echo 'done';
echo "there are 456 more memories to test.";echo "tr 50 M=ING_SERVICE_PRI_MAP_1 IS=min IE=min ";tr 50
M=ING_SERVICE_PRI_MAP_1 IS=min IE=min;echo 'done';
echo "there are 455 more memories to test.";echo "tr 50 M=ING_SERVICE_PRI_MAP_2 IS=min IE=min ";tr 50
M=ING_SERVICE_PRI_MAP_2 IS=min IE=min;echo 'done';
#echo "there are 454 more memories to test.";echo "tr 50 M=ING_SER_FIFO IS=min IE=min ";tr 50
M=ING_SER_FIFO IS=min IE=min;echo 'done';
echo "there are 453 more memories to test.";echo "tr 50 M=ING_SVM_PKT_PRI_MAP IS=min IE=min ";tr 50
M=ING_SVM_PKT_PRI_MAP IS=min IE=min;echo 'done';
echo "there are 452 more memories to test.";echo "tr 50 M=ING_SVM_PKT_RES_MAP IS=min IE=min ";tr 50
M=ING_SVM_PKT_RES_MAP IS=min IE=min;echo 'done';
echo "there are 451 more memories to test.";echo "tr 50 M=ING_SVM_PORT_MAP IS=min IE=min ";tr 50
M=ING_SVM_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 450 more memories to test.";echo "tr 50 M=ING_SVM_PRI_CNG_MAP IS=min IE=min ";tr 50
M=ING_SVM_PRI_CNG_MAP IS=min IE=min;echo 'done';
echo "there are 449 more memories to test.";echo "tr 50 M=ING_SVM_TOS_MAP IS=min IE=min ";tr 50
M=ING_SVM_TOS_MAP IS=min IE=min;echo 'done';
echo "there are 448 more memories to test.";echo "tr 50 M=ING_UNTAGGED_PHB IS=min IE=min ";tr 50
M=ING_UNTAGGED_PHB IS=min IE=min;echo 'done';
echo "there are 447 more memories to test.";echo "tr 50 M=ING_VLAN_RANGE IS=min IE=min ";tr 50
M=ING_VLAN_RANGE IS=min IE=min;echo 'done';
echo "there are 446 more memories to test.";echo "tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min
IE=min ";tr 50 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=min;echo 'done';
echo "there are 445 more memories to test.";echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=min ";tr 50
M=INITIAL_ING_L3_NEXT_HOP IS=min IE=min;echo 'done';
echo "there are 444 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP IS=min IE=min ";tr 50
M=INITIAL_L3_ECMP IS=min IE=min;echo 'done';
echo "there are 443 more memories to test.";echo "tr 50 M=INITIAL_L3_ECMP_GROUP IS=min IE=min ";tr 50
M=INITIAL_L3_ECMP_GROUP IS=min IE=min;echo 'done';
echo "there are 442 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE IS=min IE=min ";tr 50
M=INITIAL_PROT_NHI_TABLE IS=min IE=min;echo 'done';
echo "there are 441 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=min ";tr
50 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 440 more memories to test.";echo "tr 50 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min
IE=min ";tr 50 M=INITIAL_PROT_NHI_TABLE_1_DMA IS=min IE=min;echo 'done';
echo "there are 439 more memories to test.";echo "tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=min ";tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=min;echo 'done';
echo "there are 438 more memories to test.";echo "tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 437 more memories to test.";echo "tr 50 M=L2MC IS=min IE=min ";tr 50 M=L2MC IS=min
IE=min;echo 'done';
echo "there are 436 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_DATA IS=min IE=min ";tr 50
M=L2_BULK_MATCH_DATA IS=min IE=min;echo 'done';
echo "there are 435 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_MASK IS=min IE=min ";tr 50
M=L2_BULK_MATCH_MASK IS=min IE=min;echo 'done';
echo "there are 434 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_VLANS_PORT_A IS=min
```

```
IE=min ";tr 50 M=L2_BULK_MATCH_VLANS_PORT_A IS=min IE=min;echo 'done';
echo "there are 433 more memories to test.";echo "tr 50 M=L2_BULK_MATCH_VLANS_PORT_B IS=min
IE=min ";tr 50 M=L2_BULK_MATCH_VLANS_PORT_B IS=min IE=min;echo 'done';
echo "there are 432 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_DATA IS=min IE=min ";tr 50
M=L2_BULK_REPLACE_DATA IS=min IE=min;echo 'done';
echo "there are 431 more memories to test.";echo "tr 50 M=L2_BULK_REPLACE_MASK IS=min IE=min ";tr 50
M=L2_BULK_REPLACE_MASK IS=min IE=min;echo 'done';
echo "there are 430 more memories to test.";echo "tr 50 M=L2X IS=min IE=min ";tr 50 M=L2X IS=min
IE=min;echo 'done';
echo "there are 429 more memories to test.";echo "tr 50 M=L2_ENTRY_ONLY IS=min IE=min ";tr 50
M=L2_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 428 more memories to test.";echo "tr 50 M=L2_ENTRY_OVERFLOW IS=min IE=min ";tr 50
M=L2_ENTRY_OVERFLOW IS=min IE=min;echo 'done';
echo "there are 427 more memories to test.";echo "tr 50 M=L2_HITDA_ONLY IS=min IE=min ";tr 50
M=L2_HITDA_ONLY IS=min IE=min;echo 'done';
echo "there are 426 more memories to test.";echo "tr 50 M=L2_HITSA_ONLY IS=min IE=min ";tr 50
M=L2_HITSA_ONLY IS=min IE=min;echo 'done';
echo "there are 425 more memories to test.";echo "tr 50 M=L2_MOD_FIFO IS=min IE=min ";tr 50
M=L2_MOD_FIFO IS=min IE=min;echo 'done';
echo "there are 424 more memories to test.";echo "tr 50 M=L2_USER_ENTRY IS=min IE=min ";tr 50
M=L2_USER_ENTRY IS=min IE=min;echo 'done';
echo "there are 423 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=min ";tr
50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 422 more memories to test.";echo "tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=min ";tr 50
M=L2_USER_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 421 more memories to test.";echo "tr 50 M=L3_DEFIP IS=min IE=min ";tr 50 M=L3_DEFIP
IS=min IE=min;echo 'done';
echo "there are 420 more memories to test.";echo "tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 419 more memories to test.";echo "tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 418 more memories to test.";echo "tr 50 M=L3_DEFIP_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_ONLY IS=min IE=min;echo 'done';
echo "there are 417 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128 IS=min IE=min ";tr 50
M=L3_DEFIP_PAIR_128 IS=min IE=min;echo 'done';
echo "there are 416 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=min
";tr 50 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 415 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=min ";tr
50 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 414 more memories to test.";echo "tr 50 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=min ";tr 50
M=L3_DEFIP_PAIR_128_ONLY IS=min IE=min;echo 'done';
echo "there are 413 more memories to test.";echo "tr 50 M=L3_ECMP IS=min IE=min ";tr 50 M=L3_ECMP
IS=min IE=min;echo 'done';
echo "there are 412 more memories to test.";echo "tr 50 M=L3_ECMP_COUNT IS=min IE=min ";tr 50
M=L3_ECMP_COUNT IS=min IE=min;echo 'done';
echo "there are 411 more memories to test.";echo "tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=min ";tr 50
M=L3_ENTRY_HIT_ONLY IS=min IE=min;echo 'done';
echo "there are 410 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=min ";tr
```

```
50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=min;echo 'done';
echo "there are 409 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=min ";tr 50
M=L3_ENTRY_IPV4_UNICAST IS=min IE=min;echo 'done';
echo "there are 408 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=min ";tr
50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=min;echo 'done';
echo "there are 407 more memories to test.";echo "tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=min ";tr 50
M=L3_ENTRY_IPV6_UNICAST IS=min IE=min;echo 'done';
echo "there are 406 more memories to test.";echo "tr 50 M=L3_ENTRY_ONLY IS=min IE=min ";tr 50
M=L3_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 405 more memories to test.";echo "tr 50 M=L3_IIF IS=min IE=min ";tr 50 M=L3_IIF IS=min
IE=min;echo 'done';
echo "there are 404 more memories to test.";echo "tr 50 M=L3_IPMC IS=min IE=min ";tr 50 M=L3_IPMC IS=min
IE=min;echo 'done';
echo "there are 403 more memories to test.";echo "tr 50 M=L3_IPMC_1 IS=min IE=min ";tr 50 M=L3_IPMC_1
IS=min IE=min;echo 'done';
echo "there are 402 more memories to test.";echo "tr 50 M=L3_IPMC_REMAP IS=min IE=min ";tr 50
M=L3_IPMC_REMAP IS=min IE=min;echo 'done';
echo "there are 401 more memories to test.";echo "tr 50 M=L3_MTU_VALUES IS=min IE=min ";tr 50
M=L3_MTU_VALUES IS=min IE=min;echo 'done';
echo "there are 400 more memories to test.";echo "tr 50 M=L3_TUNNEL IS=min IE=min ";tr 50 M=L3_TUNNEL
IS=min IE=min;echo 'done';
echo "there are 399 more memories to test.";echo "tr 50 M=L3_TUNNEL_DATA_ONLY IS=min IE=min ";tr 50
M=L3_TUNNEL_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 398 more memories to test.";echo "tr 50 M=L3_TUNNEL_ONLY IS=min IE=min ";tr 50
M=L3_TUNNEL_ONLY IS=min IE=min;echo 'done';
echo "there are 397 more memories to test.";echo "tr 50 M=LLS_L0_CHILD_STATE1 IS=min IE=min ";tr 50
M=LLS_L0_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 396 more memories to test.";echo "tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min
IE=min ";tr 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT IS=min IE=min;echo 'done';
echo "there are 395 more memories to test.";echo "tr 50 M=LLS_L0_CONFIG IS=min IE=min ";tr 50
M=LLS_L0_CONFIG IS=min IE=min;echo 'done';
echo "there are 394 more memories to test.";echo "tr 50 M=LLS_L0_EF_NEXT IS=min IE=min ";tr 50
M=LLS_L0_EF_NEXT IS=min IE=min;echo 'done';
echo "there are 393 more memories to test.";echo "tr 50 M=LLS_L0_ERROR IS=min IE=min ";tr 50
M=LLS_L0_ERROR IS=min IE=min;echo 'done';
echo "there are 392 more memories to test.";echo "tr 50 M=LLS_L0_HEADS_TAILS IS=min IE=min ";tr 50
M=LLS_L0_HEADS_TAILS IS=min IE=min;echo 'done';
#echo "there are 391 more memories to test.";echo "tr 50 M=LLS_L0_MIN_BUCKET_C IS=min IE=min ";tr 50
M=LLS_L0_MIN_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 390 more memories to test.";echo "tr 50 M=LLS_L0_MIN_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L0_MIN_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 389 more memories to test.";echo "tr 50 M=LLS_L0_MIN_NEXT IS=min IE=min ";tr 50
M=LLS_L0_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 388 more memories to test.";echo "tr 50 M=LLS_L0_PARENT IS=min IE=min ";tr 50
M=LLS_L0_PARENT IS=min IE=min;echo 'done';
echo "there are 387 more memories to test.";echo "tr 50 M=LLS_L0_PARENT_STATE IS=min IE=min ";tr 50
M=LLS_L0_PARENT_STATE IS=min IE=min;echo 'done';
#echo "there are 386 more memories to test.";echo "tr 50 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=min ";tr
```

```
50 M=LLS_L0_SHAPER_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 385 more memories to test.";echo "tr 50 M=LLS_L0_SHAPER_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L0_SHAPER_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 384 more memories to test.";echo "tr 50 M=LLS_L0_WERR_MAX_SC IS=min IE=min ";tr 50
M=LLS_L0_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 383 more memories to test.";echo "tr 50 M=LLS_L0_WERR_NEXT IS=min IE=min ";tr 50
M=LLS_L0_WERR_NEXT IS=min IE=min;echo 'done';
#echo "there are 382 more memories to test.";echo "tr 50 M=LLS_L0_XOFF IS=min IE=min ";tr 50
M=LLS_L0_XOFF IS=min IE=min;echo 'done';
echo "there are 381 more memories to test.";echo "tr 50 M=LLS_L1_CHILD_STATE1 IS=min IE=min ";tr 50
M=LLS_L1_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 380 more memories to test.";echo "tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min
IE=min ";tr 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT IS=min IE=min;echo 'done';
echo "there are 379 more memories to test.";echo "tr 50 M=LLS_L1_CONFIG IS=min IE=min ";tr 50
M=LLS_L1_CONFIG IS=min IE=min;echo 'done';
echo "there are 378 more memories to test.";echo "tr 50 M=LLS_L1_EF_NEXT IS=min IE=min ";tr 50
M=LLS_L1_EF_NEXT IS=min IE=min;echo 'done';
echo "there are 377 more memories to test.";echo "tr 50 M=LLS_L1_ERROR IS=min IE=min ";tr 50
M=LLS_L1_ERROR IS=min IE=min;echo 'done';
echo "there are 376 more memories to test.";echo "tr 50 M=LLS_L1_HEADS_TAILS IS=min IE=min ";tr 50
M=LLS_L1_HEADS_TAILS IS=min IE=min;echo 'done';
#echo "there are 375 more memories to test.";echo "tr 50 M=LLS_L1_MIN_BUCKET_C IS=min IE=min ";tr 50
M=LLS_L1_MIN_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 374 more memories to test.";echo "tr 50 M=LLS_L1_MIN_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L1_MIN_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 373 more memories to test.";echo "tr 50 M=LLS_L1_MIN_NEXT IS=min IE=min ";tr 50
M=LLS_L1_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 372 more memories to test.";echo "tr 50 M=LLS_L1_PARENT IS=min IE=min ";tr 50
M=LLS_L1_PARENT IS=min IE=min;echo 'done';
echo "there are 371 more memories to test.";echo "tr 50 M=LLS_L1_PARENT_STATE IS=min IE=min ";tr 50
M=LLS_L1_PARENT_STATE IS=min IE=min;echo 'done';
#echo "there are 370 more memories to test.";echo "tr 50 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=min ";tr
50 M=LLS_L1_SHAPER_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 369 more memories to test.";echo "tr 50 M=LLS_L1_SHAPER_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L1_SHAPER_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 368 more memories to test.";echo "tr 50 M=LLS_L1_WERR_MAX_SC IS=min IE=min ";tr 50
M=LLS_L1_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 367 more memories to test.";echo "tr 50 M=LLS_L1_WERR_NEXT IS=min IE=min ";tr 50
M=LLS_L1_WERR_NEXT IS=min IE=min;echo 'done';
#echo "there are 366 more memories to test.";echo "tr 50 M=LLS_L1_XOFF IS=min IE=min ";tr 50
M=LLS_L1_XOFF IS=min IE=min;echo 'done';
echo "there are 365 more memories to test.";echo "tr 50 M=LLS_L2_CHILD_STATE1 IS=min IE=min ";tr 50
M=LLS_L2_CHILD_STATE1 IS=min IE=min;echo 'done';
echo "there are 364 more memories to test.";echo "tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min
IE=min ";tr 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT IS=min IE=min;echo 'done';
echo "there are 363 more memories to test.";echo "tr 50 M=LLS_L2_EMPTY_STATE IS=min IE=min ";tr 50
M=LLS_L2_EMPTY_STATE IS=min IE=min;echo 'done';
echo "there are 362 more memories to test.";echo "tr 50 M=LLS_L2_ERROR IS=min IE=min ";tr 50
```

```
M=LLS_L2_ERROR IS=min IE=min;echo 'done';
#echo "there are 361 more memories to test.";echo "tr 50 M=LLS_L2_MIN_BUCKET_C IS=min IE=min ";tr 50
M=LLS_L2_MIN_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 360 more memories to test.";echo "tr 50 M=LLS_L2_MIN_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L2_MIN_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 359 more memories to test.";echo "tr 50 M=LLS_L2_MIN_NEXT IS=min IE=min ";tr 50
M=LLS_L2_MIN_NEXT IS=min IE=min;echo 'done';
echo "there are 358 more memories to test.";echo "tr 50 M=LLS_L2_PARENT IS=min IE=min ";tr 50
M=LLS_L2_PARENT IS=min IE=min;echo 'done';
#echo "there are 357 more memories to test.";echo "tr 50 M=LLS_L2_SHAPER_BUCKET IS=min IE=min ";tr 50
M=LLS_L2_SHAPER_BUCKET IS=min IE=min;echo 'done';
echo "there are 356 more memories to test.";echo "tr 50 M=LLS_L2_SHAPER_CONFIG_C IS=min IE=min ";tr 50
M=LLS_L2_SHAPER_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 355 more memories to test.";echo "tr 50 M=LLS_L2_WERR_NEXT IS=min IE=min ";tr 50
M=LLS_L2_WERR_NEXT IS=min IE=min;echo 'done';
#echo "there are 354 more memories to test.";echo "tr 50 M=LLS_L2_XOFF IS=min IE=min ";tr 50
M=LLS_L2_XOFF IS=min IE=min;echo 'done';
echo "there are 353 more memories to test.";echo "tr 50 M=LLS_PORT_CONFIG IS=min IE=min ";tr 50
M=LLS_PORT_CONFIG IS=min IE=min;echo 'done';
echo "there are 352 more memories to test.";echo "tr 50 M=LLS_PORT_ERROR IS=min IE=min ";tr 50
M=LLS_PORT_ERROR IS=min IE=min;echo 'done';
echo "there are 351 more memories to test.";echo "tr 50 M=LLS_PORT_HEADS IS=min IE=min ";tr 50
M=LLS_PORT_HEADS IS=min IE=min;echo 'done';
echo "there are 350 more memories to test.";echo "tr 50 M=LLS_PORT_PARENT_STATE IS=min IE=min ";tr 50
M=LLS_PORT_PARENT_STATE IS=min IE=min;echo 'done';
#echo "there are 349 more memories to test.";echo "tr 50 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=min
";tr 50 M=LLS_PORT_SHAPER_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 348 more memories to test.";echo "tr 50 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=min ";tr
50 M=LLS_PORT_SHAPER_CONFIG_C IS=min IE=min;echo 'done';
#echo "there are 347 more memories to test.";echo "tr 50 M=LLS_PORT_TAILS IS=min IE=min ";tr 50
M=LLS_PORT_TAILS IS=min IE=min;echo 'done';
echo "there are 346 more memories to test.";echo "tr 50 M=LLS_PORT_TDM IS=min IE=min ";tr 50
M=LLS_PORT_TDM IS=min IE=min;echo 'done';
echo "there are 345 more memories to test.";echo "tr 50 M=LLS_PORT_WERR_MAX_SC IS=min IE=min ";tr 50
M=LLS_PORT_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 344 more memories to test.";echo "tr 50 M=LLS_PORT_XOFF IS=min IE=min ";tr 50
M=LLS_PORT_XOFF IS=min IE=min;echo 'done';
echo "there are 343 more memories to test.";echo "tr 50 M=LLS_S1_CONFIG IS=min IE=min ";tr 50
M=LLS_S1_CONFIG IS=min IE=min;echo 'done';
echo "there are 342 more memories to test.";echo "tr 50 M=LLS_S1_ERROR IS=min IE=min ";tr 50
M=LLS_S1_ERROR IS=min IE=min;echo 'done';
echo "there are 341 more memories to test.";echo "tr 50 M=LLS_S1_HEADS IS=min IE=min ";tr 50
M=LLS_S1_HEADS IS=min IE=min;echo 'done';
echo "there are 340 more memories to test.";echo "tr 50 M=LLS_S1_PARENT_STATE IS=min IE=min ";tr 50
M=LLS_S1_PARENT_STATE IS=min IE=min;echo 'done';
#echo "there are 339 more memories to test.";echo "tr 50 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=min ";tr
50 M=LLS_S1_SHAPER_BUCKET_C IS=min IE=min;echo 'done';
echo "there are 338 more memories to test.";echo "tr 50 M=LLS_S1_SHAPER_CONFIG_C IS=min IE=min ";tr 50
```

```
M=LLS_S1_SHAPER_CONFIG_C IS=min IE=min;echo 'done';
echo "there are 337 more memories to test.";echo "tr 50 M=LLS_S1_TAILS IS=min IE=min ";tr 50
M=LLS_S1_TAILS IS=min IE=min;echo 'done';
echo "there are 336 more memories to test.";echo "tr 50 M=LLS_S1_WERR_MAX_SC IS=min IE=min ";tr 50
M=LLS_S1_WERR_MAX_SC IS=min IE=min;echo 'done';
echo "there are 335 more memories to test.";echo "tr 50 M=LMEP IS=min IE=min ";tr 50 M=LMEP IS=min
IE=min;echo 'done';
echo "there are 334 more memories to test.";echo "tr 50 M=LMEP_1 IS=min IE=min ";tr 50 M=LMEP_1 IS=min
IE=min;echo 'done';
echo "there are 333 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=min ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=min;echo 'done';
echo "there are 332 more memories to test.";echo "tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=min ";tr 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=min;echo 'done';
echo "there are 331 more memories to test.";echo "tr 50 M=LPORT_TAB IS=min IE=min ";tr 50 M=LPORT_TAB
IS=min IE=min;echo 'done';
echo "there are 330 more memories to test.";echo "tr 50 M=MAC_BLOCK IS=min IE=min ";tr 50
M=MAC_BLOCK IS=min IE=min;echo 'done';
echo "there are 329 more memories to test.";echo "tr 50 M=MAID_REDUCTION IS=min IE=min ";tr 50
M=MAID_REDUCTION IS=min IE=min;echo 'done';
echo "there are 328 more memories to test.";echo "tr 50 M=MA_INDEX IS=min IE=min ";tr 50 M=MA_INDEX
IS=min IE=min;echo 'done';
echo "there are 327 more memories to test.";echo "tr 50 M=MA_STATE IS=min IE=min ";tr 50 M=MA_STATE
IS=min IE=min;echo 'done';
echo "there are 326 more memories to test.";echo "tr 50 M=MIRROR_CONTROL IS=min IE=min ";tr 50
M=MIRROR_CONTROL IS=min IE=min;echo 'done';
echo "there are 325 more memories to test.";echo "tr 50 M=MMU_AGING_CTR_INT IS=min IE=min ";tr 50
M=MMU_AGING_CTR_INT IS=min IE=min;echo 'done';
echo "there are 324 more memories to test.";echo "tr 50 M=MMU_AGING_EXP_INT IS=min IE=min ";tr 50
M=MMU_AGING_EXP_INT IS=min IE=min;echo 'done';
echo "there are 323 more memories to test.";echo "tr 50 M=MMU_AGING_LMT_INT IS=min IE=min ";tr 50
M=MMU_AGING_LMT_INT IS=min IE=min;echo 'done';
echo "there are 322 more memories to test.";echo "tr 50 M=MMU_CBPI_0 IS=min IE=min ";tr 50
M=MMU_CBPI_0 IS=min IE=min;echo 'done';
echo "there are 321 more memories to test.";echo "tr 50 M=MMU_CBPI_1 IS=min IE=min ";tr 50
M=MMU_CBPI_1 IS=min IE=min;echo 'done';
echo "there are 320 more memories to test.";echo "tr 50 M=MMU_CBPI_10 IS=min IE=min ";tr 50
M=MMU_CBPI_10 IS=min IE=min;echo 'done';
echo "there are 319 more memories to test.";echo "tr 50 M=MMU_CBPI_11 IS=min IE=min ";tr 50
M=MMU_CBPI_11 IS=min IE=min;echo 'done';
echo "there are 318 more memories to test.";echo "tr 50 M=MMU_CBPI_2 IS=min IE=min ";tr 50
M=MMU_CBPI_2 IS=min IE=min;echo 'done';
echo "there are 317 more memories to test.";echo "tr 50 M=MMU_CBPI_3 IS=min IE=min ";tr 50
M=MMU_CBPI_3 IS=min IE=min;echo 'done';
echo "there are 316 more memories to test.";echo "tr 50 M=MMU_CBPI_4 IS=min IE=min ";tr 50
M=MMU_CBPI_4 IS=min IE=min;echo 'done';
echo "there are 315 more memories to test.";echo "tr 50 M=MMU_CBPI_5 IS=min IE=min ";tr 50
M=MMU_CBPI_5 IS=min IE=min;echo 'done';
echo "there are 314 more memories to test.";echo "tr 50 M=MMU_CBPI_6 IS=min IE=min ";tr 50
```

```
M=MMU_CBPI_6 IS=min IE=min;echo 'done';
echo "there are 313 more memories to test.";echo "tr 50 M=MMU_CBPI_7 IS=min IE=min ";tr 50
M=MMU_CBPI_7 IS=min IE=min;echo 'done';
echo "there are 312 more memories to test.";echo "tr 50 M=MMU_CBPI_8 IS=min IE=min ";tr 50
M=MMU_CBPI_8 IS=min IE=min;echo 'done';
echo "there are 311 more memories to test.";echo "tr 50 M=MMU_CBPI_9 IS=min IE=min ";tr 50
M=MMU_CBPI_9 IS=min IE=min;echo 'done';
echo "there are 310 more memories to test.";echo "tr 50 M=MMU_CCPI_MEM IS=min IE=min ";tr 50
M=MMU_CCPI_MEM IS=min IE=min;echo 'done';
echo "there are 309 more memories to test.";echo "tr 50 M=MMU_CELLLINKI IS=min IE=min ";tr 50
M=MMU_CELLLINKI IS=min IE=min;echo 'done';
echo "there are 308 more memories to test.";echo "tr 50 M=MMU_CFAPI_BITMAP IS=min IE=min ";tr 50
M=MMU_CFAPI_BITMAP IS=min IE=min;echo 'done';
echo "there are 307 more memories to test.";echo "tr 50 M=MMU_CFAPI_STACK IS=min IE=min ";tr 50
M=MMU_CFAPI_STACK IS=min IE=min;echo 'done';
echo "there are 306 more memories to test.";echo "tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=min
";tr 50 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=min;echo 'done';
echo "there are 305 more memories to test.";echo "tr 50
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=min ";tr 50
M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM IS=min IE=min;echo 'done';
#echo "there are 304 more memories to test.";echo "tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min
IE=min ";tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_0 IS=min IE=min;echo 'done';
#echo "there are 303 more memories to test.";echo "tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min
IE=min ";tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_1 IS=min IE=min;echo 'done';
echo "there are 302 more memories to test.";echo "tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min
IE=min ";tr 50 M=MMU_ENQ_CBP_32B_WR_STORE_2 IS=min IE=min;echo 'done';
echo "there are 301 more memories to test.";echo "tr 50 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min
IE=min ";tr 50 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE IS=min IE=min;echo 'done';
echo "there are 300 more memories to test.";echo "tr 50 M=MMU_ENQ_FAP_BITMAP IS=min IE=min ";tr 50
M=MMU_ENQ_FAP_BITMAP IS=min IE=min;echo 'done';
echo "there are 299 more memories to test.";echo "tr 50 M=MMU_ENQ_FAP_STACK IS=min IE=min ";tr 50
M=MMU_ENQ_FAP_STACK IS=min IE=min;echo 'done';
#echo "there are 298 more memories to test.";echo "tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min
IE=min ";tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_0 IS=min IE=min;echo 'done';
#echo "there are 297 more memories to test.";echo "tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min
IE=min ";tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_1 IS=min IE=min;echo 'done';
echo "there are 296 more memories to test.";echo "tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min
IE=min ";tr 50 M=MMU_ENQ_RQE_WR_COMPLETE_2 IS=min IE=min;echo 'done';
echo "there are 295 more memories to test.";echo "tr 50 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=min
";tr 50 M=MMU_ENQ_SRC_PORT_STATE_0 IS=min IE=min;echo 'done';
echo "there are 294 more memories to test.";echo "tr 50 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min
IE=min ";tr 50 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP IS=min IE=min;echo 'done';
echo "there are 293 more memories to test.";echo "tr 50 M=MMU_EXT_MC_GROUP_MAP IS=min IE=min ";tr
50 M=MMU_EXT_MC_GROUP_MAP IS=min IE=min;echo 'done';
echo "there are 292 more memories to test.";echo "tr 50 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=min ";tr
50 M=MMU_EXT_MC_QUEUE_LIST0 IS=min IE=min;echo 'done';
echo "there are 291 more memories to test.";echo "tr 50 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=min ";tr
50 M=MMU_EXT_MC_QUEUE_LIST4 IS=min IE=min;echo 'done';
```

```
echo "there are 290 more memories to test.";echo "tr 50 M=MMU_INITIAL_NHOP_TBL IS=min IE=min ";tr 50
M=MMU_INITIAL_NHOP_TBL IS=min IE=min;echo 'done';
echo "there are 289 more memories to test.";echo "tr 50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=min ";tr
50 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=min;echo 'done';
echo "there are 288 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_MAP_TBL0 IS=min IE=min;echo 'done';
echo "there are 287 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_MAP_TBL1 IS=min IE=min;echo 'done';
echo "there are 286 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_MAP_TBL2 IS=min IE=min;echo 'done';
echo "there are 285 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL0 IS=min IE=min;echo 'done';
echo "there are 284 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL1 IS=min IE=min;echo 'done';
echo "there are 283 more memories to test.";echo "tr 50 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=min ";tr 50
M=MMU_INTFI_FC_ST_TBL2 IS=min IE=min;echo 'done';
echo "there are 282 more memories to test.";echo "tr 50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=min ";tr
50 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=min;echo 'done';
echo "there are 281 more memories to test.";echo "tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=min
";tr 50 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=min;echo 'done';
#echo "there are 280 more memories to test.";echo "tr 50 M=MMU_INTFI_PFC_ST_TBL IS=min IE=min ";tr 50
M=MMU_INTFI_PFC_ST_TBL IS=min IE=min;echo 'done';
echo "there are 279 more memories to test.";echo "tr 50 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=min ";tr 50
M=MMU_INTFI_ST_TRANS_TBL IS=min IE=min;echo 'done';
echo "there are 278 more memories to test.";echo "tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=min
";tr 50 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=min;echo 'done';
echo "there are 277 more memories to test.";echo "tr 50 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=min
";tr 50 M=MMU_IPCTR_CTXT_COUNTER_0 IS=min IE=min;echo 'done';
echo "there are 276 more memories to test.";echo "tr 50 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=min ";tr
50 M=MMU_IPCTR_PG_COUNTER_0 IS=min IE=min;echo 'done';
#echo "there are 275 more memories to test.";echo "tr 50 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=min ";tr
50 M=MMU_IPCTR_PG_COUNTER_1 IS=min IE=min;echo 'done';
echo "there are 274 more memories to test.";echo "tr 50 M=MMU_IPMC_GROUP_TBL IS=min IE=min ";tr 50
M=MMU_IPMC_GROUP_TBL IS=min IE=min;echo 'done';
echo "there are 273 more memories to test.";echo "tr 50 M=MMU_PROT_GROUP_TABLE IS=min IE=min ";tr 50
M=MMU_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 272 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=min
";tr 50 M=MMU_QSTRUCT_QBLOCK_BM_0 IS=min IE=min;echo 'done';
echo "there are 271 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=min
";tr 50 M=MMU_QSTRUCT_QBLOCK_BM_1 IS=min IE=min;echo 'done';
echo "there are 270 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min
IE=min ";tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 IS=min IE=min;echo 'done';
echo "there are 269 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min
IE=min ";tr 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 IS=min IE=min;echo 'done';
echo "there are 268 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=min
";tr 50 M=MMU_QSTRUCT_QBLOCK_NEXT IS=min IE=min;echo 'done';
echo "there are 267 more memories to test.";echo "tr 50 M=MMU_QSTRUCT_QENTRY IS=min IE=min ";tr 50
M=MMU_QSTRUCT_QENTRY IS=min IE=min;echo 'done';
```

```
echo "there are 266 more memories to test.";echo "tr 50 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min
IE=min ";tr 50 M=MMU_RDE_ADM_DPC_STORE_MEM IS=min IE=min;echo 'done';
echo "there are 265 more memories to test.";echo "tr 50 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min
IE=min ";tr 50 M=MMU_RDE_REAL_CELL_FIFO_MEM IS=min IE=min;echo 'done';
echo "there are 264 more memories to test.";echo "tr 50 M=MMU_RDE_TXQ_FLL IS=min IE=min ";tr 50
M=MMU_RDE_TXQ_FLL IS=min IE=min;echo 'done';
echo "there are 263 more memories to test.";echo "tr 50 M=MMU_RDE_TXQ_QLL IS=min IE=min ";tr 50
M=MMU_RDE_TXQ_QLL IS=min IE=min;echo 'done';
echo "there are 262 more memories to test.";echo "tr 50 M=MMU_RDE_TXQ_STATE IS=min IE=min ";tr 50
M=MMU_RDE_TXQ_STATE IS=min IE=min;echo 'done';
echo "there are 261 more memories to test.";echo "tr 50 M=MMU_REPL_GRP_TBL IS=min IE=min ";tr 50
M=MMU_REPL_GRP_TBL IS=min IE=min;echo 'done';
echo "there are 260 more memories to test.";echo "tr 50 M=MMU_REPL_HEAD_TBL IS=min IE=min ";tr 50
M=MMU_REPL_HEAD_TBL IS=min IE=min;echo 'done';
echo "there are 259 more memories to test.";echo "tr 50 M=MMU_REPL_LIST_TBL IS=min IE=min ";tr 50
M=MMU_REPL_LIST_TBL IS=min IE=min;echo 'done';
echo "there are 258 more memories to test.";echo "tr 50 M=MMU_REPL_MAP_TBL IS=min IE=min ";tr 50
M=MMU_REPL_MAP_TBL IS=min IE=min;echo 'done';
echo "there are 257 more memories to test.";echo "tr 50 M=MMU_REPL_STATE_TBL IS=min IE=min ";tr 50
M=MMU_REPL_STATE_TBL IS=min IE=min;echo 'done';
echo "there are 256 more memories to test.";echo "tr 50 M=MMU_RPFAP_BITMAP IS=min IE=min ";tr 50
M=MMU_RPFAP_BITMAP IS=min IE=min;echo 'done';
echo "there are 255 more memories to test.";echo "tr 50 M=MMU_RPFAP_STACK IS=min IE=min ";tr 50
M=MMU_RPFAP_STACK IS=min IE=min;echo 'done';
echo "there are 254 more memories to test.";echo "tr 50 M=MMU_RQE_QMGR_FLL IS=min IE=min ";tr 50
M=MMU_RQE_QMGR_FLL IS=min IE=min;echo 'done';
echo "there are 253 more memories to test.";echo "tr 50 M=MMU_RQE_QMGR_QLL IS=min IE=min ";tr 50
M=MMU_RQE_QMGR_QLL IS=min IE=min;echo 'done';
echo "there are 252 more memories to test.";echo "tr 50 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min
IE=min ";tr 50 M=MMU_RQE_QUEUE_OP_NODE_MAP IS=min IE=min;echo 'done';
echo "there are 251 more memories to test.";echo "tr 50 M=MMU_RQE_WORK_QUEUE IS=min IE=min ";tr 50
M=MMU_RQE_WORK_QUEUE IS=min IE=min;echo 'done';
echo "there are 250 more memories to test.";echo "tr 50 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=min ";tr
50 M=MMU_THDO_CTRO_UC_DTYPE IS=min IE=min;echo 'done';
echo "there are 249 more memories to test.";echo "tr 50 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min
IE=min ";tr 50 M=MMU_THDO_CTRO_UC_PKT_STORE IS=min IE=min;echo 'done';
echo "there are 248 more memories to test.";echo "tr 50 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=min
";tr 50 M=MMU_THDO_OPNCONFIG_CELL IS=min IE=min;echo 'done';
echo "there are 247 more memories to test.";echo "tr 50 M=MMU_THDO_OPNCONFIG_QENTRY IS=min
IE=min ";tr 50 M=MMU_THDO_OPNCONFIG_QENTRY IS=min IE=min;echo 'done';
echo "there are 246 more memories to test.";echo "tr 50 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=min
";tr 50 M=MMU_THDO_OPNCOUNT_CELL IS=min IE=min;echo 'done';
echo "there are 245 more memories to test.";echo "tr 50 M=THDO_OPNCOUNT_QENTRY IS=min IE=min ";tr 50
M=THDO_OPNCOUNT_QENTRY IS=min IE=min;echo 'done';
echo "there are 244 more memories to test.";echo "tr 50 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=min
";tr 50 M=MMU_THDO_OPNOFFSET_CELL IS=min IE=min;echo 'done';
echo "there are 243 more memories to test.";echo "tr 50 M=MMU_THDO_OPNOFFSET_QENTRY IS=min
IE=min ";tr 50 M=MMU_THDO_OPNOFFSET_QENTRY IS=min IE=min;echo 'done';
```

```
echo "there are 242 more memories to test.";echo "tr 50 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=min
";tr 50 M=MMU_THDO_OPNSTATUS_CELL IS=min IE=min;echo 'done';
echo "there are 241 more memories to test.";echo "tr 50 M=MMU_THDO_OPNSTATUS_QENTRY IS=min
IE=min ";tr 50 M=MMU_THDO_OPNSTATUS_QENTRY IS=min IE=min;echo 'done';
echo "there are 240 more memories to test.";echo "tr 50 M=MMU_THDO_QCONFIG_CELL IS=min IE=min ";tr
50 M=MMU_THDO_QCONFIG_CELL IS=min IE=min;echo 'done';
echo "there are 239 more memories to test.";echo "tr 50 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=min
";tr 50 M=MMU_THDO_QCONFIG_QENTRY IS=min IE=min;echo 'done';
echo "there are 238 more memories to test.";echo "tr 50 M=MMU_THDO_QCOUNT_CELL IS=min IE=min ";tr 50
M=MMU_THDO_QCOUNT_CELL IS=min IE=min;echo 'done';
echo "there are 237 more memories to test.";echo "tr 50 M=THDO_QCOUNT_QENTRY IS=min IE=min ";tr 50
M=THDO_QCOUNT_QENTRY IS=min IE=min;echo 'done';
echo "there are 236 more memories to test.";echo "tr 50 M=MMU_THDO_QOFFSET_CELL IS=min IE=min ";tr
50 M=MMU_THDO_QOFFSET_CELL IS=min IE=min;echo 'done';
echo "there are 235 more memories to test.";echo "tr 50 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=min
";tr 50 M=MMU_THDO_QOFFSET_QENTRY IS=min IE=min;echo 'done';
echo "there are 234 more memories to test.";echo "tr 50 M=MMU_THDO_QRESET_VALUE_CELL IS=min
IE=min ";tr 50 M=MMU_THDO_QRESET_VALUE_CELL IS=min IE=min;echo 'done';
echo "there are 233 more memories to test.";echo "tr 50 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min
IE=min ";tr 50 M=MMU_THDO_QRESET_VALUE_QENTRY IS=min IE=min;echo 'done';
echo "there are 232 more memories to test.";echo "tr 50 M=MMU_THDO_QSTATUS_CELL IS=min IE=min ";tr
50 M=MMU_THDO_QSTATUS_CELL IS=min IE=min;echo 'done';
echo "there are 231 more memories to test.";echo "tr 50 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=min
";tr 50 M=MMU_THDO_QSTATUS_QENTRY IS=min IE=min;echo 'done';
echo "there are 230 more memories to test.";echo "tr 50 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=min ";tr
50 M=MMU_TOQ_PORT_STATE_MEM IS=min IE=min;echo 'done';
echo "there are 229 more memories to test.";echo "tr 50 M=MMU_TOQ_STATE_MEM0 IS=min IE=min ";tr 50
M=MMU_TOQ_STATE_MEM0 IS=min IE=min;echo 'done';
echo "there are 228 more memories to test.";echo "tr 50 M=MMU_TOQ_STATE_MEM1 IS=min IE=min ";tr 50
M=MMU_TOQ_STATE_MEM1 IS=min IE=min;echo 'done';
echo "there are 227 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_0 IS=min IE=min;echo 'done';
echo "there are 226 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_1 IS=min IE=min;echo 'done';
echo "there are 225 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_2 IS=min IE=min;echo 'done';
echo "there are 224 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_3 IS=min IE=min;echo 'done';
echo "there are 223 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_4 IS=min IE=min;echo 'done';
echo "there are 222 more memories to test.";echo "tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min
IE=min ";tr 50 M=MMU_WRED_DROP_CURVE_PROFILE_5 IS=min IE=min;echo 'done';
#echo "there are 221 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_AVG_QSIZE_BUFFER IS=min IE=min;echo 'done';
#echo "there are 220 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_AVG_QSIZE_QENTRY IS=min IE=min;echo 'done';
echo "there are 219 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_CONFIG_BUFFER IS=min IE=min;echo 'done';
```

```
echo "there are 218 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_CONFIG_QENTRY IS=min IE=min;echo 'done';
echo "there are 217 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_DROP_THD_DEQ IS=min IE=min;echo 'done';
echo "there are 216 more memories to test.";echo "tr 50 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min
IE=min ";tr 50 M=MMU_WRED_OPN_DROP_THD_ENQ IS=min IE=min;echo 'done';
#echo "there are 215 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER
IS=min IE=min ";tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_BUFFER IS=min IE=min;echo 'done';
#echo "there are 214 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY
IS=min IE=min ";tr 50 M=MMU_WRED_QUEUE_AVG_QSIZE_QENTRY IS=min IE=min;echo 'done';
echo "there are 213 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min
IE=min ";tr 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER IS=min IE=min;echo 'done';
echo "there are 212 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min
IE=min ";tr 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY IS=min IE=min;echo 'done';
echo "there are 211 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min
IE=min ";tr 50 M=MMU_WRED_QUEUE_DROP_THD_DEQ IS=min IE=min;echo 'done';
echo "there are 210 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min
IE=min ";tr 50 M=MMU_WRED_QUEUE_DROP_THD_ENQ IS=min IE=min;echo 'done';
echo "there are 209 more memories to test.";echo "tr 50 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min
IE=min ";tr 50 M=MMU_WRED_QUEUE_OP_NODE_MAP IS=min IE=min;echo 'done';
echo "there are 208 more memories to test.";echo "tr 50 M=MODPORT_MAP_M0 IS=min IE=min ";tr 50
M=MODPORT_MAP_M0 IS=min IE=min;echo 'done';
echo "there are 207 more memories to test.";echo "tr 50 M=MODPORT_MAP_M1 IS=min IE=min ";tr 50
M=MODPORT_MAP_M1 IS=min IE=min;echo 'done';
echo "there are 206 more memories to test.";echo "tr 50 M=MODPORT_MAP_M2 IS=min IE=min ";tr 50
M=MODPORT_MAP_M2 IS=min IE=min;echo 'done';
echo "there are 205 more memories to test.";echo "tr 50 M=MODPORT_MAP_M3 IS=min IE=min ";tr 50
M=MODPORT_MAP_M3 IS=min IE=min;echo 'done';
echo "there are 204 more memories to test.";echo "tr 50 M=MODPORT_MAP_MIRROR IS=min IE=min ";tr 50
M=MODPORT_MAP_MIRROR IS=min IE=min;echo 'done';
echo "there are 203 more memories to test.";echo "tr 50 M=MODPORT_MAP_SW IS=min IE=min ";tr 50
M=MODPORT_MAP_SW IS=min IE=min;echo 'done';
echo "there are 202 more memories to test.";echo "tr 50 M=MPLS_ENTRY IS=min IE=min ";tr 50
M=MPLS_ENTRY IS=min IE=min;echo 'done';
echo "there are 201 more memories to test.";echo "tr 50 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=min
";tr 50 M=MPLS_OAM_ACH_TYPE_CONFIG IS=min IE=min;echo 'done';
echo "there are 200 more memories to test.";echo "tr 50 M=MP_GROUP IS=min IE=min ";tr 50 M=MP_GROUP
IS=min IE=min;echo 'done';
echo "there are 199 more memories to test.";echo "tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=min
";tr 50 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=min;echo 'done';
echo "there are 198 more memories to test.";echo "tr 50 M=MY_STATION_TCAM IS=min IE=min ";tr 50
M=MY_STATION_TCAM IS=min IE=min;echo 'done';
echo "there are 197 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 196 more memories to test.";echo "tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min
IE=min ";tr 50 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=min;echo 'done';
echo "there are 195 more memories to test.";echo "tr 50 M=NHI_GROUP_TC_PROFILE IS=min IE=min ";tr 50
M=NHI_GROUP_TC_PROFILE IS=min IE=min;echo 'done';
```

```
echo "there are 194 more memories to test.";echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min
IE=min ";tr 50 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 193 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 IS=min IE=min;echo 'done';
echo "there are 192 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 IS=min IE=min;echo 'done';
echo "there are 191 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 IS=min IE=min;echo 'done';
echo "there are 190 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 IS=min IE=min;echo 'done';
echo "there are 189 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 IS=min IE=min;echo 'done';
echo "there are 188 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_3 IS=min IE=min;echo 'done';
echo "there are 187 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 IS=min IE=min;echo 'done';
echo "there are 186 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 IS=min IE=min;echo 'done';
echo "there are 185 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 IS=min IE=min;echo 'done';
echo "there are 184 more memories to test.";echo "tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min
IE=min ";tr 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 IS=min IE=min;echo 'done';
echo "there are 183 more memories to test.";echo "tr 50 M=OAMP_PE_0_PROG_TCAM IS=min IE=min ";tr 50
M=OAMP_PE_0_PROG_TCAM IS=min IE=min;echo 'done';
echo "there are 182 more memories to test.";echo "tr 50 M=OAMP_PE_1_PROG_TCAM IS=min IE=min ";tr 50
M=OAMP_PE_1_PROG_TCAM IS=min IE=min;echo 'done';
echo "there are 181 more memories to test.";echo "tr 50 M=OAMP_RX_OAM_ID_TCAM IS=min IE=min ";tr 50
M=OAMP_RX_OAM_ID_TCAM IS=min IE=min;echo 'done';
echo "there are 180 more memories to test.";echo "tr 50 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min
IE=min ";tr 50 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_1 IS=min IE=min;echo 'done';
echo "there are 179 more memories to test.";echo "tr 50 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min
IE=min ";tr 50 M=OAMP_SAT_TX_EVC_PARAMS_ENTRY_2 IS=min IE=min;echo 'done';
echo "there are 178 more memories to test.";echo "tr 50 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=min ";tr
50 M=OAMP_SAT_TX_GEN_PARAMS IS=min IE=min;echo 'done';
echo "there are 177 more memories to test.";echo "tr 50 M=OAM_DGLP_PROFILE IS=min IE=min ";tr 50
M=OAM_DGLP_PROFILE IS=min IE=min;echo 'done';
echo "there are 176 more memories to test.";echo "tr 50 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min
IE=min ";tr 50 M=OAM_FLEXIBLE_DOMAIN_CONTROL IS=min IE=min;echo 'done';
echo "there are 175 more memories to test.";echo "tr 50 M=OAM_OPCODE_CONTROL_PROFILE IS=min
IE=min ";tr 50 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=min;echo 'done';
echo "there are 174 more memories to test.";echo "tr 50 M=OAM_OPCODE_GROUP IS=min IE=min ";tr 50
M=OAM_OPCODE_GROUP IS=min IE=min;echo 'done';
echo "there are 173 more memories to test.";echo "tr 50 M=PHB2_COS_MAP IS=min IE=min ";tr 50
M=PHB2_COS_MAP IS=min IE=min;echo 'done';
echo "there are 172 more memories to test.";echo "tr 50 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=min
";tr 50 M=PHYSICAL_PORT_BASE_QUEUE IS=min IE=min;echo 'done';
echo "there are 171 more memories to test.";echo "tr 50 M=PORT_BRIDGE_BMAP IS=min IE=min ";tr 50
M=PORT_BRIDGE_BMAP IS=min IE=min;echo 'done';
```

```
echo "there are 170 more memories to test.";echo "tr 50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=min ";tr
50 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=min;echo 'done';
echo "there are 169 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE IS=min IE=min ";tr 50
M=PORT_CBL_TABLE IS=min IE=min;echo 'done';
echo "there are 168 more memories to test.";echo "tr 50 M=PORT_CBL_TABLE_MODBASE IS=min IE=min ";tr
50 M=PORT_CBL_TABLE_MODBASE IS=min IE=min;echo 'done';
echo "there are 167 more memories to test.";echo "tr 50 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=min
";tr 50 M=PORT_OR_TRUNK_MAC_COUNT IS=min IE=min;echo 'done';
echo "there are 166 more memories to test.";echo "tr 50 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=min ";tr
50 M=PORT_OR_TRUNK_MAC_LIMIT IS=min IE=min;echo 'done';
echo "there are 165 more memories to test.";echo "tr 50 M=PORT_TAB IS=min IE=min ";tr 50 M=PORT_TAB
IS=min IE=min;echo 'done';
echo "there are 164 more memories to test.";echo "tr 50 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=min
";tr 50 M=PP_PORT_GPP_TRANSLATION_1 IS=min IE=min;echo 'done';
echo "there are 163 more memories to test.";echo "tr 50 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=min
";tr 50 M=PP_PORT_GPP_TRANSLATION_2 IS=min IE=min;echo 'done';
echo "there are 162 more memories to test.";echo "tr 50 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=min
";tr 50 M=PP_PORT_GPP_TRANSLATION_3 IS=min IE=min;echo 'done';
echo "there are 161 more memories to test.";echo "tr 50 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=min
";tr 50 M=PP_PORT_GPP_TRANSLATION_4 IS=min IE=min;echo 'done';
echo "there are 160 more memories to test.";echo "tr 50 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min
IE=min ";tr 50 M=PP_PORT_TO_PHYSICAL_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 159 more memories to test.";echo "tr 50 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min
IE=min ";tr 50 M=PTP_LABEL_RANGE_PROFILE_TABLE IS=min IE=min;echo 'done';
echo "there are 158 more memories to test.";echo "tr 50 M=RMEP IS=min IE=min ";tr 50 M=RMEP IS=min
IE=min;echo 'done';
echo "there are 157 more memories to test.";echo "tr 50 M=RTAG7_FLOW_BASED_HASH IS=min IE=min ";tr
50 M=RTAG7_FLOW_BASED_HASH IS=min IE=min;echo 'done';
echo "there are 156 more memories to test.";echo "tr 50 M=RTAG7_PORT_BASED_HASH IS=min IE=min ";tr 50
M=RTAG7_PORT_BASED_HASH IS=min IE=min;echo 'done';
echo "there are 155 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER0 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER0 IS=min IE=min;echo 'done';
echo "there are 154 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER1 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER1 IS=min IE=min;echo 'done';
echo "there are 153 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER10 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER10 IS=min IE=min;echo 'done';
echo "there are 152 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER11 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER11 IS=min IE=min;echo 'done';
echo "there are 151 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER2 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER2 IS=min IE=min;echo 'done';
echo "there are 150 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER3 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER3 IS=min IE=min;echo 'done';
echo "there are 149 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER4 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER4 IS=min IE=min;echo 'done';
echo "there are 148 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER5 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER5 IS=min IE=min;echo 'done';
echo "there are 147 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER6 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER6 IS=min IE=min;echo 'done';
```

```
echo "there are 146 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER7 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER7 IS=min IE=min;echo 'done';
echo "there are 145 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER8 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER8 IS=min IE=min;echo 'done';
echo "there are 144 more memories to test.";echo "tr 50 M=RXLP_DEBUG_COUNTER9 IS=min IE=min ";tr 50
M=RXLP_DEBUG_COUNTER9 IS=min IE=min;echo 'done';
echo "there are 143 more memories to test.";echo "tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min
IE=min ";tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 IS=min IE=min;echo 'done';
echo "there are 142 more memories to test.";echo "tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min
IE=min ";tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 IS=min IE=min;echo 'done';
echo "there are 141 more memories to test.";echo "tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min
IE=min ";tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 IS=min IE=min;echo 'done';
echo "there are 140 more memories to test.";echo "tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min
IE=min ";tr 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 IS=min IE=min;echo 'done';
echo "there are 139 more memories to test.";echo "tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min
IE=min ";tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 IS=min IE=min;echo 'done';
echo "there are 138 more memories to test.";echo "tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min
IE=min ";tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 IS=min IE=min;echo 'done';
echo "there are 137 more memories to test.";echo "tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min
IE=min ";tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 IS=min IE=min;echo 'done';
echo "there are 136 more memories to test.";echo "tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min
IE=min ";tr 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 IS=min IE=min;echo 'done';
echo "there are 135 more memories to test.";echo "tr 50 M=RXLP_MAX_FRAME_SIZE IS=min IE=min ";tr 50
M=RXLP_MAX_FRAME_SIZE IS=min IE=min;echo 'done';
echo "there are 134 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE IS=min IE=min ";tr 50
M=RX_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 133 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE_1 IS=min IE=min ";tr 50
M=RX_PROT_GROUP_TABLE_1 IS=min IE=min;echo 'done';
echo "there are 132 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=min
";tr 50 M=RX_PROT_GROUP_TABLE_1_DMA IS=min IE=min;echo 'done';
echo "there are 131 more memories to test.";echo "tr 50 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=min
";tr 50 M=RX_PROT_GROUP_TABLE_DMA IS=min IE=min;echo 'done';
echo "there are 130 more memories to test.";echo "tr 50 M=SERVICE_COS_MAP IS=min IE=min ";tr 50
M=SERVICE_COS_MAP IS=min IE=min;echo 'done';
echo "there are 129 more memories to test.";echo "tr 50 M=SER_ACC_TYPE_MAP IS=min IE=min ";tr 50
M=SER_ACC_TYPE_MAP IS=min IE=min;echo 'done';
echo "there are 128 more memories to test.";echo "tr 50 M=SER_MEMORY IS=min IE=min ";tr 50
M=SER_MEMORY IS=min IE=min;echo 'done';
echo "there are 127 more memories to test.";echo "tr 50 M=SER_RESULT_0 IS=min IE=min ";tr 50
M=SER_RESULT_0 IS=min IE=min;echo 'done';
echo "there are 126 more memories to test.";echo "tr 50 M=SER_RESULT_1 IS=min IE=min ";tr 50
M=SER_RESULT_1 IS=min IE=min;echo 'done';
echo "there are 125 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_0 IS=min IE=min ";tr 50
M=SER_RESULT_DATA_0 IS=min IE=min;echo 'done';
echo "there are 124 more memories to test.";echo "tr 50 M=SER_RESULT_DATA_1 IS=min IE=min ";tr 50
M=SER_RESULT_DATA_1 IS=min IE=min;echo 'done';
echo "there are 123 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_0 IS=min IE=min ";tr 50
M=SER_RESULT_EXPECTED_0 IS=min IE=min;echo 'done';
```

```
echo "there are 122 more memories to test.";echo "tr 50 M=SER_RESULT_EXPECTED_1 IS=min IE=min ";tr 50
M=SER_RESULT_EXPECTED_1 IS=min IE=min;echo 'done';
echo "there are 121 more memories to test.";echo "tr 50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=min ";tr
50 M=SOURCE_MOD_PROXY_TABLE IS=min IE=min;echo 'done';
echo "there are 120 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=min ";tr
50 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 119 more memories to test.";echo "tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=min
";tr 50 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=min;echo 'done';
echo "there are 118 more memories to test.";echo "tr 50 M=SOURCE_VP IS=min IE=min ";tr 50 M=SOURCE_VP
IS=min IE=min;echo 'done';
echo "there are 117 more memories to test.";echo "tr 50 M=SRC_MODID_EGRESS IS=min IE=min ";tr 50
M=SRC_MODID_EGRESS IS=min IE=min;echo 'done';
echo "there are 116 more memories to test.";echo "tr 50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=min ";tr
50 M=SRC_MODID_INGRESS_BLOCK IS=min IE=min;echo 'done';
echo "there are 115 more memories to test.";echo "tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=min
";tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP IS=min IE=min;echo 'done';
echo "there are 114 more memories to test.";echo "tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY
IS=min IE=min ";tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 113 more memories to test.";echo "tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min
IE=min ";tr 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY IS=min IE=min;echo 'done';
echo "there are 112 more memories to test.";echo "tr 50 M=SVM_MACROFLOW_INDEX_TABLE IS=min
IE=min ";tr 50 M=SVM_MACROFLOW_INDEX_TABLE IS=min IE=min;echo 'done';
echo "there are 111 more memories to test.";echo "tr 50 M=SVM_METER_TABLE IS=min IE=min ";tr 50
M=SVM_METER_TABLE IS=min IE=min;echo 'done';
echo "there are 110 more memories to test.";echo "tr 50 M=SVM_OFFSET_TABLE IS=min IE=min ";tr 50
M=SVM_OFFSET_TABLE IS=min IE=min;echo 'done';
echo "there are 109 more memories to test.";echo "tr 50 M=SVM_POLICY_TABLE IS=min IE=min ";tr 50
M=SVM_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 108 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE IS=min IE=min ";tr 50
M=SYSTEM_CONFIG_TABLE IS=min IE=min;echo 'done';
echo "there are 107 more memories to test.";echo "tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min
IE=min ";tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=min;echo 'done';
echo "there are 106 more memories to test.";echo "tr 50 M=TCP_FN IS=min IE=min ";tr 50 M=TCP_FN IS=min
IE=min;echo 'done';
echo "there are 105 more memories to test.";echo "tr 50 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=min
";tr 50 M=THDIQEN_THDI_PORT_PG_CNTRS IS=min IE=min;echo 'done';
echo "there are 104 more memories to test.";echo "tr 50 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min
IE=min ";tr 50 M=THDIQEN_THDI_PORT_PG_CONFIG IS=min IE=min;echo 'done';
echo "there are 103 more memories to test.";echo "tr 50 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=min
";tr 50 M=THDIQEN_THDI_PORT_SP_CONFIG IS=min IE=min;echo 'done';
echo "there are 102 more memories to test.";echo "tr 50 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=min
";tr 50 M=THDIRQE_THDI_PORT_PG_CNTRS IS=min IE=min;echo 'done';
echo "there are 101 more memories to test.";echo "tr 50 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min
IE=min ";tr 50 M=THDIRQE_THDI_PORT_PG_CONFIG IS=min IE=min;echo 'done';
echo "there are 100 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CNTRS IS=min IE=min ";tr 50
M=THDI_PORT_PG_CNTRS IS=min IE=min;echo 'done';
echo "there are 99 more memories to test.";echo "tr 50 M=THDI_PORT_PG_CONFIG IS=min IE=min ";tr 50
M=THDI_PORT_PG_CONFIG IS=min IE=min;echo 'done';
```

```
echo "there are 98 more memories to test.";echo "tr 50 M=TOS_FN IS=min IE=min ";tr 50 M=TOS_FN IS=min
IE=min;echo 'done';
echo "there are 97 more memories to test.";echo "tr 50 M=TRUNK_BITMAP IS=min IE=min ";tr 50
M=TRUNK_BITMAP IS=min IE=min;echo 'done';
echo "there are 96 more memories to test.";echo "tr 50 M=TRUNK_CBL_TABLE IS=min IE=min ";tr 50
M=TRUNK_CBL_TABLE IS=min IE=min;echo 'done';
echo "there are 95 more memories to test.";echo "tr 50 M=TRUNK_GROUP IS=min IE=min ";tr 50
M=TRUNK_GROUP IS=min IE=min;echo 'done';
echo "there are 94 more memories to test.";echo "tr 50 M=TRUNK_MEMBER IS=min IE=min ";tr 50
M=TRUNK_MEMBER IS=min IE=min;echo 'done';
echo "there are 93 more memories to test.";echo "tr 50 M=TTL_FN IS=min IE=min ";tr 50 M=TTL_FN IS=min
IE=min;echo 'done';
echo "there are 92 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER0 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER0 IS=min IE=min;echo 'done';
echo "there are 91 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER1 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER1 IS=min IE=min;echo 'done';
echo "there are 90 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER10 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER10 IS=min IE=min;echo 'done';
echo "there are 89 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER11 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER11 IS=min IE=min;echo 'done';
echo "there are 88 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER2 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER2 IS=min IE=min;echo 'done';
echo "there are 87 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER3 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER3 IS=min IE=min;echo 'done';
echo "there are 86 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER4 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER4 IS=min IE=min;echo 'done';
echo "there are 85 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER5 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER5 IS=min IE=min;echo 'done';
echo "there are 84 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER6 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER6 IS=min IE=min;echo 'done';
echo "there are 83 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER7 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER7 IS=min IE=min;echo 'done';
echo "there are 82 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER8 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER8 IS=min IE=min;echo 'done';
echo "there are 81 more memories to test.";echo "tr 50 M=TXLP_DEBUG_COUNTER9 IS=min IE=min ";tr 50
M=TXLP_DEBUG_COUNTER9 IS=min IE=min;echo 'done';
echo "there are 80 more memories to test.";echo "tr 50 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min
IE=min ";tr 50 M=TXLP_INT2EXT_STREAM_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 79 more memories to test.";echo "tr 50 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=min
";tr 50 M=TXLP_PORT_ADDR_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 78 more memories to test.";echo "tr 50 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min
IE=min ";tr 50 M=TXLP_PORT_STREAM_BITMAP_TABLE IS=min IE=min;echo 'done';
echo "there are 77 more memories to test.";echo "tr 50 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min
IE=min ";tr 50 M=TXLP_STREAM_ADDR_MAP_TABLE IS=min IE=min;echo 'done';
echo "there are 76 more memories to test.";echo "tr 50 M=INITIAL_PROT_GROUP_TABLE IS=min IE=min ";tr
50 M=INITIAL_PROT_GROUP_TABLE IS=min IE=min;echo 'done';
echo "there are 75 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=min ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=min;echo 'done';
```

```
echo "there are 74 more memories to test.";echo "tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=min ";tr 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=min;echo 'done';
echo "there are 73 more memories to test.";echo "tr 50 M=FP_UDF_OFFSET IS=min IE=min ";tr 50
M=FP_UDF_OFFSET IS=min IE=min;echo 'done';
echo "there are 72 more memories to test.";echo "tr 50 M=FP_UDF_TCAM IS=min IE=min ";tr 50
M=FP_UDF_TCAM IS=min IE=min;echo 'done';
echo "there are 71 more memories to test.";echo "tr 50 M=UNKNOWN_HGI_BITMAP IS=min IE=min ";tr 50
M=UNKNOWN_HGI_BITMAP IS=min IE=min;echo 'done';
echo "there are 70 more memories to test.";echo "tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 69 more memories to test.";echo "tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=min
";tr 50 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=min;echo 'done';
echo "there are 68 more memories to test.";echo "tr 50 M=VFI IS=min IE=min ";tr 50 M=VFI IS=min IE=min;echo
'done';
echo "there are 67 more memories to test.";echo "tr 50 M=VFI_1 IS=min IE=min ";tr 50 M=VFI_1 IS=min
IE=min;echo 'done';
echo "there are 66 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=min
";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=min;echo 'done';
echo "there are 65 more memories to test.";echo "tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=min
";tr 50 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=min;echo 'done';
echo "there are 64 more memories to test.";echo "tr 50 M=VFP_POLICY_TABLE IS=min IE=min ";tr 50
M=VFP_POLICY_TABLE IS=min IE=min;echo 'done';
echo "there are 63 more memories to test.";echo "tr 50 M=VFP_TCAM IS=min IE=min ";tr 50 M=VFP_TCAM
IS=min IE=min;echo 'done';
echo "there are 62 more memories to test.";echo "tr 50 M=VLAN_TAB IS=min IE=min ";tr 50 M=VLAN_TAB
IS=min IE=min;echo 'done';
echo "there are 61 more memories to test.";echo "tr 50 M=VLAN_MAC IS=min IE=min ";tr 50 M=VLAN_MAC
IS=min IE=min;echo 'done';
echo "there are 60 more memories to test.";echo "tr 50 M=VLAN_MAC_OVERFLOW IS=min IE=min ";tr 50
M=VLAN_MAC_OVERFLOW IS=min IE=min;echo 'done';
echo "there are 59 more memories to test.";echo "tr 50 M=VLAN_MPLS IS=min IE=min ";tr 50 M=VLAN_MPLS
IS=min IE=min;echo 'done';
echo "there are 58 more memories to test.";echo "tr 50 M=VLAN_OR_VFI_MAC_COUNT IS=min IE=min ";tr 50
M=VLAN_OR_VFI_MAC_COUNT IS=min IE=min;echo 'done';
echo "there are 57 more memories to test.";echo "tr 50 M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=min ";tr 50
M=VLAN_OR_VFI_MAC_LIMIT IS=min IE=min;echo 'done';
echo "there are 56 more memories to test.";echo "tr 50 M=VLAN_PROFILE_TAB IS=min IE=min ";tr 50
M=VLAN_PROFILE_TAB IS=min IE=min;echo 'done';
echo "there are 55 more memories to test.";echo "tr 50 M=VLAN_PROFILE_2 IS=min IE=min ";tr 50
M=VLAN_PROFILE_2 IS=min IE=min;echo 'done';
echo "there are 54 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL IS=min IE=min ";tr 50
M=VLAN_PROTOCOL IS=min IE=min;echo 'done';
echo "there are 53 more memories to test.";echo "tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=min ";tr 50
M=VLAN_PROTOCOL_DATA IS=min IE=min;echo 'done';
echo "there are 52 more memories to test.";echo "tr 50 M=STG_TAB IS=min IE=min ";tr 50 M=STG_TAB IS=min
IE=min;echo 'done';
echo "there are 51 more memories to test.";echo "tr 50 M=VLAN_SUBNET IS=min IE=min ";tr 50
M=VLAN_SUBNET IS=min IE=min;echo 'done';
```

```
echo "there are 50 more memories to test.";echo "tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=min ";tr 50
M=VLAN_SUBNET_DATA_ONLY IS=min IE=min;echo 'done';
echo "there are 49 more memories to test.";echo "tr 50 M=VLAN_SUBNET_ONLY IS=min IE=min ";tr 50
M=VLAN_SUBNET_ONLY IS=min IE=min;echo 'done';
echo "there are 48 more memories to test.";echo "tr 50 M=VLAN_XLATE IS=min IE=min ";tr 50
M=VLAN_XLATE IS=min IE=min;echo 'done';
echo "there are 47 more memories to test.";echo "tr 50 M=VLAN_XLATE_OVERFLOW IS=min IE=min ";tr 50
M=VLAN_XLATE_OVERFLOW IS=min IE=min;echo 'done';
echo "there are 46 more memories to test.";echo "tr 50 M=VRF IS=min IE=min ";tr 50 M=VRF IS=min
IE=min;echo 'done';
#echo "there are 45 more memories to test.";echo "tr 50 M=XLPORT_WC_UCMEM_DATA IS=min IE=min ";tr
50 M=XLPORT_WC_UCMEM_DATA IS=min IE=min;echo 'done';
#---------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 44  more memories to test.';echo 'tr 50  M=EGRESS_PACKET_BUFFER0 IS=min IE=min';tr 50
M=EGRESS_PACKET_BUFFER0 IS=min IE=min; echo 'done';
#echo 'there are 43  more memories to test.';echo 'tr 50  M=EGRESS_PACKET_BUFFER1 IS=min IE=min';tr 50
M=EGRESS_PACKET_BUFFER1 IS=min IE=min; echo 'done';
#echo 'there are 42  more memories to test.';echo 'tr 50  M=EGRESS_PACKET_BUFFER2 IS=min IE=min';tr 50
M=EGRESS_PACKET_BUFFER2 IS=min IE=min; echo 'done';
#echo 'there are 41  more memories to test.';echo 'tr 50  M=EGRESS_PACKET_BUFFER3 IS=min IE=min';tr 50
M=EGRESS_PACKET_BUFFER3 IS=min IE=min; echo 'done';
#echo 'there are 40  more memories to test.';echo 'tr 50  M=EGR_PBE_DEBUG_0 IS=min IE=min';tr 50
M=EGR_PBE_DEBUG_0 IS=min IE=min; echo 'done';
#echo 'there are 39  more memories to test.';echo 'tr 50  M=EGR_PBE_DEBUG_1 IS=min IE=min';tr 50
M=EGR_PBE_DEBUG_1 IS=min IE=min; echo 'done';
#echo 'there are 38  more memories to test.';echo 'tr 50  M=IARB_GIH_DEBUG IS=min IE=min';tr 50
M=IARB_GIH_DEBUG IS=min IE=min; echo 'done';
#echo 'there are 37  more memories to test.';echo 'tr 50  M=IARB_IPAD_DEBUG IS=min IE=min';tr 50
M=IARB_IPAD_DEBUG IS=min IE=min; echo 'done';
#echo 'there are 36  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_0_HI IS=min IE=min';tr 50
M=ING_PBI_DEBUG_0_HI IS=min IE=min; echo 'done';
#echo 'there are 35  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_0_LO IS=min IE=min';tr 50
M=ING_PBI_DEBUG_0_LO IS=min IE=min; echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 50  M=ING_PBI_DEBUG_1 IS=min IE=min';tr 50
M=ING_PBI_DEBUG_1 IS=min IE=min; echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER0 IS=min IE=min';tr 50
M=IPARS_PACKET_BUFFER0 IS=min IE=min; echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER1 IS=min IE=min';tr 50
M=IPARS_PACKET_BUFFER1 IS=min IE=min; echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER2 IS=min IE=min';tr 50
M=IPARS_PACKET_BUFFER2 IS=min IE=min; echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 50  M=IPARS_PACKET_BUFFER3 IS=min IE=min';tr 50
M=IPARS_PACKET_BUFFER3 IS=min IE=min; echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 50  M=LINK_STATUS IS=min IE=min';tr 50
M=LINK_STATUS IS=min IE=min; echo 'done';
#---------------------------- READONLY  memories-------------------------------------------------------------
#echo 'there are 28 more memories to test.';echo 'tr 50 M=EGR_EDBIL_PKT_SOP IS=min IE=min';tr 50
M=EGR_EDBIL_PKT_SOP IS=min IE=min;echo 'done';
```

```
#echo 'there are 27 more memories to test.';echo 'tr 50 M=EGR_MAX_USED_ENTRIES IS=min IE=min';tr 50
M=EGR_MAX_USED_ENTRIES IS=min IE=min;echo 'done';
#echo 'there are 26 more memories to test.';echo 'tr 50 M=EGR_MMU_REQUESTS IS=min IE=min';tr 50
M=EGR_MMU_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 50 M=EGR_PORT_PKT_SOP IS=min IE=min';tr 50
M=EGR_PORT_PKT_SOP IS=min IE=min;echo 'done';
#echo 'there are 24 more memories to test.';echo 'tr 50 M=EGR_PORT_REQUESTS IS=min IE=min';tr 50
M=EGR_PORT_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 23 more memories to test.';echo 'tr 50 M=IARB_CELL_PKT_SOP IS=min IE=min';tr 50
M=IARB_CELL_PKT_SOP IS=min IE=min;echo 'done';
#echo 'there are 22 more memories to test.';echo 'tr 50 M=MMU_INTFI_DEBUG_MEM IS=min IE=min';tr 50
M=MMU_INTFI_DEBUG_MEM IS=min IE=min;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 50 M=OAMP_PE_GEN_MEM IS=min IE=min';tr 50
M=OAMP_PE_GEN_MEM IS=min IE=min;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 50 M=OAMP_PE_PROGRAM IS=min IE=min';tr 50
M=OAMP_PE_PROGRAM IS=min IE=min;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 50 M=OAMP_SAT_RX_FLOW_ID IS=min IE=min';tr 50
M=OAMP_SAT_RX_FLOW_ID IS=min IE=min;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 50 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=min';tr
50 M=OAMP_SAT_RX_FLOW_PARAMS IS=min IE=min;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 50 M=OAMP_SAT_RX_FLOW_STATS IS=min IE=min';tr 50
M=OAMP_SAT_RX_FLOW_STATS IS=min IE=min;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 50 M=OAMP_SAT_TX IS=min IE=min';tr 50
M=OAMP_SAT_TX IS=min IE=min;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 50 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min
IE=min';tr 50 M=RXLP_CHANNEL_CONTROL_BUFFER IS=min IE=min;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 50 M=RXLP_ERROR_ACTION_MAP_DATA IS=min
IE=min';tr 50 M=RXLP_ERROR_ACTION_MAP_DATA IS=min IE=min;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 50 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min
IE=min';tr 50 M=RXLP_ERROR_ACTION_MAP_TCAM IS=min IE=min;echo 'done';
#echo 'there are 12 more memories to test.';echo 'tr 50 M=RXLP_INTR_DATA_MEM IS=min IE=min';tr 50
M=RXLP_INTR_DATA_MEM IS=min IE=min;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 50 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=min';tr
50 M=THDIQEN_THDI_PORT_SP_CNTRS IS=min IE=min;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 50 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=min';tr
50 M=THDIRQE_THDI_PORT_SP_CNTRS IS=min IE=min;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 50 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=min';tr
50 M=THDIRQE_THDI_PORT_SP_CONFIG IS=min IE=min;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 50 M=THDI_PORT_SP_CNTRS IS=min IE=min';tr 50
M=THDI_PORT_SP_CNTRS IS=min IE=min;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 50 M=THDI_PORT_SP_CONFIG IS=min IE=min';tr 50
M=THDI_PORT_SP_CONFIG IS=min IE=min;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 50 M=TXLP_PORT_MMU_REQUESTS IS=min IE=min';tr 50
M=TXLP_PORT_MMU_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 50 M=TXLP_PORT_PKT_SOP IS=min IE=min';tr 50
M=TXLP_PORT_PKT_SOP IS=min IE=min;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 50 M=TXLP_PORT_REQUESTS IS=min IE=min';tr 50
M=TXLP_PORT_REQUESTS IS=min IE=min;echo 'done';
```

#echo 'there are 3 more memories to test.';echo 'tr 50 M=TXLP_PORT_USED_ENTRIES IS=min IE=min';tr 50 M=TXLP_PORT_USED_ENTRIES IS=min IE=min;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 50 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=min';tr 50 M=TXLP_STREAM_MMU_REQUESTS IS=min IE=min;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 50 M=TXLP_STREAM_USED_ENTRIES IS=min IE=min';tr 50 M=TXLP_STREAM_USED_ENTRIES IS=min IE=min;echo 'done';
#---------- VENDOR memories----------

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr50_bcm56270_a0.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: stack.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/stack.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: triumph.h,v 1.143 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: triumph.h
* Purpose: Function declarations for Triumph bcm functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/triumph.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfSbQe2000ElibPriTable.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTable.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_port_resequence.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mmu_port_resequence.c
No license file was found, but licenses were detected in source scan.

```
/*
* -*-  Mode:text; c-basic-offset:4 -*-
*
* $Id: sbG2EplibUcode.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Guadalupe2k QE2000 Egress Processor Class Instructions
*
*==================================================================================
====
*
*  Processing Class Breakdown
*
*  Class | HW Type      |  Description
*  ------+--------------+-------------------------------------------
*  0     | VLAN         |  Traditional Bridging Unicast
*  ------+--------------+-------------------------------------------
*  1     | VLAN         |  Logical Interface Unicast
*  ------+--------------+-------------------------------------------
*  2     | VLAN         |  Traditional Bridging Multicast
*  ------+--------------+-------------------------------------------
*  3     | VLAN         |  Logical Interface Multicast
*  ------+--------------+-------------------------------------------
*  4     | VLAN         |  Logical Interface Multicast (McGroup > 32K)
*  ------+--------------+-------------------------------------------
*  5     | VLAN         |  IPMC (4k <= OI < 8k)
*  ------+--------------+-------------------------------------------
*
*==================================================================================
====
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbG2EplibUcode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 STACK H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_stack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_jer_fc_trigger_config_example.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_jer_fc_trigger_config_example.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This cint shows example of source based VSQs resource allocation.
*
* Resource allocation walkthough (Focal function: cint_vsq_resource_allocation_setup()):
* 1) cint_gl_vsq_resource_allocate() - global VSQs resource allocation.
* 2) cint_src_vsqs_create() - create PORT-VSQ and PG-VSQ.
* 3) cint_src_vsqs_resource_allocate() - allocate resources for the PORT-VSQ and PG-VSQ.
* 4) cint_src_vsqs_pfc_setup() - configure flow control for PORT & PG VSQs.
*
* Following functions required only for Jericho:
* 5) cint_vsq_setup() - create VSQB.
* 6) cint_voq_add() - assign VOQ to VSQB.
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vsq_resource_allocation.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/flashDrvLib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flashDrvLib.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_hashtable.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/utilex/utilex_hashtable.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbG2QeSsFeIngRouteHeader.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbG2QeSsFeIngRouteHeader.h
No license file was found, but licenses were detected in source scan.

```
/** \file dbal_internal.c
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* System wide Logical Table Manager internal functions.
*
* To be used for:
*   Access of physical table
*   Access of pure software tables
*   Activation of access procedutes (dispatcher) which is
*     equivalent to 'MBCM and arad_pp_dbal' on SDK6 for JR1.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdpll.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tdpll.c
*
* Purpose: Telecom DPLL logical DPLL instance configuration and management.
*
* Functions:
*      bcm_tdpll_dpll_instance_init
*      bcm_tdpll_dpll_bindings_get
*      bcm_tdpll_dpll_bindings_set
*      bcm_tdpll_dpll_reference_get
*      bcm_tdpll_dpll_reference_set
*      bcm_tdpll_dpll_bandwidth_get
*      bcm_tdpll_dpll_bandwidth_set
*      bcm_tdpll_dpll_phase_control_get
*      bcm_tdpll_dpll_phase_control_set
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/tdpll_dpll.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: io.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  io.h
* Purpose:  SAL I/O definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/appl/io.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_filter.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_filter.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* -*-  Mode:text; c-basic-offset:4 -*-
*
* $Id: sbQeSsG2EplibUcode.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Guadalupe2k QE2000 Egress Processor Class Instructions
*
*==============================================================================
====
*
*  Processing Class Breakdown
*
*  Class | HW Type      |  Description
*  ------+--------------+-------------------------------------------
*  0     | VLAN         |  Traditional Bridging Unicast
```

```
*  ------+--------------+-------------------------------------------
*  1    | VLAN        |  Logical Interface Unicast
*  ------+--------------+-------------------------------------------
*  2    | VLAN        |  Traditional Bridging Multicast
*  ------+--------------+-------------------------------------------
*  3    | VLAN        |  Logical Interface Multicast
*  ------+--------------+-------------------------------------------
*  4    | VLAN        |  Logical Interface Multicast (McGroup > 32K)
*  ------+--------------+-------------------------------------------
*
*==================================================================================
====
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g2eplib/sbQeSsG2EplibUcode.c
No license file was found, but licenses were detected in source scan.

```
/*
/* $Copyright: (c) 2016 Broadcom.
/* Broadcom Proprietary and Confidential. All rights reserved.$ */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_arad_fc_inbnd_config_example.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_arad_fc_oob_config_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rate_calc.h
* Purpose:     TBD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/rate_calc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_l2_encap_external_cpu.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$SDK/src/examples/dpp/cint
cint_l2_encap_external_cpu.c
*
* configuration
* BCM> print l2_external_cpu_setup(unit, cpu_port1, cpu_port2)
*
* execution:
* * BCM>cint
* cint>l2_external_cpu_uc_forwarding(unit);
* cint>exit;
* for uc send
* BCM> tx 1
DATA=0x0000000000eb0000000000138100000108990123456789098765432123456789c5c5c5c5c5c5c5c5c5c5c5
c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5 PSRC=13
* the added l2 header will be 23456789abcd0a1b2c3d4e5f810050648999+system headers
*
* for uc ingress trap
* execution:
* BCM>cint
* cint>l2_external_cpu_uc_trap_set(unit);
* cint>exit;
* for uc send (trap for same DA and SA)
* BCM> tx 1
DATA=0x0000000000eb00x0000000000eb8100000108990123456789098765432123456789c5c5c5c5c5c5c5c5c5c
5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5 PSRC=13
* the added l2 header will be 23456789abcd0a1b2c3d4e5f810050648999+system headers
*
*
* for mc send
* BCM>cint
* cint>l2_external_cpu_mc_forwarding(unit);
* cint>exit;
* BCM> tx 1
DATA=0xff00000000eb0000000000138100000108990123456789098765432123456789c5c5c5c5c5c5c5c5c5c5c
5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5 PSRC=13
* the added l2 header will be 23456789abcd0a1b2c3d4e5f810050648999+system headers
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_l2_encap_external_cpu.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: dmaRx.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/dmaRx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* Mac-in-Mac initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane MIPS core routines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndmips.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndmips.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndmips.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tc_config.c
*
* Purpose:
*
* Functions:
*      bcm_common_ptp_primary_domain_get
*      bcm_common_ptp_primary_domain_set
```

```
*      bcm_common_ptp_transparent_clock_default_dataset_get
*      bcm_common_ptp_transparent_clock_port_dataset_get
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/tc_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_i.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_i.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_api_cnm.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_cnm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: metrolite.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       metrolite.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/metrolite.h
No license file was found, but licenses were detected in source scan.

/* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_packet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bits_bytes_macros.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_change_upper_layer_protocol_for_pop_mpls.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_debug.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_packet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_multicast_egress.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_multicast_egress.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_pp_general.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_snoop_example.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_cos.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_table.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_mact_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_trill.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_rif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_stack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/SAND/SAND_FM/sand_pp_general.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_stack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_lag.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_sa_auth.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_rand.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_cos.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_trap_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tcam_key.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_tid_task.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_statistics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_mpls_term.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_statistics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_diagnostics.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_mymac.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_parse.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_mirror_arp_reply_frame.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_flow_control.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_vsi.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_sw_db_tcam_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_mc.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_pmf_low_level.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/SAND/Utils/sand_rand.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_array_memory_allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_mact.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/sweep/Utils/sweep_utilities.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_tcam_mgmt.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_filter.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_trap.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_vid_assign.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_modify_pcp_per_da_after_vlan_translation.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_tcam_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_ing_vlan_edit.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_interrupts.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_snoop_tc_change_ip_routed_frame.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_metering.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_debug.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_mirror.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_frwrd_mact_mgmt.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_mact_mgmt.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy_unimac.h,v 1.1 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_unimac.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th2_proc.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_proc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_wb_engine.c,v 1.75 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_wb_engine.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: merlin_dino_interface.h 1356 2016-02-12 23:27:16Z cvazquez $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                  *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                          *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/merlin_dino/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* merlin_dino_interface.h - provides the primary functionality.
*
* merlin_dino_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Trunk CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/appl/diag/esw/trunk.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/phymod_symbol_field_filter.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FIFO DMA H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_fifo_dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_h.stg,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_cop.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_i2c_mem.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_i2c_mem.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_api_ssr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       dnx_sand_ssr.c
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_api_ssr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: master_config.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    master_config.c
*
* Purpose:
*
* Functions:
*      bcm_common_ptp_static_unicast_master_add
*      bcm_common_ptp_static_unicast_master_list
*      bcm_common_ptp_static_unicast_master_remove
*      bcm_common_ptp_static_unicast_master_table_clear
```

```
*      bcm_common_ptp_static_unicast_master_table_size_get
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/master_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: profile_mem.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Provides generic routines for managing HW profile tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/profile_mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_multicast.c,v 1.7.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* bcmalloccache.c
*
* Implements a working set model for objects alloced. The objects should be of same size.
* The size of the working set is controlled by using trim level and
* periodically calling reclaim function.
* If an object is not found in working set, it's allocated using MALLOC and reclaim will
* free it using MFREE
* The locking and timer is application's responsibility.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmallocache.c,v 1.1 Broadcom SDK $
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmallocache.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND Run Time Environment for standalone MIPS programs.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: mipsinc.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/mipsinc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/mipsinc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: aiutils.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/aiutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane MIPS core software interface.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndmips.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndmips.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xasync_req.h
* Purpose: Async BCMX - request structure
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/xasync_req.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pae.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains pae definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/pae.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_defs.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_defs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
* search for 'sw_state_diagnostic_cbs_t' for the root of the struct
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_em_blocks_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exmMixStatDyn_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsStaticArrInt_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tcam_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eg_encap_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_dram_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_slb_config_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vtt_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/diagnostic/sw_state_issu_test_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_stg_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_ipmc_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_trap_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_kbp_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_pmf_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_issu_example_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_q_type_ref_count_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_bfd_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eg_mirror_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ipv4_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vrrp_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_pp_mpls_term_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_vid_assign_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_trunk_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_vlan_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_failover_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_gport_mgmt_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_lif_linked_list_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tm_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oamp_pe_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_pon_double_lookup_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsArrPtr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsPtr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsSinglePtr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_port_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_modport2sysport_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_vswitch_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vt_profile_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_policer_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_extender_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsArrArr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_qax_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_shr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_trill_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_rx_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_occupation_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_l2_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dnx_diagnostic.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_fec_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_multicast_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_local_lif_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_vdc_vsi_map_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_vsi_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oam_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_mim_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_jer_modid_group_map_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_fwd_mact_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ipv4_pat_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_lag_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_dbal_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lif_table_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_vendor_0_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_plus_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_glif_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_q_type_map_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tcam_mgmt_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_diag_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lif_cos_diagnostic.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_interrupts_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_mirror_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_config_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_overlay_arp_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_pp_port_map_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_cos_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsStaticArrArr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_reassembly_ctxt_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_header_data_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_llp_filter_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_arad_egr_ports_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_counter_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ecmp_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_oper_mode_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm__switch_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_l3_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_miniExm_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_chip_definitions_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_lag_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_tdm_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_alloc_mngr_utils_diagnostic.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_policer_size_profile_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_mirror_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsArr_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_sysport2modport_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_bfd_ipv6_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_phy_ports_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_l2_lif_ac_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_logical_ports_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_sand_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_egr_prog_editor_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_stack_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_ilm_info_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsRegular_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_kaps_db_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_oam_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_op_mode_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_exm_twoLevelsRegularAllowWbAccess_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_frwrd_ip_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_qos_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_bfd_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_cosq_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_pp_l2_lif_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_soc_arad_tm_cell_diagnostic.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_field_diagnostic.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/diagnostic/sw_state_dpp_bcm_linkbonding_diagnostic.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_soc.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM soc header for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/apache/tdm_ap_soc.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision     :  $Id: eagle_merlin_api_uc_common.h 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                        *
*  Description   :  Defines and Enumerations required by Eagle/Merlin APIs              *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/eagle_merlin_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/eagle_merlin_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_rx_trap_fap.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_trap_fap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: proxy.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: katana2.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       katana2.h
* Purpose:    Function declarations for Trident  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/katana2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:    SOC Port definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/port.h

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************
*
* $Id: ppd_api_l3_src_bind.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_l3_src_bind.h
*
* MODULE PREFIX:  soc_ppd_src_bind
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_l3_src_bind.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log (BSL)
*
* BSL functions for INTERNAL (SDK) usage.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/bsl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etcgmac.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Gigabit Ethernet MAC (Unimac) core.
*
```

```
* This file implements the chip-specific routines for the GMAC core.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/etcgmac.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_encap.h,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_encap.h
*
* MODULE PREFIX:  soc_ppd_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_eg_encap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pm.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/pm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/mbcm.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: regex.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	regex.h
* Purpose:	Regular expression search
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/regex.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cosq.h,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	cosq.h
* Purpose:	COSQ internal definitions to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/cosq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/cosq.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_qax_flow_control.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_flow_control.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_counter.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_counter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ces_pack.c 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ces_pack.c
* Purpose:     CES pack and unpack routines for CES control messages.
*
* CES messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The CES control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/ces_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_iproc.c,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_iproc.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_mact_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_mact_mgmt.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_mact_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: builtins.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       builtins.c
* Purpose:     board driver loader
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/driver/builtins.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_scheduler.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
```

```
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_ingress_scheduler.c
*
* MODULE PREFIX:  soc_tmcingress_scheduler
*
* FILE DESCRIPTION:  in the H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.h,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.74 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/mbcm.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/mbcm_pp.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       types.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_pon_cos_remark.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_cos_remark.c
* Purpose: An example how to implement ctc cos remark test cases.
*          An example how to create traffic class.
*
*
* To Activate Above Settings Run:
*      BCM> cint examples/dpp/cint_port_tpid.c
*      BCM> cint examples/dpp/pon/cint_pon_utils.c
*      BCM> cint examples/dpp/pon/cint_pon_cos_remark.c
*      BCM> cint
*      cint>
*      cint> print pon_cos_remark_app(unit, pon1, pon2, nni1, nni2);
* To clean all above configuration:
*      cint> print pon_cos_remark_app_clean(unit);
*      cint>
*      cint>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_cos_remark.c
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common inline defs for reg spec for chip pl
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id: hal_pl_inline.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_pl_inline.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cfe_api_int.h,v 1.3 2011/07/21 16:14:24 yshtil Exp $
* Copyright 2000, 2001, 2002
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license and may be used and copied only
* in accordance with the following terms and conditions.  Subject to these
* conditions, you may download, copy, install, use, modify and distribute
* modified or unmodified copies of this software in source and/or binary
* form. No title or ownership is transferred hereby.
*
* 1) Any source code used, modified or distributed must reproduce and
*    retain this copyright notice and list of conditions as they appear in
*    the source file.
*
* 2) No right is granted to use any trade name, trademark, or logo of
*    Broadcom Corporation.  The "Broadcom Corporation" name may not be
*    used to endorse or promote products derived from this software
*    without the prior written permission of Broadcom Corporation.
*
* 3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR IMPLIED
*    WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF
*    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
*    NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL BROADCOM BE LIABLE
*    FOR ANY DAMAGES WHATSOEVER, AND IN PARTICULAR, BROADCOM SHALL NOT BE
*    LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
*    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
*    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
*    BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
*    WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
*    OR OTHERWISE), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/cfe_api_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_cnm.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_cnm.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: dnxf_dispatch.h
* Purpose: dnxf driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON FABRIC STATUS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_fabric_status.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: cmu_diags_h.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
```

```
* g3p1_cmu_diags.h: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_cmu_diags.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: firebolt.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       firebolt.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/firebolt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ofp_rates.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.c
* Purpose:
* Requires:
*
```

```
* Notes:  Does not yet support packet gather at all.
*    Still issues with data buffer transfer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rcpu.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for RCPU packets encap/decap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/rcpu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     init.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibFMVTConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibFMVTConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: TkDefs.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:     Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkDefs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcmap.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/fcmap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwQltEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwQltEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwQltEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines COSQ constants
*
* Its contents are not used directly by applications; it is used only
```

```
* by header files of parent APIs which need to share  COSQ constants.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/cosq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_mbist.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ardon_mbist.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_mbist.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_mbist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcRateLimitApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcRateLimitApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcRateLimitApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       portctrl.c
* Purpose:     SDK Port Control Layer
*
*            The purpose is to encapsulate port functionality
*            related to the xxPORT block (i.e. XLPORT, CPORT)
*            MAC and PHY.
```

```
*
*           Currently, only the PortMod library is being supported.
*           The PortMod library provides support for the MAC, PHY,
*           and xxPORT registers.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/portctrl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: virtual.c,v 1.69 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    virtual.c
* Purpose: Manages VP / VFI resources
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trx/virtual.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_source_routed_cell.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXF FABRIC SOURCE ROUTED CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_fabric_source_routed_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memreg.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/vxworks/raptor/bcmdrv/memreg.c
No license file was found, but licenses were detected in source scan.

```
# $Id: sbx.soc,v 1.23.2.10 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Initialization SBX (run commands) file
#
#       These are default commands that are read and executed by default
#       when BCM boots up.  Typically this file is called sbx.soc and resides
#       in the flash filesystem, NVRAM, or disk.
#



if $?1 "echo sbx.soc: arguments not supported; exit"
if !$?unit "echo sbx.soc: no current unit; exit"

# When running as daemon, output can be redirected to diag_log_file
if !"expr $unit == 0" && $?diag_log_file \
 "log file=$diag_log_file on;"

expr $units - 1;local num_units $?
echo "sbx.soc: unit $unit (of $num_units) device $devname"
local quiet no
local echo echo
local rcdone \$sbx$unit
if !"expr $sbxdone + 0" "local echo noecho; local quiet yes"

# Set convenience local variables

local qe2k_bscrn_lc 1
echo "sbx.soc: qe2k_bscrn_lc $qe2k_bscrn_lc"

# Board Configuration Setting
#       This file uses configuration properties to know on which board
#       it is running.  Currently one of following settings must be made:
#
if $?qe2k_bscrn_lc   "\
  local brdtype 9; \
  config add qe2k_benchscreen_board=1; \
"


echo "sbx.soc: brdtype $brdtype"

if !$?brdtype " \
 echo sbx.soc: no current brdtype; \
 exit; \
```

```
"

## gsrao 100808
echo "sbx.soc: unit $unit brdtype $brdtype pcidev $pcidev"

board init type=$brdtype

if $?diag_unit_mask && "expr ((1<<$unit) & $diag_unit_mask)==(1<<$unit)" "echo Skipping units based on
diag_unit_mask=$diag_unit_mask.;exit"

deb +Verbose

echo "$unit:init soc"
init soc

#echo "$unit:init bcm"
init bcm

echo "$unit:init bcm done"

## gsrao 092408
## We need to call 'mcinit' since this provisions the fabric. This should
## always be done after the last device is processed. Otherwise the registers
## for the initial devices end up getting processed multiple times.

## Use the following to turn on debugging.
## dbm bcm tx rx pktdata verbose vverbose; \
## dbm diag test; \
## echo Running Test TR 112; \
## attach; \
## 0: tr 112 usefile=1 infile=/root/TEST/IN_DATA.bin outfile=/root/TEST/OUT_DATA.bin
outfile1=/root/TEST/OUT_DATA_1.bin packets=1340 runtime=180 dualka=1; \
## echo Clearing Counters; \
## 0: pc clear; \
## 1: pc clear; \

if !"expr $unit == 1" "\
 mcinit; \
 echo Clearing Counters and Errors; \
 echo; \
 0: pe clear; \
 1: pe clear; \
 0: pc clear; \
 1: pc clear; \
"

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
```

master/rc/sbx_qe2k_bscrn.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcMcastApi.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcMcastApi.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/CtcMcastApi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_sim.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phymod_sim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_memory.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_memory.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mac_flexport.c
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_mac_flexport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_cell_snake_test.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC CELL SNAKE TEST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibPriTableConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibPriTableConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: firebolt.h,v 1.326 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       firebolt.h
* Purpose:    Function declarations for Firebolt bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/firebolt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_multicast_egress.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
```

```
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_multicast_egress.c
*
* MODULE PREFIX:  soc_tmcmult_eg
*
* FILE DESCRIPTION:  refer to H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_multicast_egress.c
No license file was found, but licenses were detected in source scan.

```
# $Id: hksanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

local lbpbm "ge";

# Avoid link messages while testing
linkscan off

#Display config property settings
config

init
init misc

local done 'echo "   Done"'
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Deselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
if !$?ics \
  "echo  Running PCI Compliance ...  ; \
   tr 2 ; \
   echo Done"

echo "Running S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc;
init misc
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
linkscan off
echo "Running CPU Benchmarks ..."
tr 21
$done

rcload rc.soc
counter off
l2mode off
linkscan off
```

```
echo "Running Switching Memory tests ..."
echo " ALTERNATE_EMIRROR_BITMAP";
set rct=false
echo "tr 50 M=EGR_L3_NEXT_HOP";tr 50 M=EGR_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_L3_INTF";tr 50 M=EGR_L3_INTF IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_VLAN";tr 50 M=EGR_VLAN IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_VLAN_STG";tr 50 M=EGR_VLAN_STG IS=min IE=max; echo " Done"
#echo "tr 50 M=EGR_IP_TUNNEL";tr 50 M=EGR_IP_TUNNEL IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_IM_MTP_INDEX";tr 50 M=EGR_IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_EM_MTP_INDEX";tr 50 M=EGR_EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 50 M=EGR_DSCP_TABLE";tr 50 M=EGR_DSCP_TABLE IS=min IE=max; echo " Done"
#echo "tr 50 M=EGR_DSCP_ECN_MAP";tr 50 M=EGR_DSCP_ECN_MAP IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_VLAN_XLATE";tr 50 M=EGR_VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 50 M=EGR_VLAN_XLATE_ONLY";tr 50 M=EGR_VLAN_XLATE_ONLY IS=min IE=max; echo "
Done"
echo "tr 50 M=EGR_VLAN_XLATE_DATA_ONLY";tr 50 M=EGR_VLAN_XLATE_DATA_ONLY IS=min
IE=max; echo " Done"
echo "tr 50 M=EGR_PRI_CNG_MAP";tr 50 M=EGR_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 50 M=PORT";tr 50 M=PORT IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_TUNNEL";tr 50 M=L3_TUNNEL IS=min IE=max; echo " Done"
echo "tr 50 M=SOURCE_TRUNK_MAP";tr 50 M=SOURCE_TRUNK_MAP IS=min IE=max; echo " Done"
echo "tr 50 M=UDF_OFFSET";tr 50 M=UDF_OFFSET IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_PROTOCOL";tr 50 M=VLAN_PROTOCOL IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_PROTOCOL_DATA";tr 50 M=VLAN_PROTOCOL_DATA IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_SUBNET";tr 50 M=VLAN_SUBNET IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_SUBNET_ONLY";tr 50 M=VLAN_SUBNET_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_SUBNET_DATA_ONLY";tr 50 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max;
echo " Done"
echo "tr 50 M=VLAN_MAC";tr 50 M=VLAN_MAC IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_XLATE";tr 50 M=VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_XLATE_ONLY";tr 50 M=VLAN_XLATE_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_XLATE_DATA_ONLY";tr 50 M=VLAN_XLATE_DATA_ONLY IS=min IE=max; echo "
Done"
echo "tr 50 M=ING_PRI_CNG_MAP";tr 50 M=ING_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN";tr 50 M=VLAN IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_STG";tr 50 M=VLAN_STG IS=min IE=max; echo " Done"
echo "tr 50 M=VLAN_PROFILE";tr 50 M=VLAN_PROFILE IS=min IE=max; echo " Done"
echo "tr 50 M=L2_ENTRY";tr 50 M=L2_ENTRY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_ENTRY_ONLY";tr 50 M=L2_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_HITDA_ONLY";tr 50 M=L2_HITDA_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_HITSA_ONLY";tr 50 M=L2_HITSA_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_USER_ENTRY";tr 50 M=L2_USER_ENTRY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_USER_ENTRY_ONLY";tr 50 M=L2_USER_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=L2_USER_ENTRY_DATA_ONLY";tr 50 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max;
echo " Done"
echo "tr 50 M=L2_MOD_FIFO";tr 50 M=L2_MOD_FIFO IS=min IE=max; echo " Done"
echo "tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE";tr 50 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min
```

```
IE=max; echo " Done"
echo "tr 50 M=MAC_LIMIT_PORT_MAP_TABLE";tr 50 M=MAC_LIMIT_PORT_MAP_TABLE IS=min
IE=max; echo " Done"
echo "tr 50 M=MAC_LIMIT_COUNT_TABLE";tr 50 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max; echo "
Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1";tr 50
M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max; echo " Done"
echo "tr 50 M=L2MC";tr 50 M=L2MC IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_ENTRY_ONLY";tr 50 M=L3_ENTRY_ONLY IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_ENTRY_IPV4_UNICAST";tr 50 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 50 M=L3_ENTRY_IPV4_MULTICAST";tr 50 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 50 M=L3_ENTRY_IPV6_UNICAST";tr 50 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 50 M=L3_ENTRY_IPV6_MULTICAST";tr 50 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 50 M=L3_ENTRY_VALID_ONLY";tr 50 M=L3_ENTRY_VALID_ONLY IS=min IE=max; echo "
Done"
#echo "tr 50 M=L3_IPMC";tr 50 M=L3_IPMC IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_DEFIP";tr 50 M=L3_DEFIP IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_DEFIP_ONLY";tr 50 M=L3_DEFIP_ONLY IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_DEFIP_DATA_ONLY";tr 50 M=L3_DEFIP_DATA_ONLY IS=min IE=max; echo " Done"
#echo "tr 50 M=INITIAL_L3_ECMP";tr 50 M=INITIAL_L3_ECMP IS=min IE=max; echo " Done"
#echo "tr 50 M=INITIAL_ING_L3_NEXT_HOP";tr 50 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max; echo
" Done"
echo "tr 50 M=FP_PORT_FIELD_SEL";tr 50 M=FP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 50 M=DSCP_TABLE";tr 50 M=DSCP_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2";tr 50
M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max; echo " Done"
echo "tr 50 M=L3_ENTRY_HIT_ONLY";tr 50 M=L3_ENTRY_HIT_ONLY IS=min IE=max; echo " Done"
#echo "tr 50 M=L3_DEFIP_HIT_ONLY";tr 50 M=L3_DEFIP_HIT_ONLY IS=min IE=max; echo " Done"
echo "tr 50 M=FP_RANGE_CHECK";tr 50 M=FP_RANGE_CHECK IS=min IE=max; echo " Done"
echo "tr 50 M=FP_SLICE_ENTRY_PORT_SEL";tr 50 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max; echo
" Done"
echo "tr 50 M=FP_TCAM";tr 50 M=FP_TCAM IS=min IE=max; echo " Done"
#echo "tr 50 M=FP_SLICE_MAP";tr 50 M=FP_SLICE_MAP IS=min IE=max; echo " Done"
echo "tr 50 M=FP_POLICY_TABLE";tr 50 M=FP_POLICY_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=FP_METER_TABLE";tr 50 M=FP_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=FP_COUNTER_TABLE";tr 50 M=FP_COUNTER_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=FP_SC_METER_TABLE";tr 50 M=FP_SC_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=FP_SC_BCAST_METER_TABLE";tr 50 M=FP_SC_BCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 50 M=FP_SC_MCAST_METER_TABLE";tr 50 M=FP_SC_MCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 50 M=FP_SC_DLF_METER_TABLE";tr 50 M=FP_SC_DLF_METER_TABLE IS=min IE=max; echo "
Done"
#echo "tr 50 M=L3_ECMP";tr 50 M=L3_ECMP IS=min IE=max; echo " Done"
```

```
echo "tr 50 M=ING_L3_NEXT_HOP";tr 50 M=ING_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 50 M=EGRESS_MASK";tr 50 M=EGRESS_MASK IS=min IE=max; echo " Done"
echo "tr 50 M=TRUNK_GROUP";tr 50 M=TRUNK_GROUP IS=min IE=max; echo " Done"
echo "tr 50 M=TRUNK_BITMAP";tr 50 M=TRUNK_BITMAP IS=min IE=max; echo " Done"
echo "tr 50 M=PORT_MAC_BLOCK";tr 50 M=PORT_MAC_BLOCK IS=min IE=max; echo " Done"
#echo "tr 50 M=MODPORT_MAP";tr 50 M=MODPORT_MAP IS=min IE=max; echo " Done"
#echo "tr 50 M=MODPORT_MAP_SW";tr 50 M=MODPORT_MAP_SW IS=min IE=max; echo " Done"
#echo "tr 50 M=MODPORT_MAP_IM";tr 50 M=MODPORT_MAP_IM IS=min IE=max; echo " Done"
#echo "tr 50 M=MODPORT_MAP_EM";tr 50 M=MODPORT_MAP_EM IS=min IE=max; echo " Done"
echo "tr 50 M=NONUCAST_TRUNK_BLOCK_MASK";tr 50 M=NONUCAST_TRUNK_BLOCK_MASK
IS=min IE=max; echo " Done"
echo "tr 50 M=IM_MTP_INDEX";tr 50 M=IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 50 M=EM_MTP_INDEX";tr 50 M=EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 50 M=SRC_MODID_BLOCK";tr 50 M=SRC_MODID_BLOCK IS=min IE=max; echo " Done"
#echo "tr 50 M=PBI_DEBUG_TABLE";tr 50 M=PBI_DEBUG_TABLE IS=min IE=max; echo " Done"
#echo "tr 50 M=IPORT_TABLE";tr 50 M=IPORT_TABLE IS=min IE=max; echo " Done"
echo "tr 50 M=IFP_PORT_FIELD_SEL";tr 50 M=IFP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA0";tr 50 M=CBPDATA0 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA1";tr 50 M=CBPDATA1 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA2";tr 50 M=CBPDATA2 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA3";tr 50 M=CBPDATA3 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA4";tr 50 M=CBPDATA4 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA5";tr 50 M=CBPDATA5 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA6";tr 50 M=CBPDATA6 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPDATA7";tr 50 M=CBPDATA7 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPPKTHEADER0";tr 50 M=CBPPKTHEADER0 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPPKTHEADER1";tr 50 M=CBPPKTHEADER1 IS=min IE=max; echo " Done"
echo "tr 50 M=CBPCELLHEADER";tr 50 M=CBPCELLHEADER IS=min IE=max; echo " Done"
echo "tr 50 M=CFAP";tr 50 M=CFAP IS=min IE=max; echo " Done"
echo "tr 50 M=CCP";tr 50 M=CCP IS=min IE=max; echo " Done"
echo "tr 50 M=AGING_CTR";tr 50 M=AGING_CTR IS=min IE=max; echo " Done"
echo "tr 50 M=AGING_EXP";tr 50 M=AGING_EXP IS=min IE=max; echo " Done"
echo "tr 50 M=MMU_MIN_BUCKET_GPORT";tr 50 M=MMU_MIN_BUCKET_GPORT IS=min IE=max; echo "
Done"
echo "tr 50 M=MMU_MAX_BUCKET_GPORT";tr 50 M=MMU_MAX_BUCKET_GPORT IS=min IE=max; echo
" Done"
echo "tr 50 M=XQ0";tr 50 M=XQ0 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ1";tr 50 M=XQ1 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ2";tr 50 M=XQ2 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ3";tr 50 M=XQ3 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ4";tr 50 M=XQ4 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ5";tr 50 M=XQ5 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ6";tr 50 M=XQ6 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ7";tr 50 M=XQ7 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ8";tr 50 M=XQ8 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ9";tr 50 M=XQ9 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ10";tr 50 M=XQ10 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ11";tr 50 M=XQ11 IS=min IE=max; echo " Done"
```

```
echo "tr 50 M=XQ12";tr 50 M=XQ12 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ13";tr 50 M=XQ13 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ14";tr 50 M=XQ14 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ15";tr 50 M=XQ15 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ16";tr 50 M=XQ16 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ17";tr 50 M=XQ17 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ18";tr 50 M=XQ18 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ19";tr 50 M=XQ19 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ20";tr 50 M=XQ20 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ21";tr 50 M=XQ21 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ22";tr 50 M=XQ22 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ23";tr 50 M=XQ23 IS=min IE=max; echo " Done"
echo "tr 50 M=XQ24";tr 50 M=XQ24 IS=min IE=max; echo " Done"

echo "tr 51 M=EGR_L3_NEXT_HOP";tr 51 M=EGR_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_L3_INTF";tr 51 M=EGR_L3_INTF IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_VLAN";tr 51 M=EGR_VLAN IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_VLAN_STG";tr 51 M=EGR_VLAN_STG IS=min IE=max; echo " Done"
#echo "tr 51 M=EGR_IP_TUNNEL";tr 51 M=EGR_IP_TUNNEL IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_IM_MTP_INDEX";tr 51 M=EGR_IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_EM_MTP_INDEX";tr 51 M=EGR_EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 51 M=EGR_DSCP_TABLE";tr 51 M=EGR_DSCP_TABLE IS=min IE=max; echo " Done"
#echo "tr 51 M=EGR_DSCP_ECN_MAP";tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_VLAN_XLATE";tr 51 M=EGR_VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 51 M=EGR_VLAN_XLATE_ONLY";tr 51 M=EGR_VLAN_XLATE_ONLY IS=min IE=max; echo "
Done"
echo "tr 51 M=EGR_VLAN_XLATE_DATA_ONLY";tr 51 M=EGR_VLAN_XLATE_DATA_ONLY IS=min
IE=max; echo " Done"
echo "tr 51 M=EGR_PRI_CNG_MAP";tr 51 M=EGR_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 51 M=PORT";tr 51 M=PORT IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_TUNNEL";tr 51 M=L3_TUNNEL IS=min IE=max; echo " Done"
echo "tr 51 M=SOURCE_TRUNK_MAP";tr 51 M=SOURCE_TRUNK_MAP IS=min IE=max; echo " Done"
echo "tr 51 M=UDF_OFFSET";tr 51 M=UDF_OFFSET IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_PROTOCOL";tr 51 M=VLAN_PROTOCOL IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_PROTOCOL_DATA";tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_SUBNET";tr 51 M=VLAN_SUBNET IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_SUBNET_ONLY";tr 51 M=VLAN_SUBNET_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_SUBNET_DATA_ONLY";tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max;
echo " Done"
echo "tr 51 M=VLAN_MAC";tr 51 M=VLAN_MAC IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_XLATE";tr 51 M=VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_XLATE_ONLY";tr 51 M=VLAN_XLATE_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_XLATE_DATA_ONLY";tr 51 M=VLAN_XLATE_DATA_ONLY IS=min IE=max; echo "
Done"
echo "tr 51 M=ING_PRI_CNG_MAP";tr 51 M=ING_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN";tr 51 M=VLAN IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_STG";tr 51 M=VLAN_STG IS=min IE=max; echo " Done"
echo "tr 51 M=VLAN_PROFILE";tr 51 M=VLAN_PROFILE IS=min IE=max; echo " Done"
```

```
echo "tr 51 M=L2_ENTRY";tr 51 M=L2_ENTRY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_ENTRY_ONLY";tr 51 M=L2_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_HITDA_ONLY";tr 51 M=L2_HITDA_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_HITSA_ONLY";tr 51 M=L2_HITSA_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_USER_ENTRY";tr 51 M=L2_USER_ENTRY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_USER_ENTRY_ONLY";tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY";tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max;
echo " Done"
echo "tr 51 M=L2_MOD_FIFO";tr 51 M=L2_MOD_FIFO IS=min IE=max; echo " Done"
echo "tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE";tr 51 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min
IE=max; echo " Done"
echo "tr 51 M=MAC_LIMIT_PORT_MAP_TABLE";tr 51 M=MAC_LIMIT_PORT_MAP_TABLE IS=min
IE=max; echo " Done"
echo "tr 51 M=MAC_LIMIT_COUNT_TABLE";tr 51 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max; echo "
Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1";tr 51
M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max; echo " Done"
echo "tr 51 M=L2MC";tr 51 M=L2MC IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_ENTRY_ONLY";tr 51 M=L3_ENTRY_ONLY IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_ENTRY_IPV4_UNICAST";tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST";tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 51 M=L3_ENTRY_IPV6_UNICAST";tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST";tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 51 M=L3_ENTRY_VALID_ONLY";tr 51 M=L3_ENTRY_VALID_ONLY IS=min IE=max; echo "
Done"
#echo "tr 51 M=L3_IPMC";tr 51 M=L3_IPMC IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_DEFIP";tr 51 M=L3_DEFIP IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_DEFIP_ONLY";tr 51 M=L3_DEFIP_ONLY IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_DEFIP_DATA_ONLY";tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=max; echo " Done"
#echo "tr 51 M=INITIAL_L3_ECMP";tr 51 M=INITIAL_L3_ECMP IS=min IE=max; echo " Done"
#echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP";tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max; echo
" Done"
echo "tr 51 M=FP_PORT_FIELD_SEL";tr 51 M=FP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 51 M=DSCP_TABLE";tr 51 M=DSCP_TABLE IS=min IE=max; echo " Done"
echo "tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2";tr 51
M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max; echo " Done"
echo "tr 51 M=L3_ENTRY_HIT_ONLY";tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=max; echo " Done"
#echo "tr 51 M=L3_DEFIP_HIT_ONLY";tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=max; echo " Done"
echo "tr 51 M=FP_RANGE_CHECK";tr 51 M=FP_RANGE_CHECK IS=min IE=max; echo " Done"
echo "tr 51 M=FP_SLICE_ENTRY_PORT_SEL";tr 51 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max; echo
" Done"
echo "tr 51 M=FP_TCAM";tr 51 M=FP_TCAM IS=min IE=max; echo " Done"
#echo "tr 51 M=FP_SLICE_MAP";tr 51 M=FP_SLICE_MAP IS=min IE=max; echo " Done"
echo "tr 51 M=FP_POLICY_TABLE";tr 51 M=FP_POLICY_TABLE IS=min IE=max; echo " Done"
```

```
echo "tr 51 M=FP_METER_TABLE";tr 51 M=FP_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 51 M=FP_COUNTER_TABLE";tr 51 M=FP_COUNTER_TABLE IS=min IE=max; echo " Done"
echo "tr 51 M=FP_SC_METER_TABLE";tr 51 M=FP_SC_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 51 M=FP_SC_BCAST_METER_TABLE";tr 51 M=FP_SC_BCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 51 M=FP_SC_MCAST_METER_TABLE";tr 51 M=FP_SC_MCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 51 M=FP_SC_DLF_METER_TABLE";tr 51 M=FP_SC_DLF_METER_TABLE IS=min IE=max; echo "
Done"
#echo "tr 51 M=L3_ECMP";tr 51 M=L3_ECMP IS=min IE=max; echo " Done"
echo "tr 51 M=ING_L3_NEXT_HOP";tr 51 M=ING_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 51 M=EGRESS_MASK";tr 51 M=EGRESS_MASK IS=min IE=max; echo " Done"
echo "tr 51 M=TRUNK_GROUP";tr 51 M=TRUNK_GROUP IS=min IE=max; echo " Done"
echo "tr 51 M=TRUNK_BITMAP";tr 51 M=TRUNK_BITMAP IS=min IE=max; echo " Done"
echo "tr 51 M=PORT_MAC_BLOCK";tr 51 M=PORT_MAC_BLOCK IS=min IE=max; echo " Done"
#echo "tr 51 M=MODPORT_MAP";tr 51 M=MODPORT_MAP IS=min IE=max; echo " Done"
#echo "tr 51 M=MODPORT_MAP_SW";tr 51 M=MODPORT_MAP_SW IS=min IE=max; echo " Done"
#echo "tr 51 M=MODPORT_MAP_IM";tr 51 M=MODPORT_MAP_IM IS=min IE=max; echo " Done"
#echo "tr 51 M=MODPORT_MAP_EM";tr 51 M=MODPORT_MAP_EM IS=min IE=max; echo " Done"
echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK";tr 51 M=NONUCAST_TRUNK_BLOCK_MASK
IS=min IE=max; echo " Done"
echo "tr 51 M=IM_MTP_INDEX";tr 51 M=IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 51 M=EM_MTP_INDEX";tr 51 M=EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 51 M=SRC_MODID_BLOCK";tr 51 M=SRC_MODID_BLOCK IS=min IE=max; echo " Done"
#echo "tr 51 M=PBI_DEBUG_TABLE";tr 51 M=PBI_DEBUG_TABLE IS=min IE=max; echo " Done"
#echo "tr 51 M=IPORT_TABLE";tr 51 M=IPORT_TABLE IS=min IE=max; echo " Done"
echo "tr 51 M=IFP_PORT_FIELD_SEL";tr 51 M=IFP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA0";tr 51 M=CBPDATA0 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA1";tr 51 M=CBPDATA1 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA2";tr 51 M=CBPDATA2 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA3";tr 51 M=CBPDATA3 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA4";tr 51 M=CBPDATA4 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA5";tr 51 M=CBPDATA5 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA6";tr 51 M=CBPDATA6 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPDATA7";tr 51 M=CBPDATA7 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPPKTHEADER0";tr 51 M=CBPPKTHEADER0 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPPKTHEADER1";tr 51 M=CBPPKTHEADER1 IS=min IE=max; echo " Done"
echo "tr 51 M=CBPCELLHEADER";tr 51 M=CBPCELLHEADER IS=min IE=max; echo " Done"
echo "tr 51 M=CFAP";tr 51 M=CFAP IS=min IE=max; echo " Done"
echo "tr 51 M=CCP";tr 51 M=CCP IS=min IE=max; echo " Done"
echo "tr 51 M=AGING_CTR";tr 51 M=AGING_CTR IS=min IE=max; echo " Done"
echo "tr 51 M=AGING_EXP";tr 51 M=AGING_EXP IS=min IE=max; echo " Done"
echo "tr 51 M=MMU_MIN_BUCKET_GPORT";tr 51 M=MMU_MIN_BUCKET_GPORT IS=min IE=max; echo "
Done"
echo "tr 51 M=MMU_MAX_BUCKET_GPORT";tr 51 M=MMU_MAX_BUCKET_GPORT IS=min IE=max; echo
" Done"
echo "tr 51 M=XQ0";tr 51 M=XQ0 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ1";tr 51 M=XQ1 IS=min IE=max; echo " Done"
```

```
echo "tr 51 M=XQ2";tr 51 M=XQ2 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ3";tr 51 M=XQ3 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ4";tr 51 M=XQ4 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ5";tr 51 M=XQ5 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ6";tr 51 M=XQ6 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ7";tr 51 M=XQ7 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ8";tr 51 M=XQ8 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ9";tr 51 M=XQ9 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ10";tr 51 M=XQ10 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ11";tr 51 M=XQ11 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ12";tr 51 M=XQ12 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ13";tr 51 M=XQ13 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ14";tr 51 M=XQ14 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ15";tr 51 M=XQ15 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ16";tr 51 M=XQ16 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ17";tr 51 M=XQ17 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ18";tr 51 M=XQ18 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ19";tr 51 M=XQ19 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ20";tr 51 M=XQ20 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ21";tr 51 M=XQ21 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ22";tr 51 M=XQ22 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ23";tr 51 M=XQ23 IS=min IE=max; echo " Done"
echo "tr 51 M=XQ24";tr 51 M=XQ24 IS=min IE=max; echo " Done"

echo "tr 52 M=EGR_L3_NEXT_HOP";tr 52 M=EGR_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_L3_INTF";tr 52 M=EGR_L3_INTF IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_VLAN";tr 52 M=EGR_VLAN IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_VLAN_STG";tr 52 M=EGR_VLAN_STG IS=min IE=max; echo " Done"
#echo "tr 52 M=EGR_IP_TUNNEL";tr 52 M=EGR_IP_TUNNEL IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_IM_MTP_INDEX";tr 52 M=EGR_IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_EM_MTP_INDEX";tr 52 M=EGR_EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 52 M=EGR_DSCP_TABLE";tr 52 M=EGR_DSCP_TABLE IS=min IE=max; echo " Done"
#echo "tr 52 M=EGR_DSCP_ECN_MAP";tr 52 M=EGR_DSCP_ECN_MAP IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_VLAN_XLATE";tr 52 M=EGR_VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 52 M=EGR_VLAN_XLATE_ONLY";tr 52 M=EGR_VLAN_XLATE_ONLY IS=min IE=max; echo "
Done"
echo "tr 52 M=EGR_VLAN_XLATE_DATA_ONLY";tr 52 M=EGR_VLAN_XLATE_DATA_ONLY IS=min
IE=max; echo " Done"
echo "tr 52 M=EGR_PRI_CNG_MAP";tr 52 M=EGR_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 52 M=PORT";tr 52 M=PORT IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_TUNNEL";tr 52 M=L3_TUNNEL IS=min IE=max; echo " Done"
echo "tr 52 M=SOURCE_TRUNK_MAP";tr 52 M=SOURCE_TRUNK_MAP IS=min IE=max; echo " Done"
echo "tr 52 M=UDF_OFFSET";tr 52 M=UDF_OFFSET IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_PROTOCOL";tr 52 M=VLAN_PROTOCOL IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_PROTOCOL_DATA";tr 52 M=VLAN_PROTOCOL_DATA IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_SUBNET";tr 52 M=VLAN_SUBNET IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_SUBNET_ONLY";tr 52 M=VLAN_SUBNET_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_SUBNET_DATA_ONLY";tr 52 M=VLAN_SUBNET_DATA_ONLY IS=min IE=max;
```

```
echo " Done"
echo "tr 52 M=VLAN_MAC";tr 52 M=VLAN_MAC IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_XLATE";tr 52 M=VLAN_XLATE IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_XLATE_ONLY";tr 52 M=VLAN_XLATE_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_XLATE_DATA_ONLY";tr 52 M=VLAN_XLATE_DATA_ONLY IS=min IE=max; echo "
Done"
echo "tr 52 M=ING_PRI_CNG_MAP";tr 52 M=ING_PRI_CNG_MAP IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN";tr 52 M=VLAN IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_STG";tr 52 M=VLAN_STG IS=min IE=max; echo " Done"
echo "tr 52 M=VLAN_PROFILE";tr 52 M=VLAN_PROFILE IS=min IE=max; echo " Done"
echo "tr 52 M=L2_ENTRY";tr 52 M=L2_ENTRY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_ENTRY_ONLY";tr 52 M=L2_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_HITDA_ONLY";tr 52 M=L2_HITDA_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_HITSA_ONLY";tr 52 M=L2_HITSA_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_USER_ENTRY";tr 52 M=L2_USER_ENTRY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_USER_ENTRY_ONLY";tr 52 M=L2_USER_ENTRY_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=L2_USER_ENTRY_DATA_ONLY";tr 52 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=max;
echo " Done"
echo "tr 52 M=L2_MOD_FIFO";tr 52 M=L2_MOD_FIFO IS=min IE=max; echo " Done"
echo "tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE";tr 52 M=MAC_LIMIT_TRUNK_MAP_TABLE IS=min
IE=max; echo " Done"
echo "tr 52 M=MAC_LIMIT_PORT_MAP_TABLE";tr 52 M=MAC_LIMIT_PORT_MAP_TABLE IS=min
IE=max; echo " Done"
echo "tr 52 M=MAC_LIMIT_COUNT_TABLE";tr 52 M=MAC_LIMIT_COUNT_TABLE IS=min IE=max; echo "
Done"
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1";tr 52
M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 IS=min IE=max; echo " Done"
echo "tr 52 M=L2MC";tr 52 M=L2MC IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_ENTRY_ONLY";tr 52 M=L3_ENTRY_ONLY IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_ENTRY_IPV4_UNICAST";tr 52 M=L3_ENTRY_IPV4_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 52 M=L3_ENTRY_IPV4_MULTICAST";tr 52 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 52 M=L3_ENTRY_IPV6_UNICAST";tr 52 M=L3_ENTRY_IPV6_UNICAST IS=min IE=max; echo "
Done"
#echo "tr 52 M=L3_ENTRY_IPV6_MULTICAST";tr 52 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=max;
echo " Done"
#echo "tr 52 M=L3_ENTRY_VALID_ONLY";tr 52 M=L3_ENTRY_VALID_ONLY IS=min IE=max; echo "
Done"
#echo "tr 52 M=L3_IPMC";tr 52 M=L3_IPMC IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_DEFIP";tr 52 M=L3_DEFIP IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_DEFIP_ONLY";tr 52 M=L3_DEFIP_ONLY IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_DEFIP_DATA_ONLY";tr 52 M=L3_DEFIP_DATA_ONLY IS=min IE=max; echo " Done"
#echo "tr 52 M=INITIAL_L3_ECMP";tr 52 M=INITIAL_L3_ECMP IS=min IE=max; echo " Done"
#echo "tr 52 M=INITIAL_ING_L3_NEXT_HOP";tr 52 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=max; echo
" Done"
echo "tr 52 M=FP_PORT_FIELD_SEL";tr 52 M=FP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 52 M=DSCP_TABLE";tr 52 M=DSCP_TABLE IS=min IE=max; echo " Done"
```

```
echo "tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2";tr 52
M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 IS=min IE=max; echo " Done"
echo "tr 52 M=L3_ENTRY_HIT_ONLY";tr 52 M=L3_ENTRY_HIT_ONLY IS=min IE=max; echo " Done"
#echo "tr 52 M=L3_DEFIP_HIT_ONLY";tr 52 M=L3_DEFIP_HIT_ONLY IS=min IE=max; echo " Done"
echo "tr 52 M=FP_RANGE_CHECK";tr 52 M=FP_RANGE_CHECK IS=min IE=max; echo " Done"
echo "tr 52 M=FP_SLICE_ENTRY_PORT_SEL";tr 52 M=FP_SLICE_ENTRY_PORT_SEL IS=min IE=max; echo
" Done"
echo "tr 52 M=FP_TCAM";tr 52 M=FP_TCAM IS=min IE=max; echo " Done"
#echo "tr 52 M=FP_SLICE_MAP";tr 52 M=FP_SLICE_MAP IS=min IE=max; echo " Done"
echo "tr 52 M=FP_POLICY_TABLE";tr 52 M=FP_POLICY_TABLE IS=min IE=max; echo " Done"
echo "tr 52 M=FP_METER_TABLE";tr 52 M=FP_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 52 M=FP_COUNTER_TABLE";tr 52 M=FP_COUNTER_TABLE IS=min IE=max; echo " Done"
echo "tr 52 M=FP_SC_METER_TABLE";tr 52 M=FP_SC_METER_TABLE IS=min IE=max; echo " Done"
echo "tr 52 M=FP_SC_BCAST_METER_TABLE";tr 52 M=FP_SC_BCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 52 M=FP_SC_MCAST_METER_TABLE";tr 52 M=FP_SC_MCAST_METER_TABLE IS=min IE=max;
echo " Done"
echo "tr 52 M=FP_SC_DLF_METER_TABLE";tr 52 M=FP_SC_DLF_METER_TABLE IS=min IE=max; echo "
Done"
#echo "tr 52 M=L3_ECMP";tr 52 M=L3_ECMP IS=min IE=max; echo " Done"
echo "tr 52 M=ING_L3_NEXT_HOP";tr 52 M=ING_L3_NEXT_HOP IS=min IE=max; echo " Done"
echo "tr 52 M=EGRESS_MASK";tr 52 M=EGRESS_MASK IS=min IE=max; echo " Done"
echo "tr 52 M=TRUNK_GROUP";tr 52 M=TRUNK_GROUP IS=min IE=max; echo " Done"
echo "tr 52 M=TRUNK_BITMAP";tr 52 M=TRUNK_BITMAP IS=min IE=max; echo " Done"
echo "tr 52 M=PORT_MAC_BLOCK";tr 52 M=PORT_MAC_BLOCK IS=min IE=max; echo " Done"
#echo "tr 52 M=MODPORT_MAP";tr 52 M=MODPORT_MAP IS=min IE=max; echo " Done"
#echo "tr 52 M=MODPORT_MAP_SW";tr 52 M=MODPORT_MAP_SW IS=min IE=max; echo " Done"
#echo "tr 52 M=MODPORT_MAP_IM";tr 52 M=MODPORT_MAP_IM IS=min IE=max; echo " Done"
#echo "tr 52 M=MODPORT_MAP_EM";tr 52 M=MODPORT_MAP_EM IS=min IE=max; echo " Done"
echo "tr 52 M=NONUCAST_TRUNK_BLOCK_MASK";tr 52 M=NONUCAST_TRUNK_BLOCK_MASK
IS=min IE=max; echo " Done"
echo "tr 52 M=IM_MTP_INDEX";tr 52 M=IM_MTP_INDEX IS=min IE=max; echo " Done"
echo "tr 52 M=EM_MTP_INDEX";tr 52 M=EM_MTP_INDEX IS=min IE=max; echo " Done"
#echo "tr 52 M=SRC_MODID_BLOCK";tr 52 M=SRC_MODID_BLOCK IS=min IE=max; echo " Done"
#echo "tr 52 M=PBI_DEBUG_TABLE";tr 52 M=PBI_DEBUG_TABLE IS=min IE=max; echo " Done"
#echo "tr 52 M=IPORT_TABLE";tr 52 M=IPORT_TABLE IS=min IE=max; echo " Done"
echo "tr 52 M=IFP_PORT_FIELD_SEL";tr 52 M=IFP_PORT_FIELD_SEL IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA0";tr 52 M=CBPDATA0 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA1";tr 52 M=CBPDATA1 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA2";tr 52 M=CBPDATA2 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA3";tr 52 M=CBPDATA3 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA4";tr 52 M=CBPDATA4 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA5";tr 52 M=CBPDATA5 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA6";tr 52 M=CBPDATA6 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPDATA7";tr 52 M=CBPDATA7 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPPKTHEADER0";tr 52 M=CBPPKTHEADER0 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPPKTHEADER1";tr 52 M=CBPPKTHEADER1 IS=min IE=max; echo " Done"
echo "tr 52 M=CBPCELLHEADER";tr 52 M=CBPCELLHEADER IS=min IE=max; echo " Done"
```

```
echo "tr 52 M=CFAP";tr 52 M=CFAP IS=min IE=max; echo " Done"
echo "tr 52 M=CCP";tr 52 M=CCP IS=min IE=max; echo " Done"
echo "tr 52 M=AGING_CTR";tr 52 M=AGING_CTR IS=min IE=max; echo " Done"
echo "tr 52 M=AGING_EXP";tr 52 M=AGING_EXP IS=min IE=max; echo " Done"
echo "tr 52 M=MMU_MIN_BUCKET_GPORT";tr 52 M=MMU_MIN_BUCKET_GPORT IS=min IE=max; echo "
Done"
echo "tr 52 M=MMU_MAX_BUCKET_GPORT";tr 52 M=MMU_MAX_BUCKET_GPORT IS=min IE=max; echo
" Done"
echo "tr 52 M=XQ0";tr 52 M=XQ0 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ1";tr 52 M=XQ1 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ2";tr 52 M=XQ2 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ3";tr 52 M=XQ3 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ4";tr 52 M=XQ4 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ5";tr 52 M=XQ5 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ6";tr 52 M=XQ6 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ7";tr 52 M=XQ7 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ8";tr 52 M=XQ8 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ9";tr 52 M=XQ9 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ10";tr 52 M=XQ10 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ11";tr 52 M=XQ11 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ12";tr 52 M=XQ12 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ13";tr 52 M=XQ13 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ14";tr 52 M=XQ14 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ15";tr 52 M=XQ15 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ16";tr 52 M=XQ16 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ17";tr 52 M=XQ17 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ18";tr 52 M=XQ18 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ19";tr 52 M=XQ19 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ20";tr 52 M=XQ20 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ21";tr 52 M=XQ21 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ22";tr 52 M=XQ22 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ23";tr 52 M=XQ23 IS=min IE=max; echo " Done"
echo "tr 52 M=XQ24";tr 52 M=XQ24 IS=min IE=max; echo " Done"

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
echo "tr 71 M=EGR_L3_NEXT_HOP"
tr 71 M=EGR_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_L3_INTF"
tr 71 M=EGR_L3_INTF S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_VLAN"
tr 71 M=EGR_VLAN S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_VLAN_STG"
tr 71 M=EGR_VLAN_STG S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
#echo "tr 71 M=EGR_IP_TUNNEL"
#tr 71 M=EGR_IP_TUNNEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=EGR_IM_MTP_INDEX"
tr 71 M=EGR_IM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_EM_MTP_INDEX"
tr 71 M=EGR_EM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=EGR_DSCP_TABLE"
#tr 71 M=EGR_DSCP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=EGR_DSCP_ECN_MAP"
#tr 71 M=EGR_DSCP_ECN_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=EGR_VLAN_XLATE"
tr 71 M=EGR_VLAN_XLATE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_VLAN_XLATE_ONLY"
tr 71 M=EGR_VLAN_XLATE_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_VLAN_XLATE_DATA_ONLY"
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGR_PRI_CNG_MAP"
tr 71 M=EGR_PRI_CNG_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=PORT"
tr 71 M=PORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=L3_TUNNEL"
#tr 71 M=L3_TUNNEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=SOURCE_TRUNK_MAP"
tr 71 M=SOURCE_TRUNK_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=UDF_OFFSET"
tr 71 M=UDF_OFFSET S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_PROTOCOL"
tr 71 M=VLAN_PROTOCOL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_PROTOCOL_DATA"
tr 71 M=VLAN_PROTOCOL_DATA S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_SUBNET"
tr 71 M=VLAN_SUBNET S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
echo "tr 71 M=VLAN_SUBNET_ONLY"
tr 71 M=VLAN_SUBNET_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_SUBNET_DATA_ONLY"
tr 71 M=VLAN_SUBNET_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_MAC"
tr 71 M=VLAN_MAC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_XLATE"
tr 71 M=VLAN_XLATE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_XLATE_ONLY"
tr 71 M=VLAN_XLATE_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_XLATE_DATA_ONLY"
tr 71 M=VLAN_XLATE_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=ING_PRI_CNG_MAP"
tr 71 M=ING_PRI_CNG_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN"
tr 71 M=VLAN S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_STG"
tr 71 M=VLAN_STG S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=VLAN_PROFILE"
tr 71 M=VLAN_PROFILE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_ENTRY"
tr 71 M=L2_ENTRY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_ENTRY_ONLY"
tr 71 M=L2_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_HITDA_ONLY"
tr 71 M=L2_HITDA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_HITSA_ONLY"
tr 71 M=L2_HITSA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_USER_ENTRY"
tr 71 M=L2_USER_ENTRY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_USER_ENTRY_ONLY"
tr 71 M=L2_USER_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY"
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2_MOD_FIFO"
tr 71 M=L2_MOD_FIFO S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=MAC_LIMIT_TRUNK_MAP_TABLE"
tr 71 M=MAC_LIMIT_TRUNK_MAP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=MAC_LIMIT_PORT_MAP_TABLE"
tr 71 M=MAC_LIMIT_PORT_MAP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=MAC_LIMIT_COUNT_TABLE"
tr 71 M=MAC_LIMIT_COUNT_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1"
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L2MC"
tr 71 M=L2MC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=L3_ENTRY_ONLY"
#tr 71 M=L3_ENTRY_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_ENTRY_IPV4_UNICAST"
#tr 71 M=L3_ENTRY_IPV4_UNICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST"
#tr 71 M=L3_ENTRY_IPV4_MULTICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_ENTRY_IPV6_UNICAST"
#tr 71 M=L3_ENTRY_IPV6_UNICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST"
#tr 71 M=L3_ENTRY_IPV6_MULTICAST S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_ENTRY_VALID_ONLY"
#tr 71 M=L3_ENTRY_VALID_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_IPMC"
#tr 71 M=L3_IPMC S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_DEFIP"
#tr 71 M=L3_DEFIP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=L3_DEFIP_ONLY"
#tr 71 M=L3_DEFIP_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
```

```
#echo "tr 71 M=L3_DEFIP_DATA_ONLY"
#tr 71 M=L3_DEFIP_DATA_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=INITIAL_L3_ECMP"
#tr 71 M=INITIAL_L3_ECMP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP"
#tr 71 M=INITIAL_ING_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=FP_PORT_FIELD_SEL"
tr 71 M=FP_PORT_FIELD_SEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=DSCP_TABLE"
tr 71 M=DSCP_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2"
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L3_ENTRY_HIT_ONLY"
tr 71 M=L3_ENTRY_HIT_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=L3_DEFIP_HIT_ONLY"
#tr 71 M=L3_DEFIP_HIT_ONLY S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=FP_RANGE_CHECK"
tr 71 M=FP_RANGE_CHECK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_SLICE_ENTRY_PORT_SEL"
tr 71 M=FP_SLICE_ENTRY_PORT_SEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_TCAM"
tr 71 M=FP_TCAM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=FP_SLICE_MAP"
#tr 71 M=FP_SLICE_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=FP_POLICY_TABLE"
tr 71 M=FP_POLICY_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_METER_TABLE"
tr 71 M=FP_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_COUNTER_TABLE"
tr 71 M=FP_COUNTER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_SC_METER_TABLE"
tr 71 M=FP_SC_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
echo "tr 71 M=FP_SC_BCAST_METER_TABLE"
tr 71 M=FP_SC_BCAST_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_SC_MCAST_METER_TABLE"
tr 71 M=FP_SC_MCAST_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=FP_SC_DLF_METER_TABLE"
tr 71 M=FP_SC_DLF_METER_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=L3_ECMP"
tr 71 M=L3_ECMP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=ING_L3_NEXT_HOP"
tr 71 M=ING_L3_NEXT_HOP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EGRESS_MASK"
tr 71 M=EGRESS_MASK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=TRUNK_GROUP"
tr 71 M=TRUNK_GROUP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=TRUNK_BITMAP"
tr 71 M=TRUNK_BITMAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=PORT_MAC_BLOCK"
tr 71 M=PORT_MAC_BLOCK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
#echo "tr 71 M=MODPORT_MAP"
#tr 71 M=MODPORT_MAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=MODPORT_MAP_SW"
#tr 71 M=MODPORT_MAP_SW S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=MODPORT_MAP_IM"
#tr 71 M=MODPORT_MAP_IM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=MODPORT_MAP_EM"
#tr 71 M=MODPORT_MAP_EM S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK"
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=IM_MTP_INDEX"
tr 71 M=IM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=EM_MTP_INDEX"
tr 71 M=EM_MTP_INDEX S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
#echo "tr 71 M=SRC_MODID_BLOCK"
#tr 71 M=SRC_MODID_BLOCK S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=PBI_DEBUG_TABLE"
#tr 71 M=PBI_DEBUG_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
#echo "tr 71 M=IPORT_TABLE"
#tr 71 M=IPORT_TABLE S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
#echo "DONE"
echo "tr 71 M=IFP_PORT_FIELD_SEL"
tr 71 M=IFP_PORT_FIELD_SEL S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA0"
tr 71 M=CBPDATA0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA1"
tr 71 M=CBPDATA1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA2"
tr 71 M=CBPDATA2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA3"
tr 71 M=CBPDATA3 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA4"
tr 71 M=CBPDATA4 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA5"
tr 71 M=CBPDATA5 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA6"
tr 71 M=CBPDATA6 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPDATA7"
tr 71 M=CBPDATA7 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPPKTHEADER0"
tr 71 M=CBPPKTHEADER0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPPKTHEADER1"
tr 71 M=CBPPKTHEADER1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CBPCELLHEADER"
tr 71 M=CBPCELLHEADER S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=CFAP"
tr 71 M=CFAP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
echo "tr 71 M=CCP"
tr 71 M=CCP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=AGING_CTR"
tr 71 M=AGING_CTR S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=AGING_EXP"
tr 71 M=AGING_EXP S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=MMU_MIN_BUCKET_GPORT"
tr 71 M=MMU_MIN_BUCKET_GPORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=MMU_MAX_BUCKET_GPORT"
tr 71 M=MMU_MAX_BUCKET_GPORT S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ0"
tr 71 M=XQ0 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ1"
tr 71 M=XQ1 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ2"
tr 71 M=XQ2 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ3"
tr 71 M=XQ3 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ4"
tr 71 M=XQ4 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ5"
tr 71 M=XQ5 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ6"
tr 71 M=XQ6 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ7"
tr 71 M=XQ7 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ8"
tr 71 M=XQ8 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ9"
tr 71 M=XQ9 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ10"
tr 71 M=XQ10 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
```

```
echo "tr 71 M=XQ11"
tr 71 M=XQ11 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ12"
tr 71 M=XQ12 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ13"
tr 71 M=XQ13 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ14"
tr 71 M=XQ14 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ15"
tr 71 M=XQ15 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ16"
tr 71 M=XQ16 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ17"
tr 71 M=XQ17 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ18"
tr 71 M=XQ18 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ19"
tr 71 M=XQ19 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ20"
tr 71 M=XQ20 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ21"
tr 71 M=XQ21 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ22"
tr 71 M=XQ22 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ23"
tr 71 M=XQ23 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
echo "DONE"
echo "tr 71 M=XQ24"
tr 71 M=XQ24 S=-1 C=-1 readonlymemVerifyCount=1 TSE=True;
set rct=true
echo "DONE"

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
```

```
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
```

```
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s $lbpbm ports"
tr 18 pbm=$lbpbm speed=10

echo "Testing MAC Loopback - 100 Mb/s $lbpbm ports"
tr 18 pbm=$lbpbm speed=100

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=$lbpbm speed=1000

echo "Testing MAC Loopback - MAX speed $lbpbm ports"
tr 18 pbm=$lbpbm speed=max

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s  $lbpbm ports"
tr 19 pbm=$lbpbm speed=10

echo "Testing PHY Loopback - 100 Mb/s $lbpbm ports"
tr 19 pbm=$lbpbm speed=100

echo "Testing PHY Loopback - 1000 Mb/s ge ports"
tr 19 pbm=$lbpbm speed=1000

echo "Testing PHY Loopback - MAX speed $lbpbm ports"
tr 19 pbm=$lbpbm speed=max

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=$lbpbm
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=$lbpbm
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single PBM=$lbpbm
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array PBM=$lbpbm

#Traffic Test
rcload rc.soc
echo "Running Traffic Test in MAC mode ..."
```

```
tr 72 RM=MAC PBM=$lbpbm speed=max
$done

echo "Running Traffic Test in PHY mode (MAX speed)..."
rcload rc.soc
tr 72 RM=PHY PBM=$lbpbm speed=max
$done

echo "Running Traffic Test in PHY mode (10Mbps)..."
rcload rc.soc
tr 72 RM=PHY pbm=$lbpbm speed=10
$done

echo "Running Traffic Test in PHY mode (100Mbps)..."
rcload rc.soc
tr 72 RM=PHY pbm=$lbpbm speed=100
$done

#echo "Running Traffic Test in EXTERNAL mode (MAX speed)..."
#rcload rc.soc
#tr 72 RM=ext PBM=$lbpbm speed=max
#$done

echo "SNMP MIB Object Test"
rcload rc.soc
tr 73

#External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10, 11-12
#       13-14, 15-16, 17-18, 19-20, 21-22 23-24
#       25-26, 27-28
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv ext2500 1
# or
#       setenv extall  1
#External Loopback on GE port
local fwd 0x002aaaaaaaaaaaa
local bwd 0x0015555555555554

if $?extall \
      "local ext10 1; local ext100 1; local ext1000 1; local ext2500 1"

if $?ext10 \
```

```
        "echo Testing External Loopback - 10 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=10 count=10; \
        echo Testing External Loopback - 10 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=10 count=10"

if $?ext100 \
        "echo Testing External Loopback - 100 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=100 count=10; \
        echo Testing External Loopback - 100 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=100 count=10"

if $?ext1000 \
        "echo Testing External Loopback - 1000 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
        echo Testing External Loopback - 1000 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hksanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_resmgr.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global resource allocator
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_resmgr.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_resmgr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmtdebugbank0Entry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmEmtdebugbank0Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* list.c: lists handling implementation
*
* Copyright (C) 2000 Gary Pennington and Daniel Veillard.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
* Author: Gary.Pennington@uk.sun.com
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/libxml/list.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_cnt.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_cnt.c
*
* MODULE PREFIX:  tmc
*
* FILE DESCRIPTION:
```

```
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56634_b0.c
* Purpose:     bcm56634_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56634_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.27.24.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 Port API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2uc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TR test for MBIST.
* The test has no CLI parameters. Simply call tr 505 from command line.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/mbist_cpu.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_y.i
* Purpose:    Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_y.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8706.c,v 1.126 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8706.c
* Purpose:    Phys Driver support for Broadcom 8706/8726 Serial 10Gig
*             transceiver with XAUI interface.
* Note:       To use this PHY driver, add phy_8706=1 config setting.
*             PHY probing doesn't detect 8706 because the device ID is
*             the same as 8705.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8706.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ip_route_tunnel_mpls_additional_labels.c,v 1.7 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ip_route_tunnel_mpls_additional_labels.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_dram.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_dram.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpCounter.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpCounter.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns_public.h 1187 2015-10-19 20:35:15Z kirand $ *
*                                                                                       *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
```

```
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/public/falcon_api_uc_vars_rdwr_defns_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbG2EplibTable.h  Logical Table Access Functions
*
* <pre>
* ==================================================
* ==  sbG2EplibTable.h - Logical Table Access Functions ==
* ==================================================
*
* WORKING REVISION: $Id: sbG2EplibTable.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbG2EplibTable.h
*
* ABSTRACT:
*
*      Logical Table Access Functions
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Josh Weissman
*
* CREATION DATE:
*
*     30-March-2005
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2EplibTable.h

No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpInstructionConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpInstructionConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600NmEmt_0_1EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_0_1EntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: linux-kernel-bde.c,v 1.414 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux Kernel BDE
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/kernel/linux-kernel-bde.c
No license file was found, but licenses were detected in source scan.

/* $Id: c3hppc_rce_test2.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_rce_test2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_err.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_err.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.15.24.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stg.c
* Purpose:     Spanning tree group support
*
* Multiple spanning trees (MST) is supported on this chipset
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls_lm_dm_sdk_pack.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/mpls_lm_dm_sdk_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84752_ucode.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/phy84752_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.127.18.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM-SBX Library Initialization
*
*   This module calls the initialization routine of each BCM module.
*
* Initial System Configuration
*
*   Each module should initialize itself without reference to other BCM
*   library modules to avoid a chicken-and-the-egg problem.  To do
*   this, each module should initialize its respective internal state
*   and hardware tables to match the Initial System Configuration.  The
*   Initial System Configuration is:
*
*   STG 1 containing VLAN 1
*   STG 1 all ports in the DISABLED state
*   VLAN 1 with
*     PBMP = all switching Ethernet ports (non-fabric) and the CPU.
*     UBMP = all switching Ethernet ports (non-fabric).
*   No trunks configured
*   No mirroring configured
*   All L2 and L3 tables empty
*   Ingress VLAN filtering disabled
*   BPDU reception enabled
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/init.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ip_tcam.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ARAD/ARAD_PP/include/arad_pp_frwrd_ip_tcam.h
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
```

```
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ip_tcam.h
No license file was found, but licenses were detected in source scan.

```
/*
* pcicfg.h: PCI configuration constants and structures.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: pcicfg.h,v 1.2 Broadcom SDK $
*/
/* Everything below is BRCM HND proprietary */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/pcicfg.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-48x1g-ilkn100.bcm,v 1.1.2.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 48x1G setup
#
ddr3_auto_tune=0
load_firmware=1
caladan3_etu_enable=0
#lrp_bypass=1

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1a

ucode_port.port48.0=xtport2.ge.0.11:il1.il100.0.47
ucode_port.port47.0=xtport2.ge.0.10:il1.il100.0.46
ucode_port.port46.0=xtport2.ge.0.9:il1.il100.0.45
ucode_port.port45.0=xtport2.ge.0.8:il1.il100.0.44
```

```
ucode_port.port44.0=xtport2.ge.0.7:il1.il100.0.43
ucode_port.port43.0=xtport2.ge.0.6:il1.il100.0.42
ucode_port.port42.0=xtport2.ge.0.5:il1.il100.0.41
ucode_port.port41.0=xtport2.ge.0.4:il1.il100.0.40
ucode_port.port40.0=xtport2.ge.0.3:il1.il100.0.39
ucode_port.port39.0=xtport2.ge.0.2:il1.il100.0.38
ucode_port.port38.0=xtport2.ge.0.1:il1.il100.0.37
ucode_port.port37.0=xtport2.ge.0.0:il1.il100.0.36
ucode_port.port36.0=xtport1.ge.0.11:il1.il100.0.35
ucode_port.port35.0=xtport1.ge.0.10:il1.il100.0.34
ucode_port.port34.0=xtport1.ge.0.9:il1.il100.0.33
ucode_port.port33.0=xtport1.ge.0.8:il1.il100.0.32
ucode_port.port32.0=xtport1.ge.0.7:il1.il100.0.31
ucode_port.port31.0=xtport1.ge.0.6:il1.il100.0.30
ucode_port.port30.0=xtport1.ge.0.5:il1.il100.0.29
ucode_port.port29.0=xtport1.ge.0.4:il1.il100.0.28
ucode_port.port28.0=xtport1.ge.0.3:il1.il100.0.27
ucode_port.port27.0=xtport1.ge.0.2:il1.il100.0.26
ucode_port.port26.0=xtport1.ge.0.1:il1.il100.0.25
ucode_port.port25.0=xtport1.ge.0.0:il1.il100.0.24
ucode_port.port24.0=xtport0.ge.0.11:il1.il100.0.23
ucode_port.port23.0=xtport0.ge.0.10:il1.il100.0.22
ucode_port.port22.0=xtport0.ge.0.9:il1.il100.0.21
ucode_port.port21.0=xtport0.ge.0.8:il1.il100.0.20
ucode_port.port20.0=xtport0.ge.0.7:il1.il100.0.19
ucode_port.port19.0=xtport0.ge.0.6:il1.il100.0.18
ucode_port.port18.0=xtport0.ge.0.5:il1.il100.0.17
ucode_port.port17.0=xtport0.ge.0.4:il1.il100.0.16
ucode_port.port16.0=xtport0.ge.0.3:il1.il100.0.15
ucode_port.port15.0=xtport0.ge.0.2:il1.il100.0.14
ucode_port.port14.0=xtport0.ge.0.1:il1.il100.0.13
ucode_port.port13.0=xtport0.ge.0.0:il1.il100.0.12
ucode_port.port12.0=clport0.ge.0.11:il1.il100.0.11
ucode_port.port11.0=clport0.ge.0.10:il1.il100.0.10
ucode_port.port10.0=clport0.ge.0.9:il1.il100.0.9
ucode_port.port9.0=clport0.ge.0.8:il1.il100.0.8
ucode_port.port8.0=clport0.ge.0.7:il1.il100.0.7
ucode_port.port7.0=clport0.ge.0.6:il1.il100.0.6
ucode_port.port6.0=clport0.ge.0.5:il1.il100.0.5
ucode_port.port5.0=clport0.ge.0.4:il1.il100.0.4
ucode_port.port4.0=clport0.ge.0.3:il1.il100.0.3
ucode_port.port3.0=clport0.ge.0.2:il1.il100.0.2
ucode_port.port2.0=clport0.ge.0.1:il1.il100.0.1
ucode_port.port1.0=clport0.ge.0.0:il1.il100.0.0
ucode_num_ports.0=48
```

```
higig2_hdr_mode_hg0=1


xgxs_rx_lane_map_ge0=0x1032
xgxs_rx_lane_map_ge8=0x1032
xgxs_rx_lane_map_ge16=0x3210
xgxs_rx_lane_map_ge24=0x3210
xgxs_rx_lane_map_ge32=0x1032
xgxs_rx_lane_map_ge40=0x1032

xgxs_tx_lane_map_ge0=0x3210
xgxs_tx_lane_map_ge7=0x3210
xgxs_tx_lane_map_ge16=0x1032
xgxs_tx_lane_map_ge24=0x1032
xgxs_tx_lane_map_ge32=0x3210
xgxs_tx_lane_map_ge40=0x3210

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

phy_xaui_rx_polarity_flip_ge0=0x0001
phy_xaui_rx_polarity_flip_ge1=0x0001
phy_xaui_rx_polarity_flip_ge2=0x0001
phy_xaui_rx_polarity_flip_ge3=0x0001
phy_xaui_rx_polarity_flip_ge4=0x0001
phy_xaui_rx_polarity_flip_ge5=0x0001
phy_xaui_rx_polarity_flip_ge6=0x0001
phy_xaui_rx_polarity_flip_ge7=0x0001
phy_xaui_rx_polarity_flip_ge8=0x0001
phy_xaui_rx_polarity_flip_ge9=0x0001
phy_xaui_rx_polarity_flip_ge10=0x0001
phy_xaui_rx_polarity_flip_ge11=0x0001

phy_xaui_rx_polarity_flip_ge12=0x0001
phy_xaui_rx_polarity_flip_ge13=0x0001
phy_xaui_rx_polarity_flip_ge14=0x0001
phy_xaui_rx_polarity_flip_ge15=0x0001
phy_xaui_rx_polarity_flip_ge16=0x0001
phy_xaui_rx_polarity_flip_ge17=0x0001
phy_xaui_rx_polarity_flip_ge18=0x0001
phy_xaui_rx_polarity_flip_ge19=0x0001
phy_xaui_rx_polarity_flip_ge20=0x0001
```

```
phy_xaui_rx_polarity_flip_ge21=0x0001
phy_xaui_rx_polarity_flip_ge22=0x0001
phy_xaui_rx_polarity_flip_ge23=0x0001

phy_xaui_rx_polarity_flip_ge24=0x0001
phy_xaui_rx_polarity_flip_ge25=0x0001
phy_xaui_rx_polarity_flip_ge26=0x0001
phy_xaui_rx_polarity_flip_ge27=0x0001
phy_xaui_rx_polarity_flip_ge28=0x0001
phy_xaui_rx_polarity_flip_ge29=0x0001
phy_xaui_rx_polarity_flip_ge30=0x0001
phy_xaui_rx_polarity_flip_ge31=0x0001
phy_xaui_rx_polarity_flip_ge32=0x0001
phy_xaui_rx_polarity_flip_ge33=0x0001
phy_xaui_rx_polarity_flip_ge34=0x0001
phy_xaui_rx_polarity_flip_ge35=0x0001

phy_xaui_rx_polarity_flip_ge36=0x0001
phy_xaui_rx_polarity_flip_ge37=0x0001
phy_xaui_rx_polarity_flip_ge38=0x0001
phy_xaui_rx_polarity_flip_ge39=0x0001
phy_xaui_rx_polarity_flip_ge40=0x0001
phy_xaui_rx_polarity_flip_ge41=0x0001
phy_xaui_rx_polarity_flip_ge42=0x0001
phy_xaui_rx_polarity_flip_ge43=0x0001
phy_xaui_rx_polarity_flip_ge44=0x0001
phy_xaui_rx_polarity_flip_ge45=0x0001
phy_xaui_rx_polarity_flip_ge46=0x0001
phy_xaui_rx_polarity_flip_ge47=0x0001


phy_fiber_pref_ge0=1
phy_fiber_pref_ge1=1

phy_fiber_pref_ge2=1
phy_fiber_pref_ge3=1
phy_fiber_pref_ge4=1
phy_fiber_pref_ge5=1
phy_fiber_pref_ge6=1
phy_fiber_pref_ge7=1
phy_fiber_pref_ge8=1
phy_fiber_pref_ge9=1
phy_fiber_pref_ge10=1
phy_fiber_pref_ge11=1
phy_fiber_pref_ge12=1
phy_fiber_pref_ge13=1
phy_fiber_pref_ge14=1
phy_fiber_pref_ge15=1
```

phy_fiber_pref_ge16=1
phy_fiber_pref_ge17=1
phy_fiber_pref_ge18=1
phy_fiber_pref_ge19=1
phy_fiber_pref_ge20=1
phy_fiber_pref_ge21=1
phy_fiber_pref_ge22=1
phy_fiber_pref_ge23=1
phy_fiber_pref_ge24=1
phy_fiber_pref_ge25=1
phy_fiber_pref_ge26=1
phy_fiber_pref_ge27=1
phy_fiber_pref_ge28=1
phy_fiber_pref_ge29=1
phy_fiber_pref_ge30=1
phy_fiber_pref_ge31=1
phy_fiber_pref_ge32=1
phy_fiber_pref_ge33=1
phy_fiber_pref_ge34=1
phy_fiber_pref_ge35=1
phy_fiber_pref_ge36=1
phy_fiber_pref_ge37=1
phy_fiber_pref_ge38=1
phy_fiber_pref_ge39=1
phy_fiber_pref_ge40=1
phy_fiber_pref_ge41=1
phy_fiber_pref_ge42=1
phy_fiber_pref_ge43=1
phy_fiber_pref_ge44=1
phy_fiber_pref_ge45=1
phy_fiber_pref_ge46=1
phy_fiber_pref_ge47=1

phy_automedium_ge1=1
phy_automedium_ge0=1
phy_automedium_ge2=1
phy_automedium_ge3=1
phy_automedium_ge4=1
phy_automedium_ge5=1
phy_automedium_ge6=1
phy_automedium_ge7=1
phy_automedium_ge8=1
phy_automedium_ge9=1
phy_automedium_ge10=1
phy_automedium_ge11=1
phy_automedium_ge12=1
phy_automedium_ge13=1
phy_automedium_ge14=1

phy_automedium_ge15=1
phy_automedium_ge16=1
phy_automedium_ge17=1
phy_automedium_ge18=1
phy_automedium_ge19=1
phy_automedium_ge20=1
phy_automedium_ge21=1
phy_automedium_ge22=1
phy_automedium_ge23=1
phy_automedium_ge24=1
phy_automedium_ge25=1
phy_automedium_ge26=1
phy_automedium_ge27=1
phy_automedium_ge28=1
phy_automedium_ge29=1
phy_automedium_ge30=1
phy_automedium_ge31=1
phy_automedium_ge32=1
phy_automedium_ge33=1
phy_automedium_ge34=1
phy_automedium_ge35=1
phy_automedium_ge36=1
phy_automedium_ge37=1
phy_automedium_ge38=1
phy_automedium_ge39=1
phy_automedium_ge40=1
phy_automedium_ge41=1
phy_automedium_ge42=1
phy_automedium_ge43=1
phy_automedium_ge44=1
phy_automedium_ge45=1
phy_automedium_ge46=1
phy_automedium_ge47=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004
phy_port_primary_and_offset_ge5=0x0005
phy_port_primary_and_offset_ge6=0x0006
phy_port_primary_and_offset_ge7=0x0007
phy_port_primary_and_offset_ge8=0x0800
phy_port_primary_and_offset_ge9=0x0801
phy_port_primary_and_offset_ge10=0x0802
phy_port_primary_and_offset_ge11=0x0803
phy_port_primary_and_offset_ge12=0x0804
phy_port_primary_and_offset_ge13=0x0805
phy_port_primary_and_offset_ge14=0x0806

```
phy_port_primary_and_offset_ge15=0x0807
phy_port_primary_and_offset_ge16=0x1000
phy_port_primary_and_offset_ge17=0x1001
phy_port_primary_and_offset_ge18=0x1002
phy_port_primary_and_offset_ge19=0x1003
phy_port_primary_and_offset_ge20=0x1004
phy_port_primary_and_offset_ge21=0x1005
phy_port_primary_and_offset_ge22=0x1006
phy_port_primary_and_offset_ge23=0x1007
phy_port_primary_and_offset_ge24=0x1800
phy_port_primary_and_offset_ge25=0x1801
phy_port_primary_and_offset_ge26=0x1802
phy_port_primary_and_offset_ge27=0x1803
phy_port_primary_and_offset_ge28=0x1804
phy_port_primary_and_offset_ge29=0x1805
phy_port_primary_and_offset_ge30=0x1806
phy_port_primary_and_offset_ge31=0x1807
phy_port_primary_and_offset_ge32=0x2000
phy_port_primary_and_offset_ge33=0x2001
phy_port_primary_and_offset_ge34=0x2002
phy_port_primary_and_offset_ge35=0x2003
phy_port_primary_and_offset_ge36=0x2004
phy_port_primary_and_offset_ge37=0x2005
phy_port_primary_and_offset_ge38=0x2006
phy_port_primary_and_offset_ge39=0x2007
phy_port_primary_and_offset_ge40=0x2800
phy_port_primary_and_offset_ge41=0x2801
phy_port_primary_and_offset_ge42=0x2802
phy_port_primary_and_offset_ge43=0x2803
phy_port_primary_and_offset_ge44=0x2804
phy_port_primary_and_offset_ge45=0x2805
phy_port_primary_and_offset_ge46=0x2806
phy_port_primary_and_offset_ge47=0x2807

#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

ddr3_tune_addrc_ci14=0x000000b5
ddr3_tune_wr_dq_wl1_ci14=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci14=0x96969696,0x96969696,0x95959595,0x95959595
```

```
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x0000079e
ddr3_tune_rd_dqs_ci14=0x9a9a9898,0x97979a9a
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rn_ci14=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rp_ci14=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00999999,0x009b9c9b
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b5
ddr3_tune_wr_dq_wl1_ci12=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci12=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x99999999,0x9a9a9898
ddr3_tune_rd_dq_wl1_rn_ci12=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009c9c9d,0x00989997
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000b2
ddr3_tune_wr_dq_wl1_ci10=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci10=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x0000079e
ddr3_tune_rd_dqs_ci10=0x97979a9a,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10=0x00a6a6a6,0x00a2a4a1
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b4
ddr3_tune_wr_dq_wl1_ci8=0x95959595,0x95959595,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9595,0x97979999
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci8=0x00999a98,0x009d9e9d
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b5
ddr3_tune_wr_dq_wl1_ci6=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x95959595,0x95959595,0x96969696,0x96969696
```

```
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x000007df
ddr3_tune_rd_dqs_ci6=0x99999696,0x9b9b9999
ddr3_tune_rd_dq_wl1_rn_ci6=0x8a8a8a8a,0x8a8a8a8a,0x8e8e8e8e,0x8e8e8e8e
ddr3_tune_rd_dq_wl0_rn_ci6=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6=0x8a8a8a8a,0x8a8a8a8a,0x8e8e8e8e,0x8e8e8e8e
ddr3_tune_rd_dq_wl0_rp_ci6=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci6=0x009b9c9b,0x00989997
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b5
ddr3_tune_wr_dq_wl1_ci4=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci4=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x97979999,0x99999898
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci4=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci4=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci4=0x009e9e9f,0x009b9d9a
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b5
ddr3_tune_wr_dq_wl1_ci2=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci2=0x96969696,0x96969696,0x95959595,0x95959595
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x0000079e
ddr3_tune_rd_dqs_ci2=0x98989999,0x9b9b9a9a
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci2=0x00a3a3a3,0x00a7a9a6
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b5
ddr3_tune_wr_dq_wl1_ci0=0x95959595,0x95959595,0x96969696,0x96969696
ddr3_tune_wr_dq_wl0_ci0=0x97979797,0x97979797,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x0000079e
ddr3_tune_rd_dqs_ci0=0x94949595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a5a5a6,0x00a1a2a1
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-

48x1g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_regs.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_regs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_ports.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_ports.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************

Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:

File Name:
   ag_basic_types.h

File Description:

$Revision: 1.1.2.1 $ - Visual SourceSafe revision number

History:
   Date          Name          Comment
   ----          ----          -------
   12/18/2002
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_basic_types.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_ce_instruction.h,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_ce_instruction.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_multicast_ingress.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_multicast_ingress.h
*
* MODULE PREFIX:  soc_tmcmult_ing
*
* FILE DESCRIPTION: Ingress Multicast refers to the act of replication at
*                   the ingress.
*                   This file holds the API functions and Structures
*                   which implement the egress multicast.
*                   The file contains the standard get/set, clear and print
*                   for configuration. This file also contains dynamic
*                   configuration of multicast groups (open. close, update
*                   and more).
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_multicast_ingress.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_nif_prd.c
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_nif_prd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM Link Scan Module
*
* Linkscan should always run for all chips in a system. It manages
* the current chip LINK state (EPC_LINK or equivalent), and programs
* MACs to match auto-negotiated links.
*
* Linkscan is also responsible for determining the link up/down
* status for a port. Since link down events signaled by most PHYs are
* latched low and cleared on read, it is important that accesses to
* to the PHY itself be managed carefully. Linkscan is intended to be
* the only process that reads the actual PHY (using
* _bcm_port_link_get). All other calls to retrieve link status
* results in calls to _bcm_link_get which returns the linkscan view
* of the link status. This ensures linkscan is the only process that
* reads the actual PHYs.
*
* All modifications to the linkscan state are protected by LS_LOCK.
*
* Linkscan maintains the following port bitmaps
*
*     pbm_link:
*             Current physical link up/down status. When a bit
*             in this mask is set, a link up or link down event
*             is recognized and signaled to any registered
*             handlers.
*
*     pbm_link_change:
*             Mask of ports that need to recognize a link
*             down event. Ports are added to this mask by the
*             function bcm_link_change.
*
```

```
*     pbm_override_ports:
*             Bitmap of ports that are currently
*             being explicitly set to a value. These actual value
*             is determined by pbm_override_link. Ports are
*             added and removed from this mode by the routine
*             _bcm_link_force.
*
*             Ports that are forced to an UP state do NOT result
*             in a call to bcm_port_update. It is the
*             responsibility of the caller to configure the
*             correct MAC and PHY state.
*
*     pbm_override_link:
*             Bitmap indicating the link-up/link-down
*             status for those ports with override set.
*
*     pbm_sgmii_autoneg:
*             Bitmap of the port that is configured in SGMII
*             autoneg mode based on spn_PHY_SGMII_AUTONEG.
*             Maintaining this bitmap avoids the overhead
*             of the soc_property_port_get call.
*
*     pbm_remote_fault:
*             Bit map indicating the fault (local or remote) status of
*             a link-up port.
*
* Calls to _bcm_link_get always returns the current status as
* indicated by pbm_link.
*
* NOTE:
* Original file is src/bcm/esw/link.c, version 1.49.
* That file should eventually be removed, and XGS specific code
* should be placed in corresponding routines to be attached to the
* 'driver' in 'link_control' during module initialization
* 'soc_linkctrl_init()'.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: re_report.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bregex.c
```

```
* Purpose:    Regex Eevent notification API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/re_report.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmrangemgr2.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/nlmrangemgr/nlmrangemgr2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_arad_tbl_access.c,v 1.186 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_tbl_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 COSQ H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_cosq.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
```

```
*                                                                    *
*  Revision      :  $Id: phy8806x_tsc_common.h 1266 2015-11-20 13:18:43Z kirand $ *
*                                                                    *
*  Description   :  Defines and Enumerations required by Serdes APIs          *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                        *
*     Broadcom Corporation                                            *
*     5300 California Avenue                                          *
*     Irvine, CA  92617                                              *
*                                                                    *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pci.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PCI memory and configuration space routines.
*
* Under Solaris, these routines call the verinet model PLI simulation.
* All PCI operations are performed talking over a socket to the model.
*
* NOTE: the base address used in this file is opaque. This means that
* the PCI device must first have its base-address programmed by
* writing the start offset to PCI configuration offset 0x10.
* Writes to the memory space afterwards requires the address to be
* based on the base-address plus the offset to the desire register
* to be accessed.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/pci.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_ilm.c,v 1.10 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_ilm.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_ilm.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56224_a0.c
* Purpose:     bcm56224_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56224_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: cint_jer_fc_coe_config_example.c
*
```

```
* Background:
*     Jericho can map flow control indications in COE FC packet to in-band FC vector.
*     The FC vector will be processed similar to ILKN Rx OOB or ILKN RX in-band.
*
* Purpose:
*     Example of COE flow control(FC) configration.
*
* Service Model:
*     coe pp port(COE VID)<-----vlan 100-----> Local port
*         4        11                    20
*         8        12                    20
*
*       FC indication          Calendar index                    Related traffic
*     PFC_0 with VID 11 => Calendar  7(3 + channel_id(in pp port 4)) => priority 0 traffic on port 4
*     PFC_1 with VID 11 => Calendar  6(2 + channel_id(in pp port 4)) => priority 1 traffic on port 4
*     PFC_0 with VID 12 => Calendar 11(3 + channel_id(in pp port 8)) => priority 0 traffic on port 4
*     PFC_1 with VID 12 => Calendar 10(2 + channel_id(in pp port 8)) => priority 1 traffic on port 4
*
* To set port extender type between COE and regular port.
*   1. Add below SOC properties:
*     custom_feature_map_port_extr_enabled.BCM88675=2
*     ucode_port_4.BCM88375_A0=10GBase-R66.0:core_0.4
*     ucode_port_8.BCM88375_A0=10GBase-R66.1:core_0.8
*     ucode_port_20.BCM88375_A0=10GBase-R69:core_0.20
*   2. Run below
*     BCM> cint examples/dpp/cint_port_extender_dynamic_switching.c
*     BCM> cint
*     cint> print port_extender_dynamic_swithing_coe_info_init(0, 4, 11, 4);
*     cint> print port_extender_dynamic_swithing_coe_info_init(0, 8, 12, 4);
*     cint> print port_extender_dynamic_swithing_coe_vlan_init(100, 20);
*     cint> print port_extender_dynamic_swithing_coe_service(unit);
*
* To drop FC packet, run:
*     BCM> cint examples/dpp/cint_jer_fc_coe_config_example.c
*     BCM> cint
*     cint> print cint_jer_coe_fc_packet_drop_set_example(0);
*
* To enable COE PFC and set COE PFC packet format, run:
*   1. Add below SOC properties to enable COE PFC:
*     fc_intlkn_indication_invert.port1.oob_rx=1
*     fc_oob_type.port1=4
*     fc_oob_mode.port1=0x1
*     fc_oob_calender_length.port1.rx=256
*     fc_calendar_coe_mode=PFC
*     fc_calendar_pause_resolution=1
*     ext_voltage_mode_oob=3.3V
*     bcm886xx_pdm_mode.BCM88375=1
*     fc_oob_calender_rep_count=1
```

```
*   2. Add below SOC properties to set COE PFC packet format:
*     fc_coe_mac_address=01:80:C2:00:00:01
*     fc_coe_ethertype=0x8808
*     fc_coe_data_offset=4
*
* To map FC indication in COE PFC packet to stop a port priority traffic, run:
*     BCM> cint examples/dpp/cint_jer_fc_coe_config_example.c
*     BCM> cint
*     cint> print cint_jer_test_coe_fc_pfc_rec_set_example(/*unit*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_jer_fc_coe_config_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_operators.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_operators.c
* Purpose:     CINT operator functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_operators.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* QoS initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fcoe.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/fcoe.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: srds_api_uc_common_public.h 977 2015-03-19 02:24:29Z kirand $  *
*                                                                             *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*     Broadcom Corporation                                                    *
*     5300 California Avenue                                                  *
*     Irvine, CA  92617                                                       *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: xapi_ref.h
* Purpose: BCMX API routines reference
* Generator: mkdispatch 1.51
* Generated: Mon Oct 15 09:04:23 2012
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/api_ref.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
* : temod16_enum_defines.h,
* : n *
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
*-----------------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------------
* Description: This file contains enums, elems, and doxygen comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------------
*/
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_enum_defines.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_enum_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* OS Abstraction Layer for Switch Management API subsystem.
* $Id: osl_vxworks.c,v 1.3 2007/10/08 22:31:11 iakramov Exp $
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
```

```
*  permission of Broadcom Corporation.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/osl_vxworks.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pp.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/pp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nh_tx.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       nh_tx.c
* Purpose:     Next hop transport services
* Requires:
* Notes:
*    A per-stack port transport pointer is supported.  This is
*    primarily for supporting communication on Linux between the
*    kernel and user modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/nh_tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mos_msg_common.h,v 1.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mos_msg_common.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mos_msg_common.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_evb_example.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_evb_example.c
* Purpose: Edge Virtual Bridge (defined in 802.1Qbg) describes device and protocols
* connecting between End Stations (VMs) and the Data centers network.
* In this example we focus on VM switching.
*
*
~~~
```

```
* |      |                    | A  B  C  D  E  F |                        |      |
* |      |                    | S-VLAN componenet |                        |      |
* |      |                    ---------------------                        |      |
* |      -------------------------------------|||-----------------------------------------      |
* |                                  |                                    |
* |                                  |(UAP)                                |
* |      -------------------------------------|||-----------------------------------------      |
* |      | EVB Bridge              ---------------------      \ - V3 (C,D,E,F)        |      |
* |      |                    | A  B  C  D  E  F |      / - V1 (A)            |      |
* |      |                    | S-VLAN componenet |      | - V2 (B,C,D,E,F)      |      |
* |      |                    ---------------------                        |      |
* |      |                      / |  |\ |\ |\ |\                          |      |
* |      |                     /   |  |\ |\ |\ |\                          |      |
* |      |                    /    |  |\ |\ |\ |\                          |      |
* |      |                   /     ||||\\\\\\\\\\\\\\\\                    |      |
* |      |                  /                  |          \                |      |
* |      |                 +--------+          |          \                |      |
* |      |                /       /|       +--------+      +--------+         |      |
* |      |               +--------+ |       /       /|    /       /|         |      |
* |      |               |  V1    | |      +--------+ |    +--------+ |         |      |
* |      |               |C-VLAN  |/       |  V2    | |    |  V3    | |         |      |
* |      |               +--------+        |C-VLAN  |/     |C-VLAN  |/          |      |
* |      |                   |           +--------+      +--------+           |      |
* |      |                    \           /                /             |      |
* |      |                     ----------------------------------             |      |
* |      |                            |                                |      |
* |      |                            |                                |      |
* |      |                            |                                |      |
* |      |-------------------------------------|||-------------------------------------|      |
* |                                   (Bridge)                                |
* |                                                                          |
* |                                                                          |
* |                        +~~~~~~~~~~~~~~~~~~~~~~+                                |
* |                        | Figure : EVB Model |                                |
*
~~~~~~~~~~~~~~~~~~~
```

```
*      S-channel EVB bridge identify it as ER-G.
*      * ER-G, ER-A are connected to Initial-C-VLAN (3 in our example).
*
*  Notes:
*  1. In this cint example we assume VSI = C-VLAN component for simplicity. User can set different mappings.
*  2. Current version use bcmPortClassFieldIngressPacketProcessing in order to set VEB / VEPA per Logical-
Interface.
*  On next version a new sequence will be introduced to do that.
*
*  Main settings:
*  1. Configure the device as an EVB bridge (soc properties) evb_enable=1.
*  2. Configure port to be EVB Uplink access port (set_uplink_port example function below).
*  3. Create ERs (virtual ports vlan_port_create example function below).
*  4. Set ER Reflective Relay VEB/VEPA. (reflective_relay_set example function below).
*  5. Add ERs to VSI, Configure multicast group including ERs (vswitch_add_port example function).
*  6. ARAD workaround FP: enable same-interface filter (learn_data_rebuild_example example function).
*
*
*  How-to-run:
*  Define the following SOC properties:
*   - evb_enable=1
*   - logical_port_drop=1   (logical port drop LIF-ID 1 )
*
  cint src/examples/dpp/utility/cint_utils_global.c
  cint src/examples/dpp/cint_port_tpid.c
  cint src/examples/dpp/cint_vswitch_metro_mp.c
  cint src/examples/dpp/cint_field_learn_data_rebuild.c
  cint src/examples/dpp/cint_evb_example.c
  cint
  int unit = 0;
  int uplink_port = 13;
  int bridge_port = 14;
  main_evb_example(unit, uplink_port, bridge_port);
*
*  Traffic examples:
*  1.  VEB Unknown Unicast / Unknown Multicast / Broadcast traffic example :
*      - The EVB station receive packet from VM3 with C-VLAN 4. Packet is unknown.
*      - ER-E floods one member to VM4 (locally connected) since VM4 is a member of C-VLAN 4.
*      - ER-E forwards one copy of the packet to other members by sending the packet to the EVB bridge with S-
channel 6 (ER-E S-channel)
*      - Packet enters BCM886xx (The EVB Bridge) with S-channel 6 and C-VLAN 4.
*      - The EVB bridge floods the packet to all C-VLAN 4 ERs members which are : ER-B,ER-C,ER-D,ER-F and to
the network. Packet is learnt.
*      - ER-A has no C-VLAN 4 bridge members and ER-E is the source ER, hence both ERs do not receive a copy
*      - The EVB Station replicate copies for example: ER-F replicates a copy per VM5 and VM6.
*  Traffic example:
*      - From UAP port:
*              -   ethernet header with any DA , SA 00:00:00:00:00:05
```

```
*           -   VLAN tags: VLAN tag type 0x8100, VID = 6 (S-channel). tag type 0x9100, VID 4 (C-VLAN)
*     - Expect on UAP port:
*           -   4 copies same DA and SA as original packet. All packets receive also C-VLAN (as inner vlan) tag type
0x9100, VID 4 (C-VLAN)
*              - ER-B reprenset by VLAN-tag type 0x8100, VID = 3     (outer vlan)
*              - ER-C reprenset by VLAN-tag type 0x8100, VID = 4     (outer vlan)
*              - ER-D reprenset by VLAN-tag type 0x8100, VID = 5     (outer vlan)
*              - ER-F reprenset by VLAN-tag type 0x8100, VID = 4095  (outer vlan)
*     - Expect on Bridge port:
*           -   1 copy same DA and SA as original packet. VLAN tags: tag type 0x9100, VID 4 (C-VLAN)
*
*  2.  VEB Unicast traffic to VEB example ER-B => ER-E:
*     - Assuming stage 1 is done packet is learnt. packet SA 5 VLAN-Port of ER-E, C-VLAN4.
*     - Send packet from VM-0 C-VLAN 4 to VM-3 C-VLAN 4. Sending actually from ER-B to ER-E.
*     - ER-B send packet received from VM0 to the EVB bridge
*     - The EVB Bridge sends the packet to ER-E.
*     - ER-E directs the packet to the final destination - VM3.
*  Traffic example:
*     - From UAP port:
*           -   ethernet header with DA 00:00:00:00:00:05, any SA
*           -   VLAN tags: VLAN tag type 0x8100, VID = 3 (S-channel ER-B). tag type 0x9100, VID 4 (C-VLAN)
*     - Expect on UAP port:
*           -   1 copy same DA and SA as original packet.
*           -   VLAN tags: VLAN tag type 0x8100, VID = 6 (S-channel ER-E). tag type 0x9100, VID 4 (C-VLAN)

*     Note: Sending packet from VEB ER-E to ER-E will be dropped (Send packet with S-channel 6)
*
*  3.  Network Unicast traffic to VEB example :
*     - Assuming stage 1 is done, packet is learnt. packet SA 5 VLAN-Port of ER-E, C-VLAN4.
*     - Send packet from network C-VLAN 4 to VM-3 C-VLAN 4. Sending actually from Network to ER-E.
*     - The EVB Bridge sends the packet to ER-E.
*     - ER-E directs the packet to the final destination - VM3.
*  Traffic example:
*     - From Network port:
*           -   ethernet header with DA 00:00:00:00:00:05, any SA
*           -   VLAN tags: VLAN tag type 0x9100, VID 4 (C-VLAN)
*     - Expect on UAP port:
*           -   1 copy same DA and SA as original packet.
*           -   VLAN tags: VLAN tag type 0x8100, VID = 6 (S-channel ER-E). tag type 0x9100, VID 4 (C-VLAN)

*
*  4.  VEPA unknown Unicast / Multicast / Broadcast traffic example:
*     - The EVB station receive packet from VM5 with C-VLAN 5. Packet is unknown.
*     - ER-F forwards one copy of the packet to other members by sending the packet to the EVB bridge with S-
channel 4095 (ER-F S-channel)
*     - Packet enters BCM886xx (The EVB Bridge) with S-channel 4095 and C-VLAN 5.
*     - The EVB bridge floods the packet to all C-VLAN 5 ERs members which are : ER-C,ER-D,ER-E,ER-F, and
to the network. Packet is learnt.
```

```
*     - ER-A , ER-B have no C-VLAN 4 bridge members. Note ER-F receieve packet since ER type is VEPA.
*     - The EVB Station replicate copies for example: ER-C replicates a copy to VM1.
*  Traffic example:
*     - From UAP port:
*           -   ethernet header with any DA , SA 00:00:00:00:00:07
*           -   VLAN tags: VLAN tag type 0x8100, VID = 4095 (S-channel). tag type 0x9100, VID 5 (C-VLAN)
*     - Expect on UAP port:
*           -   4 copies same DA and SA as original packet. All packets receive also C-VLAN (as inner vlan) tag type
0x9100, VID 5 (C-VLAN)
*              - ER-C reprenset by VLAN-tag type 0x8100, VID = 4     (outer vlan)
*              - ER-D reprenset by VLAN-tag type 0x8100, VID = 5     (outer vlan)
*              - ER-E reprenset by VLAN-tag type 0x8100, VID = 6     (outer vlan)
*              - ER-F reprenset by VLAN-tag type 0x8100, VID = 4095  (outer vlan)
*     - Expect on Bridge port:
*           -   1 copy same DA and SA as original packet. VLAN tags: tag type 0x9100, VID 5 (C-VLAN)
*
*  5. VEPA to VEPA Unicast traffic example ER-F => ER-F:
*     - Assuming stage 4 is done packet is learnt. packet SA 7 VLAN-Port of ER-F, C-VLAN5.
*     - Send packet from VM-5 C-VLAN 5 to VM-6 C-VLAN 5. Sending actually from ER-F to ER-F.
*     - ER-F send packet received from VM5 to the EVB bridge
*     - The EVB Bridge sends the packet back to ER-F.
*     - ER-F directs the packet to the final destination - VM3.
*  Traffic example:
*     - From UAP port:
*           -   ethernet header with DA 00:00:00:00:00:07, any SA
*           -   VLAN tags: VLAN tag type 0x8100, VID = 4095 (S-channel ER-F). tag type 0x9100, VID 5 (C-
VLAN)
*     - Expect on UAP port:
*           -   1 copy same DA and SA as original packet.
*           -   VLAN tags: VLAN tag type 0x8100, VID = 4095 (S-channel ER-F). tag type 0x9100, VID 5 (C-
VLAN)
*
*
*  6. VEPA/VEB special cases example (in the special cases we used VEB ER):
*  Special case 1:
*  S-channel exist but no C-VLAN. Send from ER-A without C-VLAN.
*     - VEB ER-A forwards the packet to the EVB bridge with no C-tag.
*     - The EVB bridge runs initial C-VLAN procedure.
*     - The EVB bridge sends the packet to ER-G untagged and Bridge port.
*     - Packet is learnt.
*     - Bridge port forwards the packet to the EVB bridge.
*     - The EVB bridge sends the packet to ER-A with S-channel but untagged.
*  Traffic example (1):
*     - From UAP port:
*           -   ethernet header with SA 00:00:00:00:01:00, any DA
*           -   VLAN tags: VLAN tag type 0x8100, VID = 2 (S-channel ER-A).
*     - Expect on UAP port:
*           -   1 copy same DA and SA as original packet.
```

```
*           - VLAN tags: untaggged (ER-G)
*     - Expect on Bridge port:
*           - 1 copy same DA and SA as original packet.
*           - VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN)
*  Traffic example (2):
*     - From Bridge port:
*           - ethernet header with any SA, DA 00:00:00:00:01:00
*           - VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN).
*     - Expect on UAP port:
*           - 1 copy same DA and SA as original packet.
*           - VLAN tags: VLAN tag type 0x8100, VID = 2 (S-channel ER-A).
*
*  Special case 2:
*  No S-channel. ER-G send without S-chanel but with C-tag.
*     - VEB ER-G forwards the packet to the EVB bridge with only C-VLAN.
*     - The EVB bridge includes it in the member of default S-channel for port.
*     - The EVB bridge sends the packet to ER-A with S-channel and no C-VLAN, and to Bridge port with C-
VLAN.
*     - Packet is learnt.
*     - VEB ER-A forwards the packet to the EVB bridge.
*     - The EVB bridge sends the packet to ER-G without S-channel and no C-tag (since it is initial-C-VLAN).
*  Traffic example (1):
*     - From UAP port:
*           - ethernet header with SA 00:00:00:00:02:00, any DA
*           - VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN).
*     - Expect on UAP port:
*           - 1 copy same DA and SA as original packet.
*           - VLAN tags: VLAN tag type 0x8100, VID = 2 (S-channel ER-A) with no C-tag.
*     - Expect on Bridge port:
*           - 1 copy same DA and SA as original packet.
*           - VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN)
*  Traffic example (2):
*     - From UAP port:
*           - ethernet header with any SA, DA 00:00:00:00:02:00
*           - VLAN tags: VLAN tag type 0x8100 VID = 2 (S-channel ER-A) , VLAN tag type 0x9100, VID = 3
(Initial-C-VLAN).
*     - Expect on UAP port:
*           - 1 copy same DA and SA as original packet.
*           - VLAN tags: untagged (ER-G Initial-C-VID 3).
*
*  Special case 3:
*  No S-channel, No C-VLAN. Send from ER-G untagged.
*     - VEB ER-G forwards the packet to the EVB bridge without S-channel and no C-tag.
*     - The EVB bridge includes it in the member of default S-channel for port.
*     - The EVB bridge runs initial C-VLAN procedure.
*     - Packet is learnt.
*     - Bridge port forwards the packet to the EVB bridge.
*     - The EVB bridge sends the packet to ER-G without S-channel and no C-tag (untagged packet).
```

```
*  Traffic example (1):
*     - From UAP port:
*           -  ethernet header with AA 00:00:00:00:03:00, any DA
*           -  VLAN tags: untagged
*     - Expect on UAP port:
*           -  1 copy same DA and SA as original packet.
*           -  VLAN tags: VLAN tag type 0x8100, VID = 2 (S-channel ER-A) with no C-tag.
*     - Expect on Bridge port:
*           -  1 copy same DA and SA as original packet.
*           -  VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN)
*  Traffic example (2):
*     - From Bridge port:
*           -  ethernet header with any SA, DA 00:00:00:00:03:00
*           -  VLAN tags: VLAN tag type 0x9100, VID = 3 (Initial-C-VLAN).
*     - Expect on UAP port:
*           -  1 copy same DA and SA as original packet.
*           -  VLAN tags: untagged
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_evb_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: instr.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       instrumentation.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/instrumentation.h
No license file was found, but licenses were detected in source scan.

```
# $Id: vosanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"
rcload robo.soc
counter off
l2mode off
```

```
# We need to print out port status since any cabling effects results.
0:ps


local done 'echo "   Done"'



# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
ver
soc

# Tests Start Here
echo Running CPU benchmarks ...
tr 21
$done

echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
$done

#Internal snake Loopback
echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy pbm=fe
$done

#Packet TX tests
echo "Running Packet TX Performance test..."
tr 40 pbm=fe
$done

#Packet RX tests
echo "Running Packet RX Performance test..."
```

```
tr 41
$done

#--------- PHY Loopback V2 ---------
echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=fe
$done

#Traffic Test
echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY pbm=fe
$done

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload robo.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/vosanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shmoo_combo28.c,v 1.1.2.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DDR4 & GDDR5 Memory Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/shmoo_combo28.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_diags_c.stg,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cop.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_cop_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcAlarmProcess.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcAlarmProcess.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/CtcAlarmProcess.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 1357 2016-02-22 17:34:25Z kirand $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                        *
*                                                        *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/common2/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_p.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_p.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpCrTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpCrTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgs3.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgs3.h
* Purpose:    Definitions for XGS3 systems.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/xgs3.h
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
#* $Id: xfi_10g_pmd_gloop_10p3125.soc $
#* $Copyright: (c) 2016 Broadcom.
#* Broadcom Proprietary and Confidential. All rights reserved.$
#*
#* Broadcom Corporation
#* Proprietary and Confidential information
#* All rights reserved
#* This source file is the property of Broadcom Corporation, and
#* may not be copied or distributed in any isomorphic form without the
#* prior written consent of Broadcom Corporation.
#*----------------------------------------------------------------------
#* File       : xfi_10g_pmd_gloop_10p3125.soc
#* Description: xfi_10g_pmd_gloop_10p3125
#*----------------------------------------------------------------------*/

# reg_name=Reg_tsc_pmd_x1_control, dev_adr=0, reg_adr=0x1089010, reg_width=0x10, reg_data=0x3
#core/dp and core power release
local port 0xb1
local portV xe1

phy $portV 0x9010 0x0000

sleep 1;
phy $portV 0x9010 0x0003
phy $portV 0x9010

# reg_name=Reg_tsc_pmd_x4_control, dev_adr=0, reg_adr=0x108c010, reg_width=0x10, reg_data=0x0
#x4 reset release
phy $portV 0x6c010 0x0000
phy $portV 0x6c010 0x0003
phy $portV 0xc010

# ln_dp_s_rstb release, reg_adr=0x908d081 reg_data=0x2
phy $portV 0x806d081 0x0002
phy $portV 0x806d081
```

```
# core_dp_s_rstb = 1, heartbeat_count_1us = 0x271, reg_adr=0x908d0f4 reg_data=0x2000
phy $portV 0x806d0f4 0x2271
phy $portV 0xd0f4

# 0xr_mode_frc = 1, reg_adr=0x908d080 reg_data=0x8000
phy $portV 0x806d080 0x8000
phy $portV 0x806d080

# pll_mode = a, reg_adr=0x908d127 reg_data=0xa
phy raw sbus $port 1.0 0xd127 0x000a
phy raw sbus $port 1.0 0xd127

# reg_name=Reg_tsc_main0_setup, dev_adr=0, reg_adr=0x1089000, reg_width=0x10, reg_data=0x6400
# phy raw sbus $port 0.0 0x9000 0x6400
phy raw sbus $port 0.0 0x9000 0x6440
phy raw sbus $port 0.0 0x9000

# release RXP reset ??, reg_name=Reg_tsc_rx_x4_control0_pma_control_0, dev_adr=0, reg_adr=0x108c137,
reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc137 0x0001
phy raw sbus $port 0.0 0xc137

# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc113 0xa1c4
phy raw sbus $port 0.0 0xc113

# Default value is not ok TX_X2_CONTROL0_MLD_SWAP_COUNT
phy raw sbus 0xb1 0.0 0xa000 0xfffc

# Reg_tsc_sc_x4_control_control, dev_adr=0, reg_adr=0x108c050, reg_width=0x10, reg_data=0x1c
# phy raw sbus $port 0.0 0xc050 0x001c
phy raw sbus $port 0.0 0xc050 0x0029
phy raw sbus $port 0.0 0xc050

# phy raw sbus $port 0.0 0xc050 0x011c
phy raw sbus $port 0.0 0xc050 0x0129
phy raw sbus $port 0.0 0xc050

# RX_X4_Control (setup decode mode, deskew mode and descrambler mode)
phy raw sbus $port 0.0 0xc130 0xa280
phy raw sbus $port 0.0 0xc130

# Set up RX_X4_Control0_decode_control setup block_sync_mode
phy raw sbus $port 0.0 0xc134 0x2070
phy raw sbus $port 0.0 0xc134

# release TXP reset, reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10,
reg_data=0x2
```

```
phy raw sbus $port 0.0 0xc113 0xa1c6
phy raw sbus $port 0.0 0xc113

# reg_name=Reg_tsc_tx_x4_control0_misc, dev_adr=0, reg_adr=0x108c113, reg_width=0x10, reg_data=0x1
phy raw sbus $port 0.0 0xc113 0xa1c7
phy raw sbus $port 0.0 0xc113

# PMD LOOPBACK
phy raw sbus $port 1.0 0xd0d2

phy $portV 0x806d0d2 0x7
phy raw sbus $port 1.0 0xd0d2

phy raw sbus $port 0.0 0x9009 # PCS loop back (not set)
sleep 1;
#pcs live link status 0x1b is good link AM Lock - Deskew - 0 - link status - sync status
phy raw sbus $port 0.0 0xc154
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/xfi_40g_pmd_gloop_falcon.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_mact.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_mact.c
* Purpose: Example demonstrates how to manipulate and manage the MACT.
*
* Demonstrate:
*  - aging enable and aging time setting
*  - add mact that points to unicast/multicast destinations
*  - print the content of the MAC Table
*
* Default settings:
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    By default, learning is managed by device without interference from the CPU.
*  o    By default, aging is disabled.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
* Note: Without running diag_init, ports are not associated with any TPID,
*       and thus all packets would be considered as untagged.
*       Besides, only untagged packets are accepted.
*
```

```
* Traffic:
* Flooding (sending packet with unknown DA):
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and unknown DA.
*  o    Packet is flooded to all VLAN members.
*  o    Packet is accepted in all ports without any editing.
*  o    The SA of the packet is learned:
*     o    Call l2_print_mact(unit) to print MAC table content.
* Sending packet to known DA:
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and known DA.
*  o    Packet will be forwarded to single port according to MAC table.
* Sending packet to MC group:
*  o    Send Ethernet packet with TPID 0x8100 and VID 1 and DA points to mulitcast group
*  o    Packet is duplicated to members of the multicast (by default packet will be forwarded to ports 1 and 4)
*
* Remarks:
*  o    In all cases above, the packet will not be sent back to the incoming port.
*     -    For flooding, packet is received on all ports except the incoming port.
*     -    For Unicast (known DA) sending packet to same port, packet is discarded.
*
* Run Script:
*   BCM> examples/dpp/utility/cint_utils_multicast.c
*      BCM> examples/dpp/cint_l2_mact.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = l2_mact_run(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_mact.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: auth.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* 802.1X
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/auth.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_link.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       soc_sand_link.c
*
* MODULE PREFIX:  soc_sand_link
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fap21v_acc.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fap21v_acc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2cM41T81Clock.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2cM41T81Clock.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/i2cM41T81Clock.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_tmcapi_tcam_key.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_tcam_key.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  eagle_pll_config.c                                      *
*  Created On    :  14/07/2013                                              *
*  Created By    :  Kiran Divakar                                           *
*  Description   :  Eagle PLL Configuration API                             *
*  Revision      :  $Id: eagle_pll_config.c 1103 2015-08-14 16:57:21Z kirand $ *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_pll_config_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Cint QOS Setup example code
*
* copy to /usr/local/sbin location, run bcm.user
* Run script:
*
  cd ../../../src/examples/dpp
  cint cint_qos_l3.c
  cint
  print qos_map_l3(unit);
  qos_map_id_multi_get(unit);
  qos_map_l3_multi_ingress_get(unit, BCM_QOS_MAP_L3|BCM_QOS_MAP_IPV4, l3_in_map_id);
  qos_map_l3_multi_ingress_get(unit, BCM_QOS_MAP_L3|BCM_QOS_MAP_IPV6, l3_in_map_id);
  qos_map_l3_multi_egress_get(unit, BCM_QOS_MAP_L3|BCM_QOS_MAP_IPV4, l3_eg_map_id);
  qos_map_l3_multi_egress_get(unit, BCM_QOS_MAP_L3|BCM_QOS_MAP_IPV6, l3_eg_map_id);
  qos_map_id_destroy(unit, l3_eg_map_id);

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_link.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pstats.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File for SOC Pktstats structures and routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/pstats.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_elsp.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_elsp.c
* Purpose: Example of mapping MPLS packets with and without using EXP as a key.
*
* Explanation:
*  *  For incoming packet, the Ethernet header is terminated.
*  *   Labels are swapped and forwarded to egress port with new lable and Ethernet encapsulations.
*  *   For in_label 15000, different EXPs would receive different labels at the egress.
*
* Calling Sequence:
*  *   Make sure soc property mpls_elsp_label_range_min is at most 15000, and soc property
mpls_elsp_label_range_max is at least 15000
*  *   Port TPIDs setting
*     -   Assuming default TPID setting, that is, all ports configured with TPID 0x8100.
*  *   Create MPLS L3 interface.
*     -   Set interface with my-MAC 00:00:00:00:00:11 and VID 200.
*     -   Packet routed to this L3 interface will be set with this MAC.
*     -   Calls bcm_l3_intf_create().
*  *   Create egress object points to the above l3-interface.
*     -   Packet routed to this egress-object will be forwarded to egress port and encapsulated
*         with Ethernet Header.
*         *   DA; next-hop-DA.
*         *   SA/VID: according to interface definition.
*     -  Calls bcm_l3_egress_create().
*  *  Add ILM (ingress label mapping) entry (refer to mpls_add_switch_entry).
*     -   Maps incoming label (5000) to egress label (8000) and points to egress object created above.
*          - Or, maps incoming label (15000) and incoming EXP (0 - 7) to egress label (30000 + EXP / 2) and points to
egress object created above.
*     -   Flags.
*         *   BCM_MPLS_SWITCH_OUTER_TTL|BCM_MPLS_SWITCH_OUTER_EXP: both have to be present
or
*             absent; indicates Pipe/uniform models.
*         *   BCM_MPLS_SWITCH_TTL_DECREMENT has to be present.
*         *   BCM_MPLS_SWITCH_ACTION_SWAP: for LSR functionality.
*         *   BCM_MPLS_SWITCH_LOOKUP_INT_PRI: For label + EXP as key functionality. Only used with
relevant entries.
*     -   Calls bcm_mpls_tunnel_switch_create().
*
* To Activate Above Settings Run (example of call):
*     BCM> cint cint_qos.c
*     BCM> cint cint_qos_elsr.c
*     BCM> cint utility/cint_utils_l3.c
*     BCM> cint cint_mpls_lsr.c
```

```
*     BCM> cint cint_mpls_elsp.c
*     BCM> cint
*     cint> int rv;
*     cint> int unit = 0;
*     cint> int second_unit = -1;
*     cint> int outP = 13;
*     cint> rv = mpls_elsp_create_mapping(unit, second_unit, outP);
*
* Note: (For a two-device system call mpls_elsp_create_mapping() with second_unit >= 0.)
*         This option is currently unavilable.
*
* Traffic:
*
* * Sending packet from egress port 1. Refer to the table below for releveant prio and labels:
*   ~~~
```

```
*
* Script adjustment:
*  You can adjust the following attributes of the application. Change them from line 5 of
mpls_elsp_create_mapping() (The call to mpls_lsr_init). Please refer to cint_mpls_lsr.c to see the relevant function
header:
*  -  Vid, my_mac:     ethernet attribute, MPLS packets arrived on this VLAN with this MAD as DA,
*                      will be L2 terminated and forwarded to MPLS engine
*  -  in_label:        incoming label to Swap
*  -  eg_label:        egress label
*  -  eg_port:         physical port to forward packet to
*  -  eg_vid:          VLAN id to stamp in new Ethernet header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_elsp.c
No license file was found, but licenses were detected in source scan.


```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
/*
*
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software
* and all intellectual property rights therein.  IF YOU HAVE
* NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE
* IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1.     This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof,
* and to use this information only in connection with your use of
* Broadcom integrated circuit products.
*
* 2.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS
```

```
* PROVIDED "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3.     TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL
* BROADCOM OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL,
* INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER
* ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY
* TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF
* THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF OR USD 1.00,
* WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
* ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_diag_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_diag_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_cfg_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_diag_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_cfg_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_cfg_seq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ocm_ut.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ocm_ut.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: petra_dispatch.h
* Purpose: petra driver BCM API dispatch table
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/petra_dispatch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_mpls_term.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_mpls_term.h
*
* MODULE PREFIX:  soc_ppc_mpls
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_mpls_term.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phycommon.c,v 1.11 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    phycommon.c
* Purpose: common infrastructure for the various phy methods,
* callback registrations, etc.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phycommon.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: metrolite.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       metrolite.h
* Purpose:     Function declarations for metrolite bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/metrolite.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_ilm.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_ilm.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: falcon_furia_internal.h 857 2015-01-16 22:22:38Z kirand $ *
*                                                                           *
*  Description :  Internal API functions                                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
```

```
*      Broadcom Corporation                                    *
*      5300 California Avenue                                  *
*      Irvine, CA  92617                                       *
*                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/pm4x2p5.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmPortsetInfoEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmPortsetInfoEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_framework.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Hurricane3 (BCM56160) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Hurricane3
if $?BCM56160_A0 || $?BCM56162_A0 \
  'local BCM5616X_A0 1'

# Hurricane3-Lite
if $?BCM56163_A0 || $?BCM56164_A0 || $?BCM56166_A0 \
  'local BCM5616XLITE_A0 1'

# Buckhound
if $?BCM53440_A0 || $?BCM53442_A0 || $?BCM53443_A0 \
  'local BCM5344X_A0 1'

# Foxhound2
if $?BCM53434_A0 \
  'local BCM5343X_A0 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
```

```
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
#if !$?ihost_mode \
#    'echo "Running PCI Compliance ...";\
#     tr 2;\
#     $done;'

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
```

```
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

set rct=false

echo "Running Switching Memory Tests ..."

#Need to init misc before testing for MMU_XQ0, 1 ~29
init soc; init misc;

echo " MMU_XQ0";
tr 50 M=MMU_XQ0;
tr 51 M=MMU_XQ0;
tr 52 M=MMU_XQ0;
tr 71 M=MMU_XQ0 TSE=F SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=F;
echo " MMU_XQ10";
tr 50 M=MMU_XQ10;
tr 51 M=MMU_XQ10;
tr 52 M=MMU_XQ10;
tr 71 M=MMU_XQ10 TSE=F SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=F;
echo " MMU_XQ11";
tr 50 M=MMU_XQ11;
tr 51 M=MMU_XQ11;
tr 52 M=MMU_XQ11;
tr 71 M=MMU_XQ11 TSE=F SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=F;
echo " MMU_XQ12";
tr 50 M=MMU_XQ12;
tr 51 M=MMU_XQ12;
tr 52 M=MMU_XQ12;
tr 71 M=MMU_XQ12 TSE=F SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=F;
echo " MMU_XQ13";
tr 50 M=MMU_XQ13;
tr 51 M=MMU_XQ13;
tr 52 M=MMU_XQ13;
tr 71 M=MMU_XQ13 TSE=F SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=T;
```

```
tr 71 M=MMU_XQ13 TSE=T SLTH=F;
echo " MMU_XQ14";
tr 50 M=MMU_XQ14;
tr 51 M=MMU_XQ14;
tr 52 M=MMU_XQ14;
tr 71 M=MMU_XQ14 TSE=F SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=F;
echo " MMU_XQ15";
tr 50 M=MMU_XQ15;
tr 51 M=MMU_XQ15;
tr 52 M=MMU_XQ15;
tr 71 M=MMU_XQ15 TSE=F SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=F;
echo " MMU_XQ16";
tr 50 M=MMU_XQ16;
tr 51 M=MMU_XQ16;
tr 52 M=MMU_XQ16;
tr 71 M=MMU_XQ16 TSE=F SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=F;
echo " MMU_XQ17";
tr 50 M=MMU_XQ17;
tr 51 M=MMU_XQ17;
tr 52 M=MMU_XQ17;
tr 71 M=MMU_XQ17 TSE=F SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=F;
echo " MMU_XQ18";
tr 50 M=MMU_XQ18;
tr 51 M=MMU_XQ18;
tr 52 M=MMU_XQ18;
tr 71 M=MMU_XQ18 TSE=F SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=F;
echo " MMU_XQ19";
tr 50 M=MMU_XQ19;
tr 51 M=MMU_XQ19;
tr 52 M=MMU_XQ19;
tr 71 M=MMU_XQ19 TSE=F SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=F;
echo " MMU_XQ2";
tr 50 M=MMU_XQ2;
tr 51 M=MMU_XQ2;
tr 52 M=MMU_XQ2;
tr 71 M=MMU_XQ2 TSE=F SLTH=T;
```

```
tr 71 M=MMU_XQ2 TSE=T SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=F;
echo " MMU_XQ20";
tr 50 M=MMU_XQ20;
tr 51 M=MMU_XQ20;
tr 52 M=MMU_XQ20;
tr 71 M=MMU_XQ20 TSE=F SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=F;
echo " MMU_XQ21";
tr 50 M=MMU_XQ21;
tr 51 M=MMU_XQ21;
tr 52 M=MMU_XQ21;
tr 71 M=MMU_XQ21 TSE=F SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=F;
echo " MMU_XQ22";
tr 50 M=MMU_XQ22;
tr 51 M=MMU_XQ22;
tr 52 M=MMU_XQ22;
tr 71 M=MMU_XQ22 TSE=F SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=F;
echo " MMU_XQ23";
tr 50 M=MMU_XQ23;
tr 51 M=MMU_XQ23;
tr 52 M=MMU_XQ23;
tr 71 M=MMU_XQ23 TSE=F SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=F;
echo " MMU_XQ24";
tr 50 M=MMU_XQ24;
tr 51 M=MMU_XQ24;
tr 52 M=MMU_XQ24;
tr 71 M=MMU_XQ24 TSE=F SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=F;
echo " MMU_XQ25";
tr 50 M=MMU_XQ25;
tr 51 M=MMU_XQ25;
tr 52 M=MMU_XQ25;
tr 71 M=MMU_XQ25 TSE=F SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=F;
echo " MMU_XQ26";
tr 50 M=MMU_XQ26;
tr 51 M=MMU_XQ26;
tr 52 M=MMU_XQ26;
```

```
tr 71 M=MMU_XQ26 TSE=F SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=F;
echo " MMU_XQ27";
tr 50 M=MMU_XQ27;
tr 51 M=MMU_XQ27;
tr 52 M=MMU_XQ27;
tr 71 M=MMU_XQ27 TSE=F SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=F;
echo " MMU_XQ28";
tr 50 M=MMU_XQ28;
tr 51 M=MMU_XQ28;
tr 52 M=MMU_XQ28;
tr 71 M=MMU_XQ28 TSE=F SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=F;
echo " MMU_XQ29";
tr 50 M=MMU_XQ29;
tr 51 M=MMU_XQ29;
tr 52 M=MMU_XQ29;
tr 71 M=MMU_XQ29 TSE=F SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=F;
echo " MMU_XQ3";
tr 50 M=MMU_XQ3;
tr 51 M=MMU_XQ3;
tr 52 M=MMU_XQ3;
tr 71 M=MMU_XQ3 TSE=F SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=F;
echo " MMU_XQ30";
tr 50 M=MMU_XQ30;
tr 51 M=MMU_XQ30;
tr 52 M=MMU_XQ30;
tr 71 M=MMU_XQ30 TSE=F SLTH=T;
tr 71 M=MMU_XQ30 TSE=T SLTH=T;
tr 71 M=MMU_XQ30 TSE=T SLTH=F;
echo " MMU_XQ31";
tr 50 M=MMU_XQ31;
tr 51 M=MMU_XQ31;
tr 52 M=MMU_XQ31;
tr 71 M=MMU_XQ31 TSE=F SLTH=T;
tr 71 M=MMU_XQ31 TSE=T SLTH=T;
tr 71 M=MMU_XQ31 TSE=T SLTH=F;
echo " MMU_XQ4";
tr 50 M=MMU_XQ4;
tr 51 M=MMU_XQ4;
```

```
tr 52 M=MMU_XQ4;
tr 71 M=MMU_XQ4 TSE=F SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=F;
echo " MMU_XQ5";
tr 50 M=MMU_XQ5;
tr 51 M=MMU_XQ5;
tr 52 M=MMU_XQ5;
tr 71 M=MMU_XQ5 TSE=F SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=F;
echo " MMU_XQ6";
tr 50 M=MMU_XQ6;
tr 51 M=MMU_XQ6;
tr 52 M=MMU_XQ6;
tr 71 M=MMU_XQ6 TSE=F SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=F;
echo " MMU_XQ7";
tr 50 M=MMU_XQ7;
tr 51 M=MMU_XQ7;
tr 52 M=MMU_XQ7;
tr 71 M=MMU_XQ7 TSE=F SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=F;
echo " MMU_XQ8";
tr 50 M=MMU_XQ8;
tr 51 M=MMU_XQ8;
tr 52 M=MMU_XQ8;
tr 71 M=MMU_XQ8 TSE=F SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=F;
echo " MMU_XQ9";
tr 50 M=MMU_XQ9;
tr 51 M=MMU_XQ9;
tr 52 M=MMU_XQ9;
tr 71 M=MMU_XQ9 TSE=F SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=F;

init soc; init mmu;

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
```

```
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " CNG_MAP";
tr 50 M=CNG_MAP;
tr 51 M=CNG_MAP;
tr 52 M=CNG_MAP;
tr 71 M=CNG_MAP TSE=F SLTH=T;
tr 71 M=CNG_MAP TSE=T SLTH=T;
tr 71 M=CNG_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " CUSTOM_HEADER_MATCH";
tr 50 M=CUSTOM_HEADER_MATCH;
tr 51 M=CUSTOM_HEADER_MATCH;
tr 52 M=CUSTOM_HEADER_MATCH;
tr 71 M=CUSTOM_HEADER_MATCH TSE=F SLTH=T;
tr 71 M=CUSTOM_HEADER_MATCH TSE=T SLTH=T;
tr 71 M=CUSTOM_HEADER_MATCH TSE=T SLTH=F;
echo " CUSTOM_HEADER_POLICY_TABLE";
tr 50 M=CUSTOM_HEADER_POLICY_TABLE;
tr 51 M=CUSTOM_HEADER_POLICY_TABLE;
tr 52 M=CUSTOM_HEADER_POLICY_TABLE;
tr 71 M=CUSTOM_HEADER_POLICY_TABLE TSE=F SLTH=T;
```

```
tr 71 M=CUSTOM_HEADER_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=CUSTOM_HEADER_POLICY_TABLE TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
if  $?BCM5616X_A0 || $?BCM5344X_A0 \
  'echo " EFP_COUNTER_TABLE"; \
  tr 50 M=EFP_COUNTER_TABLE; \
  tr 51 M=EFP_COUNTER_TABLE; \
  tr 52 M=EFP_COUNTER_TABLE; \
  tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F; \
  echo " EFP_METER_TABLE"; \
  tr 50 M=EFP_METER_TABLE; \
  tr 51 M=EFP_METER_TABLE; \
  tr 52 M=EFP_METER_TABLE; \
  tr 71 M=EFP_METER_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_METER_TABLE TSE=T SLTH=F; \
  echo " EFP_POLICY_TABLE"; \
  tr 50 M=EFP_POLICY_TABLE; \
  tr 51 M=EFP_POLICY_TABLE; \
  tr 52 M=EFP_POLICY_TABLE; \
  tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " EFP_TCAM"; \
  tr 50 M=EFP_TCAM; \
  tr 51 M=EFP_TCAM; \
  tr 52 M=EFP_TCAM; \
  tr 71 M=EFP_TCAM TSE=F SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=T; \
  tr 71 M=EFP_TCAM TSE=T SLTH=F; \
  echo " VFP_POLICY_TABLE"; \
  tr 50 M=VFP_POLICY_TABLE; \
  tr 51 M=VFP_POLICY_TABLE; \
```

```
  tr 52 M=VFP_POLICY_TABLE; \
  tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T; \
  tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F; \
  echo " VFP_TCAM"; \
  tr 50 M=VFP_TCAM; \
  tr 51 M=VFP_TCAM; \
  tr 52 M=VFP_TCAM; \
  tr 71 M=VFP_TCAM TSE=F SLTH=T; \
  tr 71 M=VFP_TCAM TSE=T SLTH=T; \
  tr 71 M=VFP_TCAM TSE=T SLTH=F;'
if  $?BCM5616X_A0 \
  'echo " INITIAL_L3_ECMP"; \
  tr 50 M=INITIAL_L3_ECMP; \
  tr 51 M=INITIAL_L3_ECMP; \
  tr 52 M=INITIAL_L3_ECMP; \
  tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F; \
  echo " INITIAL_L3_ECMP_GROUP"; \
  tr 50 M=INITIAL_L3_ECMP_GROUP; \
  tr 51 M=INITIAL_L3_ECMP_GROUP; \
  tr 52 M=INITIAL_L3_ECMP_GROUP; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T; \
  tr 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F; \
  echo " L3_ECMP"; \
  tr 50 M=L3_ECMP; \
  tr 51 M=L3_ECMP; \
  tr 52 M=L3_ECMP; \
  tr 71 M=L3_ECMP TSE=F SLTH=T; \
  tr 71 M=L3_ECMP TSE=T SLTH=T; \
  tr 71 M=L3_ECMP TSE=T SLTH=F; \
  echo " L3_ECMP_GROUP"; \
  tr 50 M=L3_ECMP_GROUP; \
  tr 51 M=L3_ECMP_GROUP; \
  tr 52 M=L3_ECMP_GROUP; \
  tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T; \
  tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T; \
  tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;'
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
if  $?BCM5616X_A0 || $?BCM5344X_A0 \
  'tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;'
```

```
if $?BCM5616XLITE_A0
  for s=0,1920,128 \
     'echo " Start = $s Count = 64"; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;'
if $?BCM5343X_A0
  for s=0,896,128 \
     'echo " Start = $s Count = 64"; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;'
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
if  $?BCM5616X_A0 || $?BCM5344X_A0 \
  'tr 71 M=FP_TCAM TSE=F SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=T; \
  tr 71 M=FP_TCAM TSE=T SLTH=F;'
if  $?BCM5616XLITE_A0
  for s=0,1920,128 \
     'echo " Start = $s Count = 64"; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=F SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=F;'
if  $?BCM5343X_A0
  for s=0,896,128 \
     'echo " Start = $s Count = 64"; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=F SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=T; \
     tr 71 Start=$s Count=64 M=FP_TCAM TSE=T SLTH=F;'
echo " EGR_1588_SA";
tr 50 M=EGR_1588_SA;
tr 51 M=EGR_1588_SA;
tr 52 M=EGR_1588_SA;
tr 71 M=EGR_1588_SA TSE=F SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=T;
tr 71 M=EGR_1588_SA TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
```

```
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EDB_XMIT_CTRL";
tr 50 M=EGR_EDB_XMIT_CTRL;
tr 51 M=EGR_EDB_XMIT_CTRL;
tr 52 M=EGR_EDB_XMIT_CTRL;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=F SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=T;
tr 71 M=EGR_EDB_XMIT_CTRL TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ENABLE";
tr 50 M=EGR_ENABLE;
tr 51 M=EGR_ENABLE;
tr 52 M=EGR_ENABLE;
tr 71 M=EGR_ENABLE TSE=F SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=T;
tr 71 M=EGR_ENABLE TSE=T SLTH=F;
echo " EGR_ETAG_PCP_MAPPING";
tr 50 M=EGR_ETAG_PCP_MAPPING;
tr 51 M=EGR_ETAG_PCP_MAPPING;
tr 52 M=EGR_ETAG_PCP_MAPPING;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_ETAG_PCP_MAPPING TSE=T SLTH=F;
echo " EGR_GPP_ATTRIBUTES";
tr 50 M=EGR_GPP_ATTRIBUTES;
tr 51 M=EGR_GPP_ATTRIBUTES;
tr 52 M=EGR_GPP_ATTRIBUTES;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=F SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=F;
echo " EGR_GPP_ATTRIBUTES_MODBASE";
tr 50 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 52 M=EGR_GPP_ATTRIBUTES_MODBASE;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=F;
echo " EGR_HEADER_ENCAP_DATA";
```

```
tr 50 M=EGR_HEADER_ENCAP_DATA;
tr 51 M=EGR_HEADER_ENCAP_DATA;
tr 52 M=EGR_HEADER_ENCAP_DATA;
tr 71 M=EGR_HEADER_ENCAP_DATA TSE=F SLTH=T;
tr 71 M=EGR_HEADER_ENCAP_DATA TSE=T SLTH=T;
tr 71 M=EGR_HEADER_ENCAP_DATA TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_INT_CN_TO_IP_MAPPING";
tr 50 M=EGR_INT_CN_TO_IP_MAPPING;
tr 51 M=EGR_INT_CN_TO_IP_MAPPING;
tr 52 M=EGR_INT_CN_TO_IP_MAPPING;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_INT_CN_TO_IP_MAPPING TSE=T SLTH=F;
echo " EGR_INT_CN_UPDATE";
tr 50 M=EGR_INT_CN_UPDATE;
tr 51 M=EGR_INT_CN_UPDATE;
tr 52 M=EGR_INT_CN_UPDATE;
tr 71 M=EGR_INT_CN_UPDATE TSE=F SLTH=T;
tr 71 M=EGR_INT_CN_UPDATE TSE=T SLTH=T;
tr 71 M=EGR_INT_CN_UPDATE TSE=T SLTH=F;
if $?BCM5616X_A0 || $?BCM5616XLITE_A0 \
  'echo " EGR_L3_INTF"; \
  tr 50 M=EGR_L3_INTF; \
  tr 51 M=EGR_L3_INTF; \
  tr 52 M=EGR_L3_INTF; \
  tr 71 M=EGR_L3_INTF TSE=F SLTH=T; \
  tr 71 M=EGR_L3_INTF TSE=T SLTH=T; \
  tr 71 M=EGR_L3_INTF TSE=T SLTH=F; \
  echo " EGR_L3_NEXT_HOP"; \
  tr 50 M=EGR_L3_NEXT_HOP; \
  tr 51 M=EGR_L3_NEXT_HOP; \
  tr 52 M=EGR_L3_NEXT_HOP; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;'
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
```

```
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
echo " EGR_MASK_MODBASE";
tr 50 M=EGR_MASK_MODBASE;
tr 51 M=EGR_MASK_MODBASE;
tr 52 M=EGR_MASK_MODBASE;
tr 71 M=EGR_MASK_MODBASE TSE=F SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=T;
tr 71 M=EGR_MASK_MODBASE TSE=T SLTH=F;
#echo " EGR_MAX_USED_ENTRIES";
#tr 50 M=EGR_MAX_USED_ENTRIES;
#tr 51 M=EGR_MAX_USED_ENTRIES;
#tr 52 M=EGR_MAX_USED_ENTRIES;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=F SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=T;
#tr 71 M=EGR_MAX_USED_ENTRIES TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_CONTROL";
tr 50 M=EGR_MIRROR_ENCAP_CONTROL;
tr 51 M=EGR_MIRROR_ENCAP_CONTROL;
tr 52 M=EGR_MIRROR_ENCAP_CONTROL;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_1";
tr 50 M=EGR_MIRROR_ENCAP_DATA_1;
tr 51 M=EGR_MIRROR_ENCAP_DATA_1;
tr 52 M=EGR_MIRROR_ENCAP_DATA_1;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
echo " EGR_MIRROR_ENCAP_DATA_2";
tr 50 M=EGR_MIRROR_ENCAP_DATA_2;
tr 51 M=EGR_MIRROR_ENCAP_DATA_2;
tr 52 M=EGR_MIRROR_ENCAP_DATA_2;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=F SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=T;
tr 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=F;
#echo " EGR_MMU_REQUESTS";
#tr 50 M=EGR_MMU_REQUESTS;
#tr 51 M=EGR_MMU_REQUESTS;
#tr 52 M=EGR_MMU_REQUESTS;
#tr 71 M=EGR_MMU_REQUESTS TSE=F SLTH=T;
```

```
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_MMU_REQUESTS TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_OAM_MAC_ADDRESS";
tr 50 M=EGR_OAM_MAC_ADDRESS;
tr 51 M=EGR_OAM_MAC_ADDRESS;
tr 52 M=EGR_OAM_MAC_ADDRESS;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=F SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=T;
tr 71 M=EGR_OAM_MAC_ADDRESS TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PER_Q_ECN_MARKED";
tr 50 M=EGR_PER_Q_ECN_MARKED;
tr 51 M=EGR_PER_Q_ECN_MARKED;
tr 52 M=EGR_PER_Q_ECN_MARKED;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=F SLTH=T;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=T SLTH=T;
tr 71 M=EGR_PER_Q_ECN_MARKED TSE=T SLTH=F;
echo " EGR_PFC_CONTROL";
tr 50 M=EGR_PFC_CONTROL;
tr 51 M=EGR_PFC_CONTROL;
tr 52 M=EGR_PFC_CONTROL;
tr 71 M=EGR_PFC_CONTROL TSE=F SLTH=T;
tr 71 M=EGR_PFC_CONTROL TSE=T SLTH=T;
tr 71 M=EGR_PFC_CONTROL TSE=T SLTH=F;
echo " EGR_PORT_CREDIT_RESET";
tr 50 M=EGR_PORT_CREDIT_RESET;
tr 51 M=EGR_PORT_CREDIT_RESET;
tr 52 M=EGR_PORT_CREDIT_RESET;
```

```
tr 71 M=EGR_PORT_CREDIT_RESET TSE=F SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=T;
tr 71 M=EGR_PORT_CREDIT_RESET TSE=T SLTH=F;
#echo " EGR_PORT_REQUESTS";
#tr 50 M=EGR_PORT_REQUESTS;
#tr 51 M=EGR_PORT_REQUESTS;
#tr 52 M=EGR_PORT_REQUESTS;
#tr 71 M=EGR_PORT_REQUESTS TSE=F SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=T;
#tr 71 M=EGR_PORT_REQUESTS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_COUNTER_PRI_COS_MAP";
tr 50 M=EGR_VLAN_COUNTER_PRI_COS_MAP;
tr 51 M=EGR_VLAN_COUNTER_PRI_COS_MAP;
tr 52 M=EGR_VLAN_COUNTER_PRI_COS_MAP;
tr 71 M=EGR_VLAN_COUNTER_PRI_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_VLAN_COUNTER_PRI_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_VLAN_COUNTER_PRI_COS_MAP TSE=T SLTH=F;
echo " EGR_VLAN_COUNTER_TABLE";
tr 50 M=EGR_VLAN_COUNTER_TABLE;
tr 51 M=EGR_VLAN_COUNTER_TABLE;
tr 52 M=EGR_VLAN_COUNTER_TABLE;
tr 71 M=EGR_VLAN_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
```

```
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
```

```
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL;
#tr 52 M=FP_SLICE_KEY_CONTROL;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP;
#tr 52 M=FP_SLICE_MAP;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
```

```
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
#echo " IFP_PORT_FIELD_SEL";
#HWALIAS to FP_PORT_FIELD_SEL -- NOTEST
#tr 50 M=IFP_PORT_FIELD_SEL;
#tr 51 M=IFP_PORT_FIELD_SEL;
#tr 52 M=IFP_PORT_FIELD_SEL;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=F SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=T;
#tr 71 M=IFP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_1588_INGRESS_CTRL";
tr 50 M=ING_1588_INGRESS_CTRL;
tr 51 M=ING_1588_INGRESS_CTRL;
tr 52 M=ING_1588_INGRESS_CTRL;
tr 71 M=ING_1588_INGRESS_CTRL TSE=F SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=T;
tr 71 M=ING_1588_INGRESS_CTRL TSE=T SLTH=F;
echo " ING_ETAG_PCP_MAPPING";
tr 50 M=ING_ETAG_PCP_MAPPING;
tr 51 M=ING_ETAG_PCP_MAPPING;
tr 52 M=ING_ETAG_PCP_MAPPING;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_ETAG_PCP_MAPPING TSE=T SLTH=F;
echo " ING_IPV6_MC_RESERVED_ADDRESS";
tr 50 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS;
#tr 52 M=ING_IPV6_MC_RESERVED_ADDRESS;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=F SLTH=T;
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=T;
```

```
tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS TSE=T SLTH=F;
if $?BCM5616X_A0 || $?BCM5616XLITE_A0 \
  'echo " ING_L3_NEXT_HOP"; \
  tr 50 M=ING_L3_NEXT_HOP; \
  tr 51 M=ING_L3_NEXT_HOP; \
  tr 52 M=ING_L3_NEXT_HOP; \
  tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;'
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE";
tr 50 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 51 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 52 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_SERVICE_PRI_MAP";
tr 50 M=ING_SERVICE_PRI_MAP;
tr 51 M=ING_SERVICE_PRI_MAP;
tr 52 M=ING_SERVICE_PRI_MAP;
tr 71 M=ING_SERVICE_PRI_MAP TSE=F SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=T;
tr 71 M=ING_SERVICE_PRI_MAP TSE=T SLTH=F;
echo " ING_VLAN_COUNTER_PRI_COS_MAP";
tr 50 M=ING_VLAN_COUNTER_PRI_COS_MAP;
tr 51 M=ING_VLAN_COUNTER_PRI_COS_MAP;
tr 52 M=ING_VLAN_COUNTER_PRI_COS_MAP;
tr 71 M=ING_VLAN_COUNTER_PRI_COS_MAP TSE=F SLTH=T;
tr 71 M=ING_VLAN_COUNTER_PRI_COS_MAP TSE=T SLTH=T;
tr 71 M=ING_VLAN_COUNTER_PRI_COS_MAP TSE=T SLTH=F;
echo " ING_VLAN_COUNTER_TABLE";
tr 50 M=ING_VLAN_COUNTER_TABLE;
tr 51 M=ING_VLAN_COUNTER_TABLE;
tr 52 M=ING_VLAN_COUNTER_TABLE;
```

```
tr 71 M=ING_VLAN_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VLAN_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VLAN_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
if $?BCM5616X_A0 || $?BCM5616XLITE_A0 \
  'echo " INITIAL_ING_L3_NEXT_HOP"; \
  tr 50 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 51 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 52 M=INITIAL_ING_L3_NEXT_HOP; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T; \
  tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;'
echo " INT_CN_TO_MMUIF_MAPPING";
tr 50 M=INT_CN_TO_MMUIF_MAPPING;
tr 51 M=INT_CN_TO_MMUIF_MAPPING;
tr 52 M=INT_CN_TO_MMUIF_MAPPING;
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=F SLTH=T;
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=T SLTH=T;
tr 71 M=INT_CN_TO_MMUIF_MAPPING TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE_TABLE";
tr 50 M=IPV6_PROXY_ENABLE_TABLE;
```

```
tr 51 M=IPV6_PROXY_ENABLE_TABLE;
tr 52 M=IPV6_PROXY_ENABLE_TABLE;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=F;
echo " IP_TO_INT_CN_MAPPING";
tr 50 M=IP_TO_INT_CN_MAPPING;
tr 51 M=IP_TO_INT_CN_MAPPING;
tr 52 M=IP_TO_INT_CN_MAPPING;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=F SLTH=T;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=T SLTH=T;
tr 71 M=IP_TO_INT_CN_MAPPING TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
tr 51 M=L2_ENTRY_OVERFLOW;
tr 52 M=L2_ENTRY_OVERFLOW;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
```

```
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
if $?BCM5616X_A0 || $?BCM5616XLITE_A0 \
  'echo " L3_DEFIP"; \
  tr 50 M=L3_DEFIP; \
  tr 51 M=L3_DEFIP; \
  tr 52 M=L3_DEFIP; \
  tr 71 M=L3_DEFIP TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP TSE=T SLTH=T; \
  tr 71 M=L3_DEFIP TSE=T SLTH=F; \
  echo " L3_DEFIP_DATA_ONLY"; \
  tr 50 M=L3_DEFIP_DATA_ONLY; \
  tr 51 M=L3_DEFIP_DATA_ONLY; \
  tr 52 M=L3_DEFIP_DATA_ONLY; \
  tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T; \
```

```
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_HIT_ONLY"; \
tr 50 M=L3_DEFIP_HIT_ONLY; \
tr 51 M=L3_DEFIP_HIT_ONLY; \
tr 52 M=L3_DEFIP_HIT_ONLY; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F; \
echo " L3_DEFIP_ONLY"; \
tr 50 M=L3_DEFIP_ONLY; \
tr 51 M=L3_DEFIP_ONLY; \
tr 52 M=L3_DEFIP_ONLY; \
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T; \
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T; \
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F; \
echo " L3_ENTRY_HIT_ONLY"; \
tr 50 M=L3_ENTRY_HIT_ONLY; \
tr 51 M=L3_ENTRY_HIT_ONLY; \
tr 52 M=L3_ENTRY_HIT_ONLY; \
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F; \
echo " L3_ENTRY_IPV4_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV4_MULTICAST; \
tr 51 M=L3_ENTRY_IPV4_MULTICAST; \
tr 52 M=L3_ENTRY_IPV4_MULTICAST; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV4_UNICAST"; \
tr 50 M=L3_ENTRY_IPV4_UNICAST; \
tr 51 M=L3_ENTRY_IPV4_UNICAST; \
tr 52 M=L3_ENTRY_IPV4_UNICAST; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV6_MULTICAST"; \
tr 50 M=L3_ENTRY_IPV6_MULTICAST; \
tr 51 M=L3_ENTRY_IPV6_MULTICAST; \
tr 52 M=L3_ENTRY_IPV6_MULTICAST; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T; \
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F; \
echo " L3_ENTRY_IPV6_UNICAST"; \
tr 50 M=L3_ENTRY_IPV6_UNICAST; \
tr 51 M=L3_ENTRY_IPV6_UNICAST; \
tr 52 M=L3_ENTRY_IPV6_UNICAST; \
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T; \
```

```
  tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T; \
  tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F; \
  echo " L3_ENTRY_ONLY"; \
  tr 50 M=L3_ENTRY_ONLY; \
  tr 51 M=L3_ENTRY_ONLY; \
  tr 52 M=L3_ENTRY_ONLY; \
  tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T; \
  tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F; \
  echo " L3_ENTRY_VALID_ONLY"; \
  tr 50 M=L3_ENTRY_VALID_ONLY; \
  tr 51 M=L3_ENTRY_VALID_ONLY; \
  tr 52 M=L3_ENTRY_VALID_ONLY; \
  tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T; \
  tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T; \
  tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F; \
  echo " L3_IPMC"; \
  tr 50 M=L3_IPMC; \
  tr 51 M=L3_IPMC; \
  tr 52 M=L3_IPMC; \
  tr 71 M=L3_IPMC TSE=F SLTH=T; \
  tr 71 M=L3_IPMC TSE=T SLTH=T; \
  tr 71 M=L3_IPMC TSE=T SLTH=F; \
  echo " L3_MTU_VALUES"; \
  tr 50 M=L3_MTU_VALUES; \
  tr 51 M=L3_MTU_VALUES; \
  tr 52 M=L3_MTU_VALUES; \
  tr 71 M=L3_MTU_VALUES TSE=F SLTH=T; \
  tr 71 M=L3_MTU_VALUES TSE=T SLTH=T; \
  tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;'
if $?BCM5616X_A0 \
  'echo " L3_IIF"; \
  tr 50 M=L3_IIF; \
  tr 51 M=L3_IIF; \
  tr 52 M=L3_IIF; \
  tr 71 M=L3_IIF TSE=F SLTH=T; \
  tr 71 M=L3_IIF TSE=T SLTH=T; \
  tr 71 M=L3_IIF TSE=T SLTH=F;'
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LMEP_DA";
tr 50 M=LMEP_DA;
tr 51 M=LMEP_DA;
```

```
tr 52 M=LMEP_DA;
tr 71 M=LMEP_DA TSE=F SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=T;
tr 71 M=LMEP_DA TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " MMU_AGING_CTR";
tr 50 M=MMU_AGING_CTR;
tr 51 M=MMU_AGING_CTR;
tr 52 M=MMU_AGING_CTR;
tr 71 M=MMU_AGING_CTR TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=F;
echo " MMU_AGING_EXP";
tr 50 M=MMU_AGING_EXP;
```

```
tr 51 M=MMU_AGING_EXP;
tr 52 M=MMU_AGING_EXP;
tr 71 M=MMU_AGING_EXP TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=F;
echo " MMU_ARB_TDM_TABLE";
tr 50 M=MMU_ARB_TDM_TABLE;
tr 51 M=MMU_ARB_TDM_TABLE;
tr 52 M=MMU_ARB_TDM_TABLE;
tr 71 M=MMU_ARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=F;
echo " MMU_CBPCellHeader";
tr 50 M=MMU_CBPCellHeader;
tr 51 M=MMU_CBPCellHeader;
tr 52 M=MMU_CBPCellHeader;
tr 71 M=MMU_CBPCellHeader TSE=F SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=F;
echo " MMU_CBPData0";
tr 50 M=MMU_CBPData0;
tr 51 M=MMU_CBPData0;
tr 52 M=MMU_CBPData0;
tr 71 M=MMU_CBPData0 TSE=F SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=F;
echo " MMU_CBPData1";
tr 50 M=MMU_CBPData1;
tr 51 M=MMU_CBPData1;
tr 52 M=MMU_CBPData1;
tr 71 M=MMU_CBPData1 TSE=F SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=F;
echo " MMU_CBPData2";
tr 50 M=MMU_CBPData2;
tr 51 M=MMU_CBPData2;
tr 52 M=MMU_CBPData2;
tr 71 M=MMU_CBPData2 TSE=F SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=F;
echo " MMU_CBPData3";
tr 50 M=MMU_CBPData3;
tr 51 M=MMU_CBPData3;
tr 52 M=MMU_CBPData3;
tr 71 M=MMU_CBPData3 TSE=F SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=F;
echo " MMU_CBPData4";
```

```
tr 50 M=MMU_CBPData4;
tr 51 M=MMU_CBPData4;
tr 52 M=MMU_CBPData4;
tr 71 M=MMU_CBPData4 TSE=F SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=F;
echo " MMU_CBPData5";
tr 50 M=MMU_CBPData5;
tr 51 M=MMU_CBPData5;
tr 52 M=MMU_CBPData5;
tr 71 M=MMU_CBPData5 TSE=F SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=F;
echo " MMU_CBPData6";
tr 50 M=MMU_CBPData6;
tr 51 M=MMU_CBPData6;
tr 52 M=MMU_CBPData6;
tr 71 M=MMU_CBPData6 TSE=F SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=F;
echo " MMU_CBPData7";
tr 50 M=MMU_CBPData7;
tr 51 M=MMU_CBPData7;
tr 52 M=MMU_CBPData7;
tr 71 M=MMU_CBPData7 TSE=F SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=F;
echo " MMU_CBPPktHeader0";
tr 50 M=MMU_CBPPktHeader0;
tr 51 M=MMU_CBPPktHeader0;
tr 52 M=MMU_CBPPktHeader0;
tr 71 M=MMU_CBPPktHeader0 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=F;
echo " MMU_CBPPktHeader1";
tr 50 M=MMU_CBPPktHeader1;
tr 51 M=MMU_CBPPktHeader1;
tr 52 M=MMU_CBPPktHeader1;
tr 71 M=MMU_CBPPktHeader1 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=F;
echo " MMU_CBPPktHeader2";
tr 50 M=MMU_CBPPktHeader2;
tr 51 M=MMU_CBPPktHeader2;
tr 52 M=MMU_CBPPktHeader2;
tr 71 M=MMU_CBPPktHeader2 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader2 TSE=T SLTH=F;
```

```
echo " MMU_CBPPktHeader_EXT";
tr 50 M=MMU_CBPPktHeader_EXT;
tr 51 M=MMU_CBPPktHeader_EXT;
tr 52 M=MMU_CBPPktHeader_EXT;
tr 71 M=MMU_CBPPktHeader_EXT TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=F;
echo " MMU_CCP";
tr 50 M=MMU_CCP;
tr 51 M=MMU_CCP;
tr 52 M=MMU_CCP;
tr 71 M=MMU_CCP TSE=F SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=F;
echo " MMU_CFAP";
tr 50 M=MMU_CFAP;
tr 51 M=MMU_CFAP;
tr 52 M=MMU_CFAP;
tr 71 M=MMU_CFAP TSE=F SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL10";
tr 50 M=MMU_IPMC_GROUP_TBL10;
tr 51 M=MMU_IPMC_GROUP_TBL10;
tr 52 M=MMU_IPMC_GROUP_TBL10;
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL10 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL11";
tr 50 M=MMU_IPMC_GROUP_TBL11;
tr 51 M=MMU_IPMC_GROUP_TBL11;
tr 52 M=MMU_IPMC_GROUP_TBL11;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL11 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL12";
tr 50 M=MMU_IPMC_GROUP_TBL12;
tr 51 M=MMU_IPMC_GROUP_TBL12;
tr 52 M=MMU_IPMC_GROUP_TBL12;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL12 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL13";
tr 50 M=MMU_IPMC_GROUP_TBL13;
tr 51 M=MMU_IPMC_GROUP_TBL13;
tr 52 M=MMU_IPMC_GROUP_TBL13;
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=T SLTH=T;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL13 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL14";
tr 50 M=MMU_IPMC_GROUP_TBL14;
tr 51 M=MMU_IPMC_GROUP_TBL14;
tr 52 M=MMU_IPMC_GROUP_TBL14;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL14 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL15";
tr 50 M=MMU_IPMC_GROUP_TBL15;
tr 51 M=MMU_IPMC_GROUP_TBL15;
tr 52 M=MMU_IPMC_GROUP_TBL15;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL15 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL16";
tr 50 M=MMU_IPMC_GROUP_TBL16;
tr 51 M=MMU_IPMC_GROUP_TBL16;
tr 52 M=MMU_IPMC_GROUP_TBL16;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL16 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL17";
tr 50 M=MMU_IPMC_GROUP_TBL17;
tr 51 M=MMU_IPMC_GROUP_TBL17;
tr 52 M=MMU_IPMC_GROUP_TBL17;
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL17 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL18";
tr 50 M=MMU_IPMC_GROUP_TBL18;
tr 51 M=MMU_IPMC_GROUP_TBL18;
tr 52 M=MMU_IPMC_GROUP_TBL18;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL18 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL19";
tr 50 M=MMU_IPMC_GROUP_TBL19;
tr 51 M=MMU_IPMC_GROUP_TBL19;
tr 52 M=MMU_IPMC_GROUP_TBL19;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL19 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL20";
tr 50 M=MMU_IPMC_GROUP_TBL20;
tr 51 M=MMU_IPMC_GROUP_TBL20;
tr 52 M=MMU_IPMC_GROUP_TBL20;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL20 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL21";
tr 50 M=MMU_IPMC_GROUP_TBL21;
tr 51 M=MMU_IPMC_GROUP_TBL21;
tr 52 M=MMU_IPMC_GROUP_TBL21;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL21 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL22";
tr 50 M=MMU_IPMC_GROUP_TBL22;
tr 51 M=MMU_IPMC_GROUP_TBL22;
tr 52 M=MMU_IPMC_GROUP_TBL22;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL22 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL23";
tr 50 M=MMU_IPMC_GROUP_TBL23;
tr 51 M=MMU_IPMC_GROUP_TBL23;
tr 52 M=MMU_IPMC_GROUP_TBL23;
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL23 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL24";
tr 50 M=MMU_IPMC_GROUP_TBL24;
tr 51 M=MMU_IPMC_GROUP_TBL24;
tr 52 M=MMU_IPMC_GROUP_TBL24;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL24 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL25";
tr 50 M=MMU_IPMC_GROUP_TBL25;
tr 51 M=MMU_IPMC_GROUP_TBL25;
tr 52 M=MMU_IPMC_GROUP_TBL25;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL25 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL26";
tr 50 M=MMU_IPMC_GROUP_TBL26;
tr 51 M=MMU_IPMC_GROUP_TBL26;
tr 52 M=MMU_IPMC_GROUP_TBL26;
```

```
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL26 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL27";
tr 50 M=MMU_IPMC_GROUP_TBL27;
tr 51 M=MMU_IPMC_GROUP_TBL27;
tr 52 M=MMU_IPMC_GROUP_TBL27;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL27 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL28";
tr 50 M=MMU_IPMC_GROUP_TBL28;
tr 51 M=MMU_IPMC_GROUP_TBL28;
tr 52 M=MMU_IPMC_GROUP_TBL28;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL28 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL29";
tr 50 M=MMU_IPMC_GROUP_TBL29;
tr 51 M=MMU_IPMC_GROUP_TBL29;
tr 52 M=MMU_IPMC_GROUP_TBL29;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL29 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL30";
tr 50 M=MMU_IPMC_GROUP_TBL30;
tr 51 M=MMU_IPMC_GROUP_TBL30;
tr 52 M=MMU_IPMC_GROUP_TBL30;
tr 71 M=MMU_IPMC_GROUP_TBL30 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL30 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL30 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL31";
tr 50 M=MMU_IPMC_GROUP_TBL31;
tr 51 M=MMU_IPMC_GROUP_TBL31;
tr 52 M=MMU_IPMC_GROUP_TBL31;
tr 71 M=MMU_IPMC_GROUP_TBL31 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL31 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL31 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
```

```
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL5";
tr 50 M=MMU_IPMC_GROUP_TBL5;
tr 51 M=MMU_IPMC_GROUP_TBL5;
tr 52 M=MMU_IPMC_GROUP_TBL5;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL6";
tr 50 M=MMU_IPMC_GROUP_TBL6;
tr 51 M=MMU_IPMC_GROUP_TBL6;
tr 52 M=MMU_IPMC_GROUP_TBL6;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL6 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL7";
tr 50 M=MMU_IPMC_GROUP_TBL7;
tr 51 M=MMU_IPMC_GROUP_TBL7;
tr 52 M=MMU_IPMC_GROUP_TBL7;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL7 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL8";
tr 50 M=MMU_IPMC_GROUP_TBL8;
tr 51 M=MMU_IPMC_GROUP_TBL8;
tr 52 M=MMU_IPMC_GROUP_TBL8;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL8 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL9";
tr 50 M=MMU_IPMC_GROUP_TBL9;
tr 51 M=MMU_IPMC_GROUP_TBL9;
tr 52 M=MMU_IPMC_GROUP_TBL9;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL9 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
```

```
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
tr 71 M=MODPORT_MAP_EM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
tr 71 M=MODPORT_MAP_IM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " OAM_LM_COUNTERS";
tr 50 M=OAM_LM_COUNTERS;
tr 51 M=OAM_LM_COUNTERS;
tr 52 M=OAM_LM_COUNTERS;
tr 71 M=OAM_LM_COUNTERS TSE=F SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=T;
tr 71 M=OAM_LM_COUNTERS TSE=T SLTH=F;
echo " OAM_OPCODE_CONTROL_PROFILE";
tr 50 M=OAM_OPCODE_CONTROL_PROFILE;
tr 51 M=OAM_OPCODE_CONTROL_PROFILE;
tr 52 M=OAM_OPCODE_CONTROL_PROFILE;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
tr 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
echo " PAYLOAD_TOS_FN";
```

```
tr 50 M=PAYLOAD_TOS_FN;
tr 51 M=PAYLOAD_TOS_FN;
tr 52 M=PAYLOAD_TOS_FN;
tr 71 M=PAYLOAD_TOS_FN TSE=F SLTH=T;
tr 71 M=PAYLOAD_TOS_FN TSE=T SLTH=T;
tr 71 M=PAYLOAD_TOS_FN TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
echo " RESPONSIVE_PROTOCOL_MATCH";
tr 50 M=RESPONSIVE_PROTOCOL_MATCH;
tr 51 M=RESPONSIVE_PROTOCOL_MATCH;
tr 52 M=RESPONSIVE_PROTOCOL_MATCH;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=F SLTH=T;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=T SLTH=T;
tr 71 M=RESPONSIVE_PROTOCOL_MATCH TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
```

```
echo " SER_MEMORY";
tr 50 M=SER_MEMORY;
tr 51 M=SER_MEMORY;
tr 52 M=SER_MEMORY;
tr 71 M=SER_MEMORY TSE=F SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=T;
tr 71 M=SER_MEMORY TSE=T SLTH=F;
echo " SER_RESULT_0";
tr 50 M=SER_RESULT_0;
#tr 51 M=SER_RESULT_0;
#tr 52 M=SER_RESULT_0;
tr 71 M=SER_RESULT_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_0 TSE=T SLTH=F;
echo " SER_RESULT_1";
tr 50 M=SER_RESULT_1;
#tr 51 M=SER_RESULT_1;
#tr 52 M=SER_RESULT_1;
tr 71 M=SER_RESULT_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_1 TSE=T SLTH=F;
echo " SER_RESULT_DATA_0";
tr 50 M=SER_RESULT_DATA_0;
#tr 51 M=SER_RESULT_DATA_0;
#tr 52 M=SER_RESULT_DATA_0;
tr 71 M=SER_RESULT_DATA_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_0 TSE=T SLTH=F;
echo " SER_RESULT_DATA_1";
tr 50 M=SER_RESULT_DATA_1;
#tr 51 M=SER_RESULT_DATA_1;
#tr 52 M=SER_RESULT_DATA_1;
tr 71 M=SER_RESULT_DATA_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=T;
tr 71 M=SER_RESULT_DATA_1 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_0";
tr 50 M=SER_RESULT_EXPECTED_0;
#tr 51 M=SER_RESULT_EXPECTED_0;
#tr 52 M=SER_RESULT_EXPECTED_0;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=F;
echo " SER_RESULT_EXPECTED_1";
tr 50 M=SER_RESULT_EXPECTED_1;
#tr 51 M=SER_RESULT_EXPECTED_1;
#tr 52 M=SER_RESULT_EXPECTED_1;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=F SLTH=T;
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=T;
```

```
tr 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_MODBASE";
tr 50 M=SOURCE_TRUNK_MAP_MODBASE;
tr 51 M=SOURCE_TRUNK_MAP_MODBASE;
tr 52 M=SOURCE_TRUNK_MAP_MODBASE;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
tr 71 M=SRC_MODID_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE_MODBASE";
tr 50 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 52 M=SYSTEM_CONFIG_TABLE_MODBASE;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
```

```
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_EGR_MASK";
tr 50 M=TRUNK_EGR_MASK;
tr 51 M=TRUNK_EGR_MASK;
tr 52 M=TRUNK_EGR_MASK;
tr 71 M=TRUNK_EGR_MASK TSE=F SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
```

```
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
```

```
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
if !$?BCM5343X_A0 \
 'echo " VLAN_SUBNET"; \
 tr 50 M=VLAN_SUBNET; \
 tr 51 M=VLAN_SUBNET; \
 tr 52 M=VLAN_SUBNET; \
 tr 71 M=VLAN_SUBNET TSE=F SLTH=T; \
 tr 71 M=VLAN_SUBNET TSE=T SLTH=T; \
 tr 71 M=VLAN_SUBNET TSE=T SLTH=F; \
 echo " VLAN_SUBNET_DATA_ONLY"; \
 tr 50 M=VLAN_SUBNET_DATA_ONLY; \
 tr 51 M=VLAN_SUBNET_DATA_ONLY; \
 tr 52 M=VLAN_SUBNET_DATA_ONLY; \
 tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T; \
 tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T; \
 tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F; \
 echo " VLAN_SUBNET_ONLY"; \
 tr 50 M=VLAN_SUBNET_ONLY; \
 tr 51 M=VLAN_SUBNET_ONLY; \
 tr 52 M=VLAN_SUBNET_ONLY; \
 tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T; \
 tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T; \
 tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;'
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;


echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
```

```
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
tr 71 M=CBPCELLHEADER TSE=F SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=T;
tr 71 M=CBPCELLHEADER TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPPKTHEADER0";
tr 50 M=CBPPKTHEADER0;
tr 51 M=CBPPKTHEADER0;
tr 52 M=CBPPKTHEADER0;
tr 71 M=CBPPKTHEADER0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0 TSE=T SLTH=F;
echo " CBPPKTHEADER1";
tr 50 M=CBPPKTHEADER1;
tr 51 M=CBPPKTHEADER1;
tr 52 M=CBPPKTHEADER1;
tr 71 M=CBPPKTHEADER1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER_EXT";
tr 50 M=CBPPKTHEADER_EXT;
tr 51 M=CBPPKTHEADER_EXT;
tr 52 M=CBPPKTHEADER_EXT;
tr 71 M=CBPPKTHEADER_EXT TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER_EXT TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER_EXT TSE=T SLTH=F;
echo " MMU_WRED_UC_QUEUE_CONFIG";
tr 50 M=MMU_WRED_UC_QUEUE_CONFIG;
tr 51 M=MMU_WRED_UC_QUEUE_CONFIG;
tr 52 M=MMU_WRED_UC_QUEUE_CONFIG;
```

```
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=F SLTH=T;
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=T SLTH=T;
tr 71 M=MMU_WRED_UC_QUEUE_CONFIG TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_GREEN";
tr 50 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 51 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 52 M=MMU_WRED_DROP_PROFILE_GREEN;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_GREEN TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_RED";
tr 50 M=MMU_WRED_DROP_PROFILE_RED;
tr 51 M=MMU_WRED_DROP_PROFILE_RED;
tr 52 M=MMU_WRED_DROP_PROFILE_RED;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_RED TSE=T SLTH=F;
echo " MMU_WRED_DROP_PROFILE_YELLOW";
tr 50 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 51 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 52 M=MMU_WRED_DROP_PROFILE_YELLOW;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=F SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=T SLTH=T;
tr 71 M=MMU_WRED_DROP_PROFILE_YELLOW TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_GREEN";
tr 50 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 51 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 52 M=MMU_WRED_MARK_PROFILE_GREEN;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_GREEN TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_RED";
tr 50 M=MMU_WRED_MARK_PROFILE_RED;
tr 51 M=MMU_WRED_MARK_PROFILE_RED;
tr 52 M=MMU_WRED_MARK_PROFILE_RED;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_RED TSE=T SLTH=F;
echo " MMU_WRED_MARK_PROFILE_YELLOW";
tr 50 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 51 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 52 M=MMU_WRED_MARK_PROFILE_YELLOW;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=F SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=T SLTH=T;
tr 71 M=MMU_WRED_MARK_PROFILE_YELLOW TSE=T SLTH=F;

echo " SER_ACC_TYPE_MAP";
tr 50 M=SER_ACC_TYPE_MAP;
```

```
tr 51 M=SER_ACC_TYPE_MAP;
tr 52 M=SER_ACC_TYPE_MAP;
tr 71 M=SER_ACC_TYPE_MAP TSE=F SLTH=T;
tr 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=T;
tr 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=F;

#The BUCKETf will be updated if MISCCONFIG.METERING_CLK_ENf=1
# The bit will be set after doing init misc
echo " MMU_MAX_BUCKET_EVEN";
tr 50 M=MMU_MAX_BUCKET_EVEN;
tr 51 M=MMU_MAX_BUCKET_EVEN;
tr 52 M=MMU_MAX_BUCKET_EVEN;
tr 71 M=MMU_MAX_BUCKET_EVEN TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_EVEN TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_EVEN TSE=T SLTH=F;
echo " MMU_MAX_BUCKET_ODD";
tr 50 M=MMU_MAX_BUCKET_ODD;
tr 51 M=MMU_MAX_BUCKET_ODD;
tr 52 M=MMU_MAX_BUCKET_ODD;
tr 71 M=MMU_MAX_BUCKET_ODD TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_ODD TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_ODD TSE=T SLTH=F;
echo " MMU_MIN_BUCKET_EVEN";
tr 50 M=MMU_MIN_BUCKET_EVEN;
tr 51 M=MMU_MIN_BUCKET_EVEN;
tr 52 M=MMU_MIN_BUCKET_EVEN;
tr 71 M=MMU_MIN_BUCKET_EVEN TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_EVEN TSE=T SLTH=T;
tr 71 M=MMU_MIN_BUCKET_EVEN TSE=T SLTH=F;
tr 51 M=MMU_MIN_BUCKET_ODD;
echo " MMU_MIN_BUCKET_ODD";
tr 50 M=MMU_MIN_BUCKET_ODD;
tr 52 M=MMU_MIN_BUCKET_ODD;
tr 71 M=MMU_MIN_BUCKET_ODD TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_ODD TSE=T SLTH=T;
tr 71 M=MMU_MIN_BUCKET_ODD TSE=T SLTH=F;

#It doesn't support read. Write also require MMU_MIN_BUCKET_ODDother commends.
#echo " XLPORT_WC_UCMEM_DATA";
#tr 50 M=XLPORT_WC_UCMEM_DATA;
#tr 51 M=XLPORT_WC_UCMEM_DATA;
#tr 52 M=XLPORT_WC_UCMEM_DATA;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=F SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=T;
#tr 71 M=XLPORT_WC_UCMEM_DATA TSE=T SLTH=F;

#Need to disable WRED_REFRESH_ENf before testing
#echo " MMU_WRED_UC_QUEUE_AVG_QSIZE";
```

```
#tr 50 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 51 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 52 M=MMU_WRED_UC_QUEUE_AVG_QSIZE;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=F SLTH=T;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=T SLTH=T;
#tr 71 M=MMU_WRED_UC_QUEUE_AVG_QSIZE TSE=T SLTH=F;
#echo " MMU_WRED_MARK_THD";
#tr 50 M=MMU_WRED_MARK_THD;
#tr 51 M=MMU_WRED_MARK_THD;
#tr 52 M=MMU_WRED_MARK_THD;
#tr 71 M=MMU_WRED_MARK_THD TSE=F SLTH=T;
#tr 71 M=MMU_WRED_MARK_THD TSE=T SLTH=T;
#tr 71 M=MMU_WRED_MARK_THD TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
```

```
$done

if $?BCM5616X_A0 || $?BCM5616XLITE_A0 \
  'echo "Running IPV4 overflow insert test ..."; \
  tr 87 IPMCEnable=False; \
  tr 87 IPMCEnable=True; \
  echo "Running IPV4 hash test ..."; \
  tr 88 IPMCEnable=False; \
  tr 88 IPMCEnable=True; \
  echo "Running IPV6 overflow insert test ..."; \
  tr 85 IPMCEnable=False; \
  tr 85 IPMCEnable=True; \
  echo "Running IPV6 hash test ..."; \
  tr 86 IPMCEnable=False; \
  tr 86 IPMCEnable=True;'

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done
#no mpls in hurricane3
#echo "Running MPLS overflow insert test ..."
#tr 104
#$done

#echo "Running MPLS hash tests ..."
#tr 105 hash=0
#tr 105 hash=1
```

```
#tr 105 hash=2
#tr 105 hash=3
#tr 105 hash=4
#tr 105 hash=5
#$done

echo "Running Software Error Recovery ..."
tr 144 testType=spread
$done

# Disable the link thread while testing the tr 60
# Reload rc will restart the link thread, so set rct=false before testing
set rct=false
rcload rc.soc
linkscan off

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done
# Re-initialize to set rct=true after tr 60 testing
set rct=true

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
```

```
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e
$done

echo "Running MAC loopback TR 18 on all ports ..."
tr 18 pbm=ge speed=10
tr 18 pbm=ge speed=100
tr 18 pbm=ge speed=1000
tr 18 pbm=xe speed=MAX
tr 18 pbm=hg speed=MAX
$done

echo "Running PHY loopback TR 19 on all ports ..."
tr 19 pbm=ge speed=10
tr 19 pbm=ge speed=100
tr 19 pbm=ge speed=1000
tr 19 pbm=xe speed=MAX
tr 19 pbm=hg speed=MAX
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge
tr 72 RM=MAC PBM=xe
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=ge
tr 72 RM=PHY PBM=xe
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73
$done

#Reload Test
echo "TX Reload Test"
tr 90 port=ge0

echo "RX Reload Test"
tr 91 port=ge1 TxPktCount=10

# Show status
date
tl
```

```
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hr3sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        policer.h
* Purpose:     policer internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/policer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_chk.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip self-check operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_chk.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_group_member_list.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver\DNX_SAND\Utils\src\dnx_sand_group_member_list.c
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Utils/sand_group_member_list.c
No license file was found, but licenses were detected in source scan.

```
# $Id: hsanity.soc,v 1.12 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Sanity script for BCM5670/BCM5671/BCM5675/BCM5676
#
# Note: on 5671/5676, only ports 1, 3, 6, 8 are valid (hg0, hg2, hg5, hg7)
#
# Note: if pbmp_valid is 0x14b because you are running BCM5670 as a
# BCM5671 or BCM5675 as a BCM5676, then set the following variable to tell
# this script that is what you are doing:
#
# setenv herc4 1
#
# External loopbacks are not done by default because external cabling
# is required.  See below for variable settings that cause external
# loopbacks to be run.
#

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

linkscan off
set rcerror=f

local done 'echo "   Done"'
```

```
if $?BCM5671_A0 || $?BCM5671_A1 \
 "local herc4 1"

if $?BCM5676_A0 || $?BCM5676_A1 \
 "local herc4_15 1"

if $?black_knight || $?white_knight \
 "local knight 1"

if $?knight || $?lancelot || $?merlin || $?guenevere \
 "local knightly 1"

if $?herc8_15 \
 "local herc8 1"

if $?herc4_15 \
 "local herc4 1"

if $?herc4 "echo NOTE: Assuming 4-port configuration"

# re-init
rcload rc.soc

if $?extall \
 "pause Please ensure external loopback cables are plugged in."

echo "Running CPU benchmarks ..."
tr 21
$done

echo "Running PCI tests ..."
tr 2
$done

echo "Running register tests ..."
tr 3
$done

echo "Running S-Channel message buffer test ..."
tr 4
$done

echo "Running Memory tests ..."
echo "   XQ";   tr 50 m=XQ; tr 51 m=XQ
echo "   LLA";   tr 50 m=LLA; tr 51 m=LLA
echo "   MC";   tr 50 m=MC; tr 51 m=MC
echo "   UC";   tr 50 m=UC; tr 51 m=UC
```

```
echo "   VID";   tr 50 m=VID; tr 51 m=VID
echo "   PP";   tr 50 m=PP; tr 51 m=PP

if $?herc15 'echo "   EMODMAP"; tr 50 m=EMODMAP; tr 51 m=EMODMAP'
if $?herc15 'echo "   IMODMAP"; tr 50 m=IMODMAP; tr 51 m=IMODMAP'
if $?herc15 'echo "   MODBLK"; tr 50 m=MODBLK; tr 51 m=MODBLK'
if $?herc15 'echo "   TRKPOOL"; tr 50 m=TRKPOOL; tr 51 m=TRKPOOL'
if $?herc15 'echo "   IPMC"; tr 50 m=IPMC; tr 51 m=IPMC'

# Memories not yet tested by default
#if $?herc15 'echo "   INGBUF"; tr 50 m=INGBUF; tr 51 m=INGBUF'
#if $?herc15 'echo "   XQ_PTRS"; tr 50 m=XQ_PTRS; tr 51 m=XQ_PTRS'
$done

#set rctest=f
set rcerror=f
#debug +test

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off


echo Testing CPU DMA, Scatter/Gather Reload ...
tr 22
$done

echo Testing CPU DMA, Scatter/Gather Simple ...
tr 23
$done

echo Testing CPU DMA, Scatter/Gather Random ...
tr 24
$done

echo "Running MAC loopback on all ports ..."
tr 18 dmod=25 smi=47 dmi=23 pi=0x01010101 vl=14
$done

# Test PHY loopback, one port at a time.
echo "Running PHY loopback on all ports ..."
tr 19 dmod=13 smi=9 dmi=37 pi=0x01020304 vl=57
$done

echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two
$done
```

```
echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 hgdmod=19 smi=103 dmi=42 pi=0x11335577 vl=427 sendm=single
$done

# Not ready for prime-time
#echo "Running PHY loopback V2 on all ports ..."
#tr 49 hgdmod=21 smi=52 dmi=83 pi=0x01204007 vl=39 sendm=array
#$done

#--------- EXT Loopback ---------

# If external Higig loopback cables are connected, external loopbacks
# may be performed by setting the extall variable:
# setenv extall 1
# The loopbacks that run are platform-dependent and are run on
# adjacent pairs of connectors:
# white_knight:  one external cable
# merlin:   one external cable
# lancelot:  two external cables
# herc8, herc8_15: four external cables
# herc4, herc4_15: two external cables
# guenevere:  one external cables

if $?extall \
 "rcload rc.soc"

if $?extall && $?herc8 "\
 echo 'External Loopback Port1->Port2 ...'; \
 tr 20 tpbm=hg0 di=1; \
 echo 'External Loopback Port2->Port1 ...'; \
 tr 20 tpbm=hg1 di=-1; \
 \
 echo 'External Loopback Port3->Port4 ...'; \
 tr 20 tpbm=hg2 di=1; \
 echo 'External Loopback Port4->Port3 ...'; \
 tr 20 tpbm=hg3 di=-1; \
 \
 echo 'External Loopback Port5->Port6 ...'; \
 tr 20 tpbm=hg4 di=1; \
 echo 'External Loopback Port6->Port5 ...'; \
 tr 20 tpbm=hg5 di=-1; \
 \
 echo 'External Loopback Port7->Port8 ...'; \
 tr 20 tpbm=hg6 di=1; \
```

```
 echo 'External Loopback Port8->Port7 ...'; \
 tr 20 tpbm=hg7 di=-1"

if $?extall && $?herc4 && !$?knightly "\
 echo 'External Loopback Port1->Port2 ...'; \
 tr 20 tpbm=hg0 di=1; \
 echo 'External Loopback Port2->Port1 ...'; \
 tr 20 tpbm=hg1 di=-1; \
 \
 echo 'External Loopback Port3->Port4 ...'; \
 tr 20 tpbm=hg2 di=1; \
 echo 'External Loopback Port4->Port3 ...'; \
 tr 20 tpbm=hg3 di=-1"

if $?extall && $?white_knight "\
 echo 'External Loopback Port2->Port3 ...'; \
 tr 20 tpbm=hg1 di=1; \
 echo 'External Loopback Port3->Port2 ...'; \
 tr 20 tpbm=hg2 di=-1"

if $?extall && $?merlin "\
 echo 'External Loopback Port2->Port3 ...'; \
 tr 20 tpbm=hg1 di=1; \
 echo 'External Loopback Port3->Port2 ...'; \
 tr 20 tpbm=hg2 di=-1"

if $?extall && $?lancelot "\
 echo 'External Loopback Port3->Port4 ...'; \
 tr 20 tpbm=hg2 di=1; \
 echo 'External Loopback Port4->Port3 ...'; \
 tr 20 tpbm=hg3 di=-1; \
 \
 echo 'External Loopback Port5->Port6 ...'; \
 tr 20 tpbm=hg4 di=1; \
 echo 'External Loopback Port6->Port5 ...'; \
 tr 20 tpbm=hg5 di=-1"

if $?extall && $?guenevere "\
 echo 'External Loopback Port3->Port4 ...'; \
 tr 20 tpbm=hg2 di=1; \
 echo 'External Loopback Port4->Port3 ...'; \
 tr 20 tpbm=hg3 di=-1"

# Traffic test
# (This test can be run in external mode but that is not currently done)

echo 'Running Traffic test on all ports for one minute in Phy Mode ...'
tr 72 TIS=60 CPI=5 RM=Phy SP=MAX L=1500 PBM=hg
```

```
rcload rc.soc

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/hsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_48x1g_1xhg127.h,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_48x1g_1xhg127.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_fabric.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1BEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1BEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x_syms.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8806x/include/phy8806x_syms.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.3 Broadcom SDK
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/robo/cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: intenum.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: intenum.h
* Purpose: Enumerated types for fields, memories, registers
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/intenum.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_l2_learning.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_l2_learning.c
* Purpose: Example of how to set learning with up to two devices
*
* The devices support automatic (hardware) learning of L2 addresses across devices in the system.
* Learning can occur at the ingress or at the egress. With ingress learning (the default),
* a device learns the reachable MAC addresses at both the ingress and the egress. With egress
* learning, a device learns the reachable MAC addresses at the egress only.
* Learning can be centralized or distributed. In centralized learning, all MACT events
* (Learn, Refresh, Aging) are sent to the CPU, which manages a global MAC table and distributes
* the changes to all devices. In distributed learning, each device manages its own local MAC table
* event and notifies all other devices of the changes via inband DSP packets.
*
* MAC Table Learning Modes:
* MAC table learning is set by the following:
* bcm_switch_control_set(unit, bcmSwitchL2LearnMode, BCM_L2_EGRESS_DIST);
*
* Other modes are:
*  -   BCM_L2_EGRESS_DIST
*  -   BCM_L2_EGRESS_CENT
*  -   BCM_L2_EGRESS_INDEPENDENT
*  -   BCM_L2_INGRESS_DIST
*  -   BCM_L2_INGRESS_CENT
*
* MACT Learning Message Encapsulation
* To define an encapsulation of learning messages for all learning devices that are monitoring an
* Ethernet packet, use the following constructs:
* bcm_l2_learn_msgs_config_set(unit, learn_msgs);
*
* bcm_l2_learn_msgs_config_s{
*     uint32          flags;
*     bcm_gport_t      dest_port;     *Destination port*
*     bcm_multicast_t  dest_group;    *Destination group*
* *L2 encapsulation info*
*     bcm_vlan_t vlan;
*     uint16 vlan_prio;
*     uint16 ether_type;        *Ethernet II frame or 802.1Q*
*     bcm_mac_t src_mac_addr;   *L2: SA*
*     bcm_mac_t dst_mac_addr;   *L2: DA*
*
* } bcm_l2_learn_msgs_config_t
*
* flags =
*  -   BCM_L2_LEARN_MSG_DEST_MULTICAST- The destination of the learning message is dest_group.
*      Otherwise, the destination is dest_port.
*  -   BCM_L2_LEARN_MSG_ETH_ENCAP- The Learn DSP message is encapsulated with an Ethernet header.
```

```
* -   BCM_L2_LEARN_MSG_LEARNING- This definition applies DSP learn messages to Learning devices.

* -   BCM_L2_LEARN_MSG_SHADOW- This definition applies DSP learn messages to Shadow MACT
*      monitoring CPU MAC table aging rate.
*
* CINT Usage:
*  1.  Open multicast 4500.
*  2.  Add to the multicast port 79 of each attached device.
*      Note: Port 79 is an internal port used for sending and receiving learning messages.

*  3.  Add a network port to the multicast, so that copies of the learning messages will be sent
*      to the multicast ports.
*  4.  Call bcm_l2_learn_msgs_config_set() which will do the following:
*      a.  Configure the destination of learning messages to be multicast 4500.
*      b.  Set the Ethernet header (SA,DA, Ether-type) of the learning messages.

*  5.  Call bcm_switch_control_set(unit, bcmSwitchL2LearnMode, BCM_L2_EGRESS_DIST).

*      a.  Set learning mode to be egress-distributed.
*  6.  Send an Ethernet packet with unknown SA. This will cause the device to generate learning messages
*      and send them over multicast 4500.
*
* To Active Above Settings Run:
*   BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/cint_l2_learning.c
*      BCM> cint
*      cint> l2_learning_run_with_defaults(unit, other_unit);
* Pass other_unit as -1 if the system consists of only 1 device.
* The first parameter should be the master unit.
*
* Scrip Adjustment
*  You can adjust the following attribute of the application:
*  -      Number of devices in system, calling l2_learning_run with one/two unit ids.
*  -      ports[1] = 1;                    *network port to send learning information to*
*  -      l2_learning_info1.nof_ports = 2;    *1 to send only to devices in the system*
*                                          *2 to send also to network port*
*  -      l2_learning_info1.mc_id = 4500;     *multicast group used for learning*
*  Note: The learning port (for example, ports[0]) must be 79.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_learning_multi_device.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c24LC128Eeprom.c,v 1.7 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2c24LC128Eeprom.c
No license file was found, but licenses were detected in source scan.

/*
/* $Copyright: (c) 2016 Broadcom.
/* Broadcom Proprietary and Confidential. All rights reserved.$
Id
*/
/*!
\page XLMAC-TSCE-doc MAC-PHY (PM4X10) Interface Documentation

\tableofcontents

XLMAC-TSCE Interface

\section tsc-mac-intr Introduction

The physical interface of TDM based SerDes Controller (TSC) and Media Access Controller (MAC) is a Broadcom proprietary Reconciliation Sublayer (RS). But logically this interface complies with IEEE RS specification. RS function is implemented in the MAC. XLMAC is a 40G Ethernet MAC and TSCE is the 28nm TSC PHY with the Eagle (12.5G) PMA/PMD.

\section tsc-mac-clk CLOCKS

In the MAC-TSC interface (MSI) the PHY sends clocks to the MAC. This clock is called the TSC_CLK_O. The PHY is provided with an external clock called the REF_CLK. The PLL in the PMD sublayer of the PHY generates a TSC_CLK. If the PLL is still waking up or is quisced for some other reason, the TSC_CLK is set to REF_CLK. This ensures the TXP and RXP (etc.) can be controlled, reset, etc., with a running clock. Once the PLL is up and running, the TSC_CLK is glitchlessly switched to the standard frequency which is the PLL_FREQ/16 (also called VCO/16). If the PLL goes down for whatever reason, the TSC_CLK will revert to REF_CLK, again glitchlessly.

In XLMAC-TSC design there is no source synchronous data/clock. XLMAC and TSC (PCS portion) are synthesized with the same TSC_CLK.

The TSC_CLK also clocks the 8051 uController and associated logic within the PMD sublayer.

\section tsc-mac-tdm TX_TDM & TX_PORT_NUMBER

TSC generates a free running TDM. It is a 2 bit counter, continuously rotating through 0,1,2,3 - 0,1,2,3
In single port mode all these TDM slots are assigned to the same port. But in multi-port mode the TDM slots are distributed as follow:
- 1 port mode:
    -# Port0 is assigned to TDM0-TDM3
- 4 port mode:
    -# Port0 is assigned to TDM0
    -# Port1 is assigned to TDM1
    -# Port2 is assigned to TDM2
    -# Port3 is assigned to TDM3
- 2 two port mode:
    -# Port0 gets assigned to TDM0-TDM1
    -# Port2 gets TDM2-TDM3 slots.
- 3 port mode(TRI1):
    -# Port0 gets TDM0-TDM1
    -# Port2 gets TDM2
    -# Port3 gets TDM3
- 3 port mode(TRI2):
    -# Port0 gets TDM0
    -# Port1 gets TDM1
    -# Port2 getsTDM2-TDM3

XLMAC will map the TDM numbers (slots) to the port number indicated by TSC. When XLMAC transmits data, it will use the same TDM numbers (mac_tx_tdm[1:0]) for the corresponding port (mac_tx_port_number[1:0]). Because of this any time TSC port mode changes, XLMAC will need a complete reset. XLMAC continues to respond back mac_tx_tdm and mac_tx_port_number even when XLMAC is in soft reset to avoid any interruption in TSC pipeline.

\section tsc-mac-cred CREDITS

The TSCE sends credits to XLMAC to controls the rate at which the XLMAC sends data to the line. Therefore setting the speed mode in the XLAMC is for information only, it does not have any logical impact. Each credit tells the XLMAC to send data (IDLEs/Remote FAULTs or packet data depending on the state of the link) to the TSCE. Credits (port_n_credit[3:0]) are generated per port without any relationship to the tx_port_number[1:0] and tx_tdm[1:0].
Port_n_credit[3:0] is 4 bit signal. Each bit is assigned for each port.

- Port_n_credit[0] : port0
- Port_n_credit[1] : port1
- Port_n_credit[2] : port2
- Port_n_credit[3] : port3

Depending on the port configuration TSCE provides tx_port_number[1:0]. XLMAC ignores any credits to unused ports. Ideally TSCE will generate credits only for

the ports assigned.

The XLMAC transfers data to the TSCE with some pipeline delay once it has accumulated a credit from TSCE.

The TSCE sends data to the XLMAC based on the data rate arrives on the line side. When the link is active, the TSCE sends data received on the wire (after PCS processing) to the XLMAC. If the link is not active, the TSCE sends either IDLEs (for CL36) or Local FAULTs for other speeds.

\section tsc-mac-mmod MAC MODES

The MAC can have one of the following physical interfaces with the PHY.
- GMII
- XGMII
- XLGMII
- CGMII

Note that for CGMII three sets of MSBUSs are used to communicate between the 12-lane TSC (TSC_12) and the CMAC. TSC output TX_FORAMAT[1:0] indicates the msbus format. Based on the TX_FORMAT, MAC will now how to decode the data. In GMII mode all 10 bits of each Byte group are used. In GMII/XLGMII/CGMII 9 bits are used. In XGMII mode SOP can arrive at multiple of 4 bytes (lane0 or lane4) and in XLGMII/CGMII mode SOP will arrive in 8 lane boundaries (lane0). But BRCM XLGMII SOP can arrive at 4 Byte boundaries as special mode.
- 00: GMII
- 01: XGMII
- 10: XLGMII/CGMII

\section tsc-mac-rxlf RX_LOCAL_FAULT

This is out of band per port link fault signaling mechanism in TSCE. If TSCE receive link is not up or even CDR is not locked, this signal will go high. This signal stays low if PCS link is up. Other than rx_local_fault signal, TSCE sends local fault control sequence to the XLMAC through msbus_rx. RX_LOCAL_FAULT signals are low if the port speed is 1G or lower or if TSCE is configured in any cl36 speed mode (like 2.5G).

Operation of Local Fault/Remote Fault: If link is down or CDR is not locked, PHY generates local fault to the MAC. MAC in response will generate remote fault signals to the PHY. Remote PHY will transmit IDLES in response to the remote fault signals being received. Any PHY receiver can have link up based on Remote Fault Signal or IDLEs. When local PHY's PCS link is up, it will stop sending fault signaling to the MAC and instead PHY sends IDLES to the MAC. Once Local MAC receives IDLEs from the local PHY, it will stop transmitting remote fault and MAC will start transmitting regular IDLEs or Data.

Note: This out of band rx_local_fault signals were defined in TSCE because TSCE can't reliably generate local fault sequence on msbus_rx when CDR is not

locked.

Note: TSCE supports in band Fault signaling as well. In 10G XGMII mode, TSCE generates 4 Bytes of Sequence Ordered (0x9C, 0x00, 0x00, 0x01) for fault signaling. In XLGMII/CGMII mode TSCE generates 8 Byte Sequence Ordered Set (0x9C, 0x00, 0x00, 0x01, 0x00, 0x00, 0x00, 0x00) for fault signaling.

\section tsc-mac-msbusrx MSBUS_RX, MSBUS_RX_VALID, RX_PORT_NUMBER

TSCE receives serial data from the line and provides decoded parallel data to the XLMAC. This data bus 80 bits wide representing 8 bytes of data. msbus_rx[79:0] is valid when MSBUS_RX_VALID is high for the corresponding rx_port_number[1:0] indicated. All these data are transferred with respect to tsc_clk.
In msbus_rx[79:0], out of each 10 bits:
- Bit9: rx_error for 8b10b and ignore for other encoder.
- Bit8: data_valid (cl36) or control bit for others (1: control, 0: data)
- Bit7:0: 8bit data

\section tsc-mac-msbustx MSBUS_TX, MSBUS_TX_VALID, MAC_TX_PORT_NUMBER

XLMAC transfers data to TSCE through msbus_tx[79:0]. Data is valid if msbus_tx_valid is high for the corresponding mac_tx_port_number[1:0]. Every port is assigned to 1 or 2 or 4 tdm slots set by the TSCE. XLMAC binds the tdm slots to the port numbers and transmits data on msbus_tx with the previously bind tdm slots for that port.
In msbus_tx[79:0], out of each 10 bits:
- Bit9: tx_error for 8b10b encode and ignore for other decoder.
- Bit8: data_valid (cl36) or control bit for others clauses (1: control, 0: data)
- Bit7:0: 8bit data

\section tsc-mac-xlmactx XLMAC Transmit

XLMAC transmit rate is controlled by the credit generated by the TSCE thru port_n_credit[3:0]. Each bit is dedicated for one port i.e. 4 bits for 4 ports. XMLAC will accumulate these credits for each port with no relations to tx_port_number[1:0] and tx_tdm[1:0].
XLMAC gets tx_port_number[1:0] and tx_tdm[1:0] from TSCE and transmits those back to TSC as mac_tx_port_number[1:0] and mac_tx_tdm[1:0] maintaining tx_port_number and tx_tdm partitioning for each port. If XLMAC had any credit accumulated for that port, it will assert msbus_tx_valid along with the corresponding data msbus_tx[79:0].

\section tsc-mac-macphy XLMAC<->TSCE INTERACTION

The first independent operation is for the PHY to transmit idles. The MAC must provide idles to the PHY. MAC will only send idles if it gets credits. Hence the following sequence must happen.

-# PHY is brought out of reset. PLL is stable. Clocks are humming
-# PHY sends credits at line rate and information (portnum, TDM, format) to MAC
-# MAC sends Idles to the PHY. (data and data_valid)
-# PHY transmits IDLES to the wire.

\section tsc-mac-lpbk XLMAC loopback

Line Local Loopback mode: XLMAC routes the TX packets back to the RX, just before the packets are driven to the TSC interface. This loopback is implemented from the last pipeline stage in the TX block to the first pipeline stage in the RX block. The loopback takes place in the line clock after clock domain crossing, and data completely traverses the TX & RX pipeline stages.

This loopback can be enabled for a port by setting the LINE_LOCAL_LPBK bits. The transmit packet stats vector (TPSV) & receive packet stats vector (RPSV) will account for these packets. In order for this loopback to work, the credits from the TSC must be available for the port that is put in loopback.

For XLMAC Line Local loopback to work, credits need to be flowing from TSCE. Therefore Speed Control function of TSCE will be utilized to set the speed for appropriate credits. To set a particular speed, desired speed is set at sw_speed (sc_x4_control_control[7:0]) and then toggle sw_speed_change. i.e. Set (sc_x4_control_control[8]) to 0 and then 1).
Then program XLMAC active port/ports, set XLMAC in Line Loopback mode, release soft reset from the XLMAC. Assert TX_EN and RX_EN.

To turn off line loopback first apply XLMAC.SOFT_RESET, de-asset TX_EN and RX_EN and then turn off Line Loopback. After that release XLMAC.SOFT_RESET, assert TX_EN and RX_EN.
Once XLMAC and TSCE is completely programmed for any specific speed mode:
Set XLMAC loopback:
-# Set, in this order
 -# XLMAC.SOFT_RESET=1
 -# set TX_EN=0
 -# RX_EN=0
 -# XLMAC.LINE_LOCAL_LOOPBACK=1
-# Clear EP FIFO
-# Release soft reset and enable TX and RX
 -# XLMAC.SOFT_RESET=0
 -# TX_EN=1
 -# then RX_EN=1
Now XLMAC is ready for MAC loopback. Run the tests.

To Release XLMAC loopback:
-# Set, in this order
 -# XLMAC.SOFT_RESET=1
 -# set TX_EN=0

-# RX_EN=0
-# XLMAC.LINE_LOCAL_LOOPBACK=0
-# Clear EP FIFO
-# Release
-# XLMAC.SOFT_RESET=0
-# set TX_EN=1
-# RX_EN=1
At this time XLMAC is ready for normal operation.

\section tsc-mac-xlmisc XLMAC Misc

-# On TX direction XLMAC contains a Clock Domain Crossing (CDC) FIFO. Anytime a soft reset is applied to any port, subsequently a reset needs to be applied to the corresponding CDC-FIFO.
-# While XLMAC is in soft reset, TSCE credits are acknowledged.
-# In GMII mode variable preamble mode need to be programmed to accept packets preamble + SFD less than 8 Bytes.

\section tsc-mac-pm4x10 Port Macro, PM4X10

Port Macro is a hard macro that integrates MAC, RS, PCS and PMA/PMD layers. PM4X10 contains MIB statistics and other ancillary logic. MAC (XLMAC) can be configured into single/dual/triple/quad port modes. It can handle 10Mbps to 42Gbps data rate. PCS can perform CL36, CL48, CL49, CL82, CL37 (AN), CL73 (AN), BRCM64b66b, CL74 (FEC) etc. PMA/PMD supports per lane 1.25Gbps to 12.5Gbps. The PM4X10 consists of TSC_4_E and PM4X10_Core. PM4X10_Core consists of XLMAC and PORT glue logic. The TSC_4_E is based on the 28 nm Eagle Analog block. This ANA_WARPCORE11G analog supports up to 10.3125G on a single lane. The Eagle DSC design is used in the PMA_PMD for the TSC_4_E. This design uses a XLMAC since support of speeds of only up to 1X40GE is required. The glue logic in the PORT MACRO integrates the designs together, implements the MIB and EEE counters. The glue logic also provides a mechanism to access the registers in XLMAC and TSC_4_E. Here is block diagram of Port Macro, PM4X10.

@image html pm4x10.jpg "Basic Block diagram for PM4x10"

\section tsc-mac-bup PM4X10 bring up Sequence

This section describes general sequence of powering up a port macro.

-# Apply Digital power supply and then apply Analog power supply. At this time TSCE, and XLMAC are in hard reset (core_rst_l). All MIB statistics are clear.
-# Once power supply is stable and a stable clock is applied, take PM4x10 out of hard reset, then take XLMAC out of hard reset. Then when a stable reference clock is applied, release the hard reset to TSCE. XLMAC is still at soft_reset.
-# Program the appropriate port mode in the PortMacro. This port information will be sent to XLMAC.
-# Clear all MIB counters.

-# Initialize TSCE in proper sequence. See TEMod doc. for more details.
-# bring up PLL
-# program for lane_swap, (both PMD and PCS)
-# load microcode
-# program PMD core and lanes. TX settings, OS, polarity, and media type etc.
-# program PCS through Speed Control register.

At this time PLL is up and TSC_CLOCK is stable. Tx_format, port_n_credit, tx_tdm, and tx_port_number are chugging on in the correct sequence. MAC still is in soft-reset. But XLMAC does respond to credits with tx_format appropriate IDLES or remote_fault signals to the TSCE. At this time TSCE should link up with link partner if partner is also enabled.

-# When PHY link up is seen, Initialize MAC for the packet format, port speed and the feature specific registers (eg. IPG, preamble, runt_threshold, pad_en, PAUSE/PFC/LLFC/E2EFC/E2ECC, 1588 and EEE registers).

-# Take MAC out of soft reset. MAC_CTRL.SOFT_RESET, and enable MAC RX_EN and TX_EN.

Note: Flexporting may never need hard reset.

\section tsc-mac-prog PM4X10 Detail programming sequence

Programming sequence starts at lower level and then moves up. First Eagle (PMA/PMD) is configured, then PCS_TSC4E (PCS) portion is configured, then XLMAC is programmed and then finally other associated blocks like Clock Domain Crossing FIFO (CDC FIFO) and MIB counters are cleared.
To start with apply stable power supply and reference clock (typically 156.25MHz) and then its resets are released.
-# Apply Digital power supply and then apply Analog power supply. At this time TSCE, XLMAC are at hard reset (core_rst_l).
-# Core clock to PORT MACRO is toggling and stable.
-# De-assert PM4x10 hard reset core_rst_l. This brings all PORT logic out of reset.
-# XLMAC has a secondary soft reset. The default condition is that this reset is asserted, keeping MACs in reset.
-# De-assert MAC hard reset. Clear PORT_MAC_CONTROL.XMAC0_RESET=0.
-# De-assert TSC hard reset. Set PORT_XGXS0_CTRL_REG.RSTB_HW=1.
-# Program the appropriate port mode in the PortMacro. This port information will be sent to XLMAC.
-# Clear all MIB counters.
-# Initialize PMD Core of Eagle
-# Clear the PMD power down pins (PCS bits: pmd_x4_control.ln_tx_h_pwrdn and pmd_x4_control.ln_rx_h_pwrdn)
-# Take PMD core out of reset (PCS bits: pmd_x1_control.por_h_rstb and pmd_x1_control.core_dp_h_rstb). This will release pmd__por_h_rstb and pmd_por_h_rstb pins of PMD.
-# Program PMD bits: hearbeat_count_1us (0x271 for 156.25MHz refclk), refclk_divcnt (0x186A for 156.25MHz refclk), refclk_divcnt_sel (0x2 for

156.25MHz refclk). Note: At reset, all other timer/register fields are loaded
with normal operating values.
-# Load Micro code and verify. Use API.
-# Set uc_active=1
-# De-assert 8051 reset (micro_mdio_dw8051_reset_n=1)
-# After 10ms, poll for uc_dsc_ready_for_cmd=1 for all lanes (minimum wait
time will be refined in next document version)
-# Lane Swap and Polarity inversion related configurations at PMD level.
(Note: lane swap involves programming at PMD and PCS both).
-# Configure PLL using API: pll_mode (0xA/0x2 for 10.3125G/6.25G VCO)
-# Configure Core level micro RAM variables: core_cfg_from_pcs and vco_rate
-# Release core_dp_s_rstb in PMD
-# Do Lane Confgurations: Media Type (use default), TXFIR (use default)
-# Release ln_dp_s_rstb.
Note: At this time initial PMD core initialization is done.
-# Release PMD lane reset
-# Write 1 to pmd_x4_control.ln_h_rstb. This will deassert PMD pin
pmd_ln_h_rstb[i] and enable register access to lane associated registers.
-# Write 1 to pmd_x4_control.ln_dp_h_rstb. This will allow the Speed Control
FSM to manage PMD lane datapath resets- pmd_ln_dp_h_rstb[i].
-# Program PMD lane level registers and memories as required, the set of
configuration will depend on usage of canned speeds and presence of firmware.
This step may include: setting the over-sample mode, TX and RX lane
polarity, cl72_ieee_training_enable, transmitter configuration, baud rate DFE,
scrambler_dis, media_type, cl72_mode, etc.
-# SW writes to PMD registers to release ln_dp_s_rstb - lane DP datapath soft
resets.
-# At this point the PMD was taken out of POR and lane hard resets were release,
PMD is fully configured by software and the firmware is waiting for
pmd_core_dp_h_rstb and pmd_ln_dp_h_rstb release.
-# Take PCS pipeline out of reset and allow the Speed Control to manage PCS
pipeline. [SW]
-# Set the following bits: TX_X4_Control0_misc. rstb_tx_lane,
TX_X4_Control0_misc.enable_tx_lane and RX_X4_Control0_pma_control_0. rstb_lane
-# Check for Master Port considerations.
-# If configuring first port, or if change in VCO is required: select the
master port that will perform PMD core configuration, bring down all the ports
by clearing sc_x4_control_control.sw_speed_change bit and reset by setting
Main0_setup.master_port_num, then set Main0_setup.pll_reset_en bit. This will
indicate to the Speed Control FSM to control PMD core resets. [SW]
-# For AN and only if a single port is being enable set
Main0_setup.single_port_enable instead of Main0_setup.pll_reset_en bit. [SW]
-# The firmware is waiting for PCS FSM to provide core and lane configuration
information, *dp_h_rstb signals are used to indicate to FW that the
configuration provided by PCS is valid. [FW]
-# Providing PCS configuration information to PMD and starting firmware.
-# Forced speed/Autoneg considerations
-# For Forced speed write desired speed ID to sc_x4_control_control.speed

field and set the sc_x4_control_control.sw_speed_change bit. [SW]
-# For AN configure the abilities and enable AN. [SW]
-# The Speed Control FSM sets pmd_core_mode signal and deasserts pmd_core_dp_h_rstb reset after <256> cycles delay. [HW]
-# The Speed Control FSM drives pmd_lane_mode_i signals and deasserts pmd_ln_dp_h_rstb after <256> cycles delay. Note: The FSM does not wait for any indication from PMD before deasserting lane datapath resets, so core and lane resets will be deasserted simultaneously. The assumption is that PMD will internally handle this and lane configuration by firmware will be done only ofter the PLL is locked. [HW]
-# Once the pmd_core_dp_h_rstb and pmd_ln_dp_h_rstb resets are deasserted; the firmware wakes up and uses configuration provided by PCS over the pmd_core_mode and pmd_lane_mode_i signals to finish the configuration of PMD core and lanes and enabling of the lanes. [FW]
-# Wait for link to come up. [SW]
-# Repeat for additional ports; make sure to not to set the Main0_setup.pll_reset_en bit, so the Speed Control logic does not reset PMD core again.
-# Initialize MAC for the packet format, port speed and the feature specific registers (eg. IPG, preamble, runt_threshold, pad_en, 1588, EEE, PAUSE/PFC/LLFC/E2EFC/E2ECC registers, etc.)
-# Remove soft reset and enable MAC
-# XLMAC_CTRL.SOFT_RESET=0
-# enable MAC RX_EN
-# enable MAC TX_EN

\section tsc-mac-flex PM4X10 Flex-porting Sequence

-# At the beginning of time: configure to a port mode, do all initialization and send traffic over relevant lanes.
-# Apply XLMAC Dynamic Speed Change Sequence over ports that need to change:
-# Assert EP_DISCARD, TX_DISCARD and SOFT_RESET
-# Deassert RX_EN and TX_EN
-# Initialize port :
-# Only those ports that are changing run through the init sequence. Remaining ports are untouched.
-# For XLPORT: if there are no ports common between previous and current configuration, issue a reset to XLMAC using xlport_mac_control_reset.
-# Program TSCE:
-# If VCO does not match, reset the global vars from TSC : tsc_touched, pcs_lane_swap_touched, pmd_touched
-# Reset all changing ports per lane
-# Configure all changing ports with regular TSCE init routine to bring link up
-# Initialize XLMAC per port
-# If vco has changed, all active ports are configured
-# If VCO changes, but there are no common ports between previous and current configuration, all active ports are configured.
-# For same VCO if any ports are common between previous and current

configuration, they will be in reset due to step (2). These will be brought
out of reset and configured. The remaining ports remain uninterrupted and
continue sending traffic.

\section tsc-mac-flexprog PM4X10 Flex-porting detail Sequence

Flexport consists of changing the speed or number of ports after the device has
been configured. When changing the PORT_MODE register, it is required to not
bring down sub-ports, if any, unaffected by the port mode change, while
selectively updating the affected ports. The tsc_clk frequency will not change
during a flexport change. An example of a flexport change is 4x10G to 2x20G,
1x40G for a given XLMAC. If flexporting from two dual 2x20G port mode to
tri-port mode {1x20G, 2x10g}, 1x20G port data should not be interrupted.

This sequence also applies when one or more links go down. After a link goes
down, it is possible that the links can come up in a completely different speed
mode.

-# SW disables MAC RX_EN and initiates a flush on the ports affected by the
flexport change using MAC_TX_CTRL.DISCARD and MAC_TX_CTRL.EP_DISCARD. SW
determines the affected subports are idle by polling MAC tx fifo, mmu and
edatabuf.
-# SW disables MAC TX_EN.
-# SW asserts one or more of per-port register MAC_CTRL.SOFT_RESET to prepare
the ports which will soon be active. Only those ports that are changing will be
configured. Remaining ports are not touched.
-# SW sets the new port mode by programming register PORT_MODE_REG, and the
other per-port type port registers.
-# Configure TSC with the regular TSC init routine to bring up the link.
-# Program MAC for the packet format, port speed and the feature specific
registers (eg. IPG, preamble, runt_threshold, pad_en,
PAUSE/PFC/LLFC/E2EFC/E2ECC, 1588 and EEE registers).
-# SW removes soft reset to the MAC: MAC_CTRL.SOFT_RESET, and enables MAC RX_EN
and TX_EN.
-# SW can program the TSC registers to save the power if the corresponding PORT
will not be in use.

\section tsc-mac-portdwn Port Down
To bring down a port the following sequence should be applied.
-# Force Transmit Electrical Idle at TSCE.
-# SW disables XLMAC RX_EN to the specific port.
-# SW initiates a flush on the port/ports coming down: using MAC_TX_CTRL.DISCARD
and MAC_TX_CTRL.EP_DISCARD. Poll until TX FIFO is empty.
-# Disable MAC transmit XLMAC TX_EN=0
-# Clear speed

-# SW disables MAC RX_EN and initiates a flush on the ports affected by the
flexport change using MAC_TX_CTRL.DISCARD MAC_TX_CTRL.EP_DISCARD. SW determines

the affected subports are idle by polling MAC tx fifo, mmu and edatabuf.
-# SW disables MAC TX_EN.
-# SW asserts one or more of per-port register MAC_CTRL.SOFT_RESET to prepare
the ports which will soon be active. Only those ports that are changing will be
configured. Remaining ports are not touched.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/tsce_dpll/tier1/xlm_tsc_dpll_doc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/libs/phymod/chip/tsce/tier1/xlm_tsc_doc.h
No license file was found, but licenses were detected in source scan.

/*
* Misc system wide definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmdefs.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmdefs.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: server.c
* Purpose: server BCM API dispatch driver
* Generator: mkdispatch 1.54
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/rpc/server.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: link.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	link.c
* Purpose:	BCM Linkscan module
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/link.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/link.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgMemFifoControlEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemFifoControlEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_eg_encap.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_encap.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: test_bfd.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/test_bfd.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: vlan.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84728_firmware.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84728_firmware.c
* Purpose:     BCM84728 Microcode
*
* Release July 23, 2012
*
* Checksum   = x600D  (devID 1, reg xCA1C)
* Version ID = x0124  (devID 1, reg xCE00)
* Firmware version: 0x0124 (bcm84728_fw)
* Firmware version: ?????? (bcm84748_fw)
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84728_firmware.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: fe3200_mbist.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_mbist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: chipc_i2c.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/chipc_i2c.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/chipc_i2c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy82764.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy82764.c
* Purpose:    Support for sesto external PHY
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy82764.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_debug.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_debug.c
* Purpose:    CINT debug functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_debug.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsE2QAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsE2QAddr.hx

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_l3mc.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_l3mc.c
* Purpose: This file implements techsupport utility for
*          l3mc(layer 3 multicast feature).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/l3mc/techsupport_l3mc.c
No license file was found, but licenses were detected in source scan.

```
/* file: mpc107.h - contains MPC107 register numbers and values
* Copyright Motorola inc, 1998, all rights reserved.
* Modification history
* --------------------
* 27mar02, jmb Add new registers for Kahlua-2, the MPC8245
* 14Oct98, My Added Kahlua support
* 05Mar98, My Created
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/bmw/mpc824x/mpc107.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wcmod.c,v 1.394 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wcmod.c
* Purpose:    Broadcom WarpLite SerDes
*             (Warpcore 40nm with x1 and x4 lane support)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wcmod/src/wcmod.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_cmic.h,v 1.0 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_cmic.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_petra_pp_acc.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_petra_pp_acc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: plibde.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/plibde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.h,v 1.76 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Hash table calculation routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hash.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_encap.h,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_encap.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE2000 Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/ipmc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_cos.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_cos.c
* Purpose: This file implements techsupport utility for
*          cos.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/cos/techsupport_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: msgq.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     msgq.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/common/msgq.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_mspw.c, 2014/09/02 huilizha Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

* File: cint_qos_mspw.c
* Purpose: An example of cos mapping for MS PWE Transit Node

* Cos mapping
* 1. Ingress
     - If Tunnel is uniform, map LSP.EXP to TC/DP
     - If Tunnel is pipe, map PWE.EXP to TC/DP(ignore PWE mode)
  2. Egress
     - PWE header
       - EXP: If uniform, map TC/DP to EXP; if pipe, use user configuration
       - TTL: If uniform, it's 255; if pipe, from MPLS CMD profile
     - LSP header
       - EXP: If uniform, copy from PWE.EXP; if pipe, use user configuration
       - TTL: If uniform, copy form PWE label; if pipe, from MPLS CMD profile

*  Map ingress and egress as follows
*  Map EXP
*  Ingress LSP.EXP(PWE.EXP)          INTERNAL TC/DP         Egress EXP
     0                        1                 1
     1                        2                 2
     2                        3                 3
     3                        4                 4
     4                        5                 5
     5                        6                 6
     6                        7                 7
     7                        7                 7

* Explanation:
  1. In this service we create two PWE ports. PWE1 and PWE2 refers to MPLS network ports.
  2. PWE: Virtual circuit attached to the service based on VC-label, and connectted to the MPLS network side.
  3. PWE-1: network port with incoming VC = 50,  egress-VC = 100 defined over tunnel 200.
  4. PWE-2: network port with incoming VC = 250, egress-VC = 350 defined over tunnel 400.

* Calling up sequence:
* Set up sequence:
  1. set the pipe tunnel inheritance mode, pipe or uniform
     - Call bcm_switch_control_set with property bcmSwitchMplsPipeTunnelLabelExpSet
  2. create in PWE LIF
     - call bcm_mpls_port_add with mpls_port.match_label 50
  3. set up MPLS tunnels. Refer to mpls_tunnels_config().
     - Set MPLS L2 termination (on ingress).
```

- MPLS packets arriving with DA 00:00:00:00:00:11 and VID 100 causes L2 termination.
- Create MPLs tunnels over the created l3 interface.
- Packet routed to above interface is tunneled into MPLS tunnels.
- Create egress object points to the above l3-interface.
- Packet routed to this egress-object is forwarded to the above MPLS tunnels and with the L3-interface VID and MAC.
- Calls bcm_l3_egress_create().
- Add pop entries to MPLS switch.
- MPLS packet arriving from the MPLS network side with labels 200 is popped (refer to mpls_add_pop_entry).
- Call bcm_mpls_tunnel_switch_create().

4. create out PWE LIF
   - call bcm_mpls_port_add with mpls_port.egress_label.label 350
5. cross connect the 2 PWE LIFs
   - Call bcm_vswitch_cross_connect_add()

* Clean up sequence:
1. Delete the cross connected LIFs
   - Call bcm_vswitch_cross_connect_delete()
2. Delete in PWE LIF
   - Call bcm_mpls_port_delete()
3. Delete out PWE LIF
   - Call bcm_mpls_port_delete()
4. Delete FEC, ARP outLif
   - Call bcm_l3_egress_destroy()
5. Delete tunnel outLIf
   - Call bcm_mpls_tunnel_initiator_clear()
6. Delete tunnel inLif
   - Call bcm_mpls_tunnel_switch_delete()

* To Activate Above Settings Run:

```
BCM> cd ../../../../src/examples/dpp
BCM> cint utility/cint_utils_global.c
BCM> cint utility/cint_utils_mpls.c
BCM> cint utility/cint_utils_l3.c
BCM> cint cint_ip_route.c
BCM> cint cint_qos_mspw.c
BCM> cint
cint> mpls_pipe_mode_exp_set=0(1);
cint> qos_map_vpls(unit);
cint> vswitch_vpls_run_with_defaults(unit,15,16,mpls_pipe_mode_exp_set);
```

* Headers:

```
*
*   ~~~
```

```
*   |              | Figure 1: Packets Transmitted from PWE1 |                |
*   ~~~
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/robo/common/counter.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_fabric.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/JER/jer_api_egr_queuing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/ARAD/arad_fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/dpp/JER/jer_fabric.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpSlimVlanRecordConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/sbx/qe2k/sbZfKaEpSlimVlanRecordConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: ipoll.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Functions for polling IRQs instead of using hardware interrupts.
* Primarily intended for board bringup and debugging.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/common/ipoll.c
No license file was found, but licenses were detected in source scan.

/*
```

```
* flashutl.c - Flash Read/write/Erase routines
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: flashutl.c,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/flashutl.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision    :  $Id: merlin_dino_internal.h 1341 2016-02-05 20:06:55Z kirand $ *
*                                                                             *
*  Description :  Internal API functions                                      *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_internal.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_gfa.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_gfa.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_b.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_b.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84756_i2c.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756_i2c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_init.c,v 1.74 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ============================================================
* == qe2000_init.c - QE Reset and Initialization           ==
* ============================================================
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.61 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Tracks and manages IPMC tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: port.h,v 1.30.16.9 Broadcom SDK $
*
* ocm.h : OCM defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/port.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_reg_access.h 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_address_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_reg_access.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_regs_structs.h
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.


*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: vxbsp.h,v 1.2 2009/12/31 06:05:59 alai Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/vxbsp.h
No license file was found, but licenses were detected in source scan.

```
/* ******************************************************************
* Common inline defs for reg spec for chip pt
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ******************************************************************
* $Id: hal_pt_inline.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_pt_inline.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabQe2000LnaFullRemapEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabQe2000LnaFullRemapEntry.c,v 1.3 Broadcom SDK $
```

* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabQe2000LnaFullRemapEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwR0WdtEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR0WdtEntryConsole.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_chip_regs.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_chip_regs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: l2cache.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l2cache.h
* Purpose: L2 Cache internal definitions to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/l2cache.h
No license file was found, but licenses were detected in source scan.

/**
****
* *
* Revision : $Id: falcon_tsc_fields.h 924 2015-02-24 18:08:11Z eroes $ *

```
*                                                                    *
*  Description   :  Register access macros for FALCON_TSC                    *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                            *
*                                                                    *
**********************************************************************************
**********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_fields.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_parse.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_parse.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_parse.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_dn_ratelimit.c,v 1.6 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_dn_ratelimit.c
*
* Purpose: examples of TM scheduler BCM API.
*
* - Port Scheduler
*   - HR Scheduler (SP mode).
*     - L1 CL Scheduler (WFQ independent mode), Hookup to HR Scheduler (SP1).
*       - L2 CL Schedulers (SP mode)
*         Instance 0 used for 10G channel.
*         Instance 1 used for 1G channel.
*         Instance 0 and 1 hookup to L1 CL Scheduler (W1, W2)(W1:W2=10:1).
*         - L3 CL Schedulers (SP mode)
*           Instance 0 used for 10G unicast channel.
*           Instance 1 used for 10G multicast channel.
*           Instance 2 used for 1G unicast channel.
*           Instance 3 used for 1G multicast channnel.
*           Instance 0 and 1 hookup to L2 CL Scheduler Instance 0 (SP1, SP0).
*           Instance 2 and 3 hookup to L2 CL Scheduler Instance 1 (SP1, SP0).
*           - Multicast VOQ and VOQ connector.
*             Instance 2 used for 10G multicast channel.
*             Instance 3 used for 1G multicast channel.
*             Instance 2 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L3 CL Scheduler Instance 1 (SP0, SP1, SP2,
SP3).
*             Instance 3 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L3 CL Scheduler Instance 3 (SP0, SP1, SP2,
SP3).
*           - L4 CL Schedulers (WFQ indenpendent mode)
*             Instance 0 used for 10G unicast CIR channel.
*             Instance 1 used for 10G unicast PIR channel.
*             Instance 2 used for 1G unicast CIR channel.
*             Instance 3 used for 1G unicast PIR channel.
*             Instance 0 and 1 hookup to L3 CL Scheduler Instance 0 (SP0, SP1).
*             Instance 2 and 3 hookup to L3 CL Scheduler Instance 2 (SP0, SP1).
*             - L5 CL Schedulers (SP composite mode).
*               Instance 0 used for 10G unicast ONU-1 channel.
*               Instance 1 used for 10G unicast ONU-2 channel.
*               Instance 2 used for 1G unicast ONU-3 channel.
*               Instance 3 used for 1G unicast ONU-4 channel.
*               Instance 0 hookup to L4 CL Scheduler Instance 0 and 1 (W1, W1).
*               Instance 1 hookup to L4 CL Scheduler Instance 0 and 1 (W2, W2).
*               Instance 2 hookup to L4 CL Scheduler Instance 2 and 3 (W1, W1).
*               Instance 3 hookup to L4 CL Scheduler Instance 2 and 3 (W2, W2).
*               - Unicast VOQ and VOQ connector.
*                 Instance 0 used for 10G unicast ONU-1.
*                 Instance 1 used for 10G unicast ONU-2.
*                 Instance 4 used for 1G unicast ONU-3.
```

```
*               Instance 5 used for 1G unicast ONU-4.
*               Instance 0 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 0 (SP0, SP1,
SP2, SP3).
*               Instance 1 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 1 (SP0, SP1,
SP2, SP3).
*               Instance 4 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 2 (SP0, SP1,
SP2, SP3).
*               Instance 5 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 3 (SP0, SP1,
SP2, SP3).
*
*******************************************************************************
*
*   (V0)        (L5.0)         (L4.0)
*  +-----+       +----+         +----+
* |    |COS:6,7 |    \        |    \
* |  V  |<-------|SP0   \       |     \
* |    |COS:4,5 |      +-------|W1     +
* |  O  |<-------|SP1  S |      |     W |_ _
* |    |COS:2,3 |    P |      |    F |  |  (L3.0)
* |  Q  |<-------|SP2    +      |W2   Q +  |  +----+
* |    |COS:0,1 |     / \    /|     /   |  |    \
* |    |<-------|SP3  /   \   / |    /    |_ _|SP0   \
*  +-----+       +----+    \ /  +----+         |      +
*   (V1)        (L5.1)     /   (L4.1)         |    S |_ _
*  +-----+       +----+    / \  +----+       _ _|    P |  |
* |    |COS:6,7 |    \   /   \ |    \    |  |SP1    +  |
* |  V  |<-------|SP0   \ /    \|     \    |  |     /   |
* |    |COS:4,5 |      +      |W1     +  |  |    /    |
* |  O  |<-------|SP1  S |      |     W |_ _|   +----+     |
* |    |COS:2,3 |    P |      |    F |                |
* |  Q  |<-------|SP2    +-------|W2   Q +                |UCAST
* |    |COS:0,1 |     /       |     /                |
* |    |<-------|SP3  /        |    /                 |
*  +-----+       +----+         +----+                  |   (L2.0)
*   (V2)        (L3.1)                                |   +----+
*  +-----+       +----+                                |   |    \
* |    |COS:6,7 |    \                               |_ _ |SP1   \
* |  V  |<-------|SP0   \                                |      +
* |    |COS:4,5 |      +                                |    S |_ _
* |  O  |<-------|SP1  S |_ _ _ __ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _|    P |  |
* |    |COS:2,3 |    P |                                |SP0    +  |  (L1.0)
* |  Q  |<-------|SP2    +                              MCAST|     /   |  +----+      +----+
* |    |COS:0,1 |     /                                |    /    |10G|    \     |    \
* |    |<-------|SP3  /                                +----+     |_ _|W1    \    |     \
*  +-----+       +----+                                          |      +   |      +
*   (V5)         (L3.3)                                          |    W |_ _ |    H |
*  +-----+       +----+                                          |    F |   |SP1  R |
* |    |COS:6,7 |    \                               (L2.1)      _ _|    Q +   |      +
```

```
* |  V  |<-------|SP0   \                              +----+      |  |W2    /     |      /
* |     |COS:4,5 |       +                             |    \     |1G |     /      |     /
* |  O  |<-------|SP1  S |_ _ _ __ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _|SP1   \    |   +----+       +----+
* |     |COS:2,3 |     P |                             |       +   |
* |  Q  |<-------|SP2    +                           MCAST|     S |_ _|
* |     |COS:0,1 |      /                              |     P |
* |     |<-------|SP3  /                             _ _ |SP0    +
*  +-----+       +----+                              |   |     /
*    (V3)        (L5.2)         (L4.2)                |   |    /
*  +-----+       +----+         +----+                |    +----+
* |     |COS:6,7 |     \        |     \                |
* |  V  |<-------|SP0   \       |      \               |
* |     |COS:4,5 |       +-------|W1     +              |
* |  O  |<-------|SP1  S |       |     W |_ _           |UCAST
* |     |COS:2,3 |     P |       |     F |  |  (L3.2)     |
* |  Q  |<-------|SP2    +       |W2   Q +   |   +----+      |
* |     |COS:0,1 |      / \     /|      /    |  |     \     |
* |     |<-------|SP3  /   \   / |     /     |_ _|SP0   \    |
*  +-----+       +----+     \ /  +----+         |       +   |
*    (V4)        (L5.3)      /   (L4.3)         |     S |_ _|
*  +-----+       +----+     / \  +----+       _ _|     P |
* |     |COS:6,7 |     \   /   \ |     \     |  |SP1    +
* |  V  |<-------|SP0   \ /     \|      \    |  |      /
* |     |COS:4,5 |       +       |W1     +   |  |     /
* |  O  |<-------|SP1  S |       |     W |_ _|   +----+
* |     |COS:2,3 |     P |       |     F |
* |  Q  |<-------|SP2    +-------|W2   Q +
* |     |COS:0,1 |      /        |     /
* |     |<-------|SP3  /         |    /
*  +-----+       +----+          +----+
*
*                          SCHEDULER MODEL
*
* ******************************************************************************
*
* Note: If we want to use the WFQ independent mode, we must calculate the least
*    common multiple(LMM), then use the LMM divide the expect weight value(WE)
*    to calculate the actual weight value(WA).
*    For example: WE1 : WE2 : WE3 : WE4 = 4 : 3 : 3 : 2.
*       LMM = 12.
*       WA1 = LMM / WE1 = 12 / 4 = 3.
*       WA2 = LMM / WE2 = 12 / 3 = 4.
*       WA3 = LMM / WE3 = 12 / 3 = 4.
*       WA4 = LMM / WE4 = 12 / 2 = 6.
*       So WA1 : WA2 : WA3 : WA4 = 3 : 4 : 4 : 6.
*
* PP Model:
*     The PP model is created based on the TM model.
```

```
*     VOQ 0 (100:107) <--> 10G Unicast LLID 0 (LLID-100, AC-0)
*     VOQ 1 (108:115) <--> 10G Unicast LLID 1 (LLID-101, AC-1)
*     VOQ 2 (116:123) <--> 10G Multicast LLID (LLID-103)
*     VOQ 3 (124:131) <--> 1G Unicast LLID 2 (LLID-102, AC-2)
*     VOQ 4 (132:139) <--> 1G Unicast LLID 2 (LLID-102, AC-3)
*     VOQ 5 (140:147) <--> 1G Multicast LLID (LLID-104)
*
* Map PKT_PRI_CFI to TC/DP as follows:
*     Ingress(PKT_PRI/CFI)    Internel(TC/DP)
*     0/0,0/1,1/0,1/1         0/GREEN
*     2/0,2/1,3/0,3/1         1/GREEN
*     4/0,4/1,5/0,5/1         2/GREEN
*     6/0,6/1,7/0,7/1         3/GREEN
*
* We support the below 4 Rate limit:
*     1. Rate limit on 10G/1G PON.
*     2. Rate limit on LLID. (10G unicast/multicast LLID)
*     3. Rate limit on VOQ. (1G multicast queue)
*     4. Rate limit on AC. (1G unicast LLID AC)
* For QAX device, need add followed additional configuration.
*     device_core_mode.BCM88470=SINGLE_CORE
*     dtm_flow_nof_remote_cores_region_1.BCM88470=1
*     dtm_flow_nof_remote_cores_region_2.BCM88470=1
*     dtm_flow_nof_remote_cores_region_3.BCM88470=1
*     .......
*     dtm_flow_nof_remote_cores_region_60.BCM88470=1
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_dn_ratelimit.c
*     BCM> cint
*     cint> pon_dn_ratelimit_init(0,4,128);
*     cint> pon_dn_ratelimit_setup(0);
*     cint> pon_dn_ratelimit_service_Init(0);
*     cint> pon_dn_ratelimit_service_setup(0);
*     cint> pon_dn_ratelimit_service_cleanup(0);
*     cint> pon_dn_ratelimit_cleanup(0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_dn_ratelimit.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_e2e_symmetric_connection.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_e2e_symmetric_connection.c
* Purpose: Demonstrate how to create a simple E2E scheme of 2 symmetric connections
*
* You can modify the script to do the setup and tear down for various scheduling elements.
* The example illustrates how to install create a simple scheme when the remotre device has 2 symmetric cores (IE Jericho)
*
* CINT usage:
* Create a voq connector (bcm_cosq_voq_connector_gport_add) that supports 2 cores, then attach the connector to a voq (bcm_cosq_connection_set()).
*
* Make sure that dtm_flow_nof_remote_cores_region_<id>=2 for desired regions, otherwise bcm_cosq_voq_connector_gport_add will fail since it won't
* be able to allocate a voq connector that suits 2 symmetric connections
*
*
* Assumed soc configuration:
* dtm_flow_nof_remote_cores_region_<id>=2
* diag_cosq_disable=1
* port_priorities=8
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_e2e_symmetric_connection.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsLastSentPriEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLastSentPriEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: katana2.c,v 1.162 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	katana2.c
* Purpose:

```
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/katana2.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Exp $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run led diag and all available tests through fsanity soc script.

if $?fb24mini \
   "echo Running LED test, Press spacebar to turn all the leds to green ..; \
   pause ;\
   phy ge 0x1c 0xb8fe; \
   phy ge 0x1c 0xb4fe; \
   echo Press spacebar to turn all the leds to yellow ..; \
   pause; \
   phy ge 0x1c 0xb8ef; \
   phy ge 0x1c 0xb4ef; \
   "



echo "Running the fsanity script .."
fsanity
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/fb24mini.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    udf.c
* Purpose: Manages XGS4 UDF_TCAM and UDF_OFFSET tables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs4/udf.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: hurricane.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_cnt.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: 802.1d.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Fundamental types and constants relating to 802.1D
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/proto/802.1d.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-robo-knet.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/kernel/modules/bcm-robo-knet/bcm-robo-knet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hash.c
* Purpose:    Hurricane3 hash table calculation routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/hurricane3/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwNPC2QEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwNPC2QEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwNPC2QEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dffs_descriptor.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/dffs_descriptor.h
No license file was found, but licenses were detected in source scan.

```
/*
* 802.1Q VLAN protocol definitions
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: vlan.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/proto/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*  ************************************************************************
  *
  *  SDRAM init module          File: tlbmap.S
  *
  *  BCM5300x TLB mapping for high address of PCIE, DDR2 and flash
  *
  ************************************************************************
  *
  *  Copyright 2009,2010,2011
  *  Broadcom Corporation. All rights reserved.
  *
  *  This software is furnished under license and may be used and
  *  copied only in accordance with the following terms and
  *  conditions.  Subject to these conditions, you may download,
  *  copy, install, use, modify and distribute modified or unmodified
  *  copies of this software in source and/or binary form.  No title
  *  or ownership is transferred hereby.
  *
  *  1) Any source code used, modified or distributed must reproduce
  *     and retain this copyright notice and list of conditions
  *     as they appear in the source file.
  *
  *  2) No right is granted to use any trade name, trademark, or
  *     logo of Broadcom Corporation.  The "Broadcom Corporation"
  *     name may not be used to endorse or promote products derived
  *     from this software without the prior written permission of
  *     Broadcom Corporation.
  *
  *  3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR
  *     IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED
  *     WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
  *     PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT
  *     SHALL BROADCOM BE LIABLE FOR ANY DAMAGES WHATSOEVER, AND IN
  *     PARTICULAR, BROADCOM SHALL NOT BE LIABLE FOR DIRECT, INDIRECT,
  *     INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  *     (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
  *     GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
  *     BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
```

```
 *     OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 *     TORT (INCLUDING NEGLIGENCE OR OTHERWISE), EVEN IF ADVISED OF
 *     THE POSSIBILITY OF SUCH DAMAGE.
 ********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/tlbmap.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/tlbmap.s
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_nop_action_encapsulation.c,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_nop_action_encapsulation.c
* Purpose: Example of encapsulating NOP entry.
*
* This cint is an example of MPLS NOP entry encapsulation.
*
* This configuration includes:
*      - Set up a MPLS LSR path with swap performed on egress (ILM action is NOP, Egress swap is done by
mpls_tunnel_initiator)
*             The result of the ILM lookup will be a FEC destination
*             The FEC will resolve to
*                Out-LIF = MPLS SWAP EEDB entry
*                TM destination (port).
*     - Use the ingress PMF to modify the forwarding information to test the NOP EEDB entry:
*            update the Out-LIF; Out-LIF = pointer to EEDB NOP EEDB entry
*            update the EEI; EEI.Out-LIF = pointer to MPLS SWAP EEDB entry
*
* Test Scenario
*
* ./bcm.user
* cd ../../../../regress/bcm
* cint ../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../src/examples/dpp/cint_mpls_nop_action_encapsulation.c
* cint
* mpls_nop_action_info_run_dvapi(0,in_port,out_port);
* exit;
*
* MPLS NULL ENTRY TEST
* tx 1 psrc=in_port
data=0x000000000011000035e7a2d38100000a884700d0512dc5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5
c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5
*
* Received packets on unit 0 should be:
```

*
0x00112233445500000000002281000064884700063 12cc5c5c5c

```
* Purpose:  Firebolt placeholder for metering, FP metering.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/meter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600_init.c,v 1.103 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* bm9600_init.c : Configure BM9600 chip for Initialization
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/bm9600_init.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: dffs_driver.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/dffs_driver.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_sweep_app.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_sweep_app.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_ports.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_ports.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls_lm_dm_feature.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/mpls_lm_dm_feature.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type32.h
* Purpose:     Define dma control block (DCB) format for a type32 DCB
*              used by the 56960 (Tomahawk)
*
*              This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type32.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_TSCE16_XGXS.
* This file provides all basic definitions required to program the BCMI_TSCE16_XGXS.
*
```

* This file is autogenerated. Please do not edit.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_tsce16_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmRateDeltaMaxTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmRateDeltaMaxTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: lpmv6.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: lpv6.c
* Purpose: L3 LPM V6 function implementations
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/lpmv6.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: type19.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: soc/shared/dcbformats/type19.h
* Purpose: Define dma control block (DCB) format for a type19 DCB
* used by the 56640 (Triumph3/Firebolt4)
*
* This file is shared between the SDK and the embedded applications.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type19.h

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88675_b0.c
* Purpose:     bcm88675_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88675_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cmdlist.h
* Purpose: Extern declarations for command functions and
*          their associated usage strings.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnx/diag_dnx_cmdlist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dnxf/cmdlist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dnx/cmdlist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/cmdlist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flex_ctr_common.c,v 1.93 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flex_ctr_common.c
* Purpose:     Manage common functionality for flex counter implementation
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/flexctr/flex_ctr_common.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       dscdump.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/dscdump.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56504_a0.c
* Purpose:     bcm56504_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56504_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_ppd_api.c
No license file was found, but licenses were detected in source scan.

/* $Id: vlan.h,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Copyright: (c) 2013 Broadcom Corporation All Rights Reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/vlan.h
No license file was found, but licenses were detected in source scan.

/**********
*
* Copyright 2012-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License"). Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO

YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/hw_limits.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/default_allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/default_allocator.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/src/soc/kbp/alg_kbp/portability/default_allocator.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/portability/default_allocator.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/hw_limits.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: salIntf.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/salIntf.c
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_eg_mirror.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**********
*
* FILENAME: DuneDriver/ppc/include/soc_ppc_api_eg_mirror.h
*

* MODULE PREFIX: soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_mirror.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: stat.c,v 1.192 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom StrataSwitch SNMP Statistics API.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sysBcm570xEnd.c.template,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sysBcm570xEnd.c - system configuration module for BCM570x END
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/sysBcm570xEnd.c.template
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_alias_map.i
* Purpose:     Memory alias indices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_alias_map.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCMX Switch Control
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600FoTestInfoConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600FoTestInfoConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    clock_config.c
*
* Purpose:
*
* Functions:
*      bcm_common_ptp_clock_accuracy_get
*      bcm_common_ptp_clock_accuracy_set
```

* bcm_common_ptp_clock_quality_get
* bcm_common_ptp_clock_quality_set
* bcm_common_ptp_g8275p1_traceability_info_clock_class_map
* bcm_common_ptp_clock_current_dataset_get
* bcm_common_ptp_clock_default_dataset_get
* bcm_common_ptp_clock_domain_get
* bcm_common_ptp_clock_domain_set
* bcm_common_ptp_clock_get
* bcm_common_ptp_clock_parent_dataset_get
* bcm_common_ptp_clock_port_announce_receipt_timeout_get
* bcm_common_ptp_clock_port_announce_receipt_timeout_set
* bcm_common_ptp_clock_port_configure
* bcm_common_ptp_clock_port_dataset_get
* bcm_common_ptp_clock_port_delay_mechanism_get
* bcm_common_ptp_clock_port_delay_mechanism_set
* bcm_common_ptp_clock_port_disable
* bcm_common_ptp_clock_port_enable
* bcm_common_ptp_clock_port_info_get
* bcm_common_ptp_clock_port_latency_get
* bcm_common_ptp_clock_port_latency_set
* bcm_common_ptp_clock_port_log_announce_interval_get
* bcm_common_ptp_clock_port_log_announce_interval_set
* bcm_common_ptp_clock_port_log_min_delay_req_interval_get
* bcm_common_ptp_clock_port_log_min_delay_req_interval_set
* bcm_common_ptp_clock_port_log_min_pdelay_req_interval_get
* bcm_common_ptp_clock_port_log_min_pdelay_req_interval_set
* bcm_common_ptp_clock_port_log_sync_interval_get
* bcm_common_ptp_clock_port_log_sync_interval_set
* bcm_common_ptp_clock_port_mac_get
* bcm_common_ptp_clock_port_type_get
* bcm_common_ptp_clock_port_version_number_get
* bcm_common_ptp_clock_port_version_number_set
* bcm_common_ptp_clock_priority1_get
* bcm_common_ptp_clock_priority1_set
* bcm_common_ptp_clock_priority2_get
* bcm_common_ptp_clock_priority2_set
* bcm_common_ptp_clock_local_priority_get
* bcm_common_ptp_clock_local_priority_set
* bcm_common_ptp_clock_slaveonly_get
* bcm_common_ptp_clock_slaveonly_set
* bcm_common_ptp_clock_time_get
* bcm_common_ptp_clock_time_properties_get
* bcm_common_ptp_clock_time_set
* bcm_common_ptp_clock_timescale_get
* bcm_common_ptp_clock_timescale_set
* bcm_common_ptp_clock_traceability_get
* bcm_common_ptp_clock_traceability_set
* bcm_common_ptp_clock_user_description_set

```
*     bcm_common_ptp_clock_utc_get
*     bcm_common_ptp_clock_utc_set
*     bcm_common_ptp_foreign_master_dataset_get
*
*     _bcm_ptp_clock_port_cache_info_get
*     _bcm_ptp_clock_port_cache_info_set
*     _bcm_ptp_clock_cache_port_state_get
*     _bcm_ptp_clock_cache_port_state_set
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/clock_config.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  falcon_furia_functions.h
* Created On :  29/04/2013
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: falcon_furia_functions.h 996 2015-03-30 22:39:03Z kirand $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
-----------------------------------------------------------------------
                Notes on BCM TX/RX API and Internals
                  Broadcom Corp. December 18, 2002
                    Last Updated: May 20, 2003
-----------------------------------------------------------------------


(1) Overview

This document provides a description of the BCM RX API and the
BCM TX API.  RX is more complex, so more of the document is dedicated
to the RX API.


(2) Related Documents

  $SDK/doc/pkt.txt is referred to as pkt.txt.

  Readers should particularly note comments related to TX in the
  descriptions of pkt->opcode and pkt->tx_pbmp in pkt.txt.


(3) The new BCM TX API

(3.1) Goals and Requirements for bcm_tx

  1.  Support packet gather for applications.

  2.  Support tagged and untagged packets from applications.  bcm_tx
      may transmit all packets to the switch with a VLAN tag in the
      frame (except Hercules where the tag information is in the
      HiGig header).

  3.  Support HiGig and SL tags transparently.  The caller of
      bcm_tx determines the exact contents of these tags, but should
      not need to worry about the format of the tags.

  4.  Support CRC regeneration, appending, forced error and
      no-change.

  5.  Provide a development path to non-runtime DV allocation.
      This may mean a pool of DVs managed by bcm_tx.

(3.2) The bcm_tx function

  int bcm_tx(int unit, bcm_pkt_t *pkt, void *cookie);
```

The cookie is passed back to the callback function if the packet is sent asynchronously. Asynchronous transmit is indicated by a non-NULL callback in the packet structure (pkt->call_back).

(3.3) BCM TX Mechanisms

1. CRC:
   See flags in pkt.txt. Options exist to regenerate or append.

2. Synchronous/asynchronous call:
   If pkt->call_back is not NULL, then the packet is sent asynchronously. See "Packet Macros and Data Members" in pkt.txt for more information.
   In addition, two cookies are provided for application level, pkt->cookie and pkt->cookie2. These are both of type void *.

3. Controlling the HiGig header:
   The data in the HiGig header is altered by setting the data members of the packet such as src_port and opcode. These are then installed in the higig header by calling bcm_pkt_hghdr_setup.
   Alternatively, the header can be directly accessed by calling the BCM_PKT_HG_HDR(pkt) macro. This exposes the data buffer used to hold the HiGig header. This buffer should be maintained in network byte order.

4. Controlling the SL tag:
   The data in the SL tag is setup like the HiGig header.

5. Port bitmaps:
   The port bitmaps are explicitly exposed. See "Packet Macros and Data Members" in pkt.txt for more information. The function bcm_tx_pkt_l2_map can be used to generate the port bitmaps. (Not yet implemented).

(3.4) Chains of TX packets

Chains of packets may be sent with a single call to the BCM function

```
bcm_tx_array(int unit, bcm_pkt_t **pkt, int count,
             bcm_pkt_cb_f all_done_cb, void *cookie)
```

which takes an array of packets passed as a pointer and a count, or

```
bcm_tx_list(int unit, bcm_pkt_t *pkt, bcm_pkt_cb_f all_done_cb,
            void *cookie)
```

which takes a linked list of packets, linked by the "next" data member. Either of these may be done asynchronously with a single callback made once the chain is complete. Per-packet callbacks are also supported, but not recommended.

(4) The new bcm_rx API

Hardware changes in Strata-XGS permit multiple DMA receive channels to be active simultaneously, and permit mapping of different COS to different receive channels.

To provide an API that permits control of these features, the BCM PMUX API has been deprecated and is being replaced by the BCM RX API. The new RX API features:

1. Normal packet handling has been moved out of interrupt context;
2. Special packet handlers can be installed for interrupt handling;
3. Multiple DMA channels are supported and may be map to different COSes;
4. Packets are enqueued according to COS at interrupt level;
5. Token bucket rate limiting is implemented on a per queue basis;
6. Global rate limiting is implemented as a token bucket independent of per-queue rate limiting;
7. Packet handling is managed with the bcm_pkt_t structure.

The packet format returned by RX has been standardized to match bcm_pkt_t conventions. The packet data is always in a single buffer in IEEE 802.1Q VLAN tagged format:

Destination MAC	6 bytes	
Source MAC	6 bytes	
VLAN Tag	4 bytes	(unless flagged otherwise)
"Payload"	N bytes	(including type/length, etc.)
CRC	4 bytes	

Note that payload is in quotes as it may contain other header information such as the type/length field. The term is used here because RX is aware of the packet format only up through the VLAN tag.

Additional Broadcom tags (the SL tag and the HiGig header) are made available through the bcm_pkt_t structure. They do not take up the application's packet buffer space (they are DMA'd into SOC layer

DV structures and copied into the bcm_pkt_t structure).

Per-queue rate limitting is configurable through calls to bcm_rx_cos_rate_get/set. The max queue size and burst limits can also be controlled.

(5) BCM RX Internals

The following is for those who need to be familiar with the workings of RX for maintenance or customization.

The user configuration is stored in the bcm_rx_cfg_t structure. It may be re-initialized when RX is not running by calling bcm_rx_cfg_init. This is highly recommended if multiple applications may be starting and stopping the RX subsystem.

(5.1) Allocation and Free routines

There is one set of allocation and free routines per unit that is used by RX and configured on RX initialization (bcm_rx_start). Essentially, RX provides a gateway for all applications to use the alloc/free routines of the application controlling RX.

These routines operate on packet buffers.

[Ed note: These functions originally operated on bcm_pkt_t structures.]

(5.2) Chains, DVs and DCBs

RX manages chains of packets. This is a hardware concept detailed below. The number of chains and the number of packets per chain are indicated in the bcm_rx_cfg_t structure declared in $SDK/include/bcm/rx.h and passed to RX through bcm_rx_start. These affect the through-put and memory demands of RX. In general, more packets/chain results in more throughput at the expense of more memory use. The maximum permitted packets/chain is 16.

A DCB is a hardware description of a single DMA operation. A packet may be spread across several operations (DCBs) which are connected by the S/G (scatter/gather) bit in the DCB. Additionally, DCBs may be "chained" together by the C (chain) bit in the DCB. As long as the chain bit is set, the hardware will continue processing the DCBs in a list.

For RX, each packet requires a fixed number of DCBs which is

determined by the controlling unit type and whether SL stacking is enabled in the system. If the SL stacking state is changed, then RX must be reconfigured (stopped and restarted with the new configuration).

A DV is a SOC-layer software construct controlling an array of DCBs. Each hardware chain is controlled by one DV. Hereafter, CHAIN and DV mean the same thing.

RX views the DV as an array of packets. An rx_dv_info_t structure is defined and attached to each DV (through the DV cookies). This indicates various state of the DV including pointers to the packets that are controlled (filled) by the DV.

A packet may be "stolen" by an application when the packet handler returns BCM_RX_HANDLED_OWNED. Before that DV is restarted, RX will reallocate a packet at this position by calling bcm_rx_alloc.

The hardware provides an interrupt each time a DCB completes, and a different interrupt each time the end of a chain is reached. The SOC layer can also detect the end of a packet, and thus provides three possible callbacks: 1. For each DCB, 2. for the end of packet, and/or 3. for end of a chain. RX ensures that the end of a chain corresponds to the end of a packet as well. RX expects to get end-of-packet and end-of-chain interrupts.

(5.3) Operational overview

The SOC layer allows the queuing of multiple DVs which are automatically restarted (by the driver layer software) when the hardware completes a chain. Thus, RX allocates a collection of DVs, fills them and then queues them all to the SOC layer. As packets arrive, packet done interrupts are routed to RX which first calls interrupt level packet handlers, then, if the packet is not handled, queues the packet for non-interrupt handling.

Non-interrupt handling is managed by a separate thread. The thread is awoken either because packets have been queued, or DVs need to be refilled and restarted.

DVs can be scheduled to start in the future. This is managed by the RX thread. This simply means that negative values are legal in buckets. Since there are a fixed number of DVs that can be started, that same number is the maximum number of outstanding tasks that can be waiting.

(5.4) Rate limitting

There are two levels of rate limitting:

1. Global: The number of interrupts the system receives is limitted by indicating a global limit in packets/second. This will prevent DVs being setup (they get scheduled into the future).

2. Per COS: The number of callbacks made can be limited on a per COS basis. This applies both to interrupt and non-interrupt callbacks. Note that this does not limit the interrupt load since the packets are still processed by the RX API.

In addition, the maximum number of packets that will be enqueued can be limitted on a per-COS basis.

All rate limitting is specified in packets/second and implemented with a leaky bucket algorithm. Burst limits (the maximum number of tokens a bucket may hold) are implemented for both global and COS rate limitting. The global burst limit is explicitly indicated by user configuration.

Token buckets are updated by the rx_pkt_thread. They max out at the programmed burst limit which must be positive. Note that the value of the burst limit will significantly affect two things:

1. The packet/second rate will initially appear higher if the burst limit is high.
2. A low burst limit will adversely affect performance.

For rate limitting to be accurate, all channels must have the same number of packets per chain. Hence this parameter is a per-unit setting.

(6) Receive bench marks as of April 1, 2003

The following tables reflect maximum packets/second for different boards with different RX settings. In all cases, fixed length 1024 byte packets were used. The variables are:

CPU Type: PPC 8245, PPC 8240, IDT RP332
Packets/chain: 4 or 16 (represents number of pkts/DMA operation).
Interrupt mode: On or off; are packets handled in interrupt or non-interrupt mode
Free buffer: On or off; are packet buffers freed by handler or reused by RX.

All entries in these tables are in packets/second which corresponds to K-bytes/second. Note that PMUX is only available in non-interrupt mode. All tests are run over 4 seconds. All tests are run with burst

set to 1000.

SDK 4.1:

Last Updated: March 23, 2003

PPC 8245 based system on 2 x 5690 + 5670 board

```
        PPC |    4          4          16          16
       INTR |   intr      non-intr      intr        non-intr
MODE/buffer   |
--------------+-----------------------------------------------------
RX/reuse      | 21036      18847      24961        26621
RX/free       |  5846       6818       5407         5201
PMUX/reuse    |   n/a      20766        n/a        18445
PMUX/free     |   n/a      10321        n/a        10148
```

PPC 8240 based system on 5615 board

```
        PPC |    4          4          16          16
       INTR |   intr      non-intr      intr        non-intr
MODE/buffer   |
--------------+-----------------------------------------------------
RX/reuse      | 27554      24172      38008        30875
RX/free       |  4512       4568       4977         4519
PMUX/reuse    |   n/a      27246        n/a        16442
PMUX/free     |   n/a       8179        n/a         8304
```

IDT RP334 based system on 2 x 5645 board

```
        PPC |    4          4          16           16
       INTR |   intr      non-intr      intr         non-intr
MODE/buffer   |
--------------+-----------------------------------------------------
RX/reuse      |  5846      5393        7021          6660
RX/free       |  1440      1353        1612          1566
PMUX/reuse    |   n/a      6374         n/a          5082
PMUX/free     |   n/a      1798         n/a          1849
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/txrx.txt
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: oam_sw_db.h,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* OAM SW DB
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/oam_sw_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flowcnt.h,  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       flowcnt.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/flowcnt.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: sbCrc32.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*****************************************************************************/
/*****************************************************************************
*
* Copyright (c) 2006, Broadcom Corporation All Rights Reserved.
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
*
* $Id: sbCrc32.h,v 1.6 Broadcom SDK $
*
* sbCrc32.h : hash function
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbCrc32.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpMplsLabels.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpMplsLabels.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_common.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* configuration common to sbx devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbx_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC register access implementation for DPP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/reg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmIngressRankerEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmIngressRankerEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  phy8806x_tsc_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: phy8806x_tsc_dv_functions.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_dv_functions_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_mim.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: MIM APIs
*
* Purpose:
*     MIM API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_mim.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8705.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8705.c
* Purpose:    Phys driver support for Broadcom Serial 10Gig
*             transceiver with XAUI interface.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8705.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_stat.c,v 1.1.2.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mim.c
* Purpose: Manages MIM Provider Back bone Bridging functions for CALADAN3
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* This software simulator can emulate basic register access for the
* QSGMII/Eagle SerDes PHY.
*
* The simulator suppor both IEEE clause 22/45 access and Broadcom
* proprietary SBUS access.
*
* Clause 22 address format:
*   Bits [4:0]   : Clause 22 register address
*   Bits [31:5]  : Unused
*
* Clause 45 address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [20:16] : Clause 45 DEVAD
*   Bits [23:21] : Clause 45 indicator (001b)
*   Bits [31:24] : Unused
*
* SBUS address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [18:16] : Lane control
*   Bits [26:19] : Lane multicast (old format)
*   Bits [31:27] : Clause 45 DEVAD
*
* The upper 16 bits if the SBUS address format is identical to the
* Broadcom Address Extension Register (AER) format.
*
* The clause 45 indicator serves two purposes which is to ensure that
* the upper 16 bits are never zero for a clause 45 address, but it
* also makes it possible for the PHY bus driver to distinguish
* between a clause 45 DEVAD and the old AER multicast format.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/qsgmiie_sim.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk2 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init soc
local done 'echo "   Done"'

#Display some useful information
date
ver
soc

bb voltage core 0.92

#Start Test
echo "tr 2: Running PCI Compliance ..."
tr 2
$done
date
echo "tr 4: Running PCI S-Channel Buf ..."
tr 4
$done
date

echo "tr 1: Running Register reset defaults ..."
tr 1
$done
date
init soc
```

```
init misc
echo "tr 3: Running Register read/write ..."
tr 3 mask64
$done
date
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "tr 21: Running CPU Benchmarks ..."
tr 21
$done
date

set rct=false
# Usage: BCM.0>th2_sanity_screen w x y z
# (w,x,y,z can be 50,51,52,71) and in any combination
# By default ie. if no arguments provided, only TR 50, 52,71 are run
echo "Running memory tests ..."
if !"expr $1+0 == 50" || !"expr $2+0 == 50" || !"expr $3+0 == 50" || !"expr $4+0 == 50" \
  'rcload tr50_bcm56970_a0.soc'
if !"expr $1+0 == 51" || !"expr $2+0 == 51" || !"expr $3+0 == 51" || !"expr $4+0 == 51" \
  'rcload tr51_bcm56970_a0.soc'
if !"expr $1+0 == 52" || !"expr $2+0 == 52" || !"expr $3+0 == 52" || !"expr $4+0 == 52" \
  'rcload tr52_bcm56970_a0.soc'
if !"expr $1+0 == 71" || !"expr $2+0 == 71" || !"expr $3+0 == 71" || !"expr $4+0 == 71" \
  'rcload tr71_bcm56970_a0.soc'
if !"expr $1+0 == 0" && !"expr $2+0 == 0" && !"expr $3+0 == 0" && !"expr $4+0 == 0" \
  'rcload tr50_bcm56970_a0.soc' \
  'rcload tr52_bcm56970_a0.soc' \
  'rcload tr71_bcm56970_a0.soc'
$done

# Re-initialize to clean up of various read/writes to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off
date
echo "tr 30: Running counter width verification test ..."
tr 30
$done
date
echo "tr 31: Running counter read/write test ..."
```

```
tr 31
$done
date
#Hashing tests
#tr 55

echo "tr 60: Running MDIO Linkscan test"
tr 60
$done
date
echo "tr 17: Testing CPU DMA loopback ..."
tr 17
$done
date
#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
#$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
#$done

#MAC Loopback
#echo "tr 18: Testing MAC Loopback - 10 Gb/s all XE ports"
#tr 18 PortBitMap=xe Speed=10G
#$done
date
#echo "Testing MAC Loopback - 100 Gb/s all CE ports"
#tr 18 PortBitMap=ce Speed=100G
#$done

#echo "Testing MAC Loopback - 106 Gb/s all HG ports"
#tr 18 PortBitMap=hg Speed=106G
#$done

#PHY Loopback
echo "tr 19: Testing PHY Loopback - 100 Gb/s all CE ports"
tr 19 PortBitMap=ce Speed=100G
$done
date
#echo "Testing PHY Loopback - 100 Gb/s all CE ports"
#tr 19 PortBitMap=ce Speed=100G
#$done
```

```
#echo "Testing PHY Loopback - 106 Gb/s all HG ports"
#tr 19 PortBitMap=hg Speed=106G
#$done

#echo "Running MAC loopback V2 on all ports ..."
#tr 48 PortBitMap=ce,xe
#tr 48 PortBitMap=xe
#$done

#echo "Running PHY loopback V2 on all ports ..."
#tr 49 PortBitMap=ce,xe
#tr 49 PortBitMap=xe
#$done

#Internal snake Loopback
#echo "tr 39: Running internal snake on all XE ports, MAC loopback ..."
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe Count=1
$done
date
echo "tr 39: Running internal snake on all CE ports, PHY loopback
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce Count=1
$done
date
#echo "Running internal snake on all CE ports, MAC loopback ..."
#tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ce
#$done

#echo "Running internal snake on all CE ports, PHY loopback ..."
#tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce
#$done

#Traffic Test
#echo "tr 72: Running Traffic Test in MAC mode on XE ports..."
#tr 72 RunMode=MAC PortBitMap=xe tis=5
#$done
date
echo "tr 72: Running Traffic Test in EXTERNAL mode on CE ports with AutoNeg disabled..."
tr 72 RunMode=EXTERNAL AutoNeg=False PortBitMap=ce tis=5
$done
date
echo "tr 72: Running Traffic Test in PHY mode on CE ports
tr 72 RunMode=PHY PortBitMap=ce tis=5
$done
date

echo "Running Traffic Test in PHY mode on XE ports..."
tr 72 RunMode=PHY PortBitMap=xe
```

```
tr 516
$done
date

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
```

```
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/th2_sanity_screen.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/mcast.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision    :     *
*                                                                            *
*  Description :  Interface functions targeted to IP user                    *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
```

* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/falcon16_tsc/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* falcon16_tsc_interface.h - provides the primary functionality.
*
* falcon16_tsc_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_interface.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: compat_530.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-5.3.0 routines
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/compat/compat_530.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       bcm56450_b0.c
* Purpose:     bcm56450_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56450_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th2_ovsb_flexport.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core oversub algorithms
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_ovsb_flexport.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_counting.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_counting.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_counting.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: attrib.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       attrib.c
* Purpose:     board attribute management
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/manager/attrib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_filter.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_filter.h
*
* MODULE PREFIX:  soc_ppd_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_eg_filter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nvutils.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Misc useful routines to access NVRAM
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/nvutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwRepAddr.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwRepAddr.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwRepAddr.hx
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: ddrc28.c
* Purpose: PHY info for ddrc28
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ddrc28_regs.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_eg_filter_example.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ~~~~~~~~~~~~~~~~~~~~~~~~~~~Traditional Bridge: Port Egress filter~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
* File: cint_port_eg_filter_example.c
* Purpose: Example of how to set the Port Egress filter for Unknown UC / Unknown MC / BC
*
* Default settings:
```

```
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
*
* Usage:
*  o    port_eg_filter_set(unit,eg_port,disable_types): Set disable filter types on Egress port.
*  disable_types according to port_control types: BCM_PORT_CONTROL_FILTER_DISABLE_*
*  o    trap_drop_eg_filter_set(unit,enable): Enable , Disable drop of egress filter type.
*
*  o    trap_drop_eg_filter_destroy(unit): Destroy trap handle
*
* Specific example:
* Filter Unknown DA on egress port 14
*  port_eg_filter_example(unit,14,0);
* Send Packet:
* Unknown DA packet : VLAN 1 DA : 1
* Expects flooding to ethernet ports except 14
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_eg_filter_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TH counter module routines.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: boot.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  boot.c
```

```
* Purpose: Kernel initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/boot.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.vxworks,v 1.86 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# This file contains the common portion of the Makefiles for the different
# VxWorks BSPs in ${SDK}/systems/vxworks/*/Makefile
#

#
# By default, build vxWorks.st to have the symbol table compiled in.
# This can be overridden in the systems/vxworks/*/Makefile to vxWorks
# in order to build a version that loads the symbol table over the
# network instead.
#

ifndef VX_VERSION
$(error VX_VERSION not defined)
endif

ifndef VX_VERSIONS
$(error VX_VERSIONS not defined)
endif

ifeq ($(filter $(VX_VERSIONS),$(VX_VERSION)),)
$(error VX_VERSION=$(VX_VERSION) invalid, only versions $(VX_VERSIONS) supported)
endif

export DEST_DIR_SUFFIX :=$(subst $(realpath $(SDK))/systems,,$(realpath $(CURDIR)/$(dir ($(firstword
$(MAKEFILE_LIST))))))


VX_TARGET = vxWorks.st
VX_BINARY = bcm.${targetplat}${all_suffix}

ifeq (,$(findstring DELIVER,$(MAKECMDGOALS)))

# Some diag libraries must appear more than once because there are
# circular references that the linker won't otherwise resolve.

ifdef ROBO_CHIPS
```

```
DIAG += libdiagrobo.a
endif

ifdef ESW_CHIPS
DIAG += libdiag_esw.a \
  libtsl3uc.a \
  libtsl3mc.a \
  libtsmpls.a \
  libtsoam.a \
  libtsmmu.a \
  libtsniv.a \
  libtsriot.a \
  libtsvlan.a \
  libtsvxlan.a \
  libtsbasic.a \
  libtsifp.a \
  libtsvfp.a \
  libtsefp.a \
  libtscos.a \
  libtsloadbalance.a \
  libtsdgm.a \
  libtstcb.a \
  libtspstat.a \
  libtechsupport.a
endif

ifdef SBX_CHIPS
DIAG += libdiag_sbx.a
endif

ifdef PE_SDK
DIAG += libpelib.a
DIAG += libpelibsrc.a
endif

ifdef DPP_CHIPS
DIAG += libdiag_dpp.a
endif

ifdef DFE_CHIPS
DIAG += libdiag_dfe.a libdiag_dcmn.a libdiag_sand.a
else
ifdef DPP_CHIPS
DIAG += libdiag_dcmn.a libdiag_sand.a
endif
endif

ifdef DNX_CHIPS
```

```
DIAG += libdiag_dnx.a
endif

ifdef DNXF_CHIPS
DIAG += libdiag_dnxf.a libdiag_sand.a
else
ifdef DNX_CHIPS
DIAG += libdiag_sand.a
endif
endif

ifdef EA_CHIPS
DIAG += libdiag_ea.a
endif

ifdef DPP_CHIPS
BSP_EXTRA_DEFINES = -DBROADCOM_SAND_BSP
endif

ifndef NO_SAL_APPL
COND_LIB_SAL_APPL=libsal_appl.$(libext)
COND_LIB_SAL_APPL_BLD=${LIBDIR}/${COND_LIB_SAL_APPL}
COND_LIB_SAL_APPL_PLATFORM=libsal_appl_plat.$(libext)
COND_LIB_SAL_APPL_PLATFORM_BLD=${LIBDIR}/${COND_LIB_SAL_APPL_PLATFORM}
endif


DIAG_BLD = $(addprefix ${LIBDIR}/,${DIAG})
KERNFLAGS = "LIB_EXTRA =${BLDDIR}/socdiag.o \
  ${BLDDIR}/version.o \
  ${BLDDIR}/hal.o \
  ${BLDDIR}/platform_defines.o \
  ${LIBDIR}/libdiag.a \
  ${DIAG_BLD} \
  ${COND_LIB_PHYMOD_DIAG_BLD} \
  ${COND_LIB_PORTMOD_DIAG_BLD} \
  ${COND_LIB_BCMX_DIAG_BLD} \
  ${COND_LIB_TEST_BLD} \
  ${COND_LIB_TCL_BLD} \
  ${APPL_LIBS_BLD} \
  ${COND_LIB_EAV_APPL_BLD} \
  ${COND_LIB_ACL_BLD} \
  ${COND_LIB_BCM570X_BLD} \
  ${COND_LIB_SAL_APPL_BLD} \
  ${COND_LIB_EDITLINE_BLD} \
  ${COND_LIB_SAL_APPL_PLATFORM_BLD} \
  ${COND_LIB_DRIVERS_BLD} \
  ${LIBDIR}/${LIB_BDE} \
```

```
  ${DRV_LIBS_BLD} \
                ${COND_LIB_ETH_DRV_BLD} \
  ${COND_LIB_BSP} \
  " \
  ${BSP_KERNFLAGS} \
  "EXTRA_DEFINE=-DBROADCOM_BSP \
  -g \
  -Dvxworks \
  -DVX_VERSION=${VX_VERSION} \
  ${BSP_EXTRA_DEFINES}"

#
# For now, put toolbase at the start of the PATH variable so everyone
# picks up the right tools.  This should be passed down instead, but
# VxWorks uses "size" without using the ${SIZE} variable.
# For Cygnus, WIND_HOST_BIN must follow /usr/bin and /usr/local/bin
# or a weird compilation error results.
#

ifeq ($(VX_VERSION),62)
WIND_HOST_GNU_BIN =
${WIND_GNU_PATH}/${WIND_HOST_TYPE}/bin:${WIND_HOME}/workbench-
2.4/${WIND_HOST_TYPE}/bin
WIND_HOST_DIAB_BIN =
${WIND_DIAB_PATH}/${WIND_COMPILER_HOST}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/$
{WIND_HOST_TYPE}/bin
else

ifeq ($(VX_VERSION),64)
WIND_HOST_GNU_BIN =
${WIND_GNU_PATH}/${WIND_HOST_TYPE}/bin:${WIND_HOME}/workbench-
2.6/${WIND_HOST_TYPE}/bin
WIND_HOST_DIAB_BIN =
${WIND_DIAB_PATH}/${WIND_COMPILER_HOST}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/$
{WIND_HOST_TYPE}/bin
else

ifeq ($(VX_VERSION),68)
WIND_HOST_GNU_BIN =
${WIND_GNU_PATH}/${WIND_HOST_TYPE}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/${WIN
D_HOST_TYPE}/bin:${WIND_HOME}/utilities-1.0/${WIND_HOST_TYPE}/bin
WIND_HOST_DIAB_BIN =
${WIND_DIAB_PATH}/${WIND_COMPILER_HOST}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/$
{WIND_HOST_TYPE}/bin
else

ifeq ($(VX_VERSION),69)
WIND_HOST_GNU_BIN =
```

```
${WIND_GNU_PATH}/${WIND_HOST_TYPE}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/${WIN
D_HOST_TYPE}/bin:${WIND_HOME}/utilities-1.0/${WIND_HOST_TYPE}/bin
WIND_HOST_DIAB_BIN =
${WIND_DIAB_PATH}/${WIND_COMPILER_HOST}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/$
{WIND_HOST_TYPE}/bin
else

WIND_HOST_GNU_BIN =
${WIND_GNU_PATH}/${WIND_HOST_TYPE}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/${WIN
D_HOST_TYPE}/bin
WIND_HOST_DIAB_BIN =
${WIND_DIAB_PATH}/${WIND_COMPILER_HOST}/bin:${WIND_HOME}/${WORKBENCH_VERSION}/$
{WIND_HOST_TYPE}/bin
endif
endif
endif
endif

WIND_HOST_BIN = ${WIND_BASE}/host/${WIND_HOST_TYPE}/bin


ifeq ($(HOSTTYPE),sun4)
override PATH :=
${WIND_HOST_BIN}:${WIND_HOST_GNU_BIN}:/tools/bin:/bin:/usr/bin:/usr/local/bin:${PATH}
else
override PATH :=
/bin:/usr/bin:/usr/local/bin:${WIND_HOST_BIN}:${WIND_HOST_GNU_BIN}:${WIND_HOST_DIAB_BIN}:${
PATH}
endif

#
# Since we are calling down into another vendors makefile, we must be
# sure to add everything it requires to the make flags.
#

override MAKEFLAGS += SRC_DIR=${VX_SRC} VX_SRC=${VX_SRC} SRCDIR=${VX_SRC} \
  WIND_BASE=${WIND_BASE} \
  WIND_HOST_TYPE=${WIND_HOST_TYPE} \
  PATH=${PATH} \
  VX_VERSION=${VX_VERSION} \
  CC=${CC} LD=${LD} NM=${NM} \
  SIZE=${SIZE}

# Setup default conditional library directory
ifndef COND_LIB_DIRECTORY
COND_LIB_DIRECTORY=${SDK}/systems/drv
endif
```

```
ifdef BUILD_BOOTROM
# VxWorks boot ROM not supported on NSX (use CFE)
ifneq ($(filter nsx gtx metrocore,$(targetplat))
 @$(ECHO) "VxWorks Bootrom not supported on $(targetplat)"
endif

endif

#
# Default target(s)
#

ifdef BUILD_COMPRESSED
ifeq ($(VX_VERSION),55)
# Solaris does not support 7z
all: $(DEST_DIR)/${VX_BINARY}.Z $(DEST_DIR)/${VX_BINARY}.gz $(if
$(NO_LOCAL_TARGETS),,$(VX_BINARY))
else
all: $(DEST_DIR)/${VX_BINARY}.Z $(DEST_DIR)/${VX_BINARY}.gz $(DEST_DIR)/${VX_BINARY}.7z
$(if $(NO_LOCAL_TARGETS),,$(VX_BINARY))
endif

else
#
# Default target(s)
#
all: $(DEST_DIR)/${VX_BINARY} $(if $(NO_LOCAL_TARGETS),,$(VX_BINARY))

endif

#
# Rule to build all BCM libraries before creating VxWorks binary.
# From systems/vxworks/*, one can run "make NO_BCM=1" to skip building
# the BCM libraries and build only the VxWorks BSP.
#
.PHONY: bcm_libraries
bcm_libraries:
ifndef NO_BCM
ifdef BUILD_PHYMOD
 $(MAKE) -C ${SDK}/libs/phymod SDKBUILD=$(SDKBUILD)
endif
 $(MAKE) -C ${SDK} SDKBUILD=$(SDKBUILD)
endif

.PHONY: driver_libraries
driver_libraries:
ifndef NO_BCM
 $(MAKE) -C ${SDK}/systems/drv SDKBUILD=$(SDKBUILD)
```

```
endif

LIB_BDE = libvxbde.a

bde:
 $(MAKE) -C ${SDK}/systems/bde/vxworks SDKBUILD=$(SDKBUILD)

ifdef BUILD_MACSEC
 @$(ECHO) "Building MACSEC libraries ...."
 $(MAKE) -C ${MACSEC_HOME} SDKBUILD=$(SDKBUILD) MACSEC_CC="${CC}"
MACSEC_LD="${LD}" MACSEC_AR="$(AR)" MACSEC_CFLAGS="${MACSEC_BUILD_FLAG}"
MACSEC_TARGET="${targetbase}/$(targetplat)/${platform}" all
endif

# Build Compiled-In configuration Variable Support
# Generate C stub for default SAL and BCM API configuration variables
# See also $SDK/rc/config.bcm
# See also $SDK/src/sal/user/config.c

ifeq "$(HOSTTYPE)" "Windows2000PC"
${BLDDIRWITHDRIVE}/platform_defines.c: ${SDK}/rc/config.bcm
 $(BCM2C) ${SDK}/rc/config.bcm > $@
${BLDDIR}/platform_defines.o: ${BLDDIRWITHDRIVE}/platform_defines.c
 $(CC) ${CFLAGS} -c $< -o $@
 $(RM) ${BLDDIRWITHDRIVE}/platform_defines.c
else
${BLDDIR}/platform_defines.c: ${SDK}/rc/config.bcm
 $(BCM2C) ${SDK}/rc/config.bcm > $@
${BLDDIR}/platform_defines.o: ${BLDDIR}/platform_defines.c
 $(CC) ${CFLAGS} -c $< -o $@
endif


#
# Build version generator.  If NO_VERSION=1 is specified in Make.local
# or on command line, then use the existing version.c.  If that doesn't
# exist, copy the default one from config.
#
# Otherwise, force the generation of a new version.c using the perl script.
#
ifeq "$(HOSTTYPE)" "Windows2000PC"
ifdef NO_VERSION
${BLDDIR}/version.c: ${BLDDIR}/.tree
 $(CP) ${SDK}/make/version.c $@
else
.PHONY: _force
${BLDDIRWITHDRIVE}/version.c: ${BLDDIR}/.tree _force
 $(MKVERS) > $@
```

```
endif
${BLDDIR}/version.o: ${BLDDIRWITHDRIVE}/version.c
 $(CC) ${CFLAGS} -c $< -o $@
 $(RM) ${BLDDIRWITHDRIVE}/version.c
else
ifdef NO_VERSION
${BLDDIR}/version.c: ${BLDDIR}/.tree
 $(CP) ${SDK}/make/version.c $@
else
.PHONY: _force
${BLDDIR}/version.c: ${BLDDIR}/.tree _force
 $(MKVERS) > $@
endif
${BLDDIR}/version.o: ${BLDDIR}/version.c
 $(CC) ${CFLAGS} -c $< -o $@
endif

#
# In Tornado 1, stripppc and objcopyppc corrupt the ELF program header
# and require the use of the "stripfix" kludge.  Alternately, Solaris'
# strip works on PPC binaries also (/usr/ccs/bin/strip).
#
STRIPFIX = $(PERL) ${SDK}/tools/stripfix.pl

#
# The following target creates the deflated version suitable to
# place on the flash disk.
#

DEFLATE = ${WIND_BASE}/host/${WIND_HOST_TYPE}/bin/deflate

$(DEST_DIR)/${VX_BINARY}.Z: $(DEST_DIR)/${VX_BINARY}
 @$(ECHO) "Deflating $< ==> $@ ...."
 $(DEFLATE) < $< > $@

$(DEST_DIR)/${VX_BINARY}.gz: $(DEST_DIR)/${VX_BINARY}
 @$(ECHO) "GZIP Compressing $< ==> $@ ...."
 $(GZIP) -c $< > $@

$(DEST_DIR)/${VX_BINARY}.7z: $(DEST_DIR)/${VX_BINARY}
 @$(ECHO) "LZMA Compressing $< ==> $@ ...."
 $(LZMA) a $(subst .$(VX_VERSION),-$(VX_VERSION),$<).7z $<
 chmod 644 $@

${LIBDIR}/libdrivers.${LIBSUFFIX}: ${BLDDIR}/.tree
 $(MAKE) -C ${COND_LIB_DIRECTORY} SDKBUILD=$(SDKBUILD)

ifdef COND_LIB_BCM570X
```

```
${LIBDIR}/libbcm570x.${LIBSUFFIX}: ${BLDDIR}/.tree
 $(MAKE) -C ${SDK}/systems/drv/bcm570x SDKBUILD=$(SDKBUILD)
endif


#
# Rules for building bootrom
#
bootrom: bootrom.dat

bootrom.dat:
 $(MAKE) -C ${SRC_DIR} bootrom_uncmp SDKBUILD=$(SDKBUILD)
 $(CP) ${SRC_DIR}/bootrom_uncmp bootrom.dat

.PHONY: .force

bootrom.hex: .force
ifeq ($(targetplat),nsx)
 @$(ECHO) "VxWorks Bootrom not supported on $(targetplat)"
else
ifeq ($(targetplat),gtx)
 @$(ECHO) "VxWorks Bootrom not supported on $(targetplat)"
else
ifeq ($(targetplat),metrocore)
 @$(ECHO) "VxWorks Bootrom not supported on $(targetplat)"
else
 $(MAKE) -C ${SRC_DIR} WIND_BASE="${WIND_BASE}" \
  VX_VERSION="${VX_VERSION}" BCM_END_DRV=1 \
  MAKEFLAGS="${MAKEFLAGS}" bootrom.hex
 $(CP) ${SRC_DIR}/bootrom.hex $@
 mkdir -p $(DEST_DIR)
 $(CP) ${SRC_DIR}/bootrom.hex $(DEST_DIR)
ifeq ($(BOOTROM_SWAP),yes)
 $(MAKE) -C ${SRC_DIR} WIND_BASE="${WIND_BASE}" PERL="${PERL}"\
  MAKEFLAGS="${MAKEFLAGS}" bootrom_swap.hex
endif
endif
endif
endif

mkboot:
 $(MAKE) -C ${SRC_DIR} mkboot.o SDKBUILD=$(SDKBUILD)
 $(CP) ${SRC_DIR}/mkboot.o .

#
# Generate file of symbols.
# NOTE: The symbols in bootrom.dat are not useful for debugging.
# The real symbols exist only in a temporary file during the build.
```

```
#
#.PHONY: bootrom.nm
#bootrom.nm:
# ${NM} -n bootrom.dat > bootrom.nm

#
# Generate VisionICE input file.
#
.PHONY: bootrom.ab
bootrom.ab:
 estconvert -w bootrom.o -b -c

#
# Use vxclean to do a "make clean" in the vxWorks directory only.
#
ifeq "$(HOSTTYPE)" "Windows2000PC"
vxclean::
 $(RM) ${VX_BINARY} ${VX_BINARY}.sym ${VX_BINARY}.Z bcm.Z bcm.gz ${VX_BINARY}.7z bcm.7z
 $(RM) bootrom.dat bootrom.hex
 $(MAKE) -C ${SRC_DIR} clean $(LOCAL_CLEAN) SDKBUILD=$(SDKBUILD)
else
vxclean::
 $(RM) ${DEST_DIR}/${VX_BINARY} ${DEST_DIR}/${VX_BINARY}.sym
 $(RM) ${DEST_DIR}/${VX_BINARY}.Z ${DEST_DIR}/bcm.Z bcm.gz ${DEST_DIR}/${VX_BINARY}.7z
 $(RM) ./vxWorks* bootrom.*
 $(MAKE) -C ${SRC_DIR} clean $(LOCAL_CLEAN) SDKBUILD=$(SDKBUILD)
endif

clean:: vxclean
 $(MAKE) -C ${SDK} clean SDKBUILD=$(SDKBUILD)
ifdef BUILD_PHYMOD
 $(MAKE) -C $(SDK)/libs/phymod clean
endif
 $(MAKE) -C ${SDK}/systems/drv clean SDKBUILD=$(SDKBUILD)
ifdef COND_LIB_BCM570X
 $(MAKE) -C ${SDK}/systems/drv/bcm570x clean SDKBUILD=$(SDKBUILD)
endif
ifdef BUILD_MACSEC
 $(MAKE) -C ${MACSEC_HOME} MACSEC_TARGET="${targetbase}/$(targetplat)/${platform}" clean
SDKBUILD=$(SDKBUILD)
endif
 $(MAKE) -C ${SDK}/systems/bde/vxworks clean

 $(RM) ${BOBJS}
 $(RM) ${BLDDIR}/version.c ${BLDDIR}/version.o
 $(RM) ${BLDDIR}/platform_defines.c ${BLDDIR}/platform_defines.o

distclean::
```

```
 $(RM) ${BLDROOT}
 $(RM) ${DEST_DIR}
else
ifndef DELIVERY
$(error DELIVERY required)
endif
ifeq ($(VX_VERSION),55)
FILES := $(if $(filter-out nsx gtx metrocore,$(targetplat)),bootrom.hex) \
 $(VX_BINARY) $(addprefix $(VX_BINARY).,Z gz sym)
LINKS := $(addprefix $(subst .$(VX_VERSION),,$(subst ,,$(VX_BINARY))).,Z gz)
else
FILES := $(if $(filter-out nsx gtx metrocore,$(targetplat)),bootrom.hex) \
 $(VX_BINARY) $(addprefix $(VX_BINARY).,Z 7z gz sym)
LINKS := $(addprefix $(subst .$(VX_VERSION),,$(subst ,,$(VX_BINARY))).,Z 7z gz)
endif

DELIVERABLES := $(FILES) $(LINKS)

# 1= source
define DELIVERY_FILE_RULE
_DEL_TARG += $(DELIVERY)/$(subst .$(VX_VERSION),,$(subst ,,$(1)))
$(DELIVERY)/$(subst .$(VX_VERSION),,$(subst ,,$(1))) :
 @mkdir -p $(DELIVERY)
 cp $(DEST_DIR)/$(1) $$@

endef

# Symlinks
define DELIVERY_LINK_RULE
_DEL_TARG += $(DELIVERY)/$(basename $(basename $(1)))$(suffix $(1))
$(DELIVERY)/$(basename $(basename $(1)))$(suffix $(1)) : $(DELIVERY)/$(1)
 ln -s $$(notdir $$?) $$@
endef

$(foreach f,$(FILES),$(eval $(call DELIVERY_FILE_RULE,$(f))))
$(foreach f,$(LINKS),$(eval $(call DELIVERY_LINK_RULE,$(f))))

DELIVER: $(_DEL_TARG)

endif

variable:
 @echo $($(VAR))
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.vxworks
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwWredDropNPart1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart1Entry.hx
No license file was found, but licenses were detected in source scan.

/* $Id: tmc_pmf_pgm_mgmt.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_pmf_pgm_mgmt.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: l3.c,v 1.892 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l3.c
* Purpose: trident2plus specific L3 function implementations
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2plus/l3.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: stubs.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/stubs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_l2_mact_sa_discard.c,v 1.5 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_l2_mact_sa_discard.c
No license file was found, but licenses were detected in source scan.

```
# $Id: th_sanity.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
# Port config assumes few 10G XE ports (including mgmt),
# few 100G CE ports and few HG[106] ports.
# By default use config: $SDK/rc/config_th_28x100_4x106.bcm

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init soc
local done 'echo "   Done"'
```

```
#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done


echo "Running Register reset defaults ..."
tr 1
$done

init soc
init misc
echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running CPU Benchmarks ..."
tr 21
$done

set rct=false
echo "Running memory tests ..."
if $?tomahawk_plus \
  'rcload thplus_memtest.soc' \
else \
  'rcload th_memtest.soc' \

$done
# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
```

```
linkscan off
memscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe Speed=10G
$done

echo "Testing MAC Loopback - 100 Gb/s all CE ports"
tr 18 PortBitMap=ce Speed=100G
$done

echo "Testing MAC Loopback - 106 Gb/s all HG ports"
tr 18 PortBitMap=hg Speed=106G
$done

#PHY Loopback
```

```
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe Speed=10G
$done

echo "Testing PHY Loopback - 100 Gb/s all CE ports"
tr 19 PortBitMap=ce Speed=100G
$done

echo "Testing PHY Loopback - 106 Gb/s all HG ports"
tr 19 PortBitMap=hg Speed=106G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 PortBitMap=ce,xe
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 PortBitMap=ce,xe
$done

#Internal snake Loopback
echo "Running internal snake on all XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=xe
$done

echo "Running internal snake on all XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=xe
$done

echo "Running internal snake on all CE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=ce
$done

echo "Running internal snake on all CE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=ce
$done

#Traffic Test
echo "Running Traffic Test in MAC mode on CE ports..."
tr 72 RunMode=MAC PortBitMap=ce
$done

echo "Running Traffic Test in PHY mode on CE ports..."
tr 72 RunMode=PHY PortBitMap=ce
$done

echo "Running Software Error Recovery Test ..."
linkscan off
```

```
tr 144

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off
```

```
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/th_sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bradley/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap21v_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap21v_api.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_vlan_edit.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_vlan_edit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       greyhound2.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound2.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* $Id: sbx_diags.c,v 1.16 Broadcom SDK $
* Contains source code for SBX diagnostics tests
* *****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sbx_diags.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccm_msg.h, v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ccm_msg.h
* Purpose: CCM Messages between SDK and uKernel..
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/ccm_msg.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_action_cmd.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*******************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_action_cmd.c
*
```

```
* MODULE PREFIX:  soc_tmcaction
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_action_cmd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOamFileTrans.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOamFileTrans.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkOamFileTrans.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: northstarplus_service.c,v 1.1.2.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/northstarplus_service.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_field_access.c                                    *
*  Created On    :  29/04/2013                                                 *
```

```
*  Created By    :  Kiran Divakar                                    *
*  Description   :  APIs to access Serdes IP Registers and Reg fields              *
*  Revision      :  *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_pkg_cfg.c 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_pkg_cfg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_chk.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip self-check operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_chk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_cell_snake_test.c,v 1.30 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC CELL SNAKE TEST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_cell_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.h,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains VLAN definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/vlan.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tefmod_cfg_seq.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : tefmod_cfg_seq.c
* Description: c functions implementing Tier1s for TEFMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier1/tefmod_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mcast.c
* Purpose:     Tracks and manages L2 Multicast tables.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/humv/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
   hl_api - AG High level APIs for RX100

File Name:
   ag_hl_api.h

File Description:

$Revision: 1.1.2.1 $ - Visual SourceSafe automatic revision number

History:
  Yaeli Karni 1/24/2002   Initial Creation


*****************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ces/include_bcm/ag_hl_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: esw_diag.c,v 1.109 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW socdiag command list
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_stk_uc_dyn.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stk_uc_dyn.c
* Purpose: Example Stacking UC Validation
* Reference: BCM88650 TM Device Driver (Stacking)
*
* Environment:
*
* The following application example matches the following system configuration:
*
*                         Tm-domain=0:                    Tm-domain=1:
*                            fap-id=0                       fap-id=1
*                            local-stacking ports: 15,16        local-stacking ports: 15,16 (system: 256 + 15, 256 + 16)
*                            in-local-port: 13                 in-local-port: 13
*                            out-ports: 13,17                  out-ports: 256+13, 256+17
*
*                   in_port        --------                        --------       in_port
*                          -------|      |       stacking ports       |      |-------
*                     out_port     |      |---------------------------- |      |       out_port
*                          -------|      |---------------------------- |      |-------
*                                 |      |                            |      |
*                                 --------                            --------
*
* All the configuration example is in stacking_uc_dyn_appl().
* Relevant soc properties configuration:
* For TM-domain 0:
*    stacking_enable=1
*    fabric_ftmh_outlif_extension=ALWAYS
*    system_ftmh_load_balancing_ext_mode=ENABLED
*    number_of_trunks=1024
*
* For TM-domain 1:
*    stacking_enable=1
*    fabric_ftmh_outlif_extension=ALWAYS
```

```
*    system_ftmh_load_balancing_ext_mode=ENABLED
*    number_of_trunks.BCM88650=1024
*
*    Local:
*       diag_disable=1
*
*    Stacking dynamic configuration flow:
*       1. System bring up: soc property - stacking_enable
*       2. Bring up local application
*       3. Adding stacking ports (any order):
*          a. Create Stacking DB (bcm_stk_modid_domain_add())
*          b. Set local tm-domain (bcm_switch_control_set(bcmSwitchTMDomain))
*          c. Configure header type (bcm_switch_control_port_set(bcmSwitchPortHeaderType,
BCM_SWITCH_PORT_HEADER_TYPE_STACKING))
*       4. Create stacking trunk:
*          a. Create tid
*          b. Add ports
*       5. Add remote TMD ports
*       6. configure reachability: reach tmd via stk_trunk (bcm_stk_domain_stk_trunk_add()).
*
* Test Run 1:
*  1. inject packet from in port. packet format:
*     a. eth packet
*     b. da[5] = out port in hex % 256 (port 256 + 13 --> 0x0,0x0,0x0,0x0,0x0,0x0,0x0d)
*     c. sa changes (for lb-key)
*     d. vlan tag = 1.
*  2. Expected Output:
*     a. according to the configured outpot port, the same packet should appear at the output - capture out going
packet.
*     b. traffic should be divided on all stacking ports (same lag) - show counters on both TMD.
 *    c. expected output of shell command "show counters" :
*        (for one packet sent from Tm-domain 0)
*
*    on Tm-domain 0:
*
*     RX
*     ---
*     Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |          snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*     ---------------------------------------------------------------------------------------------------------
*       13 ||                    1 |                    0 |                    0 |                    1 |
*     TX
*     ---
*     Port ||     snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*     ---------------------------------------------------------------------------------------------------------
*       15 ||                    0 |                    1 |                    0 |                    1 |
*
```

```
*          * packet should leave from port 15 or port 16, selected randomly.
*
*   on Tm-domain 1:
*
*     RX
*     ---
*     Port ||      snmpIfHCInUcastPkts |       snmpIfInNUcastPkts |           snmpIfInErrors |
snmpEtherStatsRXNoErrors |
*     ----------------------------------------------------------------------------------------------------------------
*       15 ||                    0 |                    0 |                    1 |                    0 |
*     TX
*     ---
*     Port ||      snmpIfHCOutUcastPkts |      snmpIfOutNUcastPkts |          snmpIfOutErrors |
snmpEtherStatsTXNoErrors |
*     ----------------------------------------------------------------------------------------------------------------
*       13 ||                    1 |                    0 |                    0 |                    1 |
*
*          * packet should enter from port 15 or port 16 depend on which port it's leave Tm-domain 0.
*
* cd ../../../../src/examples/dpp
* cint cint_stk_uc.c
* cint cint_stk_uc_dyn.c
* cint
* In TMD 0:
*     stacking_uc_dyn_appl(unit, 0);
* In TMD 1:
*     stacking_uc_dyn_appl(unit, 1);
*
* Remarks:
*    1. Read Stacking section in BCM88650 TM Device Driver.
*    2. The UC application should be called before MC application, as in stacking_mc_appl().
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stk_uc_dyn.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler.c,v 1.17 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dpp/interrupts/interrupt_handler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mmu_config.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mmu_config.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Profile Stats commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bprof_stats.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_history.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_history.c
No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo "there are 971 more memories to test.";echo "tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 970 more memories to test.";echo "tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0";tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 969 more memories to test.";echo "tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 968 more memories to test.";echo "tr 71 M=COS_MAP_SEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 967 more memories to test.";echo "tr 71 M=CPU_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 966 more memories to test.";echo "tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 965 more memories to test.";echo "tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 964 more memories to test.";echo "tr 71 M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0";tr 71
M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 963 more memories to test.";echo "tr 71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0";tr
71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 962 more memories to test.";echo "tr 71 M=CPU_TS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=CPU_TS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 961 more memories to test.";echo "tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 960 more memories to test.";echo "tr 71 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 959 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 958 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 957 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 956 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 955 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 954 more memories to test.";echo "tr 71 M=DLB_HGT_FLOWSET_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_FLOWSET_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 953 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 952 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 951 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_STATS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_STATS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 950 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_STATS_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_STATS_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 949 more memories to test.";echo "tr 71 M=DLB_HGT_GROUP_STATS_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_GROUP_STATS_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 948 more memories to test.";echo "tr 71 M=DLB_HGT_HIST_LOAD Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_HIST_LOAD Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 947 more memories to test.";echo "tr 71 M=DLB_HGT_INST_LOAD Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=DLB_HGT_INST_LOAD Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 946 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 945 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_STATUS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_STATUS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 944 more memories to test.";echo "tr 71 M=DLB_HGT_MEMBER_SW_STATE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DLB_HGT_MEMBER_SW_STATE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 943 more memories to test.";echo "tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 942 more memories to test.";echo "tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 941 more memories to test.";echo "tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_OPTIMAL_CANDIDATE_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 940 more memories to test.";echo "tr 71 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 939 more memories to test.";echo "tr 71 M=DLB_HGT_PORT_MEMBER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_PORT_MEMBER_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 938 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 937 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 936 more memories to test.";echo "tr 71 M=DLB_HGT_QUALITY_RESULT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_QUALITY_RESULT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 935 more memories to test.";echo "tr 71 M=DLB_HGT_RR_SELECTION_POINTER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_RR_SELECTION_POINTER Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 934 more memories to test.";echo "tr 71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 933 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 932 more memories to test.";echo "tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=E2E_HOL_STATUS_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 931 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 930 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 929 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 928 more memories to test.";echo "tr 71 M=EFP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 927 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 926 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 925 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 924 more memories to test.";echo "tr 71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 923 more memories to test.";echo "tr 71 M=EGR_1588_SA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_1588_SA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 922 more memories to test.";echo "tr 71 M=EGR_COUNTER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_COUNTER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 921 more memories to test.";echo "tr 71 M=EGR_DGPP_TO_NHI Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DGPP_TO_NHI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 920 more memories to test.";echo "tr 71 M=EGR_DGPP_TO_NHI_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DGPP_TO_NHI_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 919 more memories to test.";echo "tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_ECN_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 918 more memories to test.";echo "tr 71 M=EGR_DSCP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 917 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 916 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 915 more memories to test.";echo "tr 71 M=EGR_EDB_XMIT_CTRL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EDB_XMIT_CTRL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 914 more memories to test.";echo "tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 913 more memories to test.";echo "tr 71 M=EGR_ENABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ENABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 912 more memories to test.";echo "tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 911 more memories to test.";echo "tr 71 M=EGR_FCOE_CONTROL_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_FCOE_CONTROL_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 910 more memories to test.";echo "tr 71 M=EGR_FC_HEADER_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FC_HEADER_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 909 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 908 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 907 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 906 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 905 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 904 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 903 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 902 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 901 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 900 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 899 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 898 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 897 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 896 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 895 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 894 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 893 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 892 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 891 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 890 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 889 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 888 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 887 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 886 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 885 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 884 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 883 more memories to test.";echo "tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 882 more memories to test.";echo "tr 71 M=EGR_ING_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ING_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 881 more memories to test.";echo "tr 71 M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 880 more memories to test.";echo "tr 71 M=EGR_IPMC_CFG2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IPMC_CFG2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 879 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 878 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 877 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 876 more memories to test.";echo "tr 71 M=EGR_L3_INTF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_INTF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 875 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 874 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 873 more memories to test.";echo "tr 71 M=EGR_LPORT_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_LPORT_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 872 more memories to test.";echo "tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 871 more memories to test.";echo "tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 870 more memories to test.";echo "tr 71 M=EGR_MAP_MH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAP_MH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 869 more memories to test.";echo "tr 71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 868 more memories to test.";echo "tr 71 M=EGR_MASK_MODBASE Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_MASK_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 867 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 866 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 865 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 864 more memories to test.";echo "tr 71 M=EGR_MMU_CREDIT_LIMIT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MMU_CREDIT_LIMIT Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 863 more memories to test.";echo "tr 71 M=EGR_MMU_CREDIT_LIMIT_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MMU_CREDIT_LIMIT_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 862 more memories to test.";echo "tr 71 M=EGR_MMU_CREDIT_LIMIT_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MMU_CREDIT_LIMIT_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 861 more memories to test.";echo "tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 860 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 859 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 858 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 857 more memories to test.";echo "tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 856 more memories to test.";echo "tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 855 more memories to test.";echo "tr 71 M=EGR_MTU Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_MTU Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 854 more memories to test.";echo "tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 853 more memories to test.";echo "tr 71 M=EGR_OLP_CONFIG Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_OLP_CONFIG Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 852 more memories to test.";echo "tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_OLP_DGPP_CONFIG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 851 more memories to test.";echo "tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_OLP_HEADER_TYPE_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 850 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 849 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 848 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_Y Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 847 more memories to test.";echo "tr 71 M=EGR_PER_PORT_BUFFER_OVERFLOW Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PER_PORT_BUFFER_OVERFLOW Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 846 more memories to test.";echo "tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 845 more memories to test.";echo "tr 71 M=EGR_PFC_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PFC_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 844 more memories to test.";echo "tr 71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 843 more memories to test.";echo "tr 71 M=EGR_PORT_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 842 more memories to test.";echo "tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 841 more memories to test.";echo "tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 840 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 839 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 838 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 837 more memories to test.";echo "tr 71 M=EGR_QCN_CNM_CONTROL_TABLE Start=0
Count=0 SlamLowToHigh=0";tr 71 M=EGR_QCN_CNM_CONTROL_TABLE Start=0 Count=0
SlamLowToHigh=0;echo "done";
#echo "there are 836 more memories to test.";echo "tr 71 M=EGR_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 835 more memories to test.";echo "tr 71 M=EGR_SHAPING_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SHAPING_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 834 more memories to test.";echo "tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SUBPORT_TAG_DOT1P_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 833 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 832 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 831 more memories to test.";echo "tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 830 more memories to test.";echo "tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 829 more memories to test.";echo "tr 71 M=EGR_TX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 828 more memories to test.";echo "tr 71 M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 827 more memories to test.";echo "tr 71 M=EGR_VFT_FIELDS_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VFT_FIELDS_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 826 more memories to test.";echo "tr 71 M=EGR_VFT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VFT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 825 more memories to test.";echo "tr 71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 824 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 823 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 822 more memories to test.";echo "tr 71 M=EGR_VLAN_CONTROL_3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_CONTROL_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 821 more memories to test.";echo "tr 71 M=EGR_VLAN_STG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_STG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 820 more memories to test.";echo "tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 819 more memories to test.";echo "tr 71 M=EGR_VLAN_VFI_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_VFI_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 818 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 817 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 816 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 815 more memories to test.";echo "tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 814 more memories to test.";echo "tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 813 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 812 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 811 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 810 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 809 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 808 more memories to test.";echo "tr 71 M=EGR_VSAN_INTPRI_MAP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_VSAN_INTPRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 807 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 806 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 805 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 804 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 803 more memories to test.";echo "tr 71 M=EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 802 more memories to test.";echo "tr 71 M=ENDPOINT_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ENDPOINT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 801 more memories to test.";echo "tr 71 M=ENDPOINT_QUEUE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ENDPOINT_QUEUE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 800 more memories to test.";echo "tr 71 M=EPC_LINK_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EPC_LINK_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 799 more memories to test.";echo "tr 71 M=ESBS_PORT_TO_PIPE_MAPPING Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ESBS_PORT_TO_PIPE_MAPPING Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 798 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 797 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 796 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 795 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 794 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 793 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_MEMA_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 792 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 791 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 790 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 789 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 788 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_WERR_MAX_SC Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 787 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 786 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L0_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L0_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 785 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 784 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 783 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 782 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 781 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 780 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_MEMA_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 779 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 778 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 777 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 776 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 775 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_WERR_MAX_SC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 774 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 773 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L1_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L1_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 772 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 771 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 770 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 769 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 768 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 767 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 766 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 765 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_L2_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_L2_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 764 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_PORT_HEADS_TAILS Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_PORT_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 763 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 762 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 761 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_PORT_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_PORT_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 760 more memories to test.";echo "tr 71 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 759 more memories to test.";echo "tr 71 M=ES_PIPE0_TDM_TABLE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_TDM_TABLE_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 758 more memories to test.";echo "tr 71 M=ES_PIPE0_TDM_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE0_TDM_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 757 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 756 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 755 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 754 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 753 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 752 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_MEMA_CONFIG Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 751 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 750 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 749 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 748 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 747 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_WERR_MAX_SC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 746 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 745 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L0_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L0_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 744 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 743 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 742 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 741 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 740 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_HEADS_TAILS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 739 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_MEMA_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 738 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 737 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 736 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 735 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 734 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_WERR_MAX_SC Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 733 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 732 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L1_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L1_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 731 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_CHILD_STATE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_CHILD_STATE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 730 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 729 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 728 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_ERROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_ERROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 727 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_MIN_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_MIN_NEXT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 726 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_PARENT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_PARENT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 725 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_WERR_NEXT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_WERR_NEXT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 724 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_L2_XOFF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_L2_XOFF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 723 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_PORT_HEADS_TAILS Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_PORT_HEADS_TAILS Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 722 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 721 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 720 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_PORT_PARENT_STATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_PORT_PARENT_STATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 719 more memories to test.";echo "tr 71 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 718 more memories to test.";echo "tr 71 M=ES_PIPE1_TDM_TABLE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_TDM_TABLE_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 717 more memories to test.";echo "tr 71 M=ES_PIPE1_TDM_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ES_PIPE1_TDM_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 716 more memories to test.";echo "tr 71 M=FCOE_HOP_COUNT_FN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FCOE_HOP_COUNT_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 715 more memories to test.";echo "tr 71 M=FC_MAP_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FC_MAP_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 714 more memories to test.";echo "tr 71 M=FP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 713 more memories to test.";echo "tr 71 M=FP_COUNTER_TABLE_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_COUNTER_TABLE_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 712 more memories to test.";echo "tr 71 M=FP_COUNTER_TABLE_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_COUNTER_TABLE_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 711 more memories to test.";echo "tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GLOBAL_MASK_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 710 more memories to test.";echo "tr 71 M=FP_GLOBAL_MASK_TCAM_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GLOBAL_MASK_TCAM_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 709 more memories to test.";echo "tr 71 M=FP_GLOBAL_MASK_TCAM_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GLOBAL_MASK_TCAM_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 708 more memories to test.";echo "tr 71 M=FP_GM_FIELDS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_GM_FIELDS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 707 more memories to test.";echo "tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_HG_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 706 more memories to test.";echo "tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_I2E_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 705 more memories to test.";echo "tr 71 M=FP_METER_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_METER_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 704 more memories to test.";echo "tr 71 M=FP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 703 more memories to test.";echo "tr 71 M=FP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 702 more memories to test.";echo "tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_FIELD_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 701 more memories to test.";echo "tr 71 M=FP_PORT_METER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_PORT_METER_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 700 more memories to test.";echo "tr 71 M=FP_RANGE_CHECK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_RANGE_CHECK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 699 more memories to test.";echo "tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=FP_SLICE_KEY_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 698 more memories to test.";echo "tr 71 M=FP_SLICE_MAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=FP_SLICE_MAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 697 more memories to test.";echo "tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_STORM_CONTROL_METERS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 696 more memories to test.";echo "tr 71 M=FP_STORM_CONTROL_METERS_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FP_STORM_CONTROL_METERS_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 695 more memories to test.";echo "tr 71 M=FP_STORM_CONTROL_METERS_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FP_STORM_CONTROL_METERS_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 694 more memories to test.";echo "tr 71 M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=FP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 693 more memories to test.";echo "tr 71 M=GTP_PORT_TABLE Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=GTP_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 692 more memories to test.";echo "tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 691 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 690 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 689 more memories to test.";echo "tr 71 M=HG_TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 688 more memories to test.";echo "tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 687 more memories to test.";echo "tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 686 more memories to test.";echo "tr 71 M=IARB_ING_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_ING_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 685 more memories to test.";echo "tr 71 M=IARB_MAIN_TDM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_MAIN_TDM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 684 more memories to test.";echo "tr 71 M=IARB_MAIN_TDM_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_MAIN_TDM_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 683 more memories to test.";echo "tr 71 M=IARB_MAIN_TDM_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IARB_MAIN_TDM_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 682 more memories to test.";echo "tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 681 more memories to test.";echo "tr 71 M=IFP_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 680 more memories to test.";echo "tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 679 more memories to test.";echo "tr 71 M=IMIRROR_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 678 more memories to test.";echo "tr 71 M=IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 677 more memories to test.";echo "tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 676 more memories to test.";echo "tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 675 more memories to test.";echo "tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 674 more memories to test.";echo "tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 673 more memories to test.";echo "tr 71 M=ING_DVP_2_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_2_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 672 more memories to test.";echo "tr 71 M=ING_DVP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 671 more memories to test.";echo "tr 71 M=ING_EGRMSKBMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_EGRMSKBMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 670 more memories to test.";echo "tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 669 more memories to test.";echo "tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 668 more memories to test.";echo "tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 667 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 666 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 665 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 664 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 663 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 662 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 661 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 660 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 659 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 658 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 657 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 656 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 655 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 654 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 653 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 652 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 651 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 650 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 649 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 648 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 647 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 646 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 645 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_X Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_X Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 644 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 643 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 642 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 641 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 640 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 639 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 638 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 637 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 636 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 635 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 634 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 633 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 632 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 631 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 630 more memories to test.";echo "tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 629 more memories to test.";echo "tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0
Count=0 SlamLowToHigh=0";tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 628 more memories to test.";echo "tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 627 more memories to test.";echo "tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 626 more memories to test.";echo "tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 625 more memories to test.";echo "tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 624 more memories to test.";echo "tr 71
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 623 more memories to test.";echo "tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 622 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 621 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 620 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 619 more memories to test.";echo "tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
```

```
"done";
#echo "there are 618 more memories to test.";echo "tr 71 M=ING_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 617 more memories to test.";echo "tr 71 M=ING_SER_FIFO_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 616 more memories to test.";echo "tr 71 M=ING_SER_FIFO_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 615 more memories to test.";echo "tr 71 M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0";tr 71
M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 614 more memories to test.";echo "tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 613 more memories to test.";echo "tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 612 more memories to test.";echo "tr 71 M=ING_SNAT_HIT_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_HIT_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 611 more memories to test.";echo "tr 71 M=ING_SNAT_HIT_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_HIT_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 610 more memories to test.";echo "tr 71 M=ING_SNAT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 609 more memories to test.";echo "tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 608 more memories to test.";echo "tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL Start=0
Count=0 SlamLowToHigh=0";tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 607 more memories to test.";echo "tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 606 more memories to test.";echo "tr 71 M=ING_VFT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VFT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 605 more memories to test.";echo "tr 71 M=ING_VLAN_RANGE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_RANGE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 604 more memories to test.";echo "tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 603 more memories to test.";echo "tr 71 M=ING_VLAN_VFI_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_VFI_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 602 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 601 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 600 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 599 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 598 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 597 more memories to test.";echo "tr 71 M=ING_VSAN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=ING_VSAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 596 more memories to test.";echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 595 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 594 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 593 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 592 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 591 more memories to test.";echo "tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 590 more memories to test.";echo "tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 589 more memories to test.";echo "tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 588 more memories to test.";echo "tr 71 M=ISBS_PORT_TO_PIPE_MAPPING Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ISBS_PORT_TO_PIPE_MAPPING Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 587 more memories to test.";echo "tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 586 more memories to test.";echo "tr 71 M=L2MC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2MC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 585 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 584 more memories to test.";echo "tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_MATCH_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 583 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_DATA Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 582 more memories to test.";echo "tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_BULK_REPLACE_MASK Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 581 more memories to test.";echo "tr 71 M=L2_ENDPOINT_ID Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENDPOINT_ID Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 580 more memories to test.";echo "tr 71 M=L2X Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 579 more memories to test.";echo "tr 71 M=L2_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 578 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 577 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 576 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 575 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 574 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 573 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 572 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 571 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 570 more memories to test.";echo "tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 569 more memories to test.";echo "tr 71 M=L2_MOD_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_MOD_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 568 more memories to test.";echo "tr 71 M=L2_USER_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 567 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 566 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 565 more memories to test.";echo "tr 71 M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 564 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 563 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 562 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_HIT_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_HIT_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 561 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_HIT_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_HIT_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 560 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 559 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 558 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_128 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 557 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 556 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 555 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_RAW Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_RAW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 554 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 553 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 552 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 551 more memories to test.";echo "tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 550 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 549 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 548 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 547 more memories to test.";echo "tr 71 M=L3_DEFIP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 546 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 545 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 544 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 543 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 542 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 541 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 540 more memories to test.";echo "tr 71 M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 539 more memories to test.";echo "tr 71 M=L3_ECMP_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 538 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 537 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 536 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 535 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 534 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 533 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 532 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 531 more memories to test.";echo "tr 71 M=L3_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 530 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 529 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 528 more memories to test.";echo "tr 71 M=L3_IIF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IIF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 527 more memories to test.";echo "tr 71 M=L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 526 more memories to test.";echo "tr 71 M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 525 more memories to test.";echo "tr 71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_IPMC_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 524 more memories to test.";echo "tr 71 M=L3_IPMC_REMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IPMC_REMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 523 more memories to test.";echo "tr 71 M=L3_MTU_VALUES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_MTU_VALUES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 522 more memories to test.";echo "tr 71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 521 more memories to test.";echo "tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 520 more memories to test.";echo "tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 519 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 518 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 517 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 516 more memories to test.";echo "tr 71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 515 more memories to test.";echo "tr 71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 513 more memories to test.";echo "tr 71 M=MIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 512 more memories to test.";echo "tr 71 M=MMU_AGING_CTR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_CTR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 511 more memories to test.";echo "tr 71 M=MMU_AGING_EXP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_AGING_EXP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 510 more memories to test.";echo "tr 71 M=MMU_AGING_MASK_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_MASK_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 509 more memories to test.";echo "tr 71 M=MMU_AGING_MASK_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_AGING_MASK_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 508 more memories to test.";echo "tr 71 M=MMU_CBPData0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 507 more memories to test.";echo "tr 71 M=MMU_CBPData1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 506 more memories to test.";echo "tr 71 M=MMU_CBPData10 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 505 more memories to test.";echo "tr 71 M=MMU_CBPData11 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 504 more memories to test.";echo "tr 71 M=MMU_CBPData12 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 503 more memories to test.";echo "tr 71 M=MMU_CBPData13 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 502 more memories to test.";echo "tr 71 M=MMU_CBPData14 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 501 more memories to test.";echo "tr 71 M=MMU_CBPData15 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData15 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 500 more memories to test.";echo "tr 71 M=MMU_CBPData16 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 499 more memories to test.";echo "tr 71 M=MMU_CBPData17 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 498 more memories to test.";echo "tr 71 M=MMU_CBPData18 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 497 more memories to test.";echo "tr 71 M=MMU_CBPData19 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 496 more memories to test.";echo "tr 71 M=MMU_CBPData2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 495 more memories to test.";echo "tr 71 M=MMU_CBPData20 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 494 more memories to test.";echo "tr 71 M=MMU_CBPData21 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 493 more memories to test.";echo "tr 71 M=MMU_CBPData22 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 492 more memories to test.";echo "tr 71 M=MMU_CBPData23 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 491 more memories to test.";echo "tr 71 M=MMU_CBPData24 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData24 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 490 more memories to test.";echo "tr 71 M=MMU_CBPData25 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 489 more memories to test.";echo "tr 71 M=MMU_CBPData26 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 488 more memories to test.";echo "tr 71 M=MMU_CBPData27 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData27 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 487 more memories to test.";echo "tr 71 M=MMU_CBPData28 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 486 more memories to test.";echo "tr 71 M=MMU_CBPData29 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData29 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 485 more memories to test.";echo "tr 71 M=MMU_CBPData3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 484 more memories to test.";echo "tr 71 M=MMU_CBPData30 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 483 more memories to test.";echo "tr 71 M=MMU_CBPData31 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 482 more memories to test.";echo "tr 71 M=MMU_CBPData32 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 481 more memories to test.";echo "tr 71 M=MMU_CBPData33 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData33 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 480 more memories to test.";echo "tr 71 M=MMU_CBPData34 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 479 more memories to test.";echo "tr 71 M=MMU_CBPData35 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 478 more memories to test.";echo "tr 71 M=MMU_CBPData36 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 477 more memories to test.";echo "tr 71 M=MMU_CBPData37 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData37 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 476 more memories to test.";echo "tr 71 M=MMU_CBPData38 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 475 more memories to test.";echo "tr 71 M=MMU_CBPData39 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 474 more memories to test.";echo "tr 71 M=MMU_CBPData4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 473 more memories to test.";echo "tr 71 M=MMU_CBPData40 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 472 more memories to test.";echo "tr 71 M=MMU_CBPData41 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData41 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 471 more memories to test.";echo "tr 71 M=MMU_CBPData42 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 470 more memories to test.";echo "tr 71 M=MMU_CBPData43 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 469 more memories to test.";echo "tr 71 M=MMU_CBPData44 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 468 more memories to test.";echo "tr 71 M=MMU_CBPData45 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 467 more memories to test.";echo "tr 71 M=MMU_CBPData46 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData46 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 466 more memories to test.";echo "tr 71 M=MMU_CBPData47 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 465 more memories to test.";echo "tr 71 M=MMU_CBPData48 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 464 more memories to test.";echo "tr 71 M=MMU_CBPData49 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData49 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 463 more memories to test.";echo "tr 71 M=MMU_CBPData5 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 462 more memories to test.";echo "tr 71 M=MMU_CBPData50 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData50 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 461 more memories to test.";echo "tr 71 M=MMU_CBPData51 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 460 more memories to test.";echo "tr 71 M=MMU_CBPData52 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 459 more memories to test.";echo "tr 71 M=MMU_CBPData53 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 458 more memories to test.";echo "tr 71 M=MMU_CBPData54 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 457 more memories to test.";echo "tr 71 M=MMU_CBPData55 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData55 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 456 more memories to test.";echo "tr 71 M=MMU_CBPData56 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 455 more memories to test.";echo "tr 71 M=MMU_CBPData57 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 454 more memories to test.";echo "tr 71 M=MMU_CBPData58 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 453 more memories to test.";echo "tr 71 M=MMU_CBPData59 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData59 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 452 more memories to test.";echo "tr 71 M=MMU_CBPData6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 451 more memories to test.";echo "tr 71 M=MMU_CBPData60 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 450 more memories to test.";echo "tr 71 M=MMU_CBPData61 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 449 more memories to test.";echo "tr 71 M=MMU_CBPData62 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 448 more memories to test.";echo "tr 71 M=MMU_CBPData63 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData63 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 447 more memories to test.";echo "tr 71 M=MMU_CBPData64 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 446 more memories to test.";echo "tr 71 M=MMU_CBPData65 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 445 more memories to test.";echo "tr 71 M=MMU_CBPData66 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 444 more memories to test.";echo "tr 71 M=MMU_CBPData67 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 443 more memories to test.";echo "tr 71 M=MMU_CBPData68 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData68 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 442 more memories to test.";echo "tr 71 M=MMU_CBPData69 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 441 more memories to test.";echo "tr 71 M=MMU_CBPData7 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 440 more memories to test.";echo "tr 71 M=MMU_CBPData70 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData70 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 439 more memories to test.";echo "tr 71 M=MMU_CBPData71 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 438 more memories to test.";echo "tr 71 M=MMU_CBPData72 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData72 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 437 more memories to test.";echo "tr 71 M=MMU_CBPData73 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 436 more memories to test.";echo "tr 71 M=MMU_CBPData74 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 435 more memories to test.";echo "tr 71 M=MMU_CBPData75 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 434 more memories to test.";echo "tr 71 M=MMU_CBPData76 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 433 more memories to test.";echo "tr 71 M=MMU_CBPData77 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData77 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 432 more memories to test.";echo "tr 71 M=MMU_CBPData78 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 431 more memories to test.";echo "tr 71 M=MMU_CBPData79 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 430 more memories to test.";echo "tr 71 M=MMU_CBPData8 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData8 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 429 more memories to test.";echo "tr 71 M=MMU_CBPData80 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData80 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 428 more memories to test.";echo "tr 71 M=MMU_CBPData81 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 427 more memories to test.";echo "tr 71 M=MMU_CBPData82 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 426 more memories to test.";echo "tr 71 M=MMU_CBPData83 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 425 more memories to test.";echo "tr 71 M=MMU_CBPData9 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 424 more memories to test.";echo "tr 71 M=MMU_CCP0_RESEQ_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP0_RESEQ_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 423 more memories to test.";echo "tr 71 M=MMU_CCP1_RESEQ_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP1_RESEQ_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 422 more memories to test.";echo "tr 71 M=MMU_CCP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 421 more memories to test.";echo "tr 71 M=MMU_CELL_LINK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CELL_LINK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 420 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 419 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 418 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 417 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 416 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 415 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 414 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK14 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK14 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 413 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK15 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK15 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 412 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK16 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK16 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 411 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK17 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK17 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 410 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK18 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK18 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 409 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK19 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK19 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 408 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 407 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK20 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK20 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 406 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 405 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 404 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 403 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 402 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 401 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 400 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 399 more memories to test.";echo "tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 398 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 397 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 396 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 395 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 394 more memories to test.";echo "tr 71 M=MMU_CTR_MTRI_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MTRI_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 393 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 392 more memories to test.";echo "tr 71 M=MMU_ENQ_PBI_DB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQ_PBI_DB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 391 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 390 more memories to test.";echo "tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_BASE_INDEX_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 389 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 388 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 387 more memories to test.";echo "tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_FC_ST_TBL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 386 more memories to test.";echo "tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_MERGE_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 385 more memories to test.";echo "tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_OFFSET_MAP_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 384 more memories to test.";echo "tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_PFC_ST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 383 more memories to test.";echo "tr 71 M=MMU_INTFI_PORT_COEFC_TB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_PORT_COEFC_TB Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 382 more memories to test.";echo "tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFI_ST_TRANS_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 381 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 380 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 379 more memories to test.";echo "tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 378 more memories to test.";echo "tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 377 more memories to test.";echo "tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 376 more memories to test.";echo "tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 375 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_CNM_RVD_TBL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_CNM_RVD_TBL Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 374 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_CNM_TIMER_TBL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_CNM_TIMER_TBL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 373 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_TBID_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_TBID_TBL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 372 more memories to test.";echo "tr 71 M=MMU_INTFO_QCN_TOV_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_QCN_TOV_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 371 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 370 more memories to test.";echo "tr 71 M=MMU_MCFP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_MCFP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 369 more memories to test.";echo "tr 71 M=MMU_MCQDB0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 368 more memories to test.";echo "tr 71 M=MMU_MCQDB1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 367 more memories to test.";echo "tr 71 M=MMU_MCQE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_MCQE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 366 more memories to test.";echo "tr 71 M=MMU_MCQN Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_MCQN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 365 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 364 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 363 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 362 more memories to test.";echo "tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 361 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 360 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 359 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 358 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 357 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 356 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L2_MEM_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L2_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 355 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 354 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 353 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 352 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 351 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 350 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 349 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 348 more memories to test.";echo "tr 71 M=MMU_MTRO_L2_MEM_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L2_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 347 more memories to test.";echo "tr 71 M=MMU_PDB0 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_PDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 346 more memories to test.";echo "tr 71 M=MMU_PDB1 Start=0 Count=1 SlamLowToHigh=0";tr
71 M=MMU_PDB1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 345 more memories to test.";echo "tr 71 M=MMU_PKTHDR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 344 more memories to test.";echo "tr 71 M=MMU_PKT_LINK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKT_LINK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 343 more memories to test.";echo "tr 71 M=MMU_PORTCNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 342 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 341 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 340 more memories to test.";echo "tr 71 M=MMU_QCN_CNM_COUNTER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CNM_COUNTER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 339 more memories to test.";echo "tr 71 M=MMU_QCN_CNM_QUEUE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CNM_QUEUE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 338 more memories to test.";echo "tr 71 M=MMU_QCN_CNM_QUEUE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CNM_QUEUE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 337 more memories to test.";echo "tr 71 M=MMU_QCN_CPQST_QLEN Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CPQST_QLEN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 336 more memories to test.";echo "tr 71 M=MMU_QCN_CPQST_TSSLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_CPQST_TSSLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 335 more memories to test.";echo "tr 71 M=MMU_QCN_ENABLE_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_ENABLE_0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 334 more memories to test.";echo "tr 71 M=MMU_QCN_ENABLE_1 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_QCN_ENABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 333 more memories to test.";echo "tr 71 M=MMU_QCN_QFBTB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_QFBTB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 332 more memories to test.";echo "tr 71 M=MMU_QCN_QLEN_SHADOW0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_QLEN_SHADOW0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 331 more memories to test.";echo "tr 71 M=MMU_QCN_QLEN_SHADOW1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_QLEN_SHADOW1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 330 more memories to test.";echo "tr 71 M=MMU_QCN_SITB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_QCN_SITB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 329 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 328 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 327 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 326 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 325 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 324 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 323 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 322 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 321 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 320 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 319 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 318 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 317 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 316 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 315 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 314 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 313 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 312 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 311 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 310 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 309 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_1C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 308 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 307 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 306 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 305 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 304 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 303 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 302 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 301 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 300 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 299 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_1C Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 298 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 297 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 296 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 295 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 294 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 293 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 292 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 291 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 290 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 289 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_1C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 288 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 287 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 286 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 285 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 284 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 283 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 282 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 281 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 280 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 279 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 278 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 277 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 276 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 275 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 274 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 273 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 272 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 271 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 270 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 269 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 268 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 267 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 266 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 265 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 264 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 263 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 262 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 261 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 260 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 259 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 258 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 257 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 256 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_PORT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 255 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 254 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_BST_QUEUE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_BST_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 253 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 252 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 251 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_CONFIG_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_CONFIG_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 250 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 249 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 248 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_COUNTER_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_COUNTER_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 247 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_OFFSET_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_OFFSET_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 246 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_OFFSET_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_OFFSET_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 245 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 244 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 243 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 242 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 241 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_PORT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_PORT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 240 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_PORT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_PORT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 239 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 238 more memories to test.";echo "tr 71 M=MMU_THDU_XPIPE_RESUME_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_XPIPE_RESUME_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 237 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_BST_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_BST_PORT Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 236 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_BST_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_BST_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 235 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_BST_QUEUE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_BST_QUEUE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 234 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_CONFIG_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_CONFIG_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 233 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_CONFIG_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_CONFIG_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 232 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_CONFIG_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_CONFIG_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 231 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_COUNTER_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_COUNTER_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 230 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_COUNTER_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_COUNTER_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 229 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_COUNTER_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_COUNTER_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 228 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_OFFSET_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_OFFSET_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 227 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_OFFSET_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_OFFSET_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 226 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 225 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 224 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 223 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_RESUME_PORT Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_RESUME_PORT Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 222 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_RESUME_PORT_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_RESUME_PORT_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 221 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_RESUME_PORT_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_RESUME_PORT_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 220 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_RESUME_QGROUP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_RESUME_QGROUP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 219 more memories to test.";echo "tr 71 M=MMU_THDU_YPIPE_RESUME_QUEUE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_YPIPE_RESUME_QUEUE Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 218 more memories to test.";echo "tr 71 M=MMU_UCQDB0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 217 more memories to test.";echo "tr 71 M=MMU_UCQDB1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 216 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_X_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 215 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_Y_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_Y_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 214 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_X_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 213 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_Y_PIPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_Y_PIPE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 212 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 211 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 210 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 209 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 208 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 207 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 206 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 205 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 204 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 203 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 202 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 201 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 200 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 199 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 198 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 197 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 196 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 195 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 194 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 193 more memories to test.";echo "tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 192 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 191 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 190 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 189 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 188 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 187 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 186 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 185 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 184 more memories to test.";echo "tr 71 M=MODID_BASE_PTR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODID_BASE_PTR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 183 more memories to test.";echo "tr 71 M=MODPORT_MAP_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 182 more memories to test.";echo "tr 71 M=MODPORT_MAP_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 181 more memories to test.";echo "tr 71 M=MODPORT_MAP_M2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 180 more memories to test.";echo "tr 71 M=MODPORT_MAP_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 179 more memories to test.";echo "tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 178 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 177 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 176 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 175 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 174 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_M3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 173 more memories to test.";echo "tr 71 M=MODPORT_MAP_SUBPORT_MIRROR Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SUBPORT_MIRROR Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 172 more memories to test.";echo "tr 71 M=MODPORT_MAP_SW Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 171 more memories to test.";echo "tr 71 M=MPLS_ENTROPY_LABEL_DATA Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MPLS_ENTROPY_LABEL_DATA Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 170 more memories to test.";echo "tr 71 M=MPLS_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 169 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 168 more memories to test.";echo "tr 71 M=MY_STATION_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 167 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 166 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 165 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_2_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_2_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 164 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 163 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 162 more memories to test.";echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 161 more memories to test.";echo "tr 71 M=NUM_QCN_CNM_RECEIVED Start=0 Count=1
SlamLowToHigh=0";tr 71 M=NUM_QCN_CNM_RECEIVED Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 160 more memories to test.";echo "tr 71 M=PFS_PACKET_TYPE_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PFS_PACKET_TYPE_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 159 more memories to test.";echo "tr 71 M=PHB2_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PHB2_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 158 more memories to test.";echo "tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 157 more memories to test.";echo "tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 156 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 155 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 154 more memories to test.";echo "tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 153 more memories to test.";echo "tr 71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 152 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 151 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 150 more memories to test.";echo "tr 71 M=RH_ECMP_DROPS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_ECMP_DROPS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 149 more memories to test.";echo "tr 71 M=RH_ECMP_DROPS_X Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_ECMP_DROPS_X Start=0 Count=0 SlamLowToHigh=0;echo "done";
```

```
echo "there are 148 more memories to test.";echo "tr 71 M=RH_ECMP_DROPS_Y Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_ECMP_DROPS_Y Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 147 more memories to test.";echo "tr 71 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 146 more memories to test.";echo "tr 71 M=RH_ECMP_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_ECMP_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 145 more memories to test.";echo "tr 71 M=RH_HGT_DROPS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_DROPS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 144 more memories to test.";echo "tr 71 M=RH_HGT_DROPS_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_DROPS_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 143 more memories to test.";echo "tr 71 M=RH_HGT_DROPS_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_DROPS_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 142 more memories to test.";echo "tr 71 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 141 more memories to test.";echo "tr 71 M=RH_HGT_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 140 more memories to test.";echo "tr 71 M=RH_HGT_GROUP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_HGT_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 139 more memories to test.";echo "tr 71 M=RH_LAG_DROPS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_LAG_DROPS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 138 more memories to test.";echo "tr 71 M=RH_LAG_DROPS_X Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_LAG_DROPS_X Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 137 more memories to test.";echo "tr 71 M=RH_LAG_DROPS_Y Start=0 Count=0
SlamLowToHigh=0";tr 71 M=RH_LAG_DROPS_Y Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 136 more memories to test.";echo "tr 71 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 135 more memories to test.";echo "tr 71 M=RH_LAG_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RH_LAG_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 134 more memories to test.";echo "tr 71 M=RQE_FREE_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 133 more memories to test.";echo "tr 71 M=RQE_LINK_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 132 more memories to test.";echo "tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 131 more memories to test.";echo "tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 130 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 129 more memories to test.";echo "tr 71 M=SERVICE_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 128 more memories to test.";echo "tr 71 M=SERVICE_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 127 more memories to test.";echo "tr 71 M=SERVICE_QUEUE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SERVICE_QUEUE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 126 more memories to test.";echo "tr 71 M=SER_MEMORY Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=SER_MEMORY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 125 more memories to test.";echo "tr 71 M=SER_RESULT_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 124 more memories to test.";echo "tr 71 M=SER_RESULT_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 123 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 122 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 121 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 120 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 119 more memories to test.";echo "tr 71 M=SGPP_TO_PIPE_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SGPP_TO_PIPE_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 118 more memories to test.";echo "tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 117 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 116 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 115 more memories to test.";echo "tr 71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 114 more memories to test.";echo "tr 71 M=SOURCE_VP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_VP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 113 more memories to test.";echo "tr 71 M=SRC_MODID_EGRESS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_EGRESS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 112 more memories to test.";echo "tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 111 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 110 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 109 more memories to test.";echo "tr 71 M=SUBPORT_TAG_SGPP_MAP_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SUBPORT_TAG_SGPP_MAP_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 108 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 107 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 106 more memories to test.";echo "tr 71 M=TCP_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TCP_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 105 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 104 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 103 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 102 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 101 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 100 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 99 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 98 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 97 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 96 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 95 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 94 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 93 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 92 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 91 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 90 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 89 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_X Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 88 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_Y Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 87 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 86 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 85 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 84 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 83 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 82 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 81 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_X Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_X Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 80 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_Y Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_Y Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 79 more memories to test.";echo "tr 71 M=TOS_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TOS_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 78 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 77 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_X Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_X Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 76 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_Y Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_Y Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 75 more memories to test.";echo "tr 71 M=TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 74 more memories to test.";echo "tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 73 more memories to test.";echo "tr 71 M=TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 72 more memories to test.";echo "tr 71 M=TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 71 more memories to test.";echo "tr 71 M=TTL_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TTL_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 70 more memories to test.";echo "tr 71 M=TX_INITIAL_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TX_INITIAL_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 69 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 68 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 67 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 66 more memories to test.";echo "tr 71 M=FP_UDF_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 65 more memories to test.";echo "tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 64 more memories to test.";echo "tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 63 more memories to test.";echo "tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 62 more memories to test.";echo "tr 71 M=VFI Start=0 Count=1 SlamLowToHigh=0";tr 71 M=VFI
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 61 more memories to test.";echo "tr 71 M=VFI_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFI_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 60 more memories to test.";echo "tr 71 M=VFI_PROFILE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VFI_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 59 more memories to test.";echo "tr 71 M=VFI_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFI_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 58 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 57 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 56 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 55 more memories to test.";echo "tr 71 M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 54 more memories to test.";echo "tr 71 M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 53 more memories to test.";echo "tr 71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 52 more memories to test.";echo "tr 71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 51 more memories to test.";echo "tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 50 more memories to test.";echo "tr 71 M=VLAN_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 49 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 48 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 47 more memories to test.";echo "tr 71 M=STG_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=STG_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 46 more memories to test.";echo "tr 71 M=VLAN_SUBNET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 45 more memories to test.";echo "tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 44 more memories to test.";echo "tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 43 more memories to test.";echo "tr 71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0";tr
```

```
71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 42 more memories to test.";echo "tr 71 M=VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 41 more memories to test.";echo "tr 71 M=VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 40 more memories to test.";echo "tr 71 M=VOQ_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VOQ_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 39 more memories to test.";echo "tr 71 M=VOQ_MOD_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VOQ_MOD_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 38 more memories to test.";echo "tr 71 M=VOQ_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VOQ_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 37 more memories to test.";echo "tr 71 M=VRF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VRF Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 36 more memories to test.";echo "tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 35 more memories to test.';echo 'tr 71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0';tr
71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 34 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 33 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 32 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 31 more memories to test.';echo 'tr 71 M=HSP_SCHED_L0_CREDIT_MEM_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L0_CREDIT_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 30 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 29 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 28 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 27 more memories to test.';echo 'tr 71 M=HSP_SCHED_L1_CREDIT_MEM_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L1_CREDIT_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 26 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 25 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 Start=0
Count=1 SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 Start=0 Count=1
SlamLowToHigh=0;echo 'done';
```

```
#echo 'there are 24 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_CREDIT_MEM_0 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_CREDIT_MEM_0 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 23 more memories to test.';echo 'tr 71 M=HSP_SCHED_L2_CREDIT_MEM_1 Start=0 Count=1
SlamLowToHigh=0';tr 71 M=HSP_SCHED_L2_CREDIT_MEM_1 Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 22 more memories to test.';echo 'tr 71 M=ING_SERVICE_PRI_MAP Start=0 Count=1
SlamLowToHigh=0';tr 71 M=ING_SERVICE_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 21 more memories to test.';echo 'tr 71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0';tr
71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 20 more memories to test.';echo 'tr 71 M=LMEP Start=0 Count=1 SlamLowToHigh=0';tr 71
M=LMEP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 19 more memories to test.';echo 'tr 71 M=LMEP_DA Start=0 Count=1 SlamLowToHigh=0';tr 71
M=LMEP_DA Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 18 more memories to test.';echo 'tr 71 M=MAID_REDUCTION Start=0 Count=1
SlamLowToHigh=0';tr 71 M=MAID_REDUCTION Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 17 more memories to test.';echo 'tr 71 M=MA_INDEX Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MA_INDEX Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 16 more memories to test.';echo 'tr 71 M=MA_STATE Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MA_STATE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 15 more memories to test.';echo 'tr 71 M=OAM_LM_COUNTERS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=OAM_LM_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 14 more memories to test.';echo 'tr 71 M=OAM_OPCODE_CONTROL_PROFILE Start=0
Count=1 SlamLowToHigh=0';tr 71 M=OAM_OPCODE_CONTROL_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 13 more memories to test.';echo 'tr 71 M=RMEP Start=0 Count=1 SlamLowToHigh=0';tr 71
M=RMEP Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 12  more memories to test.';echo 'tr 71 M=DLB_HGT_MEMBER_HW_STATE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=DLB_HGT_MEMBER_HW_STATE Start=0 Count=1 SlamLowToHigh=0;echo
'done';
#echo 'there are 11  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 10  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES_X Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES_X Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 9  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES_Y Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES_Y Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 8  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 7  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS_X Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS_X Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 6  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS_Y Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS_Y Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 5  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 4  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS_X Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS_X Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 3  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS_Y Start=0 Count=1
```

```
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS_Y Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 2  more memories to test.';echo 'tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 1  more memories to test.';echo 'tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 Start=0
Count=1 SlamLowToHigh=0;echo 'done';
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr71_bcm56860_a0.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250.h,v 1.3 2011/07/21 16:14:37 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*  File Name     :  merlin_dino_usr_includes.h                                  *
*  Created On    :  05/07/2014                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  Header file which includes all required std libraries and macros *
*  Revision      :  $Id: merlin_dino_usr_includes.h 1139 2015-09-17 23:39:05Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                   *
*     Broadcom Corporation                                                      *
*     5300 California Avenue                                                    *
*     Irvine, CA  92617                                                         *
*                                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
```

```
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_usr_includes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mac.c,v 1.57 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* StrataSwitch Media Access Controller API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/mac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsLib.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flashFsLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 0.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.c
* Purpose:    Bidirectional Forwarding Detection APIs.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/bfd.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi.c,v 1.7 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_rom_defi.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mbcm.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/mbcm.c
No license file was found, but licenses were detected in source scan.

/*
*
* $Id: eagle_common.c,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier2/eagle_common.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_line_card.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_line_card.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: brd_chassis_int.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       brd_chassis_int.h
* Purpose:     Internal chassis support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_chassis_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_mirror.h  Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: MIRROR APIs
*
* Purpose:
*     MIRROR API for SBX devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibMVT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibMVT.h
*
* <pre>
*
* ==========================================================================
* ==  sbZfSbQe2000ElibMVT.h - Multicast Vector Table Entry ZFrame ==
* ==========================================================================
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibMVT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved.  Unpublished rights reserved under the copyright
```

* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
* sbZfSbQe2000ElibMVT.h
*
* ABSTRACT:
*
* Multicast Vector Table Entry ZFrame Definition.
*
* LANGUAGE:
*
* ZFrame
*
* AUTHORS:
*
* Travis B. Sawyer
*
* CREATION DATE:
*
* 15-February-2005
* </pre>
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibMVT.hx
No license file was found, but licenses were detected in source scan.

/*
* hash.c: chained hash tables
*
* Reference: Your favorite introductory book on algorithms
*
* Copyright (C) 2000 Bjorn Reese and Daniel Veillard.
*
* Permission to use, copy, modify, and distribute this software for any
* purpose with or without fee is hereby granted, provided that the above

* copyright notice and this permission notice appear in all copies.
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF
* MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE AUTHORS AND
* CONTRIBUTORS ACCEPT NO RESPONSIBILITY IN ANY CONCEIVABLE MANNER.
*
* Author: breese@users.sourceforge.net
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/libxml/hash.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: configSdkPre.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
* additional components necessary for SDK.
* Includes this file before configAll.h
* in your BSP config.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/configSdkPre.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: l3.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: l3.h
* Purpose: L3 and MPLS internal definitions
* specific to FE2000 BCM API implementation
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/l3.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: xgxs1.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.c
* Purpose:     Broadcom 10/100/1000/2500/10000/12000/13000/16000 SerDes
*             (SerDes-XGXS/Unicore)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs1.c
No license file was found, but licenses were detected in source scan.

```
# $Id: BCM953022K.bcm,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

pbmp_valid.0=0x0000013f
# internal GPHY
phy_sys_interface_ge4.0=1
# SGMII mode
phy_sys_interface_ge5.0=4
phy_fiber_pref=1
phy_port_primary_and_offset_ge0=0x0000
phy_port_primary_and_offset_ge1=0x0001
phy_port_primary_and_offset_ge2=0x0002
phy_port_primary_and_offset_ge3=0x0003
phy_port_primary_and_offset_ge4=0x0004

## ==== MacSec Section ==== ##
macsec_enable = 1

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
macsec_dev_addr_ge4=0x21B
macsec_dev_addr_ge5=0x21A

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
macsec_port_index_ge4=0
macsec_port_index_ge5=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config/BCM958625HR.bcm
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_action_cmd.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_action_cmd.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgSrcIdConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgSrcIdConsole.hx
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_rif.c,v 1.47 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_rif.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: apache.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	apache.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/apache.h
No license file was found, but licenses were detected in source scan.

/*--
* $Id: tscmod_diagnostics.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information

```
* Copyright: (c) 2012 Broadcom Corp.
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : tscmod_diagnostics.c
* Description: C sequences which utilize tier1s to build configurations
*              which target only the diagnostic features of the Serdes
*-----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: salIntf.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/salIntf.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_qax_fabric.c,v 1.96 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/QAX/qax_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 WARM BOOT
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_warm_boot.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ci.c,v 1.13.14.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    tmu.c
* Purpose: Caladan3 on TMU drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/ci.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_stg.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: STG warmboot APIs
*
* Purpose:
*     STG API for Caladan3 Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_stg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif_ing_vlan_edit.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_pb_pp_lif_ing_vlan_edit.h
*
* MODULE PREFIX:  soc_pb_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
```

* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lif_ing_vlan_edit.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_link.h,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 STAT H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_link.h
No license file was found, but licenses were detected in source scan.

/** \file res_mngr_internal.h
*
* Internal DNX resource manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/algo/res_mngr/res_mngr_internal.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_sirius_setup.c,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Configuration example of 2xScorpion+4xSirius+2xPolaris
* The script includes Sirius configuration only.
* Scorpion | Scorpion

```
* MODID    | Frontpanel
*   28
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/cint_sirius_setup.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_shim.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip to core API shim layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_shim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassSourceIdEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassSourceIdEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_modid_local_map.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE MODID LOCAL MAP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/dfe_modid_local_map.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: recovery_vars.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/recovery_vars.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_api_ingress_scheduler.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer2_jer_pll_synce.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_pll_synce.h
No license file was found, but licenses were detected in source scan.

$Id:Venkata Kancharla $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$
echo "there are 971 more memories to test.";echo "tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 51 M=ALTERNATE_EMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 970 more memories to test.";echo "tr 51 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1";tr 51 M=BCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 969 more memories to test.";echo "tr 51 M=PORT_COS_MAP IS=min IE=4 ITERations=1";tr 51 M=PORT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 968 more memories to test.";echo "tr 51 M=COS_MAP_SEL IS=min IE=4 ITERations=1";tr 51 M=COS_MAP_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 967 more memories to test.";echo "tr 51 M=CPU_COS_MAP IS=min IE=4 ITERations=1";tr 51 M=CPU_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 966 more memories to test.";echo "tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1";tr 51 M=CPU_COS_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 965 more memories to test.";echo "tr 51 M=CPU_COS_MAP_ONLY IS=min IE=4

```
ITERations=1";tr 51 M=CPU_COS_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 964 more memories to test.";echo "tr 51 M=CPU_PBM IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM IS=min IE=0 ITERations=1;echo "done";
#echo "there are 963 more memories to test.";echo "tr 51 M=CPU_PBM_2 IS=min IE=0 ITERations=1";tr 51
M=CPU_PBM_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 962 more memories to test.";echo "tr 51 M=CPU_TS_MAP IS=min IE=4 ITERations=1";tr 51
M=CPU_TS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 961 more memories to test.";echo "tr 51 M=DEST_TRUNK_BITMAP IS=min IE=4
ITERations=1";tr 51 M=DEST_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 960 more memories to test.";echo "tr 51 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=4 ITERations=1";tr 51 M=DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4
ITERations=1;echo "done";
echo "there are 959 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET IS=min IE=4 ITERations=1";tr
51 M=DLB_HGT_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 958 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min
IE=4 ITERations=1";tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 957 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X
IS=min IE=4 ITERations=1";tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X IS=min IE=4
ITERations=1;echo "done";
echo "there are 956 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y
IS=min IE=4 ITERations=1";tr 51 M=DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y IS=min IE=4
ITERations=1;echo "done";
echo "there are 955 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_X IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_FLOWSET_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 954 more memories to test.";echo "tr 51 M=DLB_HGT_FLOWSET_Y IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_FLOWSET_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 953 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_CONTROL IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_GROUP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 952 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_GROUP_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 951 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_STATS IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_GROUP_STATS IS=min IE=4 ITERations=1;echo "done";
echo "there are 950 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_STATS_X IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_GROUP_STATS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 949 more memories to test.";echo "tr 51 M=DLB_HGT_GROUP_STATS_Y IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_GROUP_STATS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 948 more memories to test.";echo "tr 51 M=DLB_HGT_HIST_LOAD IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_HIST_LOAD IS=min IE=4 ITERations=1;echo "done";
echo "there are 947 more memories to test.";echo "tr 51 M=DLB_HGT_INST_LOAD IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_INST_LOAD IS=min IE=4 ITERations=1;echo "done";
echo "there are 946 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_MEMBER_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 945 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_STATUS IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_MEMBER_STATUS IS=min IE=4 ITERations=1;echo "done";
#echo "there are 944 more memories to test.";echo "tr 51 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0
ITERations=1";tr 51 M=DLB_HGT_MEMBER_SW_STATE IS=min IE=0 ITERations=1;echo "done";
echo "there are 943 more memories to test.";echo "tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=4
```

```
ITERations=1";tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 942 more memories to test.";echo "tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 941 more memories to test.";echo "tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_OPTIMAL_CANDIDATE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 940 more memories to test.";echo "tr 51 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min
IE=4 ITERations=1";tr 51 M=DLB_HGT_PLA_QUANTIZE_THRESHOLD IS=min IE=4 ITERations=1;echo
"done";
echo "there are 939 more memories to test.";echo "tr 51 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_PORT_MEMBER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 938 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_CONTROL IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_QUALITY_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 937 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_MAPPING IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_QUALITY_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 936 more memories to test.";echo "tr 51 M=DLB_HGT_QUALITY_RESULT IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_QUALITY_RESULT IS=min IE=4 ITERations=1;echo "done";
echo "there are 935 more memories to test.";echo "tr 51 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=4
ITERations=1";tr 51 M=DLB_HGT_RR_SELECTION_POINTER IS=min IE=4 ITERations=1;echo "done";
echo "there are 934 more memories to test.";echo "tr 51 M=DSCP_TABLE IS=min IE=4 ITERations=1";tr 51
M=DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 933 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS IS=min IE=4 ITERations=1";tr 51
M=E2E_HOL_STATUS IS=min IE=4 ITERations=1;echo "done";
echo "there are 932 more memories to test.";echo "tr 51 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1";tr
51 M=E2E_HOL_STATUS_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 931 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE IS=min IE=4
ITERations=1";tr 51 M=EFP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 930 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_X IS=min IE=4
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 929 more memories to test.";echo "tr 51 M=EFP_COUNTER_TABLE_Y IS=min IE=4
ITERations=1";tr 51 M=EFP_COUNTER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 928 more memories to test.";echo "tr 51 M=EFP_METER_TABLE IS=min IE=4 ITERations=1";tr
51 M=EFP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 927 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_X IS=min IE=4
ITERations=1";tr 51 M=EFP_METER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 926 more memories to test.";echo "tr 51 M=EFP_METER_TABLE_Y IS=min IE=4
ITERations=1";tr 51 M=EFP_METER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 925 more memories to test.";echo "tr 51 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=EFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 924 more memories to test.";echo "tr 51 M=EFP_TCAM IS=min IE=4 ITERations=1";tr 51
M=EFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 923 more memories to test.";echo "tr 51 M=EGR_1588_SA IS=min IE=4 ITERations=1";tr 51
M=EGR_1588_SA IS=min IE=4 ITERations=1;echo "done";
echo "there are 922 more memories to test.";echo "tr 51 M=EGR_COUNTER_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_COUNTER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 921 more memories to test.";echo "tr 51 M=EGR_DGPP_TO_NHI IS=min IE=4 ITERations=1";tr
51 M=EGR_DGPP_TO_NHI IS=min IE=4 ITERations=1;echo "done";
echo "there are 920 more memories to test.";echo "tr 51 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=4
ITERations=1";tr 51 M=EGR_DGPP_TO_NHI_MODBASE IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 919 more memories to test.";echo "tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_DSCP_ECN_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 918 more memories to test.";echo "tr 51 M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1";tr 51
M=EGR_DSCP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 917 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=4
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE IS=min IE=4 ITERations=1;echo "done";
echo "there are 916 more memories to test.";echo "tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_DVP_ATTRIBUTE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 915 more memories to test.";echo "tr 51 M=EGR_EDB_XMIT_CTRL IS=min IE=4
ITERations=1";tr 51 M=EGR_EDB_XMIT_CTRL IS=min IE=4 ITERations=1;echo "done";
echo "there are 914 more memories to test.";echo "tr 51 M=EGR_EM_MTP_INDEX IS=min IE=4
ITERations=1";tr 51 M=EGR_EM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 913 more memories to test.";echo "tr 51 M=EGR_ENABLE IS=min IE=4 ITERations=1";tr 51
M=EGR_ENABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 912 more memories to test.";echo "tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_ETAG_PCP_MAPPING IS=min IE=4 ITERations=1;echo "done";
#echo "there are 911 more memories to test.";echo "tr 51 M=EGR_FCOE_CONTROL_1 IS=min IE=0
ITERations=1";tr 51 M=EGR_FCOE_CONTROL_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 910 more memories to test.";echo "tr 51 M=EGR_FC_HEADER_TYPE IS=min IE=4
ITERations=1";tr 51 M=EGR_FC_HEADER_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 909 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 908 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 907 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 906 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 905 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 904 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 903 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 902 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 901 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 900 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 899 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=4 ITERations=1;echo
```

"done";
echo "there are 898 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 897 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 896 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 895 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 894 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 893 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 892 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 891 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 890 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 889 more memories to test.";echo "tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1";tr 51 M=EGR_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 888 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4 ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 887 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=4 ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 886 more memories to test.";echo "tr 51 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=4 ITERations=1";tr 51 M=EGR_FRAGMENT_ID_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 885 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=4 ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES IS=min IE=4 ITERations=1;echo "done";
echo "there are 884 more memories to test.";echo "tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4 ITERations=1";tr 51 M=EGR_GPP_ATTRIBUTES_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 883 more memories to test.";echo "tr 51 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1";tr 51 M=EGR_IM_MTP_INDEX IS=min IE=4 ITERations=1;echo "done";
echo "there are 882 more memories to test.";echo "tr 51 M=EGR_ING_PORT IS=min IE=4 ITERations=1";tr 51 M=EGR_ING_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 881 more memories to test.";echo "tr 51 M=EGR_IPMC IS=min IE=4 ITERations=1";tr 51 M=EGR_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 880 more memories to test.";echo "tr 51 M=EGR_IPMC_CFG2 IS=min IE=4 ITERations=1";tr 51 M=EGR_IPMC_CFG2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 879 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1";tr 51 M=EGR_IP_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 878 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4 ITERations=1";tr 51 M=EGR_IP_TUNNEL_IPV6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 877 more memories to test.";echo "tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=4 ITERations=1";tr 51 M=EGR_IP_TUNNEL_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 876 more memories to test.";echo "tr 51 M=EGR_L3_INTF IS=min IE=4 ITERations=1";tr 51 M=EGR_L3_INTF IS=min IE=4 ITERations=1;echo "done";

```
echo "there are 875 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
51 M=EGR_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 874 more memories to test.";echo "tr 51 M=EGR_L3_NEXT_HOP_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_L3_NEXT_HOP_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 873 more memories to test.";echo "tr 51 M=EGR_LPORT_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_LPORT_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 872 more memories to test.";echo "tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_MACDA_OUI_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 871 more memories to test.";echo "tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_MAC_DA_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 870 more memories to test.";echo "tr 51 M=EGR_MAP_MH IS=min IE=4 ITERations=1";tr 51
M=EGR_MAP_MH IS=min IE=4 ITERations=1;echo "done";
echo "there are 869 more memories to test.";echo "tr 51 M=EGR_MASK IS=min IE=4 ITERations=1";tr 51
M=EGR_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 868 more memories to test.";echo "tr 51 M=EGR_MASK_MODBASE IS=min IE=4
ITERations=1";tr 51 M=EGR_MASK_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 867 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 866 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 865 more memories to test.";echo "tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_MIRROR_ENCAP_DATA_2 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 864 more memories to test.";echo "tr 51 M=EGR_MMU_CREDIT_LIMIT IS=min IE=4
ITERations=1";tr 51 M=EGR_MMU_CREDIT_LIMIT IS=min IE=4 ITERations=1;echo "done";
#echo "there are 863 more memories to test.";echo "tr 51 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=4
ITERations=1";tr 51 M=EGR_MMU_CREDIT_LIMIT_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 862 more memories to test.";echo "tr 51 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=4
ITERations=1";tr 51 M=EGR_MMU_CREDIT_LIMIT_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 861 more memories to test.";echo "tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=EGR_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 860 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 859 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_MAPPING_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 858 more memories to test.";echo "tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_EXP_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 857 more memories to test.";echo "tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_MPLS_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 856 more memories to test.";echo "tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
IS=min IE=4 ITERations=1";tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE IS=min IE=4
ITERations=1;echo "done";
echo "there are 855 more memories to test.";echo "tr 51 M=EGR_MTU IS=min IE=4 ITERations=1";tr 51
M=EGR_MTU IS=min IE=4 ITERations=1;echo "done";
echo "there are 854 more memories to test.";echo "tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=4
ITERations=1";tr 51 M=EGR_NAT_PACKET_EDIT_INFO IS=min IE=4 ITERations=1;echo "done";
#echo "there are 853 more memories to test.";echo "tr 51 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1";tr
51 M=EGR_OLP_CONFIG IS=min IE=0 ITERations=1;echo "done";
echo "there are 852 more memories to test.";echo "tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=4
```

```
ITERations=1";tr 51 M=EGR_OLP_DGPP_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 851 more memories to test.";echo "tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4
ITERations=1";tr 51 M=EGR_OLP_HEADER_TYPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 850 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=4
ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 849 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=4
ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 848 more memories to test.";echo "tr 51 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=4
ITERations=1";tr 51 M=EGR_PERQ_XMT_COUNTERS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 847 more memories to test.";echo "tr 51 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min
IE=4 ITERations=1";tr 51 M=EGR_PER_PORT_BUFFER_OVERFLOW IS=min IE=4 ITERations=1;echo
"done";
echo "there are 846 more memories to test.";echo "tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min
IE=4 ITERations=1";tr 51 M=EGR_PER_PORT_BUFFER_SFT_RESET IS=min IE=4 ITERations=1;echo "done";
echo "there are 845 more memories to test.";echo "tr 51 M=EGR_PFC_CONTROL IS=min IE=4 ITERations=1";tr
51 M=EGR_PFC_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 844 more memories to test.";echo "tr 51 M=EGR_PORT IS=min IE=4 ITERations=1";tr 51
M=EGR_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 843 more memories to test.";echo "tr 51 M=EGR_PORT_1 IS=min IE=4 ITERations=1";tr 51
M=EGR_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 842 more memories to test.";echo "tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=4
ITERations=1";tr 51 M=EGR_PORT_CREDIT_RESET IS=min IE=4 ITERations=1;echo "done";
echo "there are 841 more memories to test.";echo "tr 51 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
51 M=EGR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 840 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=4
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 839 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_X IS=min IE=4
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 838 more memories to test.";echo "tr 51 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=4
ITERations=1";tr 51 M=EGR_PW_INIT_COUNTERS_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 837 more memories to test.";echo "tr 51 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0
ITERations=1";tr 51 M=EGR_QCN_CNM_CONTROL_TABLE IS=min IE=0 ITERations=1;echo "done";
#echo "there are 836 more memories to test.";echo "tr 51 M=EGR_SER_FIFO IS=min IE=4 ITERations=1";tr 51
M=EGR_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 835 more memories to test.";echo "tr 51 M=EGR_SHAPING_CONTROL IS=min IE=4
ITERations=1";tr 51 M=EGR_SHAPING_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 834 more memories to test.";echo "tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_SUBPORT_TAG_DOT1P_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 833 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 832 more memories to test.";echo "tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0
ITERations=1";tr 51 M=EGR_TRILL_PARSE_CONTROL_2 IS=min IE=0 ITERations=1;echo "done";
echo "there are 831 more memories to test.";echo "tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=3
ITERations=1";tr 51 M=EGR_TRILL_RBRIDGE_NICKNAMES IS=min IE=3 ITERations=1;echo "done";
echo "there are 830 more memories to test.";echo "tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_TRILL_TREE_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 829 more memories to test.";echo "tr 51 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=EGR_TX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 828 more memories to test.";echo "tr 51 M=EGR_VFI IS=min IE=4 ITERations=1";tr 51
M=EGR_VFI IS=min IE=4 ITERations=1;echo "done";
echo "there are 827 more memories to test.";echo "tr 51 M=EGR_VFT_FIELDS_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_VFT_FIELDS_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 826 more memories to test.";echo "tr 51 M=EGR_VFT_PRI_MAP IS=min IE=4 ITERations=1";tr
51 M=EGR_VFT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 825 more memories to test.";echo "tr 51 M=EGR_VLAN IS=min IE=4 ITERations=1";tr 51
M=EGR_VLAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 824 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_1 IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 823 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_2 IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 822 more memories to test.";echo "tr 51 M=EGR_VLAN_CONTROL_3 IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_CONTROL_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 821 more memories to test.";echo "tr 51 M=EGR_VLAN_STG IS=min IE=4 ITERations=1";tr 51
M=EGR_VLAN_STG IS=min IE=4 ITERations=1;echo "done";
echo "there are 820 more memories to test.";echo "tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 819 more memories to test.";echo "tr 51 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_VFI_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 818 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1";tr
51 M=EGR_VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 817 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_XLATE_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 816 more memories to test.";echo "tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=4
ITERations=1";tr 51 M=EGR_VLAN_XLATE_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 815 more memories to test.";echo "tr 51 M=EGR_VPLAG_GROUP IS=min IE=4 ITERations=1";tr
51 M=EGR_VPLAG_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 814 more memories to test.";echo "tr 51 M=EGR_VPLAG_MEMBER IS=min IE=4
ITERations=1";tr 51 M=EGR_VPLAG_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 813 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=4
ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 812 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=3 ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=3 ITERations=1;echo
"done";
echo "there are 811 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=3 ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=3 ITERations=1;echo
"done";
echo "there are 810 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=4 ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 809 more memories to test.";echo "tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=4 ITERations=1";tr 51 M=EGR_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 808 more memories to test.";echo "tr 51 M=EGR_VSAN_INTPRI_MAP IS=min IE=4
ITERations=1";tr 51 M=EGR_VSAN_INTPRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 807 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1";tr
51 M=EMIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 806 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL1 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 805 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL2 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 804 more memories to test.";echo "tr 51 M=EMIRROR_CONTROL3 IS=min IE=4
ITERations=1";tr 51 M=EMIRROR_CONTROL3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 803 more memories to test.";echo "tr 51 M=EM_MTP_INDEX IS=min IE=3 ITERations=1";tr 51
M=EM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 802 more memories to test.";echo "tr 51 M=ENDPOINT_COS_MAP IS=min IE=4
ITERations=1";tr 51 M=ENDPOINT_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 801 more memories to test.";echo "tr 51 M=ENDPOINT_QUEUE_MAP IS=min IE=4
ITERations=1";tr 51 M=ENDPOINT_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 800 more memories to test.";echo "tr 51 M=EPC_LINK_BMAP IS=min IE=0 ITERations=1";tr 51
M=EPC_LINK_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 799 more memories to test.";echo "tr 51 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=0
ITERations=1";tr 51 M=ESBS_PORT_TO_PIPE_MAPPING IS=min IE=0 ITERations=1;echo "done";
echo "there are 798 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 797 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 796 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 795 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 794 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 793 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 792 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 791 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 790 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 789 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 788 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 787 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 786 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L0_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L0_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 785 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 784 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
```

```
"done";
echo "there are 783 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 782 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 781 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 780 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 779 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 778 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 777 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 776 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 775 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 774 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 773 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L1_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 772 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 771 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 770 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 769 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 768 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 767 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 766 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 765 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_L2_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 764 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_LLS_PORT_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 763 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_PORT_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 762 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_PORT_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 761 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 760 more memories to test.";echo "tr 51 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE0_LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 759 more memories to test.";echo "tr 51 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_TDM_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 758 more memories to test.";echo "tr 51 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE0_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 757 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 756 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 755 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 754 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 753 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 752 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 751 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 750 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 749 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 748 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 747 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 746 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 745 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L0_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L0_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 744 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 743 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 742 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 741 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 740 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 739 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 738 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 737 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 736 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 735 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 734 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 733 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 732 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L1_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L1_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 731 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_CHILD_STATE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 730 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG IS=min IE=4 ITERations=1;echo
"done";
echo "there are 729 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING
IS=min IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING IS=min IE=4
ITERations=1;echo "done";
echo "there are 728 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_ERROR IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_ERROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 727 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_MIN_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 726 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_PARENT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_PARENT IS=min IE=4 ITERations=1;echo "done";
echo "there are 725 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_WERR_NEXT IS=min IE=4 ITERations=1;echo "done";
echo "there are 724 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_L2_XOFF IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_L2_XOFF IS=min IE=4 ITERations=1;echo "done";
echo "there are 723 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_LLS_PORT_HEADS_TAILS IS=min IE=4 ITERations=1;echo "done";
echo "there are 722 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_PORT_MEMA_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 721 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_PORT_MEMB_CONFIG IS=min IE=4 ITERations=1;echo "done";
echo "there are 720 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_PORT_PARENT_STATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 719 more memories to test.";echo "tr 51 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min
IE=4 ITERations=1";tr 51 M=ES_PIPE1_LLS_PORT_WERR_MAX_SC IS=min IE=4 ITERations=1;echo "done";
echo "there are 718 more memories to test.";echo "tr 51 M=ES_PIPE1_TDM_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_TDM_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 717 more memories to test.";echo "tr 51 M=ES_PIPE1_TDM_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ES_PIPE1_TDM_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 716 more memories to test.";echo "tr 51 M=FCOE_HOP_COUNT_FN IS=min IE=4
ITERations=1";tr 51 M=FCOE_HOP_COUNT_FN IS=min IE=4 ITERations=1;echo "done";
echo "there are 715 more memories to test.";echo "tr 51 M=FC_MAP_PROFILE IS=min IE=4 ITERations=1";tr 51
M=FC_MAP_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 714 more memories to test.";echo "tr 51 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1";tr
51 M=FP_COUNTER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 713 more memories to test.";echo "tr 51 M=FP_COUNTER_TABLE_X IS=min IE=4
ITERations=1";tr 51 M=FP_COUNTER_TABLE_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 712 more memories to test.";echo "tr 51 M=FP_COUNTER_TABLE_Y IS=min IE=4
ITERations=1";tr 51 M=FP_COUNTER_TABLE_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 711 more memories to test.";echo "tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=4
ITERations=1";tr 51 M=FP_GLOBAL_MASK_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 710 more memories to test.";echo "tr 51 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=4
ITERations=1";tr 51 M=FP_GLOBAL_MASK_TCAM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 709 more memories to test.";echo "tr 51 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=4
ITERations=1";tr 51 M=FP_GLOBAL_MASK_TCAM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 708 more memories to test.";echo "tr 51 M=FP_GM_FIELDS IS=min IE=4 ITERations=1";tr 51
M=FP_GM_FIELDS IS=min IE=4 ITERations=1;echo "done";
echo "there are 707 more memories to test.";echo "tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 51 M=FP_HG_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 706 more memories to test.";echo "tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=4
ITERations=1";tr 51 M=FP_I2E_CLASSID_SELECT IS=min IE=4 ITERations=1;echo "done";
echo "there are 705 more memories to test.";echo "tr 51 M=FP_METER_CONTROL IS=min IE=4
ITERations=1";tr 51 M=FP_METER_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 704 more memories to test.";echo "tr 51 M=FP_METER_TABLE IS=min IE=4 ITERations=1";tr 51
M=FP_METER_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 703 more memories to test.";echo "tr 51 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=FP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 702 more memories to test.";echo "tr 51 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1";tr
51 M=FP_PORT_FIELD_SEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 701 more memories to test.";echo "tr 51 M=FP_PORT_METER_MAP IS=min IE=4
ITERations=1";tr 51 M=FP_PORT_METER_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 700 more memories to test.";echo "tr 51 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1";tr
51 M=FP_RANGE_CHECK IS=min IE=4 ITERations=1;echo "done";
#echo "there are 699 more memories to test.";echo "tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0
ITERations=1";tr 51 M=FP_SLICE_KEY_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 698 more memories to test.";echo "tr 51 M=FP_SLICE_MAP IS=min IE=0 ITERations=1";tr 51
M=FP_SLICE_MAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 697 more memories to test.";echo "tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=4
ITERations=1";tr 51 M=FP_STORM_CONTROL_METERS IS=min IE=4 ITERations=1;echo "done";
echo "there are 696 more memories to test.";echo "tr 51 M=FP_STORM_CONTROL_METERS_X IS=min IE=4
ITERations=1";tr 51 M=FP_STORM_CONTROL_METERS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 695 more memories to test.";echo "tr 51 M=FP_STORM_CONTROL_METERS_Y IS=min IE=4
ITERations=1";tr 51 M=FP_STORM_CONTROL_METERS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 694 more memories to test.";echo "tr 51 M=FP_TCAM IS=min IE=4 ITERations=1";tr 51
M=FP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 693 more memories to test.";echo "tr 51 M=GTP_PORT_TABLE IS=min IE=3 ITERations=1";tr 51
M=GTP_PORT_TABLE IS=min IE=3 ITERations=1;echo "done";
```

```
echo "there are 692 more memories to test.";echo "tr 51 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1";tr
51 M=HG_TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 691 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 690 more memories to test.";echo "tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=4
ITERations=1";tr 51 M=HG_TRUNK_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 689 more memories to test.";echo "tr 51 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1";tr
51 M=HG_TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 688 more memories to test.";echo "tr 51 M=HG_TRUNK_MEMBER IS=min IE=4
ITERations=1";tr 51 M=HG_TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
#echo "there are 687 more memories to test.";echo "tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0
ITERations=1";tr 51 M=HIGIG_TRUNK_CONTROL IS=min IE=0 ITERations=1;echo "done";
echo "there are 686 more memories to test.";echo "tr 51 M=IARB_ING_PORT_TABLE IS=min IE=4
ITERations=1";tr 51 M=IARB_ING_PORT_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 685 more memories to test.";echo "tr 51 M=IARB_MAIN_TDM IS=min IE=4 ITERations=1";tr 51
M=IARB_MAIN_TDM IS=min IE=4 ITERations=1;echo "done";
echo "there are 684 more memories to test.";echo "tr 51 M=IARB_MAIN_TDM_X IS=min IE=4 ITERations=1";tr
51 M=IARB_MAIN_TDM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 683 more memories to test.";echo "tr 51 M=IARB_MAIN_TDM_Y IS=min IE=4 ITERations=1";tr
51 M=IARB_MAIN_TDM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 682 more memories to test.";echo "tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=4
ITERations=1";tr 51 M=ICONTROL_OPCODE_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 681 more memories to test.";echo "tr 51 M=IFP_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=IFP_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 680 more memories to test.";echo "tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=IFP_REDIRECTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 679 more memories to test.";echo "tr 51 M=IMIRROR_BITMAP IS=min IE=4 ITERations=1";tr 51
M=IMIRROR_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 678 more memories to test.";echo "tr 51 M=IM_MTP_INDEX IS=min IE=3 ITERations=1";tr 51
M=IM_MTP_INDEX IS=min IE=3 ITERations=1;echo "done";
echo "there are 677 more memories to test.";echo "tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=4
ITERations=1";tr 51 M=ING_1588_INGRESS_CTRL IS=min IE=4 ITERations=1;echo "done";
echo "there are 676 more memories to test.";echo "tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=4
ITERations=1";tr 51 M=ING_ACTIVE_L3_IIF_PROFILE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 675 more memories to test.";echo "tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=0
ITERations=1";tr 51 M=ING_DEST_PORT_ENABLE IS=min IE=0 ITERations=1;echo "done";
echo "there are 674 more memories to test.";echo "tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=4
ITERations=1";tr 51 M=ING_DNAT_ADDRESS_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 673 more memories to test.";echo "tr 51 M=ING_DVP_2_TABLE IS=min IE=4 ITERations=1";tr
51 M=ING_DVP_2_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 672 more memories to test.";echo "tr 51 M=ING_DVP_TABLE IS=min IE=4 ITERations=1";tr 51
M=ING_DVP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 671 more memories to test.";echo "tr 51 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1";tr
51 M=ING_EGRMSKBMAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 670 more memories to test.";echo "tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0
ITERations=1";tr 51 M=ING_EN_EFILTER_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 669 more memories to test.";echo "tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=4
ITERations=1";tr 51 M=ING_ETAG_PCP_MAPPING IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 668 more memories to test.";echo "tr 51 M=ING_FC_HEADER_TYPE IS=min IE=4
ITERations=1";tr 51 M=ING_FC_HEADER_TYPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 667 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 666 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 665 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_0_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 664 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 663 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 662 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_1_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 661 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 660 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 659 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_2_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 658 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 657 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 656 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_3_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 655 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 654 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 653 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_4_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 652 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 651 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 650 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min
```

```
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_5_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 649 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 648 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 647 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_6_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 646 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 645 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_X IS=min IE=4 ITERations=1;echo
"done";
echo "there are 644 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min
IE=4 ITERations=1";tr 51 M=ING_FLEX_CTR_COUNTER_TABLE_7_Y IS=min IE=4 ITERations=1;echo
"done";
echo "there are 643 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 642 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 641 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 640 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 639 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 638 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 637 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 636 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_OFFSET_TABLE_7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 635 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 634 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PKT_RES_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 633 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 632 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 631 more memories to test.";echo "tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4
ITERations=1";tr 51 M=ING_FLEX_CTR_TOS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 630 more memories to test.";echo "tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min
IE=4 ITERations=1";tr 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 629 more memories to test.";echo "tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min
```

```
IE=0 ITERations=1";tr 51 M=ING_IPV6_MC_RESERVED_ADDRESS IS=min IE=0 ITERations=1;echo "done";
echo "there are 628 more memories to test.";echo "tr 51 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1";tr
51 M=ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 627 more memories to test.";echo "tr 51 M=ING_MOD_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=ING_MOD_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 626 more memories to test.";echo "tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=4
ITERations=1";tr 51 M=ING_MPLS_EXP_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 625 more memories to test.";echo "tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min
IE=4 ITERations=1";tr 51 M=ING_OUTER_DOT1P_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 624 more memories to test.";echo "tr 51
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=4 ITERations=1";tr 51
M=ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 623 more memories to test.";echo "tr 51 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1";tr
51 M=ING_PRI_CNG_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 622 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=4
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM IS=min IE=4 ITERations=1;echo "done";
echo "there are 621 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=4
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 620 more memories to test.";echo "tr 51 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=4
ITERations=1";tr 51 M=ING_PW_TERM_SEQ_NUM_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 619 more memories to test.";echo "tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=ING_ROUTED_INT_PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
#echo "there are 618 more memories to test.";echo "tr 51 M=ING_SER_FIFO IS=min IE=4 ITERations=1";tr 51
M=ING_SER_FIFO IS=min IE=4 ITERations=1;echo "done";
#echo "there are 617 more memories to test.";echo "tr 51 M=ING_SER_FIFO_X IS=min IE=4 ITERations=1";tr 51
M=ING_SER_FIFO_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 616 more memories to test.";echo "tr 51 M=ING_SER_FIFO_Y IS=min IE=4 ITERations=1";tr 51
M=ING_SER_FIFO_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 615 more memories to test.";echo "tr 51 M=ING_SNAT IS=min IE=4 ITERations=1";tr 51
M=ING_SNAT IS=min IE=4 ITERations=1;echo "done";
echo "there are 614 more memories to test.";echo "tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=ING_SNAT_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 613 more memories to test.";echo "tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=4
ITERations=1";tr 51 M=ING_SNAT_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 612 more memories to test.";echo "tr 51 M=ING_SNAT_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 51 M=ING_SNAT_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 611 more memories to test.";echo "tr 51 M=ING_SNAT_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 51 M=ING_SNAT_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 610 more memories to test.";echo "tr 51 M=ING_SNAT_ONLY IS=min IE=4 ITERations=1";tr 51
M=ING_SNAT_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 609 more memories to test.";echo "tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=0
ITERations=1";tr 51 M=ING_TRILL_PARSE_CONTROL IS=min IE=0 ITERations=1;echo "done";
#echo "there are 608 more memories to test.";echo "tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
IS=min IE=0 ITERations=1";tr 51 M=ING_TRILL_PAYLOAD_PARSE_CONTROL IS=min IE=0
ITERations=1;echo "done";
echo "there are 607 more memories to test.";echo "tr 51 M=ING_UNTAGGED_PHB IS=min IE=4
```

```
ITERations=1";tr 51 M=ING_UNTAGGED_PHB IS=min IE=4 ITERations=1;echo "done";
echo "there are 606 more memories to test.";echo "tr 51 M=ING_VFT_PRI_MAP IS=min IE=4 ITERations=1";tr
51 M=ING_VFT_PRI_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 605 more memories to test.";echo "tr 51 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1";tr
51 M=ING_VLAN_RANGE IS=min IE=4 ITERations=1;echo "done";
echo "there are 604 more memories to test.";echo "tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4
ITERations=1";tr 51 M=ING_VLAN_TAG_ACTION_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 603 more memories to test.";echo "tr 51 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=4
ITERations=1";tr 51 M=ING_VLAN_VFI_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 602 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=4
ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 601 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min
IE=3 ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_A IS=min IE=3 ITERations=1;echo
"done";
echo "there are 600 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min
IE=3 ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_ACTION_B IS=min IE=3 ITERations=1;echo
"done";
echo "there are 599 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min
IE=4 ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 598 more memories to test.";echo "tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min
IE=4 ITERations=1";tr 51 M=ING_VP_VLAN_MEMBERSHIP_REMAP_B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 597 more memories to test.";echo "tr 51 M=ING_VSAN IS=min IE=4 ITERations=1";tr 51
M=ING_VSAN IS=min IE=4 ITERations=1;echo "done";
echo "there are 596 more memories to test.";echo "tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4
ITERations=1";tr 51 M=INITIAL_ING_L3_NEXT_HOP IS=min IE=4 ITERations=1;echo "done";
echo "there are 595 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1";tr 51
M=INITIAL_L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 594 more memories to test.";echo "tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=4
ITERations=1";tr 51 M=INITIAL_L3_ECMP_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 593 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 592 more memories to test.";echo "tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4
ITERations=1";tr 51 M=INITIAL_PROT_NHI_TABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 591 more memories to test.";echo "tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min
IE=3 ITERations=1";tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE IS=min IE=3 ITERations=1;echo
"done";
echo "there are 590 more memories to test.";echo "tr 51 M=IP_MULTICAST_TCAM IS=min IE=4
ITERations=1";tr 51 M=IP_MULTICAST_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 589 more memories to test.";echo "tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min
IE=4 ITERations=1";tr 51 M=IP_OPTION_CONTROL_PROFILE_TABLE IS=min IE=4 ITERations=1;echo
"done";
#echo "there are 588 more memories to test.";echo "tr 51 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=0
ITERations=1";tr 51 M=ISBS_PORT_TO_PIPE_MAPPING IS=min IE=0 ITERations=1;echo "done";
echo "there are 587 more memories to test.";echo "tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=KNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 586 more memories to test.";echo "tr 51 M=L2MC IS=min IE=4 ITERations=1";tr 51 M=L2MC
```

```
IS=min IE=4 ITERations=1;echo "done";
#echo "there are 585 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 584 more memories to test.";echo "tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_MATCH_MASK IS=min IE=0 ITERations=1;echo "done";
#echo "there are 583 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_DATA IS=min IE=0 ITERations=1;echo "done";
#echo "there are 582 more memories to test.";echo "tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0
ITERations=1";tr 51 M=L2_BULK_REPLACE_MASK IS=min IE=0 ITERations=1;echo "done";
echo "there are 581 more memories to test.";echo "tr 51 M=L2_ENDPOINT_ID IS=min IE=4 ITERations=1";tr 51
M=L2_ENDPOINT_ID IS=min IE=4 ITERations=1;echo "done";
echo "there are 580 more memories to test.";echo "tr 51 M=L2X IS=min IE=4 ITERations=1";tr 51 M=L2X IS=min
IE=4 ITERations=1;echo "done";
echo "there are 579 more memories to test.";echo "tr 51 M=L2_ENTRY_LP IS=min IE=4 ITERations=1";tr 51
M=L2_ENTRY_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 578 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 577 more memories to test.";echo "tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=4
ITERations=1";tr 51 M=L2_ENTRY_ONLY_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 576 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_HITDA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 575 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY_X IS=min IE=4 ITERations=1";tr
51 M=L2_HITDA_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 574 more memories to test.";echo "tr 51 M=L2_HITDA_ONLY_Y IS=min IE=4 ITERations=1";tr
51 M=L2_HITDA_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 573 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY IS=min IE=4 ITERations=1";tr 51
M=L2_HITSA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 572 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY_X IS=min IE=4 ITERations=1";tr
51 M=L2_HITSA_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 571 more memories to test.";echo "tr 51 M=L2_HITSA_ONLY_Y IS=min IE=4 ITERations=1";tr
51 M=L2_HITSA_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 570 more memories to test.";echo "tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=0
ITERations=1";tr 51 M=L2_LEARN_INSERT_FAILURE IS=min IE=0 ITERations=1;echo "done";
echo "there are 569 more memories to test.";echo "tr 51 M=L2_MOD_FIFO IS=min IE=4 ITERations=1";tr 51
M=L2_MOD_FIFO IS=min IE=4 ITERations=1;echo "done";
echo "there are 568 more memories to test.";echo "tr 51 M=L2_USER_ENTRY IS=min IE=4 ITERations=1";tr 51
M=L2_USER_ENTRY IS=min IE=4 ITERations=1;echo "done";
echo "there are 567 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L2_USER_ENTRY_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 566 more memories to test.";echo "tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 51 M=L2_USER_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 565 more memories to test.";echo "tr 51 M=L3_DEFIP IS=min IE=4 ITERations=1";tr 51
M=L3_DEFIP IS=min IE=4 ITERations=1;echo "done";
echo "there are 564 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_ECC IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_ECC IS=min IE=4 ITERations=1;echo "done";
#echo "there are 563 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 562 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=4
```

```
ITERations=1";tr 51 M=L3_DEFIP_ALPM_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
#echo "there are 561 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
#echo "there are 560 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 559 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV4_1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 558 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_128 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 557 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 556 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_IPV6_64_1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 555 more memories to test.";echo "tr 51 M=L3_DEFIP_ALPM_RAW IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_ALPM_RAW IS=min IE=4 ITERations=1;echo "done";
echo "there are 554 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_AUX_HITBIT_UPDATE IS=min IE=4 ITERations=1;echo "done";
#echo "there are 553 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0
ITERations=1";tr 51 M=L3_DEFIP_AUX_SCRATCH IS=min IE=0 ITERations=1;echo "done";
echo "there are 552 more memories to test.";echo "tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_AUX_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 551 more memories to test.";echo "tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 550 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1";tr
51 M=L3_DEFIP_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 549 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 548 more memories to test.";echo "tr 51 M=L3_DEFIP_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 547 more memories to test.";echo "tr 51 M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1";tr 51
M=L3_DEFIP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 546 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1";tr
51 M=L3_DEFIP_PAIR_128 IS=min IE=4 ITERations=1;echo "done";
echo "there are 545 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 544 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 543 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 542 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 541 more memories to test.";echo "tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_DEFIP_PAIR_128_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 540 more memories to test.";echo "tr 51 M=L3_ECMP IS=min IE=4 ITERations=1";tr 51
M=L3_ECMP IS=min IE=4 ITERations=1;echo "done";
echo "there are 539 more memories to test.";echo "tr 51 M=L3_ECMP_COUNT IS=min IE=4 ITERations=1";tr 51
M=L3_ECMP_COUNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 538 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=4
```

```
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 537 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY_X IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 536 more memories to test.";echo "tr 51 M=L3_ENTRY_HIT_ONLY_Y IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_HIT_ONLY_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 535 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV4_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 534 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV4_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 533 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV6_MULTICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 532 more memories to test.";echo "tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_IPV6_UNICAST IS=min IE=4 ITERations=1;echo "done";
echo "there are 531 more memories to test.";echo "tr 51 M=L3_ENTRY_LP IS=min IE=4 ITERations=1";tr 51
M=L3_ENTRY_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 530 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1";tr 51
M=L3_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 529 more memories to test.";echo "tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=4
ITERations=1";tr 51 M=L3_ENTRY_ONLY_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 528 more memories to test.";echo "tr 51 M=L3_IIF IS=min IE=4 ITERations=1";tr 51 M=L3_IIF
IS=min IE=4 ITERations=1;echo "done";
echo "there are 527 more memories to test.";echo "tr 51 M=L3_IIF_PROFILE IS=min IE=4 ITERations=1";tr 51
M=L3_IIF_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 526 more memories to test.";echo "tr 51 M=L3_IPMC IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC IS=min IE=4 ITERations=1;echo "done";
echo "there are 525 more memories to test.";echo "tr 51 M=L3_IPMC_1 IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 524 more memories to test.";echo "tr 51 M=L3_IPMC_REMAP IS=min IE=4 ITERations=1";tr 51
M=L3_IPMC_REMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 523 more memories to test.";echo "tr 51 M=L3_MTU_VALUES IS=min IE=4 ITERations=1";tr 51
M=L3_MTU_VALUES IS=min IE=4 ITERations=1;echo "done";
echo "there are 522 more memories to test.";echo "tr 51 M=L3_TUNNEL IS=min IE=4 ITERations=1";tr 51
M=L3_TUNNEL IS=min IE=4 ITERations=1;echo "done";
echo "there are 521 more memories to test.";echo "tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=L3_TUNNEL_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 520 more memories to test.";echo "tr 51 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1";tr
51 M=L3_TUNNEL_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 519 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min
IE=4 ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 518 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min
IE=4 ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_2 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 517 more memories to test.";echo "tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
IS=min IE=4 ITERations=1";tr 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR IS=min IE=4
ITERations=1;echo "done";
echo "there are 516 more memories to test.";echo "tr 51 M=LPORT_TAB IS=min IE=4 ITERations=1";tr 51
M=LPORT_TAB IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 515 more memories to test.";echo "tr 51 M=MAC_BLOCK IS=min IE=4 ITERations=1";tr 51
M=MAC_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 513 more memories to test.";echo "tr 51 M=MIRROR_CONTROL IS=min IE=4 ITERations=1";tr
51 M=MIRROR_CONTROL IS=min IE=4 ITERations=1;echo "done";
echo "there are 512 more memories to test.";echo "tr 51 M=MMU_AGING_CTR IS=min IE=4 ITERations=1";tr 51
M=MMU_AGING_CTR IS=min IE=4 ITERations=1;echo "done";
echo "there are 511 more memories to test.";echo "tr 51 M=MMU_AGING_EXP IS=min IE=4 ITERations=1";tr 51
M=MMU_AGING_EXP IS=min IE=4 ITERations=1;echo "done";
echo "there are 510 more memories to test.";echo "tr 51 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 51 M=MMU_AGING_MASK_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 509 more memories to test.";echo "tr 51 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 51 M=MMU_AGING_MASK_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 508 more memories to test.";echo "tr 51 M=MMU_CBPData0 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 507 more memories to test.";echo "tr 51 M=MMU_CBPData1 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 506 more memories to test.";echo "tr 51 M=MMU_CBPData10 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 505 more memories to test.";echo "tr 51 M=MMU_CBPData11 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 504 more memories to test.";echo "tr 51 M=MMU_CBPData12 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData12 IS=min IE=4 ITERations=1;echo "done";
echo "there are 503 more memories to test.";echo "tr 51 M=MMU_CBPData13 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData13 IS=min IE=4 ITERations=1;echo "done";
echo "there are 502 more memories to test.";echo "tr 51 M=MMU_CBPData14 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData14 IS=min IE=4 ITERations=1;echo "done";
echo "there are 501 more memories to test.";echo "tr 51 M=MMU_CBPData15 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData15 IS=min IE=4 ITERations=1;echo "done";
echo "there are 500 more memories to test.";echo "tr 51 M=MMU_CBPData16 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData16 IS=min IE=4 ITERations=1;echo "done";
echo "there are 499 more memories to test.";echo "tr 51 M=MMU_CBPData17 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData17 IS=min IE=4 ITERations=1;echo "done";
echo "there are 498 more memories to test.";echo "tr 51 M=MMU_CBPData18 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData18 IS=min IE=4 ITERations=1;echo "done";
echo "there are 497 more memories to test.";echo "tr 51 M=MMU_CBPData19 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData19 IS=min IE=4 ITERations=1;echo "done";
echo "there are 496 more memories to test.";echo "tr 51 M=MMU_CBPData2 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 495 more memories to test.";echo "tr 51 M=MMU_CBPData20 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData20 IS=min IE=4 ITERations=1;echo "done";
echo "there are 494 more memories to test.";echo "tr 51 M=MMU_CBPData21 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData21 IS=min IE=4 ITERations=1;echo "done";
echo "there are 493 more memories to test.";echo "tr 51 M=MMU_CBPData22 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData22 IS=min IE=4 ITERations=1;echo "done";
echo "there are 492 more memories to test.";echo "tr 51 M=MMU_CBPData23 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData23 IS=min IE=4 ITERations=1;echo "done";
echo "there are 491 more memories to test.";echo "tr 51 M=MMU_CBPData24 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData24 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 490 more memories to test.";echo "tr 51 M=MMU_CBPData25 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData25 IS=min IE=4 ITERations=1;echo "done";
echo "there are 489 more memories to test.";echo "tr 51 M=MMU_CBPData26 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData26 IS=min IE=4 ITERations=1;echo "done";
echo "there are 488 more memories to test.";echo "tr 51 M=MMU_CBPData27 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData27 IS=min IE=4 ITERations=1;echo "done";
echo "there are 487 more memories to test.";echo "tr 51 M=MMU_CBPData28 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData28 IS=min IE=4 ITERations=1;echo "done";
echo "there are 486 more memories to test.";echo "tr 51 M=MMU_CBPData29 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData29 IS=min IE=4 ITERations=1;echo "done";
echo "there are 485 more memories to test.";echo "tr 51 M=MMU_CBPData3 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 484 more memories to test.";echo "tr 51 M=MMU_CBPData30 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData30 IS=min IE=4 ITERations=1;echo "done";
echo "there are 483 more memories to test.";echo "tr 51 M=MMU_CBPData31 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData31 IS=min IE=4 ITERations=1;echo "done";
echo "there are 482 more memories to test.";echo "tr 51 M=MMU_CBPData32 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData32 IS=min IE=4 ITERations=1;echo "done";
echo "there are 481 more memories to test.";echo "tr 51 M=MMU_CBPData33 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData33 IS=min IE=4 ITERations=1;echo "done";
echo "there are 480 more memories to test.";echo "tr 51 M=MMU_CBPData34 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData34 IS=min IE=4 ITERations=1;echo "done";
echo "there are 479 more memories to test.";echo "tr 51 M=MMU_CBPData35 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData35 IS=min IE=4 ITERations=1;echo "done";
echo "there are 478 more memories to test.";echo "tr 51 M=MMU_CBPData36 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData36 IS=min IE=4 ITERations=1;echo "done";
echo "there are 477 more memories to test.";echo "tr 51 M=MMU_CBPData37 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData37 IS=min IE=4 ITERations=1;echo "done";
echo "there are 476 more memories to test.";echo "tr 51 M=MMU_CBPData38 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData38 IS=min IE=4 ITERations=1;echo "done";
echo "there are 475 more memories to test.";echo "tr 51 M=MMU_CBPData39 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData39 IS=min IE=4 ITERations=1;echo "done";
echo "there are 474 more memories to test.";echo "tr 51 M=MMU_CBPData4 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 473 more memories to test.";echo "tr 51 M=MMU_CBPData40 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData40 IS=min IE=4 ITERations=1;echo "done";
echo "there are 472 more memories to test.";echo "tr 51 M=MMU_CBPData41 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData41 IS=min IE=4 ITERations=1;echo "done";
echo "there are 471 more memories to test.";echo "tr 51 M=MMU_CBPData42 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData42 IS=min IE=4 ITERations=1;echo "done";
echo "there are 470 more memories to test.";echo "tr 51 M=MMU_CBPData43 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData43 IS=min IE=4 ITERations=1;echo "done";
echo "there are 469 more memories to test.";echo "tr 51 M=MMU_CBPData44 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData44 IS=min IE=4 ITERations=1;echo "done";
echo "there are 468 more memories to test.";echo "tr 51 M=MMU_CBPData45 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData45 IS=min IE=4 ITERations=1;echo "done";
echo "there are 467 more memories to test.";echo "tr 51 M=MMU_CBPData46 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData46 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 466 more memories to test.";echo "tr 51 M=MMU_CBPData47 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData47 IS=min IE=4 ITERations=1;echo "done";
echo "there are 465 more memories to test.";echo "tr 51 M=MMU_CBPData48 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData48 IS=min IE=4 ITERations=1;echo "done";
echo "there are 464 more memories to test.";echo "tr 51 M=MMU_CBPData49 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData49 IS=min IE=4 ITERations=1;echo "done";
echo "there are 463 more memories to test.";echo "tr 51 M=MMU_CBPData5 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 462 more memories to test.";echo "tr 51 M=MMU_CBPData50 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData50 IS=min IE=4 ITERations=1;echo "done";
echo "there are 461 more memories to test.";echo "tr 51 M=MMU_CBPData51 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData51 IS=min IE=4 ITERations=1;echo "done";
echo "there are 460 more memories to test.";echo "tr 51 M=MMU_CBPData52 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData52 IS=min IE=4 ITERations=1;echo "done";
echo "there are 459 more memories to test.";echo "tr 51 M=MMU_CBPData53 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData53 IS=min IE=4 ITERations=1;echo "done";
echo "there are 458 more memories to test.";echo "tr 51 M=MMU_CBPData54 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData54 IS=min IE=4 ITERations=1;echo "done";
echo "there are 457 more memories to test.";echo "tr 51 M=MMU_CBPData55 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData55 IS=min IE=4 ITERations=1;echo "done";
echo "there are 456 more memories to test.";echo "tr 51 M=MMU_CBPData56 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData56 IS=min IE=4 ITERations=1;echo "done";
echo "there are 455 more memories to test.";echo "tr 51 M=MMU_CBPData57 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData57 IS=min IE=4 ITERations=1;echo "done";
echo "there are 454 more memories to test.";echo "tr 51 M=MMU_CBPData58 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData58 IS=min IE=4 ITERations=1;echo "done";
echo "there are 453 more memories to test.";echo "tr 51 M=MMU_CBPData59 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData59 IS=min IE=4 ITERations=1;echo "done";
echo "there are 452 more memories to test.";echo "tr 51 M=MMU_CBPData6 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 451 more memories to test.";echo "tr 51 M=MMU_CBPData60 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData60 IS=min IE=4 ITERations=1;echo "done";
echo "there are 450 more memories to test.";echo "tr 51 M=MMU_CBPData61 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData61 IS=min IE=4 ITERations=1;echo "done";
echo "there are 449 more memories to test.";echo "tr 51 M=MMU_CBPData62 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData62 IS=min IE=4 ITERations=1;echo "done";
echo "there are 448 more memories to test.";echo "tr 51 M=MMU_CBPData63 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData63 IS=min IE=4 ITERations=1;echo "done";
echo "there are 447 more memories to test.";echo "tr 51 M=MMU_CBPData64 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData64 IS=min IE=4 ITERations=1;echo "done";
echo "there are 446 more memories to test.";echo "tr 51 M=MMU_CBPData65 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData65 IS=min IE=4 ITERations=1;echo "done";
echo "there are 445 more memories to test.";echo "tr 51 M=MMU_CBPData66 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData66 IS=min IE=4 ITERations=1;echo "done";
echo "there are 444 more memories to test.";echo "tr 51 M=MMU_CBPData67 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData67 IS=min IE=4 ITERations=1;echo "done";
echo "there are 443 more memories to test.";echo "tr 51 M=MMU_CBPData68 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData68 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 442 more memories to test.";echo "tr 51 M=MMU_CBPData69 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData69 IS=min IE=4 ITERations=1;echo "done";
echo "there are 441 more memories to test.";echo "tr 51 M=MMU_CBPData7 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 440 more memories to test.";echo "tr 51 M=MMU_CBPData70 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData70 IS=min IE=4 ITERations=1;echo "done";
echo "there are 439 more memories to test.";echo "tr 51 M=MMU_CBPData71 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData71 IS=min IE=4 ITERations=1;echo "done";
echo "there are 438 more memories to test.";echo "tr 51 M=MMU_CBPData72 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData72 IS=min IE=4 ITERations=1;echo "done";
echo "there are 437 more memories to test.";echo "tr 51 M=MMU_CBPData73 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData73 IS=min IE=4 ITERations=1;echo "done";
echo "there are 436 more memories to test.";echo "tr 51 M=MMU_CBPData74 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData74 IS=min IE=4 ITERations=1;echo "done";
echo "there are 435 more memories to test.";echo "tr 51 M=MMU_CBPData75 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData75 IS=min IE=4 ITERations=1;echo "done";
echo "there are 434 more memories to test.";echo "tr 51 M=MMU_CBPData76 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData76 IS=min IE=4 ITERations=1;echo "done";
echo "there are 433 more memories to test.";echo "tr 51 M=MMU_CBPData77 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData77 IS=min IE=4 ITERations=1;echo "done";
echo "there are 432 more memories to test.";echo "tr 51 M=MMU_CBPData78 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData78 IS=min IE=4 ITERations=1;echo "done";
echo "there are 431 more memories to test.";echo "tr 51 M=MMU_CBPData79 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData79 IS=min IE=4 ITERations=1;echo "done";
echo "there are 430 more memories to test.";echo "tr 51 M=MMU_CBPData8 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 429 more memories to test.";echo "tr 51 M=MMU_CBPData80 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData80 IS=min IE=4 ITERations=1;echo "done";
echo "there are 428 more memories to test.";echo "tr 51 M=MMU_CBPData81 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData81 IS=min IE=4 ITERations=1;echo "done";
echo "there are 427 more memories to test.";echo "tr 51 M=MMU_CBPData82 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData82 IS=min IE=4 ITERations=1;echo "done";
echo "there are 426 more memories to test.";echo "tr 51 M=MMU_CBPData83 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData83 IS=min IE=4 ITERations=1;echo "done";
echo "there are 425 more memories to test.";echo "tr 51 M=MMU_CBPData9 IS=min IE=4 ITERations=1";tr 51
M=MMU_CBPData9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 424 more memories to test.";echo "tr 51 M=MMU_CCP0_RESEQ_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CCP0_RESEQ_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 423 more memories to test.";echo "tr 51 M=MMU_CCP1_RESEQ_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CCP1_RESEQ_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 422 more memories to test.";echo "tr 51 M=MMU_CCP_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_CCP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 421 more memories to test.";echo "tr 51 M=MMU_CELL_LINK IS=min IE=4 ITERations=1";tr 51
M=MMU_CELL_LINK IS=min IE=4 ITERations=1;echo "done";
echo "there are 420 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK0 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 419 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK1 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 418 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK10 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK10 IS=min IE=4 ITERations=1;echo "done";
echo "there are 417 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK11 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK11 IS=min IE=4 ITERations=1;echo "done";
echo "there are 416 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK12 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK12 IS=min IE=4 ITERations=1;echo "done";
echo "there are 415 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK13 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK13 IS=min IE=4 ITERations=1;echo "done";
echo "there are 414 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK14 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK14 IS=min IE=4 ITERations=1;echo "done";
echo "there are 413 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK15 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK15 IS=min IE=4 ITERations=1;echo "done";
echo "there are 412 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK16 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK16 IS=min IE=4 ITERations=1;echo "done";
echo "there are 411 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK17 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK17 IS=min IE=4 ITERations=1;echo "done";
echo "there are 410 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK18 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK18 IS=min IE=4 ITERations=1;echo "done";
echo "there are 409 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK19 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK19 IS=min IE=4 ITERations=1;echo "done";
echo "there are 408 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK2 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 407 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK20 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK20 IS=min IE=4 ITERations=1;echo "done";
echo "there are 406 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK3 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 405 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK4 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK4 IS=min IE=4 ITERations=1;echo "done";
echo "there are 404 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK5 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK5 IS=min IE=4 ITERations=1;echo "done";
echo "there are 403 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK6 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK6 IS=min IE=4 ITERations=1;echo "done";
echo "there are 402 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK7 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK7 IS=min IE=4 ITERations=1;echo "done";
echo "there are 401 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK8 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK8 IS=min IE=4 ITERations=1;echo "done";
echo "there are 400 more memories to test.";echo "tr 51 M=MMU_CFAP_BANK9 IS=min IE=4 ITERations=1";tr
51 M=MMU_CFAP_BANK9 IS=min IE=4 ITERations=1;echo "done";
echo "there are 399 more memories to test.";echo "tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4
ITERations=1";tr 51 M=MMU_CHFC_SYSPORT_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 398 more memories to test.";echo "tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_COLOR_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 397 more memories to test.";echo "tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_ING_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 396 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 395 more memories to test.";echo "tr 51 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_MC_DROP_MEM1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 394 more memories to test.";echo "tr 51 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_MTRI_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 393 more memories to test.";echo "tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=4
ITERations=1";tr 51 M=MMU_CTR_UC_DROP_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 392 more memories to test.";echo "tr 51 M=MMU_ENQ_PBI_DB IS=min IE=4 ITERations=1";tr
51 M=MMU_ENQ_PBI_DB IS=min IE=4 ITERations=1;echo "done";
echo "there are 391 more memories to test.";echo "tr 51 M=MMU_EPRG_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_EPRG_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 390 more memories to test.";echo "tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_BASE_INDEX_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 389 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 388 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 387 more memories to test.";echo "tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_FC_ST_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 386 more memories to test.";echo "tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_MERGE_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 385 more memories to test.";echo "tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_OFFSET_MAP_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 384 more memories to test.";echo "tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_PFC_ST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 383 more memories to test.";echo "tr 51 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_PORT_COEFC_TB IS=min IE=4 ITERations=1;echo "done";
echo "there are 382 more memories to test.";echo "tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_ST_TRANS_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 381 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 380 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 379 more memories to test.";echo "tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_XPIPE_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 378 more memories to test.";echo "tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 377 more memories to test.";echo "tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 376 more memories to test.";echo "tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFI_YPIPE_FC_MAP_TBL2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 375 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFO_QCN_CNM_RVD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 374 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min
IE=4 ITERations=1";tr 51 M=MMU_INTFO_QCN_CNM_TIMER_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 373 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFO_QCN_TBID_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 372 more memories to test.";echo "tr 51 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFO_QCN_TOV_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 371 more memories to test.";echo "tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4
ITERations=1";tr 51 M=MMU_INTFO_TC2PRI_MAPPING IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 370 more memories to test.";echo "tr 51 M=MMU_MCFP IS=min IE=4 ITERations=1";tr 51
M=MMU_MCFP IS=min IE=4 ITERations=1;echo "done";
echo "there are 369 more memories to test.";echo "tr 51 M=MMU_MCQDB0 IS=min IE=4 ITERations=1";tr 51
M=MMU_MCQDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 368 more memories to test.";echo "tr 51 M=MMU_MCQDB1 IS=min IE=4 ITERations=1";tr 51
M=MMU_MCQDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 367 more memories to test.";echo "tr 51 M=MMU_MCQE IS=min IE=4 ITERations=1";tr 51
M=MMU_MCQE IS=min IE=4 ITERations=1;echo "done";
echo "there are 366 more memories to test.";echo "tr 51 M=MMU_MCQN IS=min IE=4 ITERations=1";tr 51
M=MMU_MCQN IS=min IE=4 ITERations=1;echo "done";
echo "there are 365 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 364 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGBUCKET_MEM_1 IS=min IE=4
ITERations=1;echo "done";
echo "there are 363 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 362 more memories to test.";echo "tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRI_BKPMETERINGCONFIG_MEM_1 IS=min IE=4
ITERations=1;echo "done";
echo "there are 361 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 360 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L0_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 359 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 358 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L1_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 357 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 356 more memories to test.";echo "tr 51 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_BUCKET_L2_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 355 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_0 IS=min IE=4
ITERations=1;echo "done";
echo "there are 354 more memories to test.";echo "tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1
IS=min IE=4 ITERations=1";tr 51 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_1 IS=min IE=4
ITERations=1;echo "done";
echo "there are 353 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 352 more memories to test.";echo "tr 51 M=MMU_MTRO_L0_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L0_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 351 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 350 more memories to test.";echo "tr 51 M=MMU_MTRO_L1_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L1_MEM_1 IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 349 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 348 more memories to test.";echo "tr 51 M=MMU_MTRO_L2_MEM_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_MTRO_L2_MEM_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 347 more memories to test.";echo "tr 51 M=MMU_PDB0 IS=min IE=4 ITERations=1";tr 51
M=MMU_PDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 346 more memories to test.";echo "tr 51 M=MMU_PDB1 IS=min IE=4 ITERations=1";tr 51
M=MMU_PDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 345 more memories to test.";echo "tr 51 M=MMU_PKTHDR IS=min IE=4 ITERations=1";tr 51
M=MMU_PKTHDR IS=min IE=4 ITERations=1;echo "done";
echo "there are 344 more memories to test.";echo "tr 51 M=MMU_PKT_LINK IS=min IE=4 ITERations=1";tr 51
M=MMU_PKT_LINK IS=min IE=4 ITERations=1;echo "done";
echo "there are 343 more memories to test.";echo "tr 51 M=MMU_PORTCNT IS=min IE=4 ITERations=1";tr 51
M=MMU_PORTCNT IS=min IE=4 ITERations=1;echo "done";
echo "there are 342 more memories to test.";echo "tr 51 M=MMU_PQE0_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_PQE0_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 341 more memories to test.";echo "tr 51 M=MMU_PQE1_MEM IS=min IE=4 ITERations=1";tr 51
M=MMU_PQE1_MEM IS=min IE=4 ITERations=1;echo "done";
echo "there are 340 more memories to test.";echo "tr 51 M=MMU_QCN_CNM_COUNTER IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_CNM_COUNTER IS=min IE=4 ITERations=1;echo "done";
echo "there are 339 more memories to test.";echo "tr 51 M=MMU_QCN_CNM_QUEUE0 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_CNM_QUEUE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 338 more memories to test.";echo "tr 51 M=MMU_QCN_CNM_QUEUE1 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_CNM_QUEUE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 337 more memories to test.";echo "tr 51 M=MMU_QCN_CPQST_QLEN IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_CPQST_QLEN IS=min IE=4 ITERations=1;echo "done";
echo "there are 336 more memories to test.";echo "tr 51 M=MMU_QCN_CPQST_TSSLS IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_CPQST_TSSLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 335 more memories to test.";echo "tr 51 M=MMU_QCN_ENABLE_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_ENABLE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 334 more memories to test.";echo "tr 51 M=MMU_QCN_ENABLE_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_ENABLE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 333 more memories to test.";echo "tr 51 M=MMU_QCN_QFBTB IS=min IE=4 ITERations=1";tr
51 M=MMU_QCN_QFBTB IS=min IE=4 ITERations=1;echo "done";
echo "there are 332 more memories to test.";echo "tr 51 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_QLEN_SHADOW0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 331 more memories to test.";echo "tr 51 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=4
ITERations=1";tr 51 M=MMU_QCN_QLEN_SHADOW1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 330 more memories to test.";echo "tr 51 M=MMU_QCN_SITB IS=min IE=4 ITERations=1";tr 51
M=MMU_QCN_SITB IS=min IE=4 ITERations=1;echo "done";
echo "there are 329 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO0 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 328 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INFO1 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_GROUP_INFO1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 327 more memories to test.";echo "tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
IS=min IE=4 ITERations=1";tr 51 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT IS=min IE=4
ITERations=1;echo "done";
echo "there are 326 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=4
```

```
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 325 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 324 more memories to test.";echo "tr 51 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_HEAD_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 323 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL IS=min IE=4 ITERations=1;echo "done";
echo "there are 322 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 321 more memories to test.";echo "tr 51 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_LIST_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 320 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 319 more memories to test.";echo "tr 51 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=4
ITERations=1";tr 51 M=MMU_REPL_STATE_TBL_PIPE1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 318 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 317 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 316 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 315 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 314 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 313 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 312 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 311 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 310 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 309 more memories to test.";echo "tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_PORTSP_CONFIG_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 308 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 307 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 306 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 305 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min
```

IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0A IS=min IE=4 ITERations=1;echo "done";
echo "there are 304 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0B IS=min IE=4 ITERations=1;echo "done";
echo "there are 303 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_0C IS=min IE=4 ITERations=1;echo "done";
echo "there are 302 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 301 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1A IS=min IE=4 ITERations=1;echo "done";
echo "there are 300 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1B IS=min IE=4 ITERations=1;echo "done";
echo "there are 299 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_CONFIG_1C IS=min IE=4 ITERations=1;echo "done";
echo "there are 298 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 297 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_COUNT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 296 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 295 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0A IS=min IE=4 ITERations=1;echo "done";
echo "there are 294 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0B IS=min IE=4 ITERations=1;echo "done";
echo "there are 293 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_0C IS=min IE=4 ITERations=1;echo "done";
echo "there are 292 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 291 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1A IS=min IE=4 ITERations=1;echo "done";
echo "there are 290 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1B IS=min IE=4 ITERations=1;echo "done";
echo "there are 289 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_OFFSET_1C IS=min IE=4 ITERations=1;echo "done";
echo "there are 288 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 287 more memories to test.";echo "tr 51 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_DB_QUEUE_RESUME_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 286 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 285 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 284 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 283 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 282 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min

```
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 281 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 280 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 279 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_PORTSP_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 278 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 277 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min IE=4
ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_BST_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 276 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 275 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 274 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 273 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 272 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 271 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 270 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 269 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_CONFIG_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 268 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 267 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_COUNT_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 266 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0 IS=min IE=4 ITERations=1;echo
"done";
```

```
echo "there are 265 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 264 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 263 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_0C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 262 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 261 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1A IS=min IE=4 ITERations=1;echo
"done";
echo "there are 260 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1B IS=min IE=4 ITERations=1;echo
"done";
echo "there are 259 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_OFFSET_1C IS=min IE=4 ITERations=1;echo
"done";
echo "there are 258 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 257 more memories to test.";echo "tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDM_MCQE_QUEUE_RESUME_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 256 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 255 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_QGROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 254 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_BST_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 253 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 252 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 251 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_CONFIG_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 250 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 249 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 248 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_COUNTER_QUEUE IS=min IE=4 ITERations=1;echo
"done";
```

```
echo "there are 247 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_OFFSET_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 246 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_OFFSET_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 245 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 244 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 243 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 242 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 241 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_PORT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 240 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 239 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 238 more memories to test.";echo "tr 51 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_XPIPE_RESUME_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 237 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_BST_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 236 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_BST_QGROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 235 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_BST_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 234 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_CONFIG_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 233 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_CONFIG_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 232 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_CONFIG_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 231 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_COUNTER_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 230 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_COUNTER_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 229 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_COUNTER_QUEUE IS=min IE=4 ITERations=1;echo
"done";
echo "there are 228 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_OFFSET_QGROUP IS=min IE=4 ITERations=1;echo
```

```
"done";
echo "there are 227 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_OFFSET_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 226 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 225 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 224 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1 IS=min IE=4 ITERations=1;echo
"done";
echo "there are 223 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_RESUME_PORT IS=min IE=4
ITERations=1";tr 51 M=MMU_THDU_YPIPE_RESUME_PORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 222 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_RESUME_PORT_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 221 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_RESUME_PORT_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 220 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_RESUME_QGROUP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 219 more memories to test.";echo "tr 51 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min
IE=4 ITERations=1";tr 51 M=MMU_THDU_YPIPE_RESUME_QUEUE IS=min IE=4 ITERations=1;echo "done";
echo "there are 218 more memories to test.";echo "tr 51 M=MMU_UCQDB0 IS=min IE=4 ITERations=1";tr 51
M=MMU_UCQDB0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 217 more memories to test.";echo "tr 51 M=MMU_UCQDB1 IS=min IE=4 ITERations=1";tr 51
M=MMU_UCQDB1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 216 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 215 more memories to test.";echo "tr 51 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_AVG_QSIZE_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 214 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_CONFIG_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 213 more memories to test.";echo "tr 51 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=4
ITERations=1";tr 51 M=MMU_WRED_CONFIG_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 212 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 211 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 210 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 209 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 208 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE
```

```
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 207 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 206 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 205 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 204 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 203 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 202 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 201 more memories to test.";echo "tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 200 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 199 more memories to test.";echo "tr 51 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_PORT_SP_DROP_THD_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 198 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 197 more memories to test.";echo "tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 196 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QGROUP_DROP_THD_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 195 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QGROUP_DROP_THD_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 194 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 193 more memories to test.";echo "tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE
IS=min IE=4 ITERations=1";tr 51 M=MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE IS=min IE=4
ITERations=1;echo "done";
echo "there are 192 more memories to test.";echo "tr 51
```

```
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 191 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 190 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 189 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 188 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 187 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 186 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 185 more memories to test.";echo "tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=4 ITERations=1";tr 51
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE IS=min IE=4 ITERations=1;echo "done";
echo "there are 184 more memories to test.";echo "tr 51 M=MODID_BASE_PTR IS=min IE=4 ITERations=1";tr 51
M=MODID_BASE_PTR IS=min IE=4 ITERations=1;echo "done";
echo "there are 183 more memories to test.";echo "tr 51 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 182 more memories to test.";echo "tr 51 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 181 more memories to test.";echo "tr 51 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 180 more memories to test.";echo "tr 51 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1";tr
51 M=MODPORT_MAP_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 179 more memories to test.";echo "tr 51 M=MODPORT_MAP_MIRROR IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 178 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT IS=min IE=4 ITERations=1;echo "done";
echo "there are 177 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 176 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M1 IS=min IE=4 ITERations=1;echo "done";
echo "there are 175 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 174 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_M3 IS=min IE=4 ITERations=1;echo "done";
echo "there are 173 more memories to test.";echo "tr 51 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=4
ITERations=1";tr 51 M=MODPORT_MAP_SUBPORT_MIRROR IS=min IE=4 ITERations=1;echo "done";
echo "there are 172 more memories to test.";echo "tr 51 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1";tr
```

```
51 M=MODPORT_MAP_SW IS=min IE=4 ITERations=1;echo "done";
#echo "there are 171 more memories to test.";echo "tr 51 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0
ITERations=1";tr 51 M=MPLS_ENTROPY_LABEL_DATA IS=min IE=0 ITERations=1;echo "done";
echo "there are 170 more memories to test.";echo "tr 51 M=MPLS_ENTRY IS=min IE=4 ITERations=1";tr 51
M=MPLS_ENTRY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 169 more memories to test.";echo "tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0
ITERations=1";tr 51 M=MULTIPASS_LOOPBACK_BITMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 168 more memories to test.";echo "tr 51 M=MY_STATION_TCAM IS=min IE=4 ITERations=1";tr
51 M=MY_STATION_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 167 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2 IS=min IE=4
ITERations=1";tr 51 M=MY_STATION_TCAM_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 166 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2_DATA_ONLY IS=min
IE=4 ITERations=1";tr 51 M=MY_STATION_TCAM_2_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 165 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min
IE=4 ITERations=1";tr 51 M=MY_STATION_TCAM_2_ENTRY_ONLY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 164 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=MY_STATION_TCAM_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 163 more memories to test.";echo "tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4
ITERations=1";tr 51 M=MY_STATION_TCAM_ENTRY_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 162 more memories to test.";echo "tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=NONUCAST_TRUNK_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 161 more memories to test.";echo "tr 51 M=NUM_QCN_CNM_RECEIVED IS=min IE=4
ITERations=1";tr 51 M=NUM_QCN_CNM_RECEIVED IS=min IE=4 ITERations=1;echo "done";
echo "there are 160 more memories to test.";echo "tr 51 M=PFS_PACKET_TYPE_OFFSET IS=min IE=4
ITERations=1";tr 51 M=PFS_PACKET_TYPE_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 159 more memories to test.";echo "tr 51 M=PHB2_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=PHB2_COS_MAP IS=min IE=4 ITERations=1;echo "done";
#echo "there are 158 more memories to test.";echo "tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_BMAP IS=min IE=0 ITERations=1;echo "done";
#echo "there are 157 more memories to test.";echo "tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0
ITERations=1";tr 51 M=PORT_BRIDGE_MIRROR_BMAP IS=min IE=0 ITERations=1;echo "done";
echo "there are 156 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE IS=min IE=4 ITERations=1";tr 51
M=PORT_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 155 more memories to test.";echo "tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 51 M=PORT_CBL_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 154 more memories to test.";echo "tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=4
ITERations=1";tr 51 M=PORT_LAG_FAILOVER_SET IS=min IE=4 ITERations=1;echo "done";
echo "there are 153 more memories to test.";echo "tr 51 M=PORT_TAB IS=min IE=4 ITERations=1";tr 51
M=PORT_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 152 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=4
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK0 IS=min IE=4 ITERations=1;echo "done";
echo "there are 151 more memories to test.";echo "tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=4
ITERations=1";tr 51 M=REPLICATION_FIFO_BANK1 IS=min IE=4 ITERations=1;echo "done";
#echo "there are 150 more memories to test.";echo "tr 51 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1";tr
51 M=RH_ECMP_DROPS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 149 more memories to test.";echo "tr 51 M=RH_ECMP_DROPS_X IS=min IE=0 ITERations=1";tr
51 M=RH_ECMP_DROPS_X IS=min IE=0 ITERations=1;echo "done";
```

```
#echo "there are 148 more memories to test.";echo "tr 51 M=RH_ECMP_DROPS_Y IS=min IE=0 ITERations=1";tr
51 M=RH_ECMP_DROPS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 147 more memories to test.";echo "tr 51 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP
IS=min IE=4 ITERations=1";tr 51 M=RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4
ITERations=1;echo "done";
echo "there are 146 more memories to test.";echo "tr 51 M=RH_ECMP_FLOWSET IS=min IE=4 ITERations=1";tr
51 M=RH_ECMP_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 145 more memories to test.";echo "tr 51 M=RH_HGT_DROPS IS=min IE=4 ITERations=1";tr 51
M=RH_HGT_DROPS IS=min IE=4 ITERations=1;echo "done";
echo "there are 144 more memories to test.";echo "tr 51 M=RH_HGT_DROPS_X IS=min IE=4 ITERations=1";tr
51 M=RH_HGT_DROPS_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 143 more memories to test.";echo "tr 51 M=RH_HGT_DROPS_Y IS=min IE=4 ITERations=1";tr
51 M=RH_HGT_DROPS_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 142 more memories to test.";echo "tr 51 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=4 ITERations=1";tr 51 M=RH_HGT_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 141 more memories to test.";echo "tr 51 M=RH_HGT_FLOWSET IS=min IE=4 ITERations=1";tr
51 M=RH_HGT_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 140 more memories to test.";echo "tr 51 M=RH_HGT_GROUP_CONTROL IS=min IE=4
ITERations=1";tr 51 M=RH_HGT_GROUP_CONTROL IS=min IE=4 ITERations=1;echo "done";
#echo "there are 139 more memories to test.";echo "tr 51 M=RH_LAG_DROPS IS=min IE=0 ITERations=1";tr 51
M=RH_LAG_DROPS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 138 more memories to test.";echo "tr 51 M=RH_LAG_DROPS_X IS=min IE=0 ITERations=1";tr
51 M=RH_LAG_DROPS_X IS=min IE=0 ITERations=1;echo "done";
#echo "there are 137 more memories to test.";echo "tr 51 M=RH_LAG_DROPS_Y IS=min IE=0 ITERations=1";tr
51 M=RH_LAG_DROPS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 136 more memories to test.";echo "tr 51 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min
IE=4 ITERations=1";tr 51 M=RH_LAG_ETHERTYPE_ELIGIBILITY_MAP IS=min IE=4 ITERations=1;echo
"done";
echo "there are 135 more memories to test.";echo "tr 51 M=RH_LAG_FLOWSET IS=min IE=4 ITERations=1";tr
51 M=RH_LAG_FLOWSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 134 more memories to test.";echo "tr 51 M=RQE_FREE_LIST IS=min IE=4 ITERations=1";tr 51
M=RQE_FREE_LIST IS=min IE=4 ITERations=1;echo "done";
echo "there are 133 more memories to test.";echo "tr 51 M=RQE_LINK_LIST IS=min IE=4 ITERations=1";tr 51
M=RQE_LINK_LIST IS=min IE=4 ITERations=1;echo "done";
echo "there are 132 more memories to test.";echo "tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=4
ITERations=1";tr 51 M=RTAG7_FLOW_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 131 more memories to test.";echo "tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=4
ITERations=1";tr 51 M=RTAG7_PORT_BASED_HASH IS=min IE=4 ITERations=1;echo "done";
echo "there are 130 more memories to test.";echo "tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=RX_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 129 more memories to test.";echo "tr 51 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1";tr
51 M=SERVICE_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 128 more memories to test.";echo "tr 51 M=SERVICE_PORT_MAP IS=min IE=4 ITERations=1";tr
51 M=SERVICE_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 127 more memories to test.";echo "tr 51 M=SERVICE_QUEUE_MAP IS=min IE=4
ITERations=1";tr 51 M=SERVICE_QUEUE_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 126 more memories to test.";echo "tr 51 M=SER_MEMORY IS=min IE=4 ITERations=1";tr 51
```

```
M=SER_MEMORY IS=min IE=4 ITERations=1;echo "done";
#echo "there are 125 more memories to test.";echo "tr 51 M=SER_RESULT_0 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 124 more memories to test.";echo "tr 51 M=SER_RESULT_1 IS=min IE=0 ITERations=1";tr 51
M=SER_RESULT_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 123 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 122 more memories to test.";echo "tr 51 M=SER_RESULT_DATA_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_DATA_1 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 121 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_0 IS=min IE=0 ITERations=1;echo "done";
#echo "there are 120 more memories to test.";echo "tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0
ITERations=1";tr 51 M=SER_RESULT_EXPECTED_1 IS=min IE=0 ITERations=1;echo "done";
echo "there are 119 more memories to test.";echo "tr 51 M=SGPP_TO_PIPE_MAPPING IS=min IE=4
ITERations=1";tr 51 M=SGPP_TO_PIPE_MAPPING IS=min IE=4 ITERations=1;echo "done";
echo "there are 118 more memories to test.";echo "tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_MOD_PROXY_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 117 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 116 more memories to test.";echo "tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4
ITERations=1";tr 51 M=SOURCE_TRUNK_MAP_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 115 more memories to test.";echo "tr 51 M=SOURCE_VP IS=min IE=4 ITERations=1";tr 51
M=SOURCE_VP IS=min IE=4 ITERations=1;echo "done";
echo "there are 114 more memories to test.";echo "tr 51 M=SOURCE_VP_2 IS=min IE=4 ITERations=1";tr 51
M=SOURCE_VP_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 113 more memories to test.";echo "tr 51 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1";tr
51 M=SRC_MODID_EGRESS IS=min IE=4 ITERations=1;echo "done";
echo "there are 112 more memories to test.";echo "tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4
ITERations=1";tr 51 M=SRC_MODID_INGRESS_BLOCK IS=min IE=4 ITERations=1;echo "done";
echo "there are 111 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP IS=min IE=4
ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 110 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min
IE=4 ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP_DATA_ONLY IS=min IE=4 ITERations=1;echo
"done";
echo "there are 109 more memories to test.";echo "tr 51 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=4
ITERations=1";tr 51 M=SUBPORT_TAG_SGPP_MAP_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 108 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=4
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 107 more memories to test.";echo "tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4
ITERations=1";tr 51 M=SYSTEM_CONFIG_TABLE_MODBASE IS=min IE=4 ITERations=1;echo "done";
echo "there are 106 more memories to test.";echo "tr 51 M=TCP_FN IS=min IE=4 ITERations=1";tr 51
M=TCP_FN IS=min IE=4 ITERations=1;echo "done";
echo "there are 105 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_BST_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 104 more memories to test.";echo "tr 51 M=THDI_PORT_PG_BST_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_BST_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 103 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_X IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 102 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 101 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 100 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_RT2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 99 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 98 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 97 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 96 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CNTRS_SH2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 95 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 94 more memories to test.";echo "tr 51 M=THDI_PORT_PG_CONFIG_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_PG_CONFIG_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 93 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_BST_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 92 more memories to test.";echo "tr 51 M=THDI_PORT_SP_BST_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_BST_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 91 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 90 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_RT_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 89 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 88 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CNTRS_SH_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 87 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 86 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG0_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG0_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 85 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 84 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG1_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG1_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 83 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 82 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG2_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG2_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 81 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_X IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_X IS=min IE=4 ITERations=1;echo "done";
echo "there are 80 more memories to test.";echo "tr 51 M=THDI_PORT_SP_CONFIG_Y IS=min IE=4
ITERations=1";tr 51 M=THDI_PORT_SP_CONFIG_Y IS=min IE=4 ITERations=1;echo "done";
echo "there are 79 more memories to test.";echo "tr 51 M=TOS_FN IS=min IE=4 ITERations=1";tr 51 M=TOS_FN
IS=min IE=4 ITERations=1;echo "done";
```

```
#echo "there are 78 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1";tr
51 M=TRILL_DROP_STATS IS=min IE=0 ITERations=1;echo "done";
#echo "there are 77 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_X IS=min IE=0
ITERations=1";tr 51 M=TRILL_DROP_STATS_X IS=min IE=0 ITERations=1;echo "done";
#echo "there are 76 more memories to test.";echo "tr 51 M=TRILL_DROP_STATS_Y IS=min IE=0
ITERations=1";tr 51 M=TRILL_DROP_STATS_Y IS=min IE=0 ITERations=1;echo "done";
echo "there are 75 more memories to test.";echo "tr 51 M=TRUNK_BITMAP IS=min IE=4 ITERations=1";tr 51
M=TRUNK_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 74 more memories to test.";echo "tr 51 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1";tr
51 M=TRUNK_CBL_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 73 more memories to test.";echo "tr 51 M=TRUNK_GROUP IS=min IE=4 ITERations=1";tr 51
M=TRUNK_GROUP IS=min IE=4 ITERations=1;echo "done";
echo "there are 72 more memories to test.";echo "tr 51 M=TRUNK_MEMBER IS=min IE=4 ITERations=1";tr 51
M=TRUNK_MEMBER IS=min IE=4 ITERations=1;echo "done";
echo "there are 71 more memories to test.";echo "tr 51 M=TTL_FN IS=min IE=4 ITERations=1";tr 51 M=TTL_FN
IS=min IE=4 ITERations=1;echo "done";
echo "there are 70 more memories to test.";echo "tr 51 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=4
ITERations=1";tr 51 M=TX_INITIAL_PROT_GROUP_TABLE IS=min IE=4 ITERations=1;echo "done";
echo "there are 69 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min
IE=4 ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 68 more memories to test.";echo "tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min
IE=4 ITERations=1";tr 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM IS=min IE=4 ITERations=1;echo
"done";
echo "there are 67 more memories to test.";echo "tr 51 M=FP_UDF_OFFSET IS=min IE=4 ITERations=1";tr 51
M=FP_UDF_OFFSET IS=min IE=4 ITERations=1;echo "done";
echo "there are 66 more memories to test.";echo "tr 51 M=FP_UDF_TCAM IS=min IE=4 ITERations=1";tr 51
M=FP_UDF_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 65 more memories to test.";echo "tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_HGI_BITMAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 64 more memories to test.";echo "tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_MCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 63 more memories to test.";echo "tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4
ITERations=1";tr 51 M=UNKNOWN_UCAST_BLOCK_MASK IS=min IE=4 ITERations=1;echo "done";
echo "there are 62 more memories to test.";echo "tr 51 M=VFI IS=min IE=4 ITERations=1";tr 51 M=VFI IS=min
IE=4 ITERations=1;echo "done";
echo "there are 61 more memories to test.";echo "tr 51 M=VFI_1 IS=min IE=4 ITERations=1";tr 51 M=VFI_1
IS=min IE=4 ITERations=1;echo "done";
echo "there are 60 more memories to test.";echo "tr 51 M=VFI_PROFILE IS=min IE=4 ITERations=1";tr 51
M=VFI_PROFILE IS=min IE=4 ITERations=1;echo "done";
echo "there are 59 more memories to test.";echo "tr 51 M=VFI_PROFILE_2 IS=min IE=4 ITERations=1";tr 51
M=VFI_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 58 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4
ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_A IS=min IE=4 ITERations=1;echo "done";
echo "there are 57 more memories to test.";echo "tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4
ITERations=1";tr 51 M=VFP_HASH_FIELD_BMAP_TABLE_B IS=min IE=4 ITERations=1;echo "done";
echo "there are 56 more memories to test.";echo "tr 51 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1";tr
51 M=VFP_POLICY_TABLE IS=min IE=4 ITERations=1;echo "done";
```

```
echo "there are 55 more memories to test.";echo "tr 51 M=VFP_TCAM IS=min IE=4 ITERations=1";tr 51
M=VFP_TCAM IS=min IE=4 ITERations=1;echo "done";
echo "there are 54 more memories to test.";echo "tr 51 M=VLAN_TAB IS=min IE=4 ITERations=1";tr 51
M=VLAN_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 53 more memories to test.";echo "tr 51 M=VLAN_MAC IS=min IE=4 ITERations=1";tr 51
M=VLAN_MAC IS=min IE=4 ITERations=1;echo "done";
echo "there are 52 more memories to test.";echo "tr 51 M=VLAN_MPLS IS=min IE=4 ITERations=1";tr 51
M=VLAN_MPLS IS=min IE=4 ITERations=1;echo "done";
echo "there are 51 more memories to test.";echo "tr 51 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1";tr
51 M=VLAN_PROFILE_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 50 more memories to test.";echo "tr 51 M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1";tr 51
M=VLAN_PROFILE_2 IS=min IE=4 ITERations=1;echo "done";
echo "there are 49 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL IS=min IE=4 ITERations=1";tr 51
M=VLAN_PROTOCOL IS=min IE=4 ITERations=1;echo "done";
echo "there are 48 more memories to test.";echo "tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=4
ITERations=1";tr 51 M=VLAN_PROTOCOL_DATA IS=min IE=4 ITERations=1;echo "done";
echo "there are 47 more memories to test.";echo "tr 51 M=STG_TAB IS=min IE=4 ITERations=1";tr 51
M=STG_TAB IS=min IE=4 ITERations=1;echo "done";
echo "there are 46 more memories to test.";echo "tr 51 M=VLAN_SUBNET IS=min IE=4 ITERations=1";tr 51
M=VLAN_SUBNET IS=min IE=4 ITERations=1;echo "done";
echo "there are 45 more memories to test.";echo "tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4
ITERations=1";tr 51 M=VLAN_SUBNET_DATA_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 44 more memories to test.";echo "tr 51 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1";tr
51 M=VLAN_SUBNET_ONLY IS=min IE=4 ITERations=1;echo "done";
echo "there are 43 more memories to test.";echo "tr 51 M=VLAN_XLATE IS=min IE=4 ITERations=1";tr 51
M=VLAN_XLATE IS=min IE=4 ITERations=1;echo "done";
echo "there are 42 more memories to test.";echo "tr 51 M=VLAN_XLATE_ECC IS=min IE=4 ITERations=1";tr 51
M=VLAN_XLATE_ECC IS=min IE=4 ITERations=1;echo "done";
echo "there are 41 more memories to test.";echo "tr 51 M=VLAN_XLATE_LP IS=min IE=4 ITERations=1";tr 51
M=VLAN_XLATE_LP IS=min IE=4 ITERations=1;echo "done";
echo "there are 40 more memories to test.";echo "tr 51 M=VOQ_COS_MAP IS=min IE=4 ITERations=1";tr 51
M=VOQ_COS_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 39 more memories to test.";echo "tr 51 M=VOQ_MOD_MAP IS=min IE=4 ITERations=1";tr 51
M=VOQ_MOD_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 38 more memories to test.";echo "tr 51 M=VOQ_PORT_MAP IS=min IE=4 ITERations=1";tr 51
M=VOQ_PORT_MAP IS=min IE=4 ITERations=1;echo "done";
echo "there are 37 more memories to test.";echo "tr 51 M=VRF IS=min IE=4 ITERations=1";tr 51 M=VRF IS=min
IE=4 ITERations=1;echo "done";
#echo "there are 36 more memories to test.";echo "tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=4
ITERations=1";tr 51 M=XLPORT_WC_UCMEM_DATA IS=min IE=4 ITERations=1;echo "done";
#----------------------------NOTEST memories-----------------------------------------------------------------
#echo 'there are 35  more memories to test.';echo 'tr 51 M=EDB_1DBG_B IS=min IE=4 ITERations=1';tr 51
M=EDB_1DBG_B IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 33  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L0_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
```

```
'done';
#echo 'there are 32  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L0_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 51 M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L0_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 29  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L1_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 28  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L1_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 27  more memories to test.';echo 'tr 51 M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L1_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 26  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_0 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 25  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min
IE=4 ITERations=1';tr 51 M=HSP_SCHED_L2_ACCUM_COMP_MEM_1 IS=min IE=4 ITERations=1;echo
'done';
#echo 'there are 24  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L2_CREDIT_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 23  more memories to test.';echo 'tr 51 M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=4
ITERations=1';tr 51 M=HSP_SCHED_L2_CREDIT_MEM_1 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 22  more memories to test.';echo 'tr 51 M=ING_SERVICE_PRI_MAP IS=min IE=4
ITERations=1';tr 51 M=ING_SERVICE_PRI_MAP IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 21  more memories to test.';echo 'tr 51 M=LINK_STATUS IS=min IE=4 ITERations=1';tr 51
M=LINK_STATUS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 20  more memories to test.';echo 'tr 51 M=LMEP IS=min IE=4 ITERations=1';tr 51 M=LMEP
IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 19  more memories to test.';echo 'tr 51 M=LMEP_DA IS=min IE=4 ITERations=1';tr 51
M=LMEP_DA IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 18  more memories to test.';echo 'tr 51 M=MAID_REDUCTION IS=min IE=4 ITERations=1';tr 51
M=MAID_REDUCTION IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 17  more memories to test.';echo 'tr 51 M=MA_INDEX IS=min IE=4 ITERations=1';tr 51
M=MA_INDEX IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 16  more memories to test.';echo 'tr 51 M=MA_STATE IS=min IE=4 ITERations=1';tr 51
M=MA_STATE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 15  more memories to test.';echo 'tr 51 M=OAM_LM_COUNTERS IS=min IE=4 ITERations=1';tr
51 M=OAM_LM_COUNTERS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 14  more memories to test.';echo 'tr 51 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4
ITERations=1';tr 51 M=OAM_OPCODE_CONTROL_PROFILE IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 13  more memories to test.';echo 'tr 51 M=RMEP IS=min IE=4 ITERations=1';tr 51 M=RMEP
IS=min IE=4 ITERations=1;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 12 more memories to test.';echo 'tr 51 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=4
ITERations=1';tr 51 M=DLB_HGT_MEMBER_HW_STATE IS=min IE=4 ITERations=1;echo 'done';
```

#echo 'there are 11 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES_X IS=min IE=4 ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 51 M=EGR_MAX_USED_ENTRIES_Y IS=min IE=4 ITERations=1';tr 51 M=EGR_MAX_USED_ENTRIES_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1';tr 51 M=EGR_MMU_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS_X IS=min IE=4 ITERations=1';tr 51 M=EGR_MMU_REQUESTS_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 51 M=EGR_MMU_REQUESTS_Y IS=min IE=4 ITERations=1';tr 51 M=EGR_MMU_REQUESTS_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1';tr 51 M=EGR_PORT_REQUESTS IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS_X IS=min IE=4 ITERations=1';tr 51 M=EGR_PORT_REQUESTS_X IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 51 M=EGR_PORT_REQUESTS_Y IS=min IE=4 ITERations=1';tr 51 M=EGR_PORT_REQUESTS_Y IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=4 ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_0 IS=min IE=4 ITERations=1;echo 'done';
#echo 'there are 1 more memories to test.';echo 'tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 IS=min IE=4 ITERations=1';tr 51 M=MMU_MTRO_EGRMETERINGBUCKET_MEM_1 IS=min IE=4 ITERations=1;echo 'done';

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr51_bcm56860_a0.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer_appl_intr.c, v1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implements application interrupt lists for JERICHO.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/jer_intr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy84756_fcmap.c,v 1.35 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84756.c
* Purpose:     SDK PHY driver for BCM84756 (FCMAP)
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports    Media                       MAC Interface
*     84756    4       4 10G SFP+                   XFI
*     84757    4       4 10G SFP+/8(4/2) FC            XFI
*     84759    4       4 10G SFP+                   XFI
*
*            OUI     Model Revision
*  BCM84756 18-C0-86 100111 00xx
*  BCM84757 18-C0-86 100111 10xx
*  BCM84759 18-C0-86 100111 01xx
*
*
* Workarounds:
*
* References:
*
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84756_i2c.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_end2end_scheduler.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_end2end_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif.c,v 1.72 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_lif.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_defines.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM macro values for core scheduler
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/core/tdm_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_rx.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* == sbx_rx.h - SBX Packet Receive helper functions ==
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/sbx_rx.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lmcfg.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/lmcfg.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_names.i
* Purpose:     Memory names.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_names.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_elsr.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint QOS Setup example code
*
* copy to /usr/local/sbin location, run bcm.user
*
*  Run script:
*
*  cint cint_qos_elsr.c
*  cint
*  print qos_map_elsr(0);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_elsr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: katana2.h,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       katana2.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/katana2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: upgrade.h,v 1.3 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     upgrade.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/upgrade.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_field.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_field.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_field.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: randaddr.c,v 1.66 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Random index memory test implemented via S-Channel table read/write.
*
* This test function is a variation on memrand for random memory
* testing.  It was requested by Govind to do the following:
*
* Write every word in the memory each pass.
* Write all then read all
* Vary the pattern each write, for example, from all 1s to all 0s.
* For different seeds, to order of writes to the memory should vary.
*
* Randomizing algorithm:
*   Inputs: current value, original seed.
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/randaddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/conqueror/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: api_mode.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       api_mode.h
* Purpose:     API Mode public interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/api_mode.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File: soc_ser_log.c
* Purpose: SER logging using a circular buffer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/soc_ser_log.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_roo.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* This file provides ROO basic functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_roo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000Common.h,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000Common.h : FE2000 Common defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000Common.h
No license file was found, but licenses were detected in source scan.

```
/*
*$Id: hal_ka_auto.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ka_auto.h
No license file was found, but licenses were detected in source scan.

```
/*
 * $Id: ct_tun.c,v 1.44.4.2 Broadcom SDK $
 *
 * $Copyright: (c) 2016 Broadcom.
 * Broadcom Proprietary and Confidential. All rights reserved.$
 *
 * File:        ct_tun.c
 * Purpose:
 * Requires:
 */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/cputrans/ct_tun.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tomahawk_mmu.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tomahawk_oam.c
* Purpose: Maintains all the debug information for mmu
*          feature for tomahawk.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/oam/tomahawk_oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dmaOps.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/dmaOps.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_db.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_pmf_low_level_db.h
No license file was found, but licenses were detected in source scan.

```
/*
* Common [OS-independent] header file for
* Broadcom BCM47XX 10/100Mbps Ethernet Device Driver
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: etc.h,v 1.4 Broadcom SDK $
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/etc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_dgm.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_dgm.c
* Purpose: This file implements techsupport utility for
*          dgm.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/dgm/techsupport_dgm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alpm_128.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    alpm_128.c
* Purpose: Tomahawk Primitives for LPM management in ALPM - Mode for IPv6-128.
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/alpm/alpm_128.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_rate_policer_example.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rate_policer_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmIngressRankerEntryConsole.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmIngressRankerEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu.c,v 1.69.14.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    tmu.c
* Purpose: Caladan3 on TMU drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/tmu.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_egress_modify_tc_per_port.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$3
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_egress_modify_tc_per_port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  Diagram:
* |            -----------                    |
* |           / \   /\   \                   |
* |      CP1 |   \ /    |  SP1            |
* |     Y C20 |    \/     |  S300,C21 Y        |
* |     R C30 |    /\     |  S300,C30 R        |
* |      CP2 |   / \    |  SP2              |
* |     G C10 |  \/   \   |  S300,C21 Y        |
* |           \  VSwitch  /    S300,C10 G        |
* |            -----------                |
*  Simple VSWITCH example, where we have 4 ports (SP1,SP2, CP1,CP2)
*  3 flooding groups (R,G,Y) and 7 Attachment Circuts (C20, C30,...)
```

```
*
* Test Scenario
*
* ./bcm.user
* cd ../../
* cint ../../src/examples/dpp/utility/cint_utils_global.c
* cint ../../src/examples/dpp/utility/cint_utils_multicast.c
* cint ../../src/examples/dpp/utility/cint_utils_vlan.c
* cint ../../src/examples/dpp/cint_vswitch_metro_simple.c
* cint
* vswitch_metro_simple_run(0,200,201,202,203);
* exit;
*
* tx 1 psrc=200 data=0x000000000011000074ddb68f8100012c91000015ffff
*
* /* Received packets on unit 0 should be: */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_metro_simple.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_pack.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       llm_pack.c
* Purpose:    LLM pack and unpack routines for:
*             - llm Control messages
*             - Network Packet headers (PDUs)
*
*
* LLM control messages
*
* LLM messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The LLM control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/shared/llm_pack.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*                                                                             *
*  Revision      :  $Id: falcon_api_uc_common.h 1340 2016-02-04 22:50:01Z kirand $  *
*                                                                             *
*  Description   :  Defines and Enumerations required by Falcon ucode          *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbG2Eplib.h Guadalupe2k Egress Library Public API
*
* <pre>
* ==================================================
* ==  sbG2Eplib.h - Guadalupe2k Egress Library public API
* ==================================================
*
* WORKING REVISION: $Id: sbG2Eplib.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*    sbG2Eplib.h
*
* ABSTRACT:
*
```

```
*     Guadalupe2k Egress Library public API
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     Ning
*
* CREATION DATE:
*
*     15-April-2007
*
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbG2Eplib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm_xmod_api.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/pelib/include/bcm_xmod_api.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  phy8806x_tsc_field_access.c                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs to access Serdes IP Registers and Reg fields            *
*  Revision      :  $Id: phy8806x_tsc_field_access.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
```

```
*      5300 California Avenue                                    *
*      Irvine, CA  92617                                       *
*                                                              *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_field_access_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipfix.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/ipfix.c
* Purpose:     BCMX IP Flow Information Export (IPFIX) APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/ipfix.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* File:       field_em.c
* Purpose:    BCM56960 Field Processor Exact Match functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field_em.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# All Rights Reserved.$
#
```

```
# Firebolt4 Memory Sanity
#
# Note:
# Since this is a subset of the TR3 sanity script, it does not
# clean up the environment after completing.  That is left for the
# calling script to perform.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0
config add mem_scan_enable=0

echo "testsuite: started: Memory sanity for Ranger+ SKUs"
ibodsync off
init soc
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

set rct=false

echo "Running Switching Memory Tests ..."
local name 'echo " $mem"';
local tr50 'tr 50 Memory=$mem';
local tr51 'tr 51 Memory=$mem';
local tr52 'tr 52 Memory=$mem';
local tr50lim 'tr 50 Memory=$mem is=$start ie=$end';
local tr51lim 'tr 51 Memory=$mem is=$start ie=$end';
local tr52lim 'tr 52 Memory=$mem is=$start ie=$end';

init soc;
init misc;
if !"expr $xtport0 + 0" \
   'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; $tr50; $tr51; \
   local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; $tr50; $tr51;'
```

```
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; $tr50; $tr51;'
if !"expr $xtport2 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; $tr50; $tr51;'
if !"expr $xtport3 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; $tr50; $tr51;'
if !"expr $clport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; $tr50; $tr51;'
if !"expr $clport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; $tr50; $tr51; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; $tr50; $tr51;'
if !"expr $xlport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
if !"expr $xlport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
     $tr50 ie=15; $tr51 ie=15;'
# Ranger+
#local mem 'SVM_METER_TABLE'; $name; local range 4095
#for start=0,32767,4096 'expr $start + 2047; local end $?; \
#       $tr50lim; $tr51lim; $tr52lim;'

#local mem 'FP_POLICY_TABLE'; $name;
#for start=0,8191,256 'expr $start + 127; local end $?; \
#       $tr50lim; $tr51lim; $tr52lim;'

#local mem 'FP_COUNTER_TABLE'; $name;
#for start=0,8191,512 'expr $start + 255; local end $?; \
#       $tr50lim; $tr51lim; $tr52lim;'

#local mem 'FP_METER_TABLE'; $name;
```

```
#for start=0,8191,1024 'expr $start + 511; local end $?; \
#       $tr50lim; $tr51lim; $tr52lim;'


#local mem 'QCN_CNM_TIMER_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'BCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_PBM'; $name; $tr50;
local mem 'CPU_PBM_2'; $name; $tr50;
local mem 'CPU_TS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr50; $tr51; $tr52;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr50;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr50; $tr51; $tr52;
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS'; $name; $tr50; $tr51; $tr52;
local mem 'E2E_HOL_STATUS_1'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_COUNTER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_1588_SA'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DSCP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_ING_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_INTF'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MAP_MH'; $name; $tr50; $tr51; $tr52;
local mem 'EGRESS_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MASK_MODBASE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PFC_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr50;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr50;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VFI'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL1'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL2'; $name; $tr50; $tr51; $tr52;
local mem 'EMIRROR_CONTROL3'; $name; $tr50; $tr51; $tr52;
local mem 'EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EPC_LINK_BMAP'; $name; $tr50;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1'; $name; $tr50; $tr51; $tr52;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FC_HEADER_TYPE'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr50; $tr51; $tr52;
local mem 'FP_PORT_METER_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'FP_RANGE_CHECK'; $name; $tr50; $tr51; $tr52;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr50;
local mem 'FP_SLICE_MAP'; $name; $tr50;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_OFFSET'; $name; $tr50; $tr51; $tr52;
local mem 'FT_AGE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'FT_EOP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'FT_L4PORT'; $name; $tr50; $tr51; $tr52;
local mem 'FT_POLICY'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION'; $name; $tr50; $tr51; $tr52;
local mem 'FT_SESSION_IPV6'; $name; $tr50; $tr51; $tr52;
local mem 'GTP_PORT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'HGT_DLB_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr50;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'HG_TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr50;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'HSP_UCQ_FREE'; $name; $tr50; $tr51; $tr52;
local mem 'IARB_TDM_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_CTRL_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'IMIRROR_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'IM_MTP_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_2_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_DVP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EGRMSKBMAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr50;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr50; $tr51; $tr52;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_NLF_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr50;
local mem 'ING_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr50; $tr51; $tr52;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_SVM_TOS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr50;
```

```
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name;
local mem 'ING_UNTAGGED_PHB'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_RANGE'; $name; $tr50; $tr51; $tr52;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr50; $tr51; $tr52;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'L2MC'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr50; $tr51; $tr52;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_MOD_FIFO'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
if !"expr $ipv6_lpm_128b_enable + 0" \
  'local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr50; $tr51; $tr52; \
   local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr50; $tr51; $tr52;'
local mem 'L3_ECMP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ECMP_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr50; $tr51; $tr52;

local mem 'L3_IIF'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_1'; $name; $tr50; $tr51; $tr52;
local mem 'L3_IPMC_REMAP'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_L0_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_L0_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_L0_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_L0_CONFIG'; $name; $tr50; $tr51; $tr52;'
```

```
local mem 'LLS_L0_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_PARENT'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L0_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L0_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L0_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_EF_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_HEADS_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_PARENT'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L1_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L1_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L1_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L1_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_L2_CHILD_STATE1_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
  'local mem 'LLS_L2_CHILD_STATE1'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_L2_CHILD_WEIGHT_CFG'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_CHILD_WEIGHT_WORKING'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_EMPTY_STATE'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_MIN_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_PARENT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_WERR_NEXT'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_L2_XOFF'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
  'local mem 'LLS_PORT_CONFIG_A'; $name; $tr50; $tr51; $tr52;'
```

```
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_CONFIG'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_ERROR'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_HEADS'; $name; $tr50; $tr51; $tr52;
if !"expr $a_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE_A'; $name; $tr50; $tr51; $tr52;'
if !"expr $b_mems + 0" \
   'local mem 'LLS_PORT_PARENT_STATE'; $name; $tr50; $tr51; $tr52;'
local mem 'LLS_PORT_TAILS'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_TDM'; $name; $tr50; $tr51; $tr52;
local mem 'LLS_PORT_WERR_MAX_SC'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr50; $tr51; $tr52;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr50; $tr51; $tr52;
local mem 'LPORT'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_MAC_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'MA_INDEX'; $name; $tr50; $tr51; $tr52;
local mem 'MIRROR_CONTROL'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_CTR'; $name; $tr50; $tr51; $tr52;
local mem 'AGING_EXP'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA0'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA1'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA2'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA3'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA4'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA5'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA6'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA7'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA8'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA9'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA10'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA11'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA12'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA13'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA14'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA15'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA16'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA17'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA18'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA19'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA20'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA21'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA22'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA23'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA24'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA25'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA26'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA27'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA28'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'CBPDATA29'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA30'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA31'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA32'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA33'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA34'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA35'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA36'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA37'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA38'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA39'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA40'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA41'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA42'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA43'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA44'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA45'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA46'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA47'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA48'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA49'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA50'; $name; $tr50; $tr51; $tr52;
local mem 'CBPDATA51'; $name; $tr50; $tr51; $tr52;
local mem 'CCP'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK0'; $name; $tr50; $tr51; $tr52;
local mem 'CELLCHK1'; $name; $tr50; $tr51; $tr52;
local mem 'CELLLINK'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK5'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK6'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK7'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK8'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK9'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK10'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK11'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK12'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK13'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK14'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_CFAP_BANK15'; $name; $tr50; $tr51; $tr52;
local mem 'CHFC_SYSPORT_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_COLOR_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_MC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'CTR_UC_DROP'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'BASE_INDEX_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_MAP_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL0'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL1'; $name; $tr50; $tr51; $tr52;
local mem 'FC_ST_TBL2'; $name; $tr50; $tr51; $tr52;
local mem 'MERGE_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'OFFSET_MAP_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'PFC_ST_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'ST_TRANS_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CNM_RVD_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TBID_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_TOV_TBL'; $name; $tr50; $tr51; $tr52;
local mem 'INTFO_TC2PRI_MAPPING'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO0'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO4'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO5'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO6'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO7'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO8'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO9'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO10'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO11'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO12'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO13'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO14'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO15'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO16'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO17'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO18'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO19'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO20'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO21'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO22'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO23'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO24'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO25'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO26'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO27'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO28'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO29'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO30'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO31'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO32'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MC_FIFO33'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO34'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO35'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO36'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO37'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO38'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO39'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO40'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO41'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO42'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO43'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO44'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO45'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO46'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO47'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO56'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO58'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO60'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO61'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO48_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO49_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO50_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO51_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO52_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO53_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO54_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO55_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_2'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO57_3'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_1'; $name; $tr50; $tr51; $tr52;
local mem 'MC_FIFO59_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_BUCKET_L2_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L0_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L1_MEM'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_MTRO_CONFIG_L2_MEM'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'OVQ_BANK0_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK0_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK1_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK2_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_BANK3_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'OVQ_DISTRIBUTOR_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'PKTHDR'; $name; $tr50; $tr51; $tr52;
local mem 'PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'PQE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_COUNTER'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_CNM_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_QLEN'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_CPQST_TSSLS'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_ENABLE'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_QFBTB'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_QCN_QLEN_SHADOW'; $name; $tr50; $tr51; $tr52;
local mem 'QCN_SITB'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_CFIFO_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_DESCP'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_FREELIST'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PKTLINK'; $name; $tr50; $tr51; $tr52;
local mem 'RDE_PRCP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'REPL_HEAD'; $name; $tr50; $tr51; $tr52;
local mem 'IPMC_VLAN'; $name; $tr50; $tr51; $tr52;
local mem 'RDEHEADER'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QGROUP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDO_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_PORT'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_COUNTER_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_OFFSET_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_Q_TO_QGRP_MAP'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'MMU_THDO_RESUME_QGROUP'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_THDO_RESUME_QUEUE'; $name; $tr50; $tr51; $tr52;
local mem 'UCQ_WP'; $name; $tr50; $tr51; $tr52;
local mem 'WAMULINK'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM0'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM1'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM2'; $name; $tr50; $tr51; $tr52;
local mem 'WAMU_MEM3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_AVG_QSIZE'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_0'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_1'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_3'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_4'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_DROP_CURVE_PROFILE_5'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_PORT_SP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_PORT_SP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_QGROUP_DROP_THD'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_QGROUP_SHARED_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_DEQ'; $name; $tr50; $tr51; $tr52;
local mem 'WRED_UC_QUEUE_DROP_THD_ENQ'; $name; $tr50; $tr51; $tr52;
local mem 'MMU_WRED_UC_QUEUE_TOTAL_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M0'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M1'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M2'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_M3'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr50; $tr51; $tr52;
local mem 'MODPORT_MAP_SW'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_LM_COUNTERS'; $name; $tr50; $tr51; $tr52;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'PHB2_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr50;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr50;
local mem 'PORT_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr50; $tr51; $tr52;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr50; $tr51; $tr52;
local mem 'PORT'; $name; $tr50; $tr51; $tr52;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr50; $tr51; $tr52;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_MOD_PROXY'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP'; $name; $tr50; $tr51; $tr52;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_EGRESS'; $name; $tr50; $tr51; $tr52;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr50; $tr51; $tr52;
local mem 'TCP_FN'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_PG_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_BST_STAT'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CNTRS'; $name; $tr50; $tr51; $tr52;
local mem 'THDI_PORT_SP_CONFIG'; $name; $tr50; $tr51; $tr52;
local mem 'TOS_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TRILL_DROP_STATS'; $name; $tr50;
local mem 'TRUNK_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_CBL_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_GROUP'; $name; $tr50; $tr51; $tr52;
local mem 'TRUNK_MEMBER'; $name; $tr50; $tr51; $tr52;
local mem 'TTL_FN'; $name; $tr50; $tr51; $tr52;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr50; $tr51; $tr52;
local mem 'VFI'; $name; $tr50; $tr51; $tr52;
local mem 'VFI_1'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr50; $tr51; $tr52;
local mem 'VFP_POLICY_TABLE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_MPLS'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE_2'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROFILE'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_STG'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN'; $name; $tr50; $tr51; $tr52;
```

```
local mem 'VLAN_XLATE'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_MOD_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'VOQ_PORT_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP'; $name; $tr50; $tr51; $tr52;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'UDF_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY'; $name; $tr50; $tr51; $tr52;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP'; $name; $tr50; $tr51; $tr52;
local mem 'L3_DEFIP_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'VFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'EFP_TCAM'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr50; $tr51; $tr52;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr50; $tr51; $tr52;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'L3_TUNNEL'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM'; $name; $tr50; $tr51; $tr52;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET'; $name; $tr50; $tr51; $tr52;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr50; $tr51; $tr52;
$done


#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
local name 'echo " $mem"';
local tr71_1 'tr 71 m=$mem s=0 c=0 tse=f slth=t';
local tr71_2 'tr 71 m=$mem s=0 c=0 tse=t slth=t';
local tr71_3 'tr 71 m=$mem s=0 c=0 tse=t slth=f';
local tr71_1lim 'tr 71 m=$mem s=$start c=$count tse=f slth=t';
local tr71_2lim 'tr 71 m=$mem s=$start c=$count tse=t slth=t';
local tr71_3lim 'tr 71 m=$mem s=$start c=$count tse=t slth=f';

init soc
init misc
if !"expr $xtport0 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport0"; $name;  \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport0"; $name; \
     $tr71_1; $tr71_2; \
  local mem "PORT_EHG_TX_TUNNEL_DATA.xtport0"; $name; \
     $tr71_1; $tr71_2;'
if !"expr $xtport1 + 0" \
  'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport1"; $name; \
     $tr71_1; $tr71_2; $tr71_3; \
  local mem "PORT_EHG_RX_TUNNEL_MASK.xtport1"; $name; \
```

```
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport1"; $name; \
        $tr71_1; $tr71_2;'
if !"expr $xtport2 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport2"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport2"; $name; \
        $tr71_1; $tr71_2;'
if !"expr $xtport3 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xtport3"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xtport3"; $name; \
        $tr71_1; $tr71_2;'
if !"expr $clport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.clport0"; $name;\
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.clport0"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport0"; $name; \
        $tr71_1; $tr71_2;'
if !"expr $clport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.clport1"; $name; \
        $tr71_1; $tr71_2; $tr71_3; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.clport1"; $name; \
        $tr71_1; $tr71_2; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.clport1"; $name; \
        $tr71_1; $tr71_2;'
if !"expr $xlport0 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xlport0"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'
if !"expr $xlport1 + 0" \
    'local mem "PORT_EHG_RX_TUNNEL_DATA.xlport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; $tr71_3 c=16; \
    local mem "PORT_EHG_RX_TUNNEL_MASK.xlport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16; \
    local mem "PORT_EHG_TX_TUNNEL_DATA.xlport1"; $name; \
        $tr71_1 c=16; $tr71_2 c=16;'


local mem 'FP_POLICY_TABLE'; $name; local count 127;
```

```
for start=0,8191,256 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

local mem 'FP_COUNTER_TABLE'; $name; local count 255;
for start=0,8191,512 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

local mem 'FP_METER_TABLE'; $name; local count 511;
for start=0,8191,1024 '$tr71_1lim; $tr71_2lim; $tr71_3lim;'

# Reverse SLAM problems
local mem 'AXP_CH_NLF_INPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'AXP_CH_NLF_OUTPUT_COUNTER_TABLE'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP0_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_CLP1_DATA_MEM_0'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XLP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP0_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP1_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP2_DATA_MEM'; $name; $tr71_1; $tr71_2;
local mem 'IBOD_MOOSE_XTP3_DATA_MEM'; $name; $tr71_1; $tr71_2;

local mem 'MPLS_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2;


local mem 'ALTERNATE_EMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'BCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_PBM_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_TS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_MOD_CAPABILITIES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DEST_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_ECMP_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_ECMP_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_PORT_MEMBER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_HGT_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_ETHERTYPE_ELIGIBILITY_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_FLOWSET_TIMESTAMP_PAGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_MEMBERSHIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_GROUP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_HIST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_GROUP_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_LOAD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_INST_QSIZE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBERSHIP_REVERSE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_MEMBER_SW_STATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_OPTIMAL_CANDIDATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_PLA_QUANTIZE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_QUALITY_RESULT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_EXPECTED_LOADING_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DLB_LAG_VLA_MEMBER_IMBALANCE_THRESHOLD'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'DLB_LAG_VLA_QUALITY_MEASURE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'E2E_HOL_STATUS_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_COUNTER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_1588_SA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_AXP_PORT_PROPERTY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_ECN_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DSCP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_DVP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EDB_XMIT_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EHG_QOS_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_FRAGMENT_ID_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_GPP_ATTRIBUTES_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IFP_MOD_FIELDS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_ING_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'EGR_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_IP_TUNNEL_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_INTF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAC_DA_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MAP_MH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGRESS_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MASK_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MIRROR_ENCAP_DATA_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_MAPPING_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_EXP_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PERQ_XMT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PFC_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_PW_INIT_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_QCN_CNM_CONTROL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_PARSE_CONTROL_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_RBRIDGE_NICKNAMES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_TRILL_TREE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_WLAN_ATTRIBUTES'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EMIRROR_CONTROL3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EPC_LINK_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_REDIRECT_EM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FC_HEADER_TYPE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FLOOD_LEARN_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_HG_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_I2E_CLASSID_SELECT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_FIELD_SEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_PORT_METER_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_RANGE_CHECK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_KEY_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_SLICE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FP_STORM_CONTROL_METERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_OFFSET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_AGE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_LAG_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_DST_PORT_CONFIG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EOP_TBL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_CNTR_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_L4PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_POLICY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'FT_SESSION_IPV6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'GTP_PORT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HGT_DLB_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HG_TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'HIGIG_TRUNK_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IARB_TDM_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ICONTROL_OPCODE_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IFP_REDIRECTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IMIRROR_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IM_MTP_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_1588_INGRESS_CTRL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_2_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_DVP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EGRMSKBMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_EN_EFILTER_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_COUNTER_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'ING_FLEX_CTR_COUNTER_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_4'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_5'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_6'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_OFFSET_TABLE_7'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_FLEX_CTR_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_HIGIG_TRUNK_OVERRIDE_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_DSCP_XLATE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EOP_BUFFER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_EXPORT_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_FLOW_RATE_METER_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV4_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_IPV6_MASK_SET_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_IPFIX_SESSION_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_MPLS_EXP_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_NLF_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_OUTER_DOT1P_MAPPING_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE'; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem 'ING_PORT_THROTTLE_ENABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_PW_TERM_SEQ_NUM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_ROUTED_INT_PRI_MAPPING'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SERVICE_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_PRI_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PKT_RES_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_PRI_CNG_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_SVM_TOS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_TRILL_PAYLOAD_PARSE_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_UNTAGGED_PHB'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_RANGE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_VLAN_TAG_ACTION_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'INITIAL_L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'IPV4_IN_IPV6_PREFIX_MATCH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'KNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2MC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_BULK_MATCH_VLANS_PORT_B'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L2_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L2_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
local mem 'L2_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
local mem 'L2_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_MOD_FIFO'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
if !"expr $ipv6_lpm_128b_enable + 0" \
  'local mem 'L3_DEFIP_PAIR_128_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3; \
   local mem 'L3_DEFIP_PAIR_128_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;'
local mem 'L3_ECMP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ECMP_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_1'; $name; $tr71_1 c=64000; $tr71_2 c=64000; $tr71_3 c=64000;
local mem 'L3_ENTRY_1'; $name; $tr71_1 s=64000; $tr71_2 s=64000; $tr71_3 s=64000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 c=32000; $tr71_2 c=32000; $tr71_3 c=32000;
local mem 'L3_ENTRY_2'; $name; $tr71_1 s=32000; $tr71_2 s=32000; $tr71_3 s=32000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 c=16000; $tr71_2 c=16000; $tr71_3 c=16000;
local mem 'L3_ENTRY_4'; $name; $tr71_1 s=16000; $tr71_2 s=16000; $tr71_3 s=16000;
local mem 'L3_ENTRY_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_ENTRY_4_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IIF'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_IPMC_REMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'LPORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_MAC_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MA_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MIRROR_CONTROL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M0'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_M3'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_MIRROR'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MODPORT_MAP_SW'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'MPLS_ENTRY_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MPLS_ENTRY_2_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NONUCAST_TRUNK_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'NUM_QCN_CNM_RECEIVED'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_LM_COUNTERS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'OAM_OPCODE_CONTROL_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PHB2_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_BRIDGE_MIRROR_BMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_CBL_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_LAG_FAILOVER_SET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MAC_LIMIT_COUNT_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT_TRUNK_MAC_LIMIT_CONTROL_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PORT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'PTP_LABEL_RANGE_PROFILE_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_FLOW_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RTAG7_PORT_BASED_HASH'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'RX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SERVICE_QUEUE_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_MOD_PROXY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_TRUNK_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_EGRESS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SRC_MODID_INGRESS_BLOCK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SYSTEM_CONFIG_TABLE_MODBASE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TCP_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TOS_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRILL_DROP_STATS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_CBL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_GROUP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TRUNK_MEMBER'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TTL_FN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'TX_PROT_GROUP_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_HGI_BITMAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_MCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UNKNOWN_UCAST_BLOCK_MASK'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFI_1'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_A'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VFP_HASH_FIELD_BMAP_TABLE_B'; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem 'VFP_POLICY_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_MPLS'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_COUNT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_OR_VFI_MAC_LIMIT'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROFILE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_PROTOCOL_DATA'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_DATA_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_STG'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_XLATE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_MOD_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VOQ_PORT_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EGR_MPLS_VC_AND_SWAP_LABEL_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'EP_VLAN_XLATE_1_HIT_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'ING_L3_NEXT_HOP_ATTRIBUTE_1_INDEX'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_ING_L3_NEXT_HOP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'INITIAL_PROT_NHI_TABLE'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'SOURCE_VP_ATTRIBUTES_2'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'CPU_COS_MAP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'UDF_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L2_USER_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_DEFIP_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'L3_TUNNEL'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'MY_STATION_TCAM_ENTRY_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'VFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'EFP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_GLOBAL_MASK_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'FP_TCAM'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128'; $name; $tr71_1; $tr71_2; $tr71_3;
#local mem 'L3_DEFIP_PAIR_128_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET'; $name; $tr71_1; $tr71_2; $tr71_3;
local mem 'VLAN_SUBNET_ONLY'; $name; $tr71_1; $tr71_2; $tr71_3;
$done

# Show status
date
tl

set rct=true

# Note:
```

Since this is a subset of the TR3 sanity script, it does not
clean up the environment after completing. That is left for the
calling script to perform.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/ranger_plus_mem.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmutility.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmutility.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: bm3200_init.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ==
* == bm3200_init.c - BM3200 Initialization ==
* ==
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/bm3200_init.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: proxy.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/proxy.c
No license file was found, but licenses were detected in source scan.

/**
****
* *

```
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns_public.h 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                                                  *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables                       *
*                                                                                                  *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                     *
*  No portions of this material may be reproduced in any form without                              *
*  the written permission of:                                                                      *
*      Broadcom Corporation                                                                        *
*      5300 California Avenue                                                                      *
*      Irvine, CA  92617                                                                           *
*                                                                                                  *
*  All information contained in this document is Broadcom Corporation                              *
*  company private proprietary, and trade secret.                                                  *
*                                                                                                  *
************************************************************************************************
************************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/public/falcon_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qsgmii65.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     qsgmii65.c
* Purpose:
*     Fiber driver for serdes 65nm Low Power using internal Serdes PHY.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     phy_qsgmii65_notify_duplex
*     phy_qsgmii65_notify_speed
*     phy_qsgmii65_notify_stop
*     phy_qsgmii65_notify_resume
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/qsgmii65.c
No license file was found, but licenses were detected in source scan.

This program is the proprietary software of Broadcom Corporation and/or its
reasonable efforts to protect the confidentiality thereof, and to use this

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/Makefile
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/alg_kbp/xpt/pcie/device_driver/Makefile
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmQueueArrivalsEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmQueueArrivalsEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: valkyrie.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	valkyrie.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/valkyrie.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: wc40_extra.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	wc40_extra.h
* Purpose:	non-register Macro, data structures and function prototypes for WC driver.
*
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40_extra.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ptp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ptp.c
* Purpose: IEEE1588 (PTP) Support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ptp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.418 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Petra-B PORTS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_fabric_source_routed_cell.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC SOURCE ROUTED CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_fabric_source_routed_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipv6_tunnel_term.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_ipv6_tunnel_term.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/mcast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pscan.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pscan.c
* Purpose:     uKernel based port scan common driver.
*
* Notes:      PSCAN functions will return SOC_E_UAVAIL unless these conditions
*             are true:
*               - BCM_CMICM_SUPPORT
*               - soc_feature_cmicm
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/pscan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $id cint_end_tlv.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* End TLV workaround:
* Add a value to the ACE VAR to use the End TLV workaround for OAM CCM packets with
* port/interface status TLV fields.
*
* In order to use port/interface status TLV in received OAM CCM packets, call:
* > cint utility/cint_utils_field.c
```

```
* > cint cint_field_oam_bfd_advanced.c
* > cint
* > field_oam_advanced_features(unit);
*
* In order to use BFD flags events when the C-Flag may be set in received PDUs, call:
* > cint utility/cint_utils_field.c
* > cint cint_field_oam_bfd_advanced.c
* > cint
* > field_bfd_advanced_features(unit,<hw-trap-code>);
* where <hw-trap-code> is dependent on the traffic type (BFDoIPv4, BFDoPWE, etc.)
* and can be found in the traps application notes under appendix A.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_oam_bfd_advanced.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: utils_fe1600_card.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       utils_fe1600_card.h
* Purpose:    fe1600 card Utilities Header.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dfe/utils_fe1600_card.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cmdlist.c
* Purpose:    List of commands available in DPP mode
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnxf/diag_dnxf_cmdlist.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_cmds.c,v 1.52.10.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       caladan3_cmds.c
* Purpose:    Caladan3-specific diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/caladan3_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_error.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_error.c
* Purpose:    CINT error handling functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_error.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: portmod_phy_intf_map.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/portmod/pms/portmod_phy_intf_map.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_sesto_functions.c                                *
*  Created On    :  29/04/2013                                              *
*  Created By    :  Kiran Divakar                                           *
```

```
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :  $Id: merlin_sesto_functions.c 869 2015-01-23 00:24:44Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                                          *
******************************************************************************
******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: populate.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       populate.c
* Purpose:     Stacking related functions
*              Populate CPUDB based on board hardware
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/stack/populate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compat_531.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-5.3.0 routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/bcm/compat/compat_531.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpCrTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpCrTableEntry.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
#local mem CLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem CPU_PBM;                    $name; $tr50; $tr51; $tr52;
#local mem CPU_PBM_2;                    $name; $tr50; $tr51; $tr52;
local mem CPU_TS_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem CXXPORT_WC_UCMEM_DATA0;                    $name; $tr50; $tr51; $tr52;
#local mem CXXPORT_WC_UCMEM_DATA1;                    $name; $tr50; $tr51; $tr52;
#local mem CXXPORT_WC_UCMEM_DATA2;                    $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS; $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_MEMBER_SW_STATE; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT; $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER; $name; $tr50; $tr51; $tr52;
local mem DROP_VECTOR_MASK; $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE; $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS; $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1; $name; $tr50; $tr51; $tr52;
local mem EFFECTIVE_PHB_SELECT; $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE; $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE; $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE; $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM; $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA; $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL; $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI; $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE; $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP; $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE; $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE; $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1; $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL; $name; $tr50; $tr51; $tr52;
local mem EGR_EFFECTIVE_PHB_SELECT; $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX; $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE; $name; $tr50; $tr51; $tr52;
local mem EGR_EP_REDIRECT_EM_MTP_INDEX; $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING; $name; $tr50; $tr51; $tr52;
#local mem EGR_FCOE_CONTROL_1; $name; $tr50; $tr51; $tr52;
local mem EGR_FC_HEADER_TYPE; $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0; $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1; $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2; $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3; $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0; $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FORCE_REGEN_CRC_DST;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FORCE_REGEN_CRC_SRC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_LPORT_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MULTICAST_MAC_ADDR;                    $name; $tr50; $tr51; $tr52;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_NETWORK_PRUNE_CONTROL;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_OLP_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_OLP_CONFIG_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_DGPP_CONFIG_1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING_1;                  $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                          $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                   $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                  $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                                $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                                       $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                          $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                                $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                           $name; $tr50; $tr51; $tr52;
#local mem EGR_QCN_CNM_CONTROL_TABLE;                     $name; $tr50; $tr51; $tr52;
#local mem EGR_SER_FIFO;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                            $name; $tr50; $tr51; $tr52;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                      $name; $tr50; $tr51; $tr52;
#local mem EGR_TRILL_PARSE_CONTROL;                       $name; $tr50; $tr51; $tr52;
#local mem EGR_TRILL_PARSE_CONTROL_2;                     $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_TREE_PROFILE;                         $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                                        $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_FIELDS_PROFILE;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_PRI_MAP;                                $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                                       $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                        $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                              $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                                $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                               $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VSAN_INTPRI_MAP;                            $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                                $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                               $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                               $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                               $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                                   $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                               $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                             $name; $tr50; $tr51; $tr52;
```

```
#local mem EPC_LINK_BMAP;                    $name; $tr50; $tr51; $tr52;
local mem EP_CTC_RES_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem EP_REDIRECT_EM_MTP_INDEX;          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;              $name; $tr50; $tr51; $tr52;
#local mem EXT_TM_MANAGED_PORT;              $name; $tr50; $tr51; $tr52;
local mem FCOE_HOP_COUNT_FN;                 $name; $tr50; $tr51; $tr52;
local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                  $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;              $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                      $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;              $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;             $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                  $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                 $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                 $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                    $name; $tr50; $tr51; $tr52;
#local mem FP_SLICE_KEY_CONTROL;             $name; $tr50; $tr51; $tr52;
#local mem FP_SLICE_MAP;                     $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS;           $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                           $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                   $name; $tr50; $tr51; $tr52;
#local mem HG_TRUNK_FAILOVER_ENABLE;         $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_SET;             $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                   $name; $tr50; $tr51; $tr52;
#local mem HIGIG_TRUNK_CONTROL;              $name; $tr50; $tr51; $tr52;
local mem IARB_ING_PORT_TABLE;               $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                     $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;            $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT0;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT1;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT2;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM0_DSCP_MAP_PORT3;           $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT0;           $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT1;           $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT2;           $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_PRI_MAP_PORT3;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT0;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT1;           $name; $tr50; $tr51; $tr52;
local mem IDB_OBM1_DSCP_MAP_PORT2;           $name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM1_DSCP_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_PRI_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_PRI_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_PRI_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM1_PRI_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM2_DSCP_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM2_PRI_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM3_DSCP_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM3_PRI_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM4_DSCP_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM4_DSCP_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM4_DSCP_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM4_DSCP_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_ETAG_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM4_PRI_MAP_PORT3;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT0;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT1;          $name; $tr50; $tr51; $tr52;
local mem IDB_OBM5_DSCP_MAP_PORT2;          $name; $tr50; $tr51; $tr52;
```

```
local mem IDB_OBM5_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_PRI_MAP_PORT0;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_PRI_MAP_PORT1;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_PRI_MAP_PORT2;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM5_PRI_MAP_PORT3;                  $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM6_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT0;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT1;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT2;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM6_PRI_MAP_PORT3;                  $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM7_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT0;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT1;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT2;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM7_PRI_MAP_PORT3;                  $name; $tr50; $tr51; $tr52;
local mem IDB_OBM8_DSCP_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM8_DSCP_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM8_DSCP_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
local mem IDB_OBM8_DSCP_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_ETAG_MAP_PORT0;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_ETAG_MAP_PORT1;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_ETAG_MAP_PORT2;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_ETAG_MAP_PORT3;                    $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_PRI_MAP_PORT0;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_PRI_MAP_PORT1;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_PRI_MAP_PORT2;                  $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM8_PRI_MAP_PORT3;                  $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                  $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
```

```
local mem IM_MTP_INDEX;                                $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                       $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                   $name; $tr50; $tr51; $tr52;
#local mem ING_DEST_PORT_ENABLE;                       $name; $tr50; $tr51; $tr52;
local mem ING_DNAT_ADDRESS_TYPE;                       $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                             $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                               $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                              $name; $tr50; $tr51; $tr52;
#local mem ING_EN_EFILTER_BITMAP;                      $name; $tr50; $tr51; $tr52;
local mem ING_ETAG_PCP_MAPPING;                        $name; $tr50; $tr51; $tr52;
local mem ING_FC_HEADER_TYPE;                          $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                 $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                        $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;            $name; $tr50; $tr51; $tr52;
#local mem ING_IPV6_MC_RESERVED_ADDRESS;               $name; $tr50; $tr51; $tr52;
local mem ING_L3_NEXT_HOP;                             $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                        $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING_1;                      $name; $tr50; $tr51; $tr52;
local mem ING_NETWORK_PRUNE_CONTROL;                   $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;               $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                         $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                               $name; $tr50; $tr51; $tr52;
local mem ING_SNAT;                                    $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_DATA_ONLY;                          $name; $tr50; $tr51; $tr52;
```

```
local mem ING_SNAT_HIT_ONLY; $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_ONLY; $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PKT_PRI_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PKT_RES_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PORT_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_SVM_PRI_CNG_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_SVM_TOS_MAP; $name; $tr50; $tr51; $tr52;
#local mem ING_TRILL_PARSE_CONTROL; $name; $tr50; $tr51; $tr52;
#local mem ING_TRILL_PAYLOAD_PARSE_CONTROL; $name; $tr50; $tr51; $tr52;
local mem ING_UNTAGGED_PHB; $name; $tr50; $tr51; $tr52;
local mem ING_VFT_PRI_MAP; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE; $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A; $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B; $name; $tr50; $tr51; $tr52;
local mem ING_VSAN; $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1; $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_OFFSET_TABLE; $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE; $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM; $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE; $name; $tr50; $tr51; $tr52;
local mem KNOWN_MCAST_BLOCK_MASK; $name; $tr50; $tr51; $tr52;
local mem L2MC; $name; $tr50; $tr51; $tr52;
#local mem L2_BULK_MATCH_DATA; $name; $tr50; $tr51; $tr52;
#local mem L2_BULK_MATCH_MASK; $name; $tr50; $tr51; $tr52;
#local mem L2_BULK_REPLACE_DATA; $name; $tr50; $tr51; $tr52;
#local mem L2_BULK_REPLACE_MASK; $name; $tr50; $tr51; $tr52;
local mem L2_ENDPOINT_ID; $name; $tr50; $tr51; $tr52;
local mem L2X; $name; $tr50; $tr51; $tr52;
#local mem L2_ENTRY_ISS_LP; $name; $tr50; $tr51; $tr52;
#local mem L2_ENTRY_LP; $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY; $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC; $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY; $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY; $name; $tr50; $tr51; $tr52;
#local mem L2_LEARN_INSERT_FAILURE; $name; $tr50; $tr51; $tr52;
local mem L2_MOD_FIFO; $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY; $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY; $name; $tr50; $tr51; $tr52;
```

```
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_ECC;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_IPV4;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_IPV4_1;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_IPV6_128;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_IPV6_64;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_IPV6_64_1;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_ALPM_RAW;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr50; $tr51; $tr52;
#local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr50; $tr51; $tr52;
#local mem L3_ENTRY_ISS_LP;                    $name; $tr50; $tr51; $tr52;
#local mem L3_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                    $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_CHILD_WEIGHT_CFG_CNT;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_HEADS_TAILS_1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_HEADS_TAILS_2;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
```

```
local mem LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L0_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L0_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_L0_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem LLS_L1_ACT_MIN;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L1_ACT_SHAPER;                      $name; $tr50; $tr51; $tr52;
local mem LLS_L1_ACT_XON;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CHILD_WEIGHT_CFG_CNT;            $name; $tr50; $tr51; $tr52;
local mem LLS_L1_CONFIG;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_L1_HEADS_TAILS_1;                   $name; $tr50; $tr51; $tr52;
local mem LLS_L1_HEADS_TAILS_2;                   $name; $tr50; $tr51; $tr52;
local mem LLS_L1_MC_XOFF;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L1_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L1_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem LLS_L1_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_L1_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ACT_ENQ;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ACT_MIN;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ACT_SHAPER;                      $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ACT_XON;                         $name; $tr50; $tr51; $tr52;
local mem LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem LLS_L2_CHILD_WEIGHT_CFG_CNT;            $name; $tr50; $tr51; $tr52;
local mem LLS_L2_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_L2_MC_CHILD_WEIGHT_CFG_CNT;         $name; $tr50; $tr51; $tr52;
#local mem LLS_L2_MC_XOFF;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L2_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem LLS_L2_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_L2_SHAPER_STATE_MAX;                $name; $tr50; $tr51; $tr52;
local mem LLS_L2_SHAPER_STATE_MIN;                $name; $tr50; $tr51; $tr52;
local mem LLS_L2_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem LLS_L2_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_HEADS;                         $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_SEQ_NUM;                       $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_TAILS;                         $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_WERR_MAX_SC;                   $name; $tr50; $tr51; $tr52;
local mem LLS_PORT_XOFF;                          $name; $tr50; $tr51; $tr52;
local mem LLS_S1_CHILD_STATE;                     $name; $tr50; $tr51; $tr52;
local mem LLS_S1_CHILD_WEIGHT_CFG_CNT;            $name; $tr50; $tr51; $tr52;
local mem LLS_S1_CONFIG;                          $name; $tr50; $tr51; $tr52;
local mem LLS_S1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem LLS_S1_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem LLS_S1_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem LLS_S1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem LLS_S1_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
```

```
local mem LLS_S1_XOFF;                                  $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                                  $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                                  $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                                  $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                                  $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                                  $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CCP_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI0_BITMAP;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI0_STACK;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI1_BITMAP;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CFAPI1_STACK;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_S1_ST_TB;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                                  $name; $tr50; $tr51; $tr52;
#local mem MMU_INTFI_XPIPE_FC_MAP_TBS1;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                                  $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MAPPER_X_LSB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MAPPER_Y_LSB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_S1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_QGROUP_TICKET;                          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_QUEUE_TICKET;                           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                       $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                          $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                 $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;             $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;         $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;         $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;            $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                                  $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                                  $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                                  $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                                  $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                                  $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                              $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                             $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                          $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                          $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                          $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                          $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                      $name; $tr50; $tr51; $tr52;
```

```
local mem MODPORT_MAP_SW;                                   $name; $tr50; $tr51; $tr52;
#local mem MPLS_ENTROPY_LABEL_DATA;                                 $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTRY;                                 $name; $tr50; $tr51; $tr52;
#local mem MULTIPASS_LOOPBACK_BITMAP;                                 $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                                  $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                                 $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                                 $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                                 $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                                 $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                                 $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                                 $name; $tr50; $tr51; $tr52;
local mem OP_UC_QGROUP_DROP_STATE;                                 $name; $tr50; $tr51; $tr52;
local mem OP_UC_QGROUP_MINOK;                                 $name; $tr50; $tr51; $tr52;
local mem OP_UC_QUEUE_DROP_STATE;                                 $name; $tr50; $tr51; $tr52;
local mem OP_UC_QUEUE_MINOK;                                 $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                                 $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                                 $name; $tr50; $tr51; $tr52;
#local mem PORT_BRIDGE_BMAP;                                 $name; $tr50; $tr51; $tr52;
#local mem PORT_BRIDGE_MIRROR_BMAP;                                 $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE;                                 $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                                 $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                                 $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                                 $name; $tr50; $tr51; $tr52;
local mem PTP_LABEL_RANGE_PROFILE_TABLE;                                 $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                                 $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                                 $name; $tr50; $tr51; $tr52;
#local mem RH_ECMP_DROPS;                                 $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                                 $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                                 $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                                 $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                                 $name; $tr50; $tr51; $tr52;
#local mem RH_LAG_DROPS;                                 $name; $tr50; $tr51; $tr52;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                                 $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                                 $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                                 $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                                 $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                                 $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                                 $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE_1;                                 $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SER_ACC_TYPE_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                                 $name; $tr50; $tr51; $tr52;
```

```
#local mem SER_RESULT_0;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_1;                    $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_DATA_0;               $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_DATA_1;               $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_EXPECTED_0;           $name; $tr50; $tr51; $tr52;
#local mem SER_RESULT_EXPECTED_1;           $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;           $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;         $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                        $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                      $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                 $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;          $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP;             $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;   $name; $tr50; $tr51; $tr52;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;        $name; $tr50; $tr51; $tr52;
local mem SVM_MACROFLOW_INDEX_TABLE;        $name; $tr50; $tr51; $tr52;
local mem SVM_DBG_02;                       $name; $tr50; $tr51; $tr52;
local mem SVM_DBG_01;                       $name; $tr50; $tr51; $tr52;
local mem SVM_DBG_03;                       $name; $tr50; $tr51; $tr52;
local mem SVM_METER_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem SVM_OFFSET_TABLE;                 $name; $tr50; $tr51; $tr52;
local mem SVM_POLICY_TABLE;                 $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;              $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;      $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                           $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;         $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;            $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;               $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;           $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;           $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;            $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                           $name; $tr50; $tr51; $tr52;
#local mem TRILL_DROP_STATS;                $name; $tr50; $tr51; $tr52;
local mem TRUNK_BITMAP;                     $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                      $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                     $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                           $name; $tr50; $tr51; $tr52;
local mem TX_PROT_GROUP_1_1_TABLE;          $name; $tr50; $tr51; $tr52;
local mem TX_PROT_GROUP_1_TABLE;            $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;  $name; $tr50; $tr51; $tr52;
```

```
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VRF;                    $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EARB_FLEX_OPCODE;                    $name; $tr50; $tr51; $tr52;
#local mem EDB_1DBG_B;                    $name; $tr50; $tr51; $tr52;
#local mem EINITBUF_PACKET_BUFFER0;                    $name; $tr50; $tr51; $tr52;
#local mem EINITBUF_PACKET_BUFFER1;                    $name; $tr50; $tr51; $tr52;
#local mem EINITBUF_PACKET_BUFFER2;                    $name; $tr50; $tr51; $tr52;
#local mem EINITBUF_PACKET_BUFFER3;                    $name; $tr50; $tr51; $tr52;
#local mem EINITBUF_PACKET_BUFFER4;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem IARB_FLEX_OPCODE;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem ING_PBI_DEBUG_0_HI;                    $name; $tr50; $tr51; $tr52;
#local mem ING_PBI_DEBUG_0_LO;                    $name; $tr50; $tr51; $tr52;
#local mem ING_PBI_DEBUG_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER0;                    $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER1;                    $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER2;                    $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER3;                    $name; $tr50; $tr51; $tr52;
#local mem IPARS_PACKET_BUFFER4;                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                    $name; $tr50; $tr51; $tr52;
#local mem LLS_S1_L0_LOOKUP;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP;                    $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                    $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PBE_DEBUG_0;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem IARB_IPAD_DEBUG;                    $name; $tr50; $tr51; $tr52;
#local mem IARB_MH_DEBUG;                    $name; $tr50; $tr51; $tr52;
#local mem LLS_S1_NEXT;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_BUCKET_S1_MEM_0;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem RDB_BANK_0_0;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_0_1;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_1_0;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_1_1;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_2_0;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_2_1;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_3_0;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_BANK_3_1;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_CEL;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_CONTEXT;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_CXT_AB;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_CXT_CD;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_FCP_0;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_FCP_1;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_FCP_2;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_FCP_3;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_PKT;                    $name; $tr50; $tr51; $tr52;
#local mem RDB_QUEUE;                    $name; $tr50; $tr51; $tr52;
#---------------------------- VENDOR  memories-------------------------------------------------------------------
#local mem ARB_ANC_OP_WITH_CELL_DISABLE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFPMOD_CPU_DMA_HDR;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFPPARS_OUTBUS_0;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem DOP_EFPPARS_OUTBUS_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFPPARS_OUTBUS_2;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFPPARS_OUTBUS_3;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFPPARS_OUTBUS_4;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EFP_ALL_SLICE_POLICY_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EGR_VLAN_XLATE_HIT_INDEX_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EGR_VLAN_XLATE_HIT_INDEX_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EGR_VLAN_XLATE_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EGR_VLAN_XLATE_KEY_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0;                    $name; $tr50;
$tr51; $tr52;
#local mem DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0;                    $name; $tr50; $tr51;
$tr52;
#local mem DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0;                    $name; $tr50; $tr51;
$tr52;
#local mem DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1;                    $name; $tr50; $tr51;
$tr52;
#local mem DOP_ENDPOINT_QUEUE_MAP_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ENDPOINT_QUEUE_MAP_KEY_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_HG_TRUNK_MEMBER_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_IFP_SLICE_POLICY_INDEX_TABLE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ING_DNAT_ADDRESS_HIT_INDEX_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ING_DNAT_ADDRESS_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0;                    $name; $tr50;
$tr51; $tr52;
#local mem DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE;                    $name; $tr50; $tr51;
$tr52;
#local mem DOP_IRSEL2_L3_ECMP_INDEX_TABLE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ISW1_IN_BUS_TABLE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_ISW1_OUT_BUS_TABLE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENDPOINT_ID_HIT_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENDPOINT_ID_KEY;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENTRY_HIT_INDEX_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENTRY_HIT_INDEX_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENTRY_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L2_ENTRY_KEY_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L3_ENTRY_HIT_INDEX_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L3_ENTRY_HIT_INDEX_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L3_ENTRY_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_L3_ENTRY_KEY_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_MPLS_ENTRY_HIT_INDEX_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_MPLS_ENTRY_HIT_INDEX_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_MPLS_ENTRY_KEY_0;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_MPLS_ENTRY_KEY_1;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_RTAG7_HASH_KEY;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_RTAG7_HASH_VALUE;                    $name; $tr50; $tr51; $tr52;
#local mem DOP_TRUNK_MEMBER_INDEX;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem DOP_UDF_TCAM;                                $name; $tr50; $tr51; $tr52;
#local mem DOP_VFP_HIT_STATUS;                          $name; $tr50; $tr51; $tr52;
#local mem DOP_VLAN_XLATE_HIT_INDEX_0;                  $name; $tr50; $tr51; $tr52;
#local mem DOP_VLAN_XLATE_HIT_INDEX_1;                  $name; $tr50; $tr51; $tr52;
#local mem DOP_VLAN_XLATE_KEY_0;                        $name; $tr50; $tr51; $tr52;
#local mem DOP_VLAN_XLATE_KEY_1;                        $name; $tr50; $tr51; $tr52;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo 'Running Table DMA Tests ...';
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CLPORT_WC_UCMEM_DATA;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CPU_PBM;                                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CPU_PBM_2;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem CXXPORT_WC_UCMEM_DATA0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CXXPORT_WC_UCMEM_DATA1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem CXXPORT_WC_UCMEM_DATA2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DLB_HGT_MEMBER_SW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DROP_VECTOR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFFECTIVE_PHB_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?BCM56560_A0 \
'local mem EFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem EGR_1588_SA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EFFECTIVE_PHB_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EP_REDIRECT_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_ETAG_PCP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_FCOE_CONTROL_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FC_HEADER_TYPE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FORCE_REGEN_CRC_DST;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FORCE_REGEN_CRC_SRC;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_LPORT_PROFILE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_CREDIT_LIMIT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_3;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;        $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem EGR_MTU;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MULTICAST_MAC_ADDR;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_NAT_PACKET_EDIT_INFO;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_NETWORK_PRUNE_CONTROL;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_OLP_CONFIG_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_OLP_CONFIG_2;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING_1;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_QCN_CNM_CONTROL_TABLE;               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SUBPORT_TAG_DOT1P_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_TRILL_PARSE_CONTROL;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_TRILL_PARSE_CONTROL_2;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_TREE_PROFILE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_FIELDS_PROFILE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_PRI_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;          $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EP_CTC_RES_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EP_REDIRECT_EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EXT_TM_MANAGED_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FC_MAP_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56069_B0 \
'local mem FP_GM_FIELDS;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem FP_HG_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_SLICE_KEY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_SLICE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
if !$?BCM56069_B0 \
'local mem FP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem GTP_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HIGIG_TRUNK_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem IARB_MAIN_TDM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM0_DSCP_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_PRI_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM1_DSCP_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_PRI_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_PRI_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_PRI_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM1_PRI_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM2_DSCP_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM2_DSCP_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM2_DSCP_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM2_DSCP_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_PRI_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_PRI_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_PRI_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM2_PRI_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM3_DSCP_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM3_DSCP_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM3_DSCP_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM3_DSCP_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_ETAG_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_ETAG_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_ETAG_MAP_PORT2;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_ETAG_MAP_PORT3;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_PRI_MAP_PORT0;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_PRI_MAP_PORT1;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM3_PRI_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM3_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM4_DSCP_MAP_PORT0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM4_DSCP_MAP_PORT1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM4_DSCP_MAP_PORT2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM4_DSCP_MAP_PORT3;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_ETAG_MAP_PORT0;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_ETAG_MAP_PORT1;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_ETAG_MAP_PORT2;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_ETAG_MAP_PORT3;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM4_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM5_DSCP_MAP_PORT3;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT0;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT1;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT2;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_ETAG_MAP_PORT3;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM5_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM6_DSCP_MAP_PORT3;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT0;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT1;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT2;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_ETAG_MAP_PORT3;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_PRI_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_PRI_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_PRI_MAP_PORT2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM6_PRI_MAP_PORT3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT2;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM7_DSCP_MAP_PORT3;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT0;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT1;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT2;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_ETAG_MAP_PORT3;             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT0;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT1;          $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem IDB_OBM7_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM7_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IDB_OBM8_DSCP_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_ETAG_MAP_PORT0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_ETAG_MAP_PORT1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_ETAG_MAP_PORT2;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_ETAG_MAP_PORT3;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM8_PRI_MAP_PORT3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_DEST_PORT_ENABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DNAT_ADDRESS_TYPE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_EN_EFILTER_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FC_HEADER_TYPE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_NETWORK_PRUNE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SVM_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_DOUBLE_WIDE_TABLE;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_OFFSET_TABLE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_BULK_MATCH_DATA;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_BULK_MATCH_MASK;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_BULK_REPLACE_DATA;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_BULK_REPLACE_MASK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_ENTRY_ISS_LP;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_ENTRY_LP;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY_ECC;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L2_LEARN_INSERT_FAILURE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_ECC;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_HIT_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_IPV4;                       $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_IPV4_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_IPV6_128;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_IPV6_64;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_IPV6_64_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_ALPM_RAW;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_DEFIP_AUX_SCRATCH;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_ENTRY_ISS_LP;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem L3_ENTRY_LP;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_CHILD_STATE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_CHILD_WEIGHT_CFG_CNT;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_ERROR;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_HEADS_TAILS_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_HEADS_TAILS_2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_MIN_NEXT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_WERR_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L0_XOFF;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_ACT_MIN;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_ACT_SHAPER;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_ACT_XON;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CHILD_STATE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CHILD_WEIGHT_CFG_CNT;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_ERROR;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_HEADS_TAILS_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_HEADS_TAILS_2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_MC_XOFF;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_MIN_NEXT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_WERR_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L1_XOFF;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_ACT_ENQ;                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem LLS_L2_ACT_MIN;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_ACT_SHAPER;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_ACT_XON;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_CHILD_STATE1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_CHILD_WEIGHT_CFG_CNT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_ERROR;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_MC_CHILD_WEIGHT_CFG_CNT;                   $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem LLS_L2_MC_XOFF;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_MIN_NEXT;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_SHAPER_STATE_MAX;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_SHAPER_STATE_MIN;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_WERR_NEXT;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_L2_XOFF;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_HEADS;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_SEQ_NUM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_TAILS;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_WERR_MAX_SC;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_PORT_XOFF;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_CHILD_STATE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_CHILD_WEIGHT_CFG_CNT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_ERROR;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_HEADS_TAILS;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_PARENT_STATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_WERR_MAX_SC;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem LLS_S1_XOFF;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CFAPI0_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAPI0_STACK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAPI1_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAPI1_STACK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_S1_ST_TB;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_INTFI_XPIPE_FC_MAP_TBS1;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MAPPER_X_LSB;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MAPPER_Y_LSB;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_2;             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_MTRO_BUCKET_L2_MEM_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_S1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;             $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;              $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_QGROUP_TICKET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_QUEUE_TICKET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MPLS_ENTROPY_LABEL_DATA;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MULTIPASS_LOOPBACK_BITMAP;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem OP_UC_QGROUP_DROP_STATE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem OP_UC_QGROUP_MINOK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem OP_UC_QUEUE_DROP_STATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem OP_UC_QUEUE_MINOK;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PORT_BRIDGE_BMAP;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem PORT_BRIDGE_MIRROR_BMAP;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem PTP_LABEL_RANGE_PROFILE_TABLE;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RH_ECMP_DROPS;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RH_LAG_DROPS;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;      $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_ACC_TYPE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_DATA_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SUBPORT_TAG_SGPP_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_MACROFLOW_INDEX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_DBG_02;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_DBG_01;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_DBG_03;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_OFFSET_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SVM_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_PROT_GROUP_1_1_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_PROT_GROUP_1_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?BCM56560_A0 \
'local mem VFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;'
local mem VLAN_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EARB_FLEX_OPCODE;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EDB_1DBG_B;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EINITBUF_PACKET_BUFFER0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EINITBUF_PACKET_BUFFER1;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EINITBUF_PACKET_BUFFER2;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EINITBUF_PACKET_BUFFER3;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EINITBUF_PACKET_BUFFER4;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                                $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_FLEX_OPCODE;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_0_HI;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_0_LO;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_PBI_DEBUG_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER1;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER2;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER3;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IPARS_PACKET_BUFFER4;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_S1_L0_LOOKUP;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PBE_DEBUG_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_IPAD_DEBUG;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IARB_MH_DEBUG;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LLS_S1_NEXT;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_BUCKET_S1_MEM_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                                $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem RDB_BANK_0_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_0_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_1_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_1_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem RDB_BANK_2_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_2_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_3_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_BANK_3_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_CEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_CONTEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_CXT_AB;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_CXT_CD;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_FCP_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_FCP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_FCP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_FCP_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_PKT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RDB_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- VENDOR memories-----------------------------------------------------------------
#local mem ARB_ANC_OP_WITH_CELL_DISABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_EFPMOD_CPU_DMA_HDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFPPARS_OUTBUS_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFPPARS_OUTBUS_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFPPARS_OUTBUS_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFPPARS_OUTBUS_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFPPARS_OUTBUS_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EFP_ALL_SLICE_POLICY_INDEX;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_EGR_VLAN_XLATE_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_EGR_VLAN_XLATE_HIT_INDEX_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_EGR_VLAN_XLATE_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EGR_VLAN_XLATE_KEY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_EGR_VP_VLAN_MEMBERSHIP_HIT_INDEX_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem DOP_EGR_VP_VLAN_MEMBERSHIP_KEY_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem DOP_ENDPOINT_QUEUE_MAP_HIT_INDEX_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem DOP_ENDPOINT_QUEUE_MAP_KEY_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_ENDPOINT_QUEUE_MAP_KEY_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_HG_TRUNK_MEMBER_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_IFP_SLICE_POLICY_INDEX_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_ING_DNAT_ADDRESS_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
#local mem DOP_ING_DNAT_ADDRESS_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_ING_VP_VLAN_MEMBERSHIP_HIT_INDEX_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem DOP_ING_VP_VLAN_MEMBERSHIP_KEY_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_IRSEL1_INITIAL_L3_ECMP_INDEX_TABLE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem DOP_IRSEL2_L3_ECMP_INDEX_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem DOP_ISW1_IN_BUS_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_ISW1_OUT_BUS_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENDPOINT_ID_HIT_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENDPOINT_ID_KEY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENTRY_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENTRY_HIT_INDEX_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENTRY_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L2_ENTRY_KEY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L3_ENTRY_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L3_ENTRY_HIT_INDEX_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L3_ENTRY_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_L3_ENTRY_KEY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_MPLS_ENTRY_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_MPLS_ENTRY_HIT_INDEX_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_MPLS_ENTRY_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_MPLS_ENTRY_KEY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_RTAG7_HASH_KEY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_RTAG7_HASH_VALUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_TRUNK_MEMBER_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_VFP_HIT_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_VLAN_XLATE_HIT_INDEX_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_VLAN_XLATE_HIT_INDEX_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_VLAN_XLATE_KEY_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem DOP_VLAN_XLATE_KEY_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem IDB_OBM0_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM1_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM2_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM3_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM4_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM5_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM6_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
```

```
#local mem IDB_OBM7_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem IDB_OBM8_IOM_STATS_WINDOW_RESULTS;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56560_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_cmic.h,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_cmic.h
No license file was found, but licenses were detected in source scan.

```
/**
* @file sbQe2000ElibMem.h elib private memory access API
*
* <pre>
* ================================================
* ==  sbQe2000Elib.h - elib private memory access API  ==
* ================================================
*
* WORKING REVISION: $Id: sbQe2000ElibMem.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MODULE NAME:
*
*     sbQe2000ElibMem.h
*
* ABSTRACT:
*
```

```
*     elib private memory access API
*
* LANGUAGE:
*
*     C
*
* AUTHORS:
*
*     David R. Pickett
*
* CREATION DATE:
*
*     15-September-2004
*</pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbQe2000ElibMem.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.72 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Layer 2 Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.27 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tx.c
* Purpose: Implementation of bcm_petra_tx* API for dune devices
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_dma_fifo.c,v 1.107 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:  CMICM FIFO DMA driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_dma_fifo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_appl_intr.c, v1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implements application interrupt lists for FE3200.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/interrupts/fe3200_intr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Manages Tomahawk, TD2+ MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane MIPS definitions
*
* SB MIPS cores are custom MIPS32 processors with SiliconBackplane
* OCP interfaces. The CP0 processor ID is 0x00024000, where bits
* 23:16 mean Broadcom and bits 15:8 mean a MIPS core with an OCP
```

```
* interface. The core revision is stored in the SB ID register in SB
* configuration space.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: mips33_core.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/mips33_core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: soc_dcmn_intr_handler.h, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header for soc interrupt handler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_intr_handler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell_snake_test.h,v 1.6.106.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC CELL SNAKE TEST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_vswitch_vpls_hvpls.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_vswitch_vpls_hvpls.c
* Purpose: Example of Open Multi-Point VPLS service with Hierarchical PWE-MPLS protection.
```

```
* Hierarchical PWE-MPLS protection provides the possibility to support both PWE 1:1 protection
* and MPLS 1:1 protection i.e. 2-layer protection.
* This feature is supported from Jericho / Q-MX and above.
*
* Note: Current implementation supports unicast packets only.
*
*
*   Following figure shows HW model for Hierarchical VPLS:
*   Format A (mpls_port_eei = 0):
* ~~~
```

```
* Primary path:
*   ~~~
```

```
*   ~~~
```

```
*      BCM> cint examples/dpp/cint_mpls_lsr.c
*      BCM> cint examples/dpp/cint_vswitch_metro_mp.c
*      BCM> cint examples/dpp/cint_vswitch_vpls.c
*      BCM> cint examples/dpp/utility/cint_utils_mpls_port.c
*   BCM> cint examples/dpp/utility/cint_utils_mpls.c
*   BCM> cint examples/dpp/utility/cint_utils_multicast.c
*      BCM> cint examples/dpp/cint_vswitch_vpls_hvpls.c
*      BCM> cint
*      cint> int rv;
*      cint> rv = vswitch_vpls_hvpls_run_with_defaults(unit, second_unit, extend_example);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_vswitch_vpls_hvpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bitop.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Bit Array routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/bitop.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id: defs_vn.h,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/defs_vn.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_trunk.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    arad_trunk.h
```

```
* Purpose: SOC level functinos for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_trunk.h
No license file was found, but licenses were detected in source scan.

```
/*
*  Broadcom Switch API
*
*  Robo L2 Switch API compatible with Strata/XGS Enterprise switch API.
*  OS-Independet API Interface
*
*  Copyright 2002, Broadcom Corporation
*  All Rights Reserved.
*
*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*
* $Id: swapi.c,v 1.4 2011/09/13 07:23:29 mlarsen Exp $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/swapi.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_scheduler_element_converts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_scheduler_element_converts.h
No license file was found, but licenses were detected in source scan.

```
/*
   BCM53xx Register definitions
   Supports: BCM5325m, BCM5335

   Copyright 2002, Broadcom Corporation
   All Rights Reserved.
```

This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
the contents of this file may not be disclosed to third parties, copied or
duplicated in any form, in whole or in part, without the prior written
permission of Broadcom Corporation.

$Id: etc53xx.h,v 1.2 2011/09/13 07:24:02 mlarsen Exp $

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/etc53xx.h
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_FE200.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_FE200.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_llp_trap.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_trap.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: cosq.c,v 1.192 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/cosq.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QAX INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_intr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_mmu_defines.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/tomahawk2_mmu_defines.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8040.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    phy8040.c
* Purpose: Phy Driver supports for Broadcom 8040 multiplexer/retimer
* Note:    The driver is written in a way to support the mux configuration.
*          It always assumes one port connects to the switch side.
*          other three ports (called mux port) may or may not connect to a phy
*          device on the line side.
*          Only one link(switch side port <---> line side port) is active in
*          any given time.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/phy8040.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.h
* Purpose:     Defines common BFD parameters.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bfd.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod_main.h,v 1.108 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  $Copyright: (c) 2012 Broadcom Corp.
*  All Rights Reserved.$
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: Main header file for TSCMod.
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_main.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_ce.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_pmf_low_level.h
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
```

```
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_pmf_low_level_ce.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkOamMem.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkOamMem.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/ea/tk371x/utils/TkOamMem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.211 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Link Scan
*
* Linkscan should always run for all chips in a system. It manages
* the current chip LINK state (EPC_LINK or equivalent), and programs
* MACs to match auto-negotiated links.
*
* Linkscan is also responsible for determining the link up/down
* status for a port. Since link down events signaled by most PHYs are
* latched low and cleared on read, it is important that accesses to
* to the PHY itself be managed carefully. Linkscan is intended to be
* the only process that reads the actual PHY (using
* _bcm_port_link_get). All other calls to retrieve link status
* results in calls to _bcm_link_get which returns the linkscan view
* of the link status. This ensures linkscan is the only process that
```

```
* reads the actual PHYs.
*
* All modifications to the linkscan state are protected by LC_LOCK.
*
* Linkscan maintains the following port bitmaps
*
*    lc_pbm_link:
*            Current physical link up/down status. When a bit
*            in this mask is set, a link up or link down event
*            is recognized and signaled to any registered
*            handlers.
*
*    lc_pbm_link_change:
*            Mask of ports that need to recognize a link
*            down event. Ports are added to this mask by the
*            function bcm_link_change.
*
*    lc_pbm_override_ports:
*            Bit map of ports that are currently
*            being explicitly set to a value. These actual value
*            is determined by lb_pbm_override_link. Ports are
*            added and removed from this mode by the routine
*            _bcm_link_force.
*
*            Ports that are forced to an UP state do NOT result
*            in a call to bcm_port_update. It is the
*            responsibility of the caller to configure the
*            correct MAC and PHY state.
*
*    lc_pbm_override_link:
*            Bit map indicating the link-up/link-down
*            status for those ports with override set.
*
*    lc_pbm_sgmii_autoneg_port:
*            Port that is configured in SGMII autoneg mode based
*            on spn_PHY_SGMII_AUTONEG. Maintaining this bitmap
*            avoids the overhead of the soc_property_port_get call.
*
*    lc_pbm_linkdown_tx:
*            Ports configured  with linkdown TX result in
*            leaving the MAC enabled when link is down. This allows
*            packets to egress without link being established.
*
* Calls to _bcm_link_get always returns the current status as
* indicated by lc_pbm_link.
*
* For 10G+ ports, the an additional bitmap is used:
*
```

```
*     lc_pbm_remote_fault:
*             Bit map indicating the fault (local or remote) status of
*             a link-up port.
*
* To track valid fault status, the physical link must be up and
* the port configured so that symbols reach the MAC.  Thus, physical
* port configuration is tracked by the lc_pbm_link state.  However,
* if the port is receiving a fault indication, we do not want
* to allow packet traffic.  Thus, the logical port is not yet up.
* The logical port up is what we want to return to _bcm_link_get,
* so we fold these two states together.  Tracking the fault
* state requires a bit more work in the _bcm_esw_linkscan_update_port
* logic.
*
* If LAG failover capability is configured through the trunk module,
* then three more bitmaps are used:
*
*     lc_pbm_failover:
*             Bit map of ports configured for LAG failover.
*
*     lc_pbm_failed:
*             Bit map of ports configured for LAG failover which
*             have experienced a link down or fault and
*             are now in BCM_PORT_LINK_STATUS_FAILED state.  These
*             ports require application intervention to leave
*             the FAILED state.
*
*     lc_pbm_failed_clear:
*             Bit map of ports which were previously in FAILED state
*             but have been cleared by application intervention and
*             are now in DOWN state (due to link down or fault).
*             A port remains in this set until the next link up
*             without fault, at which point the hardware
*             sequence to remove the failover state may complete.
*
* Accelerated linkscan:
*
* The accelerated linkscan mode allows the linkscan thread to
* run at a faster interval of time where a set of ports (lc_pbm_accel)
* are scanned in the faster rate.
* A port is placed under the accelerated mode under the following conditions:
*      - Linkscan mode is HW
*      - Fast RX LOS is enabled.  This can be enabled with the
*        SOC property 'fast_sw_rx_los_pbmp' or the port control
*        bcmPortControlRxFastLOS.
*      - State is down and hw link indicates an UP state

* For the Accelerated linkscan mode, the following bitmaps are used:
```

```
*     lc_pbm_fast:
*             Bit map of ports with Fast RX LOS property enabled.
*             When enabled, a port may be placed under the accelerated
*             linkscan mode during a link state transition from
*             down to up.  Note that the port linkscan mode
*             needs to be HW.
*     lc_pbm_accel:
*             Bit map of ports currently under accelerated linkscan
*             mode.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464.c,v 1.151 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5464.c
* Purpose:     PHY driver for BCM5461, BCM5464 and BCM548x
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports   Media                       MAC Interface
*     5461    1       Copper                      GMII
*     5461S   1       Copper, Serdes              GMII, SGMII
*     5464    4       Copper, Serdes              GMII, SGMII
*     5464R   4       Copper, Serdes              SGMII
*     5464S   4       Copper, Serdes, Passthru    GMII, SGMII
*     5464SR  4       Copper, Serdes, Passthru    SGMII
*     5466    4       Copper, Serdes              GMII, SGMII
*     5466R   4       Copper, Serdes              SGMII
*     5466S   4       Copper, Serdes, Passthru    GMII, SGMII
*     5466SR  4       Copper, Serdes, Passthru    SGMII
*     5488    8       Copper                      SGMII
*     54980   8       Copper                      SGMII
*
* The 5466 devices have a strapping option that will make them act
* identically to the corresponding 5464 device (including PHY ID
* register values).
*
* Other devices in this family, but not supported by this driver:
*     5464H   4       Copper                      RGMII(HSTL)
*     5465    4       Copper                      RGMII
*
```

```
* This driver works with both 569x switches that have an SGMII interface
* and with Strata and 5665 switches with a GMII interface.  There is no
* support in this driver for RGMII, TBI, or RTBI interfaces.
*
* All of these PHY devices support a 100FX media mode, but currently this
* driver does not.
*
* If this driver is compiled without 569x support, then only GMII (Copper,
* Fiber) and SGMII (Copper) support will be enabled.
*
* SGMII support:
*     The 5690, 5695, 56504 and 56601 switch devices provide a serial
*     GMII (SGMII) MAC interface to a PHY device.  The PHY devices
*     above with an SGMII interface and no Passthru support are
*     supported as copper only PHYs.  Although the PHYs have a Serdes
*     media interface suitable for fiber media, it shares the same
*     electronics as the SGMII MAC interface.  The 569x internal serdes
*     is kept into passthru mode and the PHY performs all signaling.
*
*     Those PHYs with a Passthru media interface can support both Copper
*     (as above) and Fiber media (by putting the PHY into passthru mode
*     and having the 569x serdes handle all signaling).  There is no way
*     for the driver to determine from the PHY device if it has a Passthru
*     media interface, so properties must be set if Fiber media is to be
*     used.  The property "phy_5464S" or "phy_5464S_portXX" must be set if
*     the PHY device is a 5464S or 5464SR.
*
*     In all of the cases for 569x connections, the PHY's 1000BASE-X
*     registers are never enabled.
*
*     The 569x switches do not support SGMII auto-negotiation.  They only
*     support Serdes auto-negotiation.  In Copper mode, 569x autoneg must
*     be off and the PHY device autoneg on the SGMII mac interface must
*     also be off.  In Passthru (Fiber) mode, the 569x is used for Serdes
*     autoneg and the 5464 is in passthru.
*
* GMII support:
*     The Strata and 5665 family of switch devices provide a GMII MAC
*     interface to a PHY device.  The PHY devices with a GMII interface
*     can be connected to these switches.  Any PHY device with a Serdes
*     media interface can be used for both Copper and Fiber media
*     connections.  Those PHY devices without a Serdes interface can only
*     be used in Copper mode.
*
*     The Passthru mode in any PHY devices is ignored.
*
* Auto-medium selection:
*     Automatic selection of copper vs. fiber medium type is enabled when
```

```
*      the "phy_automedium" property is 1 (default 0 for 5464 on 569x
*      and 1 otherwise).  If both copper and fiber signals are present, the
*      driver consults the configuration property "phy_fiber_pref_portXX"
*      (default 1) to determine whether copper or fiber is preferred.
*
*      See sdk/doc/combo-ports.txt for more information.
*
*      NOTE: auto-medium REQUIRES the fiber module energy detect pin to be
*      wired to the LED4 pin on the 5464S.
*
* Workarounds:
*      ERRATA_ENABLE: (default 0)
*      The driver will deal with various errata for 5464 A0 and 5461 A0
*      revision PHY devices.  It is not enabled by default because
*      production use of these PHYs should be using A1 or later revisions.
*
*      LINK_DOWN_RESET_WAR: (default 1)
*      The PHY will be reset each time link down is detected on copper.
*      This is due to the 100TX_SWAP erratum on 5464 A0 revision parts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5464.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************

* Copyright (C) 2002. Redux Communications Ltd. All rights reserved.

Module Name:
    flow

File Name:
    flow_api.h

File Description:
  flow api

$Revision: 1.1.2.1 $ - visual sourcsafe revision number

History:
 Shay Hadar 17/4/2001   Initial Creation

*******************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ces/include_ext/flow/flow_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler.c,v 1.22 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dfe/interrupts/interrupt_handler.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Caladan3 Cosq API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_multicast_fabric.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_multicast_fabric.c
*
* MODULE PREFIX:  soc_tmcmult_fabric
*
* FILE DESCRIPTION: refer to H file
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_multicast_fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyfegecdiag.c,v 1.4.88.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phycdiag.c
* Purpose: Cable diagnostic algorithm for default phy.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyfegecdiag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fe200.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fe200.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nvramstubs.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/nvramstubs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_methods.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
```

```
*
* TDM function prototypes for BCM56960
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk/tdm_th_methods.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_fp.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_fp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: triumph3.h,v 1.86 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	triumph3.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/triumph3.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Driver utility routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/util.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qux_appl_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Purpose:    Implement CallBacks function for QUX interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QUX/qux_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* common defines between v4 and v6-128 code
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/esw/alpm_int.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topo_pkt.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topo_pkt.c
* Purpose:     All functions related to topo packet generation and
*              handling.
*
* This file contains code related to topology packet generation
* and handling.  It provides default functions that are used by
* stack task if customer applications do not provide alternatives.
* In addition, it provides some building blocks that customers
* may integrate with their own code.
*
* Here's how the sample topology stack task code works:
*
*     1.  stk task enters DISC mode:  Application should call
*         topo_pkt_expect_set(TRUE) to indicate topo pkts
*         should be expected.
*
*     2.  stk task enters TOPO mode:  Stack task calls
*         bcm_stack_topo_update (as programmed into st_config).
*
*     3.  topology packet is received:
*         If both 1 and 2 have occurred, process packet.
*         If only 1 has occurred, bank packet and wait for (2).
```

```
*        If only 2 has occurred, it's an error.
*
* If stack task exits TOPO mode, or whenever it goes into blocked
* mode, the application should call topo_pkt_expect_set(FALSE).
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/topo_pkt.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin16_diag.c                                          *
*  Created On    :  03 Nov 2015                                              *
*  Created By    :  Brent Roberts                                            *
*  Description   :  Diagnostic APIs for Serdes IPs                           *
*  Revision      :     *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_diag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_nif.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_nif.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*  Firmware Version : 0xD00E
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/master_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Symbol table file for the BCMI_TSCE_XGXS.
* This symbol table is used by the Broadcom debug shell.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sym/chip/bcmi_tsce_xgxs_sym.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: parse.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       parse.h
* Purpose:     Defines and types relating to parsing command lines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/parse.h
No license file was found, but licenses were detected in source scan.

/* $Id: arad_api_flow_control.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_flow_control.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: bcmx.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx.c
* Purpose: First cut at some bcmx commands
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/bcmx.c
No license file was found, but licenses were detected in source scan.

/* $Id: utils_string.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_string.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: oam.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License"). Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and

* Broadcom expressly reserves all rights in and to the Software and
* all intellectual property rights therein. IF YOU HAVE NO AUTHORIZED
* LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY WAY,
* AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE
* OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof, and
* to use this information only in connection with your use of Broadcom
* integrated circuit products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL,
* INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY
* RELATING TO YOUR USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF
* BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; OR (ii)
* ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE
* ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL
* APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED
* REMEDY.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/oam.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_llp_trap.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_llp_trap.c

No license file was found, but licenses were detected in source scan.

/* $Id: utils_host_board.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_host_board.c
No license file was found, but licenses were detected in source scan.

/*
* Normally, this file is autogenerated, but for EA we are doing it by hand
*
* $Id: allenum.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/allenum.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: jer2_arad_drv.c, Modified Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_drv.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm9600BwAllocRateEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwAllocRateEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: merlin_sesto_dependencies.h 816 2014-12-05 02:44:44Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: //depot/ip/qtc/main/dv/common/qmod/include/qmod_phyreg.h#4 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: Externization of all DPI functions needed by TEMod.
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier1/qmod_phyreg.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
```

```
*  File Name     :  merlin16_prbs.c                                    *
*  Created On    :  04 Nov 2015                                         *
*  Created By    :  Brent Roberts                                      *
*  Description   :  APIs for Serdes IPs                                 *
*  Revision      :        *
*                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without              *
*  the written permission of:                                          *
*      Broadcom Corporation                                            *
*      5300 California Avenue                                          *
*      Irvine, CA  92617                                              *
*                                                          *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                          *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_prbs.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_oam.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam.c
* Purpose: Example of using OAM APIs.
*
* Usage:
*
* cint cint_mim_mp.c
* cint cint_mim_p2p.c
* cint cint_oam_mim.c
* cint
* print oam_run_with_defaults (0, 13, 14, 15);
*
*
* The following MAs:
*   2) MA with id 1 & short name format:    1-const; 3-short format; 2-length; all the rest - MA name
*       short_name[BCM_OAM_GROUP_NAME_LENGTH] = {1, 3, 2, 0xcd, 0xab}
*
* The following MEPs:
```

```
*   2) MEP with id 4096: accellerated,     mac address {0x00, 0x00, 0x00, 0xff, 0xff, 0xff}, in group 2, mdlevel 5,
upmep
*
* comments:
* 1) In order to prevent from OAMP send packets do: BCM.0> m OAMP_MODE_REGISTER
TRANSMIT_ENABLE=0
* 2) MIM OAM enabeld by uses soc property custom_feature_oam_mim=1
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_mim.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :  $Id: eagle2_tsc2pll_debug_functions.h 316 2014-02-18 01:31:43Z kirand $ *
*                                                                                       *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                                          *
*      Broadcom Corporation                                                            *
*      5300 California Avenue                                                          *
*      Irvine, CA  92617                                                               *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                      *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_scoreboard.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       scoreboard.h
* Purpose:     SBX Software scoreboard Collection module definitions.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000_scoreboard.h
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 10x10G setup
#

ddr3_auto_tune=0

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# All higig10 subports in pbmp
ucode_num_port_override.0=1
ucode_num_ports.0=48

# 4xXE on WC 0
ucode_port.port1.0=clport0.xe.0.0:il1.il100.0.0
ucode_port.port2.0=clport0.xe.0.1:il1.il100.0.1
ucode_port.port3.0=clport0.xe.0.2:il1.il100.0.2
ucode_port.port4.0=clport0.xe.0.3:il1.il100.0.3

# 4xGE on WC 1 lane 0
ucode_port.port5.0=clport0.hg10.1.0-1:il1.il100.0.4-1
ucode_port.port6.0=clport0.hg10.1.0-1:il1.il100.0.5-1
ucode_port.port7.0=clport0.hg10.1.0-1:il1.il100.0.6-1
ucode_port.port8.0=clport0.hg10.1.0-1:il1.il100.0.7-1
# 12xGE on WC 1 lane 1
ucode_port.port9.0=clport0.hg10.1.1-1:il1.il100.0.8-1
ucode_port.port10.0=clport0.hg10.1.1-1:il1.il100.0.9-1
ucode_port.port11.0=clport0.hg10.1.1-1:il1.il100.0.10-1
ucode_port.port12.0=clport0.hg10.1.1-1:il1.il100.0.11-1
ucode_port.port13.0=clport0.hg10.1.1-1:il1.il100.0.12-1
ucode_port.port14.0=clport0.hg10.1.1-1:il1.il100.0.13-1
ucode_port.port15.0=clport0.hg10.1.1-1:il1.il100.0.14-1
ucode_port.port16.0=clport0.hg10.1.1-1:il1.il100.0.15-1
ucode_port.port17.0=clport0.hg10.1.1-1:il1.il100.0.16-1
ucode_port.port18.0=clport0.hg10.1.1-1:il1.il100.0.17-1
ucode_port.port19.0=clport0.hg10.1.1-1:il1.il100.0.18-1
ucode_port.port20.0=clport0.hg10.1.1-1:il1.il100.0.19-1
```

```
# 8xGE on WC 1 lane 2
ucode_port.port21.0=clport0.hg10.1.2-1:il1.il100.0.20-1
ucode_port.port22.0=clport0.hg10.1.2-1:il1.il100.0.21-1
ucode_port.port23.0=clport0.hg10.1.2-1:il1.il100.0.22-1
ucode_port.port24.0=clport0.hg10.1.2-1:il1.il100.0.23-1
ucode_port.port25.0=clport0.hg10.1.2-1:il1.il100.0.24-1
ucode_port.port26.0=clport0.hg10.1.2-1:il1.il100.0.25-1
ucode_port.port27.0=clport0.hg10.1.2-1:il1.il100.0.26-1
ucode_port.port28.0=clport0.hg10.1.2-1:il1.il100.0.27-1
# 8xGE on WC 1 lane 3
ucode_port.port29.0=clport0.hg10.1.3-1:il1.il100.0.28-1
ucode_port.port30.0=clport0.hg10.1.3-1:il1.il100.0.29-1
ucode_port.port31.0=clport0.hg10.1.3-1:il1.il100.0.30-1
ucode_port.port32.0=clport0.hg10.1.3-1:il1.il100.0.31-1
ucode_port.port33.0=clport0.hg10.1.3-1:il1.il100.0.32-1
ucode_port.port34.0=clport0.hg10.1.3-1:il1.il100.0.33-1
ucode_port.port35.0=clport0.hg10.1.3-1:il1.il100.0.34-1
ucode_port.port36.0=clport0.hg10.1.3-1:il1.il100.0.35-1
# 12xGE on WC 2 lane 0
ucode_port.port37.0=clport0.hg10.2.0-1:il1.il100.0.35-1
ucode_port.port38.0=clport0.hg10.2.0-1:il1.il100.0.36-1
ucode_port.port39.0=clport0.hg10.2.0-1:il1.il100.0.37-1
ucode_port.port40.0=clport0.hg10.2.0-1:il1.il100.0.38-1
ucode_port.port41.0=clport0.hg10.2.0-1:il1.il100.0.39-1
ucode_port.port42.0=clport0.hg10.2.0-1:il1.il100.0.40-1
ucode_port.port43.0=clport0.hg10.2.0-1:il1.il100.0.41-1
ucode_port.port44.0=clport0.hg10.2.0-1:il1.il100.0.42-1
# 8xGE on WC 2 lane 1
ucode_port.port45.0=clport0.hg10.2.1-1:il1.il100.0.43-1
ucode_port.port46.0=clport0.hg10.2.1-1:il1.il100.0.44-1
ucode_port.port47.0=clport0.hg10.2.1-1:il1.il100.0.45-1
ucode_port.port48.0=clport0.hg10.2.1-1:il1.il100.0.46-1
#ucode_port.port49.0=clport0.hg10.2.1-1:il1.il100.0.47-1
#ucode_port.port50.0=clport0.hg10.2.1-1:il1.il100.0.48-1
#ucode_port.port51.0=clport0.hg10.2.1-1:il1.il100.0.49-1
#ucode_port.port52.0=clport0.hg10.2.1-1:il1.il100.0.50-1

higig2_hdr_mode=1

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_hg0=0x1032
xgxs_rx_lane_map_hg32=0x1230

xgxs_tx_lane_map_xe0=0x1032
```

```
xgxs_tx_lane_map_hg0=0x3210
xgxs_tx_lane_map_hg32=0x1032


phy_xaui_rx_polarity_flip_xe0=0x0001
phy_xaui_rx_polarity_flip_xe1=0x0000
phy_xaui_rx_polarity_flip_xe2=0x0000
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg8=0x0001
phy_xaui_rx_polarity_flip_hg16=0x0001
phy_xaui_rx_polarity_flip_hg24=0x0001
phy_xaui_rx_polarity_flip_hg32=0x0001
phy_xaui_rx_polarity_flip_hg40=0x0001
phy_xaui_rx_polarity_flip_hg48=0x0000
phy_xaui_rx_polarity_flip_hg56=0x0001

phy_xaui_tx_polarity_flip_xe0=0x0001
phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0000
phy_xaui_tx_polarity_flip_xe3=0x0000
phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg8=0x0001
phy_xaui_tx_polarity_flip_hg16=0x0001
phy_xaui_tx_polarity_flip_hg24=0x0001
phy_xaui_tx_polarity_flip_hg32=0x0000
phy_xaui_tx_polarity_flip_hg40=0x0000
phy_xaui_tx_polarity_flip_hg48=0x0001
phy_xaui_tx_polarity_flip_hg56=0x0001


#C3 Fabric side HG[126] in TDM3/1 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
```

```
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
```

ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595

ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_6xhg10-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

/**********
*
* Copyright 2014-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License"). Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED
WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO

YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/xpt_op.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/xpt_op.h
No license file was found, but licenses were detected in source scan.

/* $Id: ui_ppd_api_llp_parse.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_parse.c
No license file was found, but licenses were detected in source scan.

/**********
****
* File Name : eagle_pll_config.c *
* Created On : 14/07/2013 *
* Created By : Kiran Divakar *
* Description : Eagle PLL Configuration API *
* Revision : $Id: eagle_pll_config.c 1403 2016-04-14 21:42:22Z cvazquez $ *
* *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ *
* No portions of this material may be reproduced in any form without *
* the written permission of: *
* Broadcom Corporation *
* 5300 California Avenue *
* Irvine, CA 92617 *
* *
* All information contained in this document is Broadcom Corporation *
* company private proprietary, and trade secret. *
* *
****
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etc53xx.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx Register definitions
* Supports: BCM5325m, BCM5335
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/etc53xx.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision     :  $Id: srds_api_enum_public.h 977 2015-03-19 02:24:29Z kirand $ *
*                                                                              *
*  Description   :  Enum types used by Serdes API functions                   *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                              *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/public/srds_api_enum_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/public/srds_api_enum_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_loopback_sr_cell.c,v 1.9 Broadcom SDK $
```

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DCMN send \ receive loopback SR cell example:
*
* The example simulate:
*  1. define single route and send loopback sr cell to this route
*  2. receive sr cells
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/cint_loopback_sr_cell.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_drv_flash28f.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/bsp_drv_flash28f.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmicm_dma.c,v 1.05 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     CMICM interface drvier for SOC DMA
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmicm_dma.c
No license file was found, but licenses were detected in source scan.

```
# $Id: dnxf.soc,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

#Debug level
debug info
```

```
debug soc tests warn
debug appl rcload warn
debug appl symtab warn
debug soc phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,physim warn
debug sys verinet warn
debug bcm attach warn


# Shutdown threads if system is already running
counter off
linkscan off

exit;

# For RAMON:
# This will have to change when we have bcm88790_board.soc
if $?BCM88790_A0 \
   'rcload bcm88950_board.soc'

if !$?warmboot "\
 local warmboot 0"

INIT_DNX ModID=5 Warmboot=$warmboot


echo "dnxf.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/dnxf.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84728.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84728.h
No license file was found, but licenses were detected in source scan.

```
/*! \file bcm_int/dnx/vlan/vlan.h
*
* Internal DNX VLAN APIs
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/vlan/vlan.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"
# We need to print out port status since any cabling effects results.
*:ps
# Avoid link messages while testing
linkscan off

# Use expected COS configuration for test
#config add bcm_num_cos=4

init
init misc

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Deselect all
ts -*

# Display some useful information
date
ver
soc

# Start Test
echo "Running PCI Compliance ..."
tr 2
$done
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc;
# Clean up after register read/write test.

echo "Running CPU Benchmarks ..."
tr 21
$done

echo "Running Switching Memory tests ..."
echo "  ALTERNATE_EMIRROR_BITMAP"
tr 50 M=ALTERNATE_EMIRROR_BITMAP
tr 51 M=ALTERNATE_EMIRROR_BITMAP
tr 52 M=ALTERNATE_EMIRROR_BITMAP
echo "  DSCP_TABLE"
tr 50 M=DSCP_TABLE
tr 51 M=DSCP_TABLE
tr 52 M=DSCP_TABLE
echo "  E2E_HOL_STATUS"
tr 50 M=E2E_HOL_STATUS
tr 51 M=E2E_HOL_STATUS
tr 52 M=E2E_HOL_STATUS
echo "  EGR_DSCP_ECN_MAP"
tr 50 M=EGR_DSCP_ECN_MAP
tr 51 M=EGR_DSCP_ECN_MAP
tr 52 M=EGR_DSCP_ECN_MAP
echo "  EGR_DSCP_TABLE"
tr 50 M=EGR_DSCP_TABLE
tr 51 M=EGR_DSCP_TABLE
tr 52 M=EGR_DSCP_TABLE
echo "  EGR_EM_MTP_INDEX"
tr 50 M=EGR_EM_MTP_INDEX
tr 51 M=EGR_EM_MTP_INDEX
tr 52 M=EGR_EM_MTP_INDEX
echo "  EGR_IM_MTP_INDEX"
tr 50 M=EGR_IM_MTP_INDEX
tr 51 M=EGR_IM_MTP_INDEX
```

```
tr 52 M=EGR_IM_MTP_INDEX
echo "  EGR_IP_TUNNEL"
tr 50 M=EGR_IP_TUNNEL
tr 51 M=EGR_IP_TUNNEL
tr 52 M=EGR_IP_TUNNEL
echo "  EGR_L3_INTF"
tr 50 M=EGR_L3_INTF
tr 51 M=EGR_L3_INTF
tr 52 M=EGR_L3_INTF
echo "  EGR_L3_NEXT_HOP"
tr 50 M=EGR_L3_NEXT_HOP
tr 51 M=EGR_L3_NEXT_HOP
tr 52 M=EGR_L3_NEXT_HOP
echo "  EGRESS_MASK"
tr 50 M=EGRESS_MASK
tr 51 M=EGRESS_MASK
tr 52 M=EGRESS_MASK
echo "  EGR_MOD_MAP"
tr 50 M=EGR_MOD_MAP
tr 51 M=EGR_MOD_MAP
tr 52 M=EGR_MOD_MAP
echo "  EGR_VLAN"
tr 50 M=EGR_VLAN
tr 51 M=EGR_VLAN
tr 52 M=EGR_VLAN
echo "  EGR_VLAN_STG"
tr 50 M=EGR_VLAN_STG
tr 51 M=EGR_VLAN_STG
tr 52 M=EGR_VLAN_STG
echo "  EGR_VLAN_XLATE"
tr 50 M=EGR_VLAN_XLATE
tr 51 M=EGR_VLAN_XLATE
tr 52 M=EGR_VLAN_XLATE
echo "  EGR_VLAN_XLATE_DATA_ONLY"
tr 50 M=EGR_VLAN_XLATE_DATA_ONLY
tr 51 M=EGR_VLAN_XLATE_DATA_ONLY
tr 52 M=EGR_VLAN_XLATE_DATA_ONLY
echo "  EGR_VLAN_XLATE_MASK"
tr 50 M=EGR_VLAN_XLATE_MASK
tr 51 M=EGR_VLAN_XLATE_MASK
tr 52 M=EGR_VLAN_XLATE_MASK
echo "  EGR_VLAN_XLATE_ONLY"
tr 50 M=EGR_VLAN_XLATE_ONLY
tr 51 M=EGR_VLAN_XLATE_ONLY
tr 52 M=EGR_VLAN_XLATE_ONLY
echo "  EM_MTP_INDEX"
tr 50 M=EM_MTP_INDEX
tr 51 M=EM_MTP_INDEX
```

```
tr 52 M=EM_MTP_INDEX
echo "  FP_COUNTER_TABLE"
tr 50 M=FP_COUNTER_TABLE
tr 51 M=FP_COUNTER_TABLE
tr 52 M=FP_COUNTER_TABLE
echo "  FP_COUNTER_TABLE_X"
tr 50 M=FP_COUNTER_TABLE_X
tr 51 M=FP_COUNTER_TABLE_X
tr 52 M=FP_COUNTER_TABLE_X
echo "  FP_COUNTER_TABLE_Y"
tr 50 M=FP_COUNTER_TABLE_Y
tr 51 M=FP_COUNTER_TABLE_Y
tr 52 M=FP_COUNTER_TABLE_Y
echo "  FP_METER_TABLE"
tr 50 M=FP_METER_TABLE
tr 51 M=FP_METER_TABLE
tr 52 M=FP_METER_TABLE
echo "  FP_METER_TABLE_X"
tr 50 M=FP_METER_TABLE_X
tr 51 M=FP_METER_TABLE_X
tr 52 M=FP_METER_TABLE_X
echo "  FP_METER_TABLE_Y"
tr 50 M=FP_METER_TABLE_Y
tr 51 M=FP_METER_TABLE_Y
tr 52 M=FP_METER_TABLE_Y
echo "  FP_POLICY_TABLE"
tr 50 M=FP_POLICY_TABLE
tr 51 M=FP_POLICY_TABLE
tr 52 M=FP_POLICY_TABLE
echo "  FP_PORT_FIELD_SEL"
tr 50 M=FP_PORT_FIELD_SEL
tr 51 M=FP_PORT_FIELD_SEL
tr 52 M=FP_PORT_FIELD_SEL
echo "  FP_RANGE_CHECK"
tr 50 M=FP_RANGE_CHECK
tr 51 M=FP_RANGE_CHECK
tr 52 M=FP_RANGE_CHECK
echo "  FP_TCAM"
tr 50 M=FP_TCAM
tr 51 M=FP_TCAM
tr 52 M=FP_TCAM
echo "  FP_TCAM_PLUS_POLICY"
tr 50 M=FP_TCAM_PLUS_POLICY
tr 51 M=FP_TCAM_PLUS_POLICY
tr 52 M=FP_TCAM_PLUS_POLICY
echo "  UDF_OFFSET"
tr 50 M=UDF_OFFSET
tr 51 M=UDF_OFFSET
```

```
tr 52 M=UDF_OFFSET
echo "  HG_TRUNK_FAILOVER_SET"
tr 50 M=HG_TRUNK_FAILOVER_SET
tr 51 M=HG_TRUNK_FAILOVER_SET
tr 52 M=HG_TRUNK_FAILOVER_SET
echo "  IM_MTP_INDEX"
tr 50 M=IM_MTP_INDEX
tr 51 M=IM_MTP_INDEX
tr 52 M=IM_MTP_INDEX
echo "  ING_L3_NEXT_HOP"
tr 50 M=ING_L3_NEXT_HOP
tr 51 M=ING_L3_NEXT_HOP
tr 52 M=ING_L3_NEXT_HOP
echo "  ING_MOD_MAP"
tr 50 M=ING_MOD_MAP
tr 51 M=ING_MOD_MAP
tr 52 M=ING_MOD_MAP
echo "  IPORT_TABLE"
tr 50 M=IPORT_TABLE
tr 51 M=IPORT_TABLE
tr 52 M=IPORT_TABLE
echo "  L2MC"
tr 50 M=L2MC
tr 51 M=L2MC
tr 52 M=L2MC
echo "  L2_ENTRY"
tr 50 M=L2_ENTRY
tr 51 M=L2_ENTRY
tr 52 M=L2_ENTRY
echo "  L2_ENTRY_ONLY"
tr 50 M=L2_ENTRY_ONLY
tr 51 M=L2_ENTRY_ONLY
tr 52 M=L2_ENTRY_ONLY
echo "  L2_HITDA_ONLY"
tr 50 M=L2_HITDA_ONLY
tr 51 M=L2_HITDA_ONLY
tr 52 M=L2_HITDA_ONLY
echo "  L2_HITSA_ONLY"
tr 50 M=L2_HITSA_ONLY
tr 51 M=L2_HITSA_ONLY
tr 52 M=L2_HITSA_ONLY
echo "  L2_MOD_FIFO"
tr 50 M=L2_MOD_FIFO
tr 51 M=L2_MOD_FIFO
tr 52 M=L2_MOD_FIFO
echo "  L2_USER_ENTRY"
tr 50 M=L2_USER_ENTRY
tr 51 M=L2_USER_ENTRY
```

```
tr 52 M=L2_USER_ENTRY
echo "  L2_USER_ENTRY_DATA_ONLY"
tr 50 M=L2_USER_ENTRY_DATA_ONLY
tr 51 M=L2_USER_ENTRY_DATA_ONLY
tr 52 M=L2_USER_ENTRY_DATA_ONLY
echo "  L2_USER_ENTRY_ONLY"
tr 50 M=L2_USER_ENTRY_ONLY
tr 51 M=L2_USER_ENTRY_ONLY
tr 52 M=L2_USER_ENTRY_ONLY
echo "  L3_DEFIP"
tr 50 M=L3_DEFIP
tr 51 M=L3_DEFIP
tr 52 M=L3_DEFIP
echo "  L3_DEFIP_DATA_ONLY"
tr 50 M=L3_DEFIP_DATA_ONLY
tr 51 M=L3_DEFIP_DATA_ONLY
tr 52 M=L3_DEFIP_DATA_ONLY
echo "  L3_DEFIP_HIT_ONLY"
tr 50 M=L3_DEFIP_HIT_ONLY
tr 51 M=L3_DEFIP_HIT_ONLY
tr 52 M=L3_DEFIP_HIT_ONLY
echo "  L3_DEFIP_ONLY"
tr 50 M=L3_DEFIP_ONLY
tr 51 M=L3_DEFIP_ONLY
tr 52 M=L3_DEFIP_ONLY
echo "  L3_ECMP"
tr 50 M=L3_ECMP
tr 51 M=L3_ECMP
tr 52 M=L3_ECMP
echo "  L3_ENTRY_HIT_ONLY"
tr 50 M=L3_ENTRY_HIT_ONLY
tr 51 M=L3_ENTRY_HIT_ONLY
tr 52 M=L3_ENTRY_HIT_ONLY
echo "  L3_ENTRY_IPV4_MULTICAST"
tr 50 M=L3_ENTRY_IPV4_MULTICAST
tr 51 M=L3_ENTRY_IPV4_MULTICAST
tr 52 M=L3_ENTRY_IPV4_MULTICAST
echo "  L3_ENTRY_IPV4_UNICAST"
tr 50 M=L3_ENTRY_IPV4_UNICAST
tr 51 M=L3_ENTRY_IPV4_UNICAST
tr 52 M=L3_ENTRY_IPV4_UNICAST
echo "  L3_ENTRY_IPV6_MULTICAST"
tr 50 M=L3_ENTRY_IPV6_MULTICAST
tr 51 M=L3_ENTRY_IPV6_MULTICAST
tr 52 M=L3_ENTRY_IPV6_MULTICAST
echo "  L3_ENTRY_IPV6_UNICAST"
tr 50 M=L3_ENTRY_IPV6_UNICAST
tr 51 M=L3_ENTRY_IPV6_UNICAST
```

```
tr 52 M=L3_ENTRY_IPV6_UNICAST
echo "  L3_ENTRY_ONLY"
tr 50 M=L3_ENTRY_ONLY
tr 51 M=L3_ENTRY_ONLY
tr 52 M=L3_ENTRY_ONLY
echo "  L3_ENTRY_VALID_ONLY"
tr 50 M=L3_ENTRY_VALID_ONLY
tr 51 M=L3_ENTRY_VALID_ONLY
tr 52 M=L3_ENTRY_VALID_ONLY
echo "  L3_IPMC"
tr 50 M=L3_IPMC
tr 51 M=L3_IPMC
tr 52 M=L3_IPMC
echo "  L3_TUNNEL"
tr 50 M=L3_TUNNEL
tr 51 M=L3_TUNNEL
tr 52 M=L3_TUNNEL
echo "  PORT_MAC_BLOCK"
tr 50 M=PORT_MAC_BLOCK
tr 51 M=PORT_MAC_BLOCK
tr 52 M=PORT_MAC_BLOCK
echo "  AGING_CTR"
tr 50 M=AGING_CTR
tr 51 M=AGING_CTR
tr 52 M=AGING_CTR
echo "  AGING_EXP"
tr 50 M=AGING_EXP
tr 51 M=AGING_EXP
tr 52 M=AGING_EXP
echo "  CBPCELLHEADER"
tr 50 M=CBPCELLHEADER
tr 51 M=CBPCELLHEADER
tr 52 M=CBPCELLHEADER
echo "  CBPDATA0"
tr 50 M=CBPDATA0
tr 51 M=CBPDATA0
tr 52 M=CBPDATA0
echo "  CBPDATA1"
tr 50 M=CBPDATA1
tr 51 M=CBPDATA1
tr 52 M=CBPDATA1
echo "  CBPDATA2"
tr 50 M=CBPDATA2
tr 51 M=CBPDATA2
tr 52 M=CBPDATA2
echo "  CBPDATA3"
tr 50 M=CBPDATA3
tr 51 M=CBPDATA3
```

```
tr 52 M=CBPDATA3
echo "  CBPDATA4"
tr 50 M=CBPDATA4
tr 51 M=CBPDATA4
tr 52 M=CBPDATA4
echo "  CBPDATA5"
tr 50 M=CBPDATA5
tr 51 M=CBPDATA5
tr 52 M=CBPDATA5
echo "  CBPDATA6"
tr 50 M=CBPDATA6
tr 51 M=CBPDATA6
tr 52 M=CBPDATA6
echo "  CBPDATA7"
tr 50 M=CBPDATA7
tr 51 M=CBPDATA7
tr 52 M=CBPDATA7
echo "  CBPDATA8"
tr 50 M=CBPDATA8
tr 51 M=CBPDATA8
tr 52 M=CBPDATA8
echo "  CBPDATA9"
tr 50 M=CBPDATA9
tr 51 M=CBPDATA9
tr 52 M=CBPDATA9
echo "  CBPDATA10"
tr 50 M=CBPDATA10
tr 51 M=CBPDATA10
tr 52 M=CBPDATA10
echo "  CBPDATA11"
tr 50 M=CBPDATA11
tr 51 M=CBPDATA11
tr 52 M=CBPDATA11
echo "  CBPDATA12"
tr 50 M=CBPDATA12
tr 51 M=CBPDATA12
tr 52 M=CBPDATA12
echo "  CBPDATA13"
tr 50 M=CBPDATA13
tr 51 M=CBPDATA13
tr 52 M=CBPDATA13
echo "  CBPDATA14"
tr 50 M=CBPDATA14
tr 51 M=CBPDATA14
tr 52 M=CBPDATA14
echo "  CBPDATA15"
tr 50 M=CBPDATA15
tr 51 M=CBPDATA15
```

```
tr 52 M=CBPDATA15
echo "  CBPPKTHEADER0_MEM0"
tr 50 M=CBPPKTHEADER0_MEM0
tr 51 M=CBPPKTHEADER0_MEM0
tr 52 M=CBPPKTHEADER0_MEM0
echo "  CBPPKTHEADER0_MEM1"
tr 50 M=CBPPKTHEADER0_MEM1
tr 51 M=CBPPKTHEADER0_MEM1
tr 52 M=CBPPKTHEADER0_MEM1
echo "  CBPPKTHEADER0_MEM2"
tr 50 M=CBPPKTHEADER0_MEM2
tr 51 M=CBPPKTHEADER0_MEM2
tr 52 M=CBPPKTHEADER0_MEM2
echo "  CBPPKTHEADER1_MEM0"
tr 50 M=CBPPKTHEADER1_MEM0
tr 51 M=CBPPKTHEADER1_MEM0
tr 52 M=CBPPKTHEADER1_MEM0
echo "  CBPPKTHEADER1_MEM1"
tr 50 M=CBPPKTHEADER1_MEM1
tr 51 M=CBPPKTHEADER1_MEM1
tr 52 M=CBPPKTHEADER1_MEM1
echo "  CBPPKTHEADERCPU"
tr 50 M=CBPPKTHEADERCPU
tr 51 M=CBPPKTHEADERCPU
tr 52 M=CBPPKTHEADERCPU
echo "  CCP"
tr 50 M=CCP
tr 51 M=CCP
tr 52 M=CCP
echo "  CELLCHK"
tr 50 M=CELLCHK
tr 51 M=CELLCHK
tr 52 M=CELLCHK
echo "  CELLLINK"
tr 50 M=CELLLINK
tr 51 M=CELLLINK
tr 52 M=CELLLINK
echo "  CFAP"
tr 50 M=CFAP
tr 51 M=CFAP
tr 52 M=CFAP
echo "  IPMC_GROUP0"
tr 50 M=IPMC_GROUP0
tr 51 M=IPMC_GROUP0
tr 52 M=IPMC_GROUP0
echo "  IPMC_GROUP1"
tr 50 M=IPMC_GROUP1
tr 51 M=IPMC_GROUP1
```

```
tr 52 M=IPMC_GROUP1
echo "  IPMC_GROUP2"
tr 50 M=IPMC_GROUP2
tr 51 M=IPMC_GROUP2
tr 52 M=IPMC_GROUP2
echo "  IPMC_GROUP3"
tr 50 M=IPMC_GROUP3
tr 51 M=IPMC_GROUP3
tr 52 M=IPMC_GROUP3
echo "  IPMC_VLAN"
tr 50 M=IPMC_VLAN
tr 51 M=IPMC_VLAN
tr 52 M=IPMC_VLAN
echo "  IPMC_VLAN_MEM0"
tr 50 M=IPMC_VLAN_MEM0
tr 51 M=IPMC_VLAN_MEM0
tr 52 M=IPMC_VLAN_MEM0
echo "  IPMC_VLAN_MEM1"
tr 50 M=IPMC_VLAN_MEM1
tr 51 M=IPMC_VLAN_MEM1
tr 52 M=IPMC_VLAN_MEM1
echo "  PKTLINK0"
tr 50 M=PKTLINK0
tr 51 M=PKTLINK0
tr 52 M=PKTLINK0
echo "  PKTLINK1"
tr 50 M=PKTLINK1
tr 51 M=PKTLINK1
tr 52 M=PKTLINK1
echo "  PKTLINK2"
tr 50 M=PKTLINK2
tr 51 M=PKTLINK2
tr 52 M=PKTLINK2
echo "  PKTLINK3"
tr 50 M=PKTLINK3
tr 51 M=PKTLINK3
tr 52 M=PKTLINK3
echo "  PKTLINK4"
tr 50 M=PKTLINK4
tr 51 M=PKTLINK4
tr 52 M=PKTLINK4
echo "  PKTLINK5"
tr 50 M=PKTLINK5
tr 51 M=PKTLINK5
tr 52 M=PKTLINK5
echo "  PKTLINK6"
tr 50 M=PKTLINK6
tr 51 M=PKTLINK6
```

```
tr 52 M=PKTLINK6
echo "  PKTLINK7"
tr 50 M=PKTLINK7
tr 51 M=PKTLINK7
tr 52 M=PKTLINK7
echo "  PKTLINK8"
tr 50 M=PKTLINK8
tr 51 M=PKTLINK8
tr 52 M=PKTLINK8
echo "  PKTLINK9"
tr 50 M=PKTLINK9
tr 51 M=PKTLINK9
tr 52 M=PKTLINK9
echo "  PKTLINK10"
tr 50 M=PKTLINK10
tr 51 M=PKTLINK10
tr 52 M=PKTLINK10
echo "  PKTLINK11"
tr 50 M=PKTLINK11
tr 51 M=PKTLINK11
tr 52 M=PKTLINK11
echo "  PKTLINK12"
tr 50 M=PKTLINK12
tr 51 M=PKTLINK12
tr 52 M=PKTLINK12
echo "  PKTLINK13"
tr 50 M=PKTLINK13
tr 51 M=PKTLINK13
tr 52 M=PKTLINK13
echo "  PKTLINK14"
tr 50 M=PKTLINK14
tr 51 M=PKTLINK14
tr 52 M=PKTLINK14
echo "  PKTLINK15"
tr 50 M=PKTLINK15
tr 51 M=PKTLINK15
tr 52 M=PKTLINK15
echo "  PKTLINK16"
tr 50 M=PKTLINK16
tr 51 M=PKTLINK16
tr 52 M=PKTLINK16
echo "  PKTLINK17"
tr 50 M=PKTLINK17
tr 51 M=PKTLINK17
tr 52 M=PKTLINK17
echo "  PKTLINK18"
tr 50 M=PKTLINK18
tr 51 M=PKTLINK18
```

```
tr 52 M=PKTLINK18
echo "  PKTLINK19"
tr 50 M=PKTLINK19
tr 51 M=PKTLINK19
tr 52 M=PKTLINK19
echo "  PKTLINK20"
tr 50 M=PKTLINK20
tr 51 M=PKTLINK20
tr 52 M=PKTLINK20
echo "  MODPORT_MAP"
tr 50 M=MODPORT_MAP
tr 51 M=MODPORT_MAP
tr 52 M=MODPORT_MAP
echo "  MODPORT_MAP_EM"
tr 50 M=MODPORT_MAP_EM
tr 51 M=MODPORT_MAP_EM
tr 52 M=MODPORT_MAP_EM
echo "  MODPORT_MAP_IM"
tr 50 M=MODPORT_MAP_IM
tr 51 M=MODPORT_MAP_IM
tr 52 M=MODPORT_MAP_IM
echo "  MODPORT_MAP_SW"
tr 50 M=MODPORT_MAP_SW
tr 51 M=MODPORT_MAP_SW
tr 52 M=MODPORT_MAP_SW
echo "  NONUCAST_TRUNK_BLOCK_MASK"
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK
echo "  PORT_LAG_FAILOVER_SET"
tr 50 M=PORT_LAG_FAILOVER_SET
tr 51 M=PORT_LAG_FAILOVER_SET
tr 52 M=PORT_LAG_FAILOVER_SET
echo "  PORT"
tr 50 M=PORT
tr 51 M=PORT
tr 52 M=PORT
echo "  SOURCE_TRUNK_MAP"
tr 50 M=SOURCE_TRUNK_MAP
tr 51 M=SOURCE_TRUNK_MAP
tr 52 M=SOURCE_TRUNK_MAP
echo "  SRC_MODID_BLOCK"
tr 50 M=SRC_MODID_BLOCK
tr 51 M=SRC_MODID_BLOCK
tr 52 M=SRC_MODID_BLOCK
echo "  VLAN_STG"
tr 50 M=VLAN_STG
tr 51 M=VLAN_STG
```

```
tr 52 M=VLAN_STG
echo "  TRUNK_BITMAP"
tr 50 M=TRUNK_BITMAP
tr 51 M=TRUNK_BITMAP
tr 52 M=TRUNK_BITMAP
echo "  PORT_TRUNK_EGRESS"
tr 50 M=PORT_TRUNK_EGRESS
tr 51 M=PORT_TRUNK_EGRESS
tr 52 M=PORT_TRUNK_EGRESS
echo "  TRUNK_GROUP"
tr 50 M=TRUNK_GROUP
tr 51 M=TRUNK_GROUP
tr 52 M=TRUNK_GROUP
echo "  VLAN_MAC"
tr 50 M=VLAN_MAC
tr 51 M=VLAN_MAC
tr 52 M=VLAN_MAC
echo "  VLAN_PROTOCOL"
tr 50 M=VLAN_PROTOCOL
tr 51 M=VLAN_PROTOCOL
tr 52 M=VLAN_PROTOCOL
echo "  VLAN_PROTOCOL_DATA"
tr 50 M=VLAN_PROTOCOL_DATA
tr 51 M=VLAN_PROTOCOL_DATA
tr 52 M=VLAN_PROTOCOL_DATA
echo "  VLAN_SUBNET"
tr 50 M=VLAN_SUBNET
tr 51 M=VLAN_SUBNET
tr 52 M=VLAN_SUBNET
echo "  VLAN_SUBNET_DATA_ONLY"
tr 50 M=VLAN_SUBNET_DATA_ONLY
tr 51 M=VLAN_SUBNET_DATA_ONLY
tr 52 M=VLAN_SUBNET_DATA_ONLY
echo "  VLAN_SUBNET_ONLY"
tr 50 M=VLAN_SUBNET_ONLY
tr 51 M=VLAN_SUBNET_ONLY
tr 52 M=VLAN_SUBNET_ONLY
echo "  VLAN"
tr 50 M=VLAN
tr 51 M=VLAN
tr 52 M=VLAN
echo "  VLAN_XLATE"
tr 50 M=VLAN_XLATE
tr 51 M=VLAN_XLATE
tr 52 M=VLAN_XLATE
echo "  VLAN_XLATE_DATA_ONLY"
tr 50 M=VLAN_XLATE_DATA_ONLY
tr 51 M=VLAN_XLATE_DATA_ONLY
```

```
tr 52 M=VLAN_XLATE_DATA_ONLY
echo "  VLAN_XLATE_MASK"
tr 50 M=VLAN_XLATE_MASK
tr 51 M=VLAN_XLATE_MASK
tr 52 M=VLAN_XLATE_MASK
echo "  VLAN_XLATE_ONLY"
tr 50 M=VLAN_XLATE_ONLY
tr 51 M=VLAN_XLATE_ONLY
tr 52 M=VLAN_XLATE_ONLY
$done

# Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
echo "  ALTERNATE_EMIRROR_BITMAP"
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F
echo "  DSCP_TABLE"
tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F
echo "  E2E_HOL_STATUS"
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F
echo "  EGR_DSCP_ECN_MAP"
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=F
echo "  EGR_DSCP_TABLE"
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=F
echo "  EGR_EM_MTP_INDEX"
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F
echo "  EGR_IM_MTP_INDEX"
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F
echo "  EGR_IP_TUNNEL"
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=F
echo "  EGR_L3_INTF"
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=F
echo "  EGR_L3_NEXT_HOP"
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F
echo "  EGRESS_MASK"
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F
echo "  EGR_MOD_MAP"
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN"
tr 71 M=EGR_VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_STG"
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_XLATE"
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_XLATE_DATA_ONLY"
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_XLATE_MASK"
tr 71 M=EGR_VLAN_XLATE_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE_MASK S=0 C=0 TSE=T SLTH=F
echo "  EGR_VLAN_XLATE_ONLY"
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=EGR_VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=F
echo "  EM_MTP_INDEX"
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F
echo "  FP_COUNTER_TABLE"
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F
echo "  FP_COUNTER_TABLE_X"
tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=FP_COUNTER_TABLE_X S=0 C=0 TSE=T SLTH=F
echo "  FP_COUNTER_TABLE_Y"
tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_COUNTER_TABLE_Y S=0 C=0 TSE=T SLTH=F
echo "  FP_METER_TABLE"
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=F
echo "  FP_METER_TABLE_X"
tr 71 M=FP_METER_TABLE_X S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_METER_TABLE_X S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_METER_TABLE_X S=0 C=0 TSE=T SLTH=F
echo "  FP_METER_TABLE_Y"
tr 71 M=FP_METER_TABLE_Y S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_METER_TABLE_Y S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_METER_TABLE_Y S=0 C=0 TSE=T SLTH=F
echo "  FP_POLICY_TABLE"
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F
echo "  FP_PORT_FIELD_SEL"
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F
echo "  FP_RANGE_CHECK"
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F
echo "  FP_TCAM"
tr 71 M=FP_TCAM S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=F
echo "  FP_TCAM_PLUS_POLICY"
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=F SLTH=T
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=T SLTH=T
tr 71 M=FP_TCAM_PLUS_POLICY S=0 C=0 TSE=T SLTH=F
echo "  UDF_OFFSET"
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F
echo "  HG_TRUNK_FAILOVER_SET"
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=F SLTH=T
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=T
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=F
echo "  IM_MTP_INDEX"
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F
echo "  ING_L3_NEXT_HOP"
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F
echo "  ING_MOD_MAP"
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=F
echo "  IPORT_TABLE"
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F
echo "  L2MC"
tr 71 M=L2MC S=0 C=0 TSE=F SLTH=T
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=T
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=F
echo "  L2_ENTRY"
tr 71 M=L2_ENTRY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=F
echo "  L2_ENTRY_ONLY"
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L2_HITDA_ONLY"
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L2_HITSA_ONLY"
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L2_MOD_FIFO"
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY"
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY_DATA_ONLY"
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L2_USER_ENTRY_ONLY"
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_DEFIP"
tr 71 M=L3_DEFIP S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=F
echo "  L3_DEFIP_DATA_ONLY"
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_DEFIP_HIT_ONLY"
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_DEFIP_ONLY"
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_ECMP"
tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_HIT_ONLY"
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_IPV4_MULTICAST"
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_IPV4_UNICAST"
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_IPV6_MULTICAST"
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_IPV6_UNICAST"
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_ONLY"
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_ENTRY_VALID_ONLY"
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=F
echo "  L3_IPMC"
tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F
echo "  L3_TUNNEL"
tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F
echo "  PORT_MAC_BLOCK"
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=F
echo "  AGING_CTR"
tr 71 M=AGING_CTR S=0 C=0 TSE=F SLTH=T
tr 71 M=AGING_CTR S=0 C=0 TSE=T SLTH=T
tr 71 M=AGING_CTR S=0 C=0 TSE=T SLTH=F
echo "  AGING_EXP"
tr 71 M=AGING_EXP S=0 C=0 TSE=F SLTH=T
tr 71 M=AGING_EXP S=0 C=0 TSE=T SLTH=T
tr 71 M=AGING_EXP S=0 C=0 TSE=T SLTH=F
echo "  CFAP"
tr 71 M=CFAP S=0 C=0 TSE=F SLTH=T
tr 71 M=CFAP S=0 C=0 TSE=T SLTH=T
tr 71 M=CFAP S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP0"
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP0 S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP1"
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP1 S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP2"
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP2 S=0 C=0 TSE=T SLTH=F
echo "  IPMC_GROUP3"
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_GROUP3 S=0 C=0 TSE=T SLTH=F
echo "  IPMC_VLAN"
tr 71 M=IPMC_VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_VLAN S=0 C=0 TSE=T SLTH=F
echo "  IPMC_VLAN_MEM0"
tr 71 M=IPMC_VLAN_MEM0 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_VLAN_MEM0 S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=IPMC_VLAN_MEM0 S=0 C=0 TSE=T SLTH=F
echo "  IPMC_VLAN_MEM1"
tr 71 M=IPMC_VLAN_MEM1 S=0 C=0 TSE=F SLTH=T
tr 71 M=IPMC_VLAN_MEM1 S=0 C=0 TSE=T SLTH=T
tr 71 M=IPMC_VLAN_MEM1 S=0 C=0 TSE=T SLTH=F
echo "  MODPORT_MAP"
tr 71 M=MODPORT_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=MODPORT_MAP S=0 C=0 TSE=T SLTH=F
echo "  MODPORT_MAP_EM"
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=F SLTH=T
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=T
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=F
echo "  MODPORT_MAP_IM"
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=F SLTH=T
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=T
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=F
echo "  MODPORT_MAP_SW"
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=F SLTH=T
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=T
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=F
echo "  NONUCAST_TRUNK_BLOCK_MASK"
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=T
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=F
echo "  PORT_LAG_FAILOVER_SET"
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=F
echo "  PORT"
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F
echo "  SOURCE_TRUNK_MAP"
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F
echo "  SRC_MODID_BLOCK"
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=F SLTH=T
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=T
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=F
echo "  VLAN_STG"
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F
echo "  TRUNK_BITMAP"
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F
echo "  PORT_TRUNK_EGRESS"
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F
echo "  TRUNK_GROUP"
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F
echo "  VLAN_MAC"
tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F
echo "  VLAN_PROTOCOL"
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=F
echo "  VLAN_PROTOCOL_DATA"
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=F
echo "  VLAN_SUBNET"
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F
echo "  VLAN_SUBNET_DATA_ONLY"
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  VLAN_SUBNET_ONLY"
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=F
echo "  VLAN"
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F
echo "  VLAN_XLATE"
tr 71 M=VLAN_XLATE S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=F
echo "  VLAN_XLATE_DATA_ONLY"
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE_DATA_ONLY S=0 C=0 TSE=T SLTH=F
echo "  VLAN_XLATE_MASK"
tr 71 M=VLAN_XLATE_MASK S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE_MASK S=0 C=0 TSE=T SLTH=T
```

```
tr 71 M=VLAN_XLATE_MASK S=0 C=0 TSE=T SLTH=F
echo "  VLAN_XLATE_ONLY"
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=F SLTH=T
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=T
tr 71 M=VLAN_XLATE_ONLY S=0 C=0 TSE=T SLTH=F
$done

#echo "Running BSAFE Self test"
#tr 65
#$done

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

# L2/L3 hashing tests
if !$?humv '\
echo "Running L2 insert/delete/lookup test ..."; \
tr 32; \
$done; \
\
echo "Running L2 overflow insert test ..."; \
tr 33; \
$done; \
\
echo "Running L2 hash test ...";\
tr 34; \
$done; \
\
echo "Running L2 delete by port test ..."; \
tr 35; \
$done; \
\
echo "Running L2 delete by vlan test ..."; \
tr 36; \
$done; \
\
echo "Running IPV4 overflow insert test ..."; \
tr 87 IPMCEnable=False; \
tr 87 IPMCEnable=True; \
```

```
$done; \
\
echo "Running IPV4 hash test ..."; \
tr 88 IPMCEnable=False; \
tr 88 IPMCEnable=True; \
$done; \
\
echo "Running IPV6 overflow insert test ..."; \
tr 85 IPMCEnable=False; \
tr 85 IPMCEnable=True; \
$done; \
\
echo "Running IPV6 hash test ..."; \
tr 86 IPMCEnable=False; \
tr 86 IPMCEnable=True; \
$done; \
'

echo "Running MDIO Linkscan test"
# Unicore has 2 PHY IDs. The PHY ID changes based on the device configuration.
# Therefore, turn off linkscan before running MDIO linkscan test so that
# the linkscan doesn't change the device configuration while the test is
# running.
linkscan off
tr 60 readcount=10000
$done

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

if !$?humv '\
echo "Testing CPU DMA loopback ..."; \
tr 17 c=5; \
$done; \
'

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done
```

```
# MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100

echo "Testing MAC Loopback - 1000 Mb/s all E ports"
tr 18 pbm=e speed=1000

echo "Testing MAC Loopback - max speed all E ports"
tr 18 pbm=e speed=MAX

echo "Testing MAC Loopback - 10000 Mb/s all HG ports"
tr 18 pbm=hg speed=10G

echo "Testing MAC Loopback - max speed all HG ports"
tr 18 pbm=hg speed=MAX

$done

# PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all E ports"
tr 19 pbm=ge speed=10

echo "Testing PHY Loopback - 100 Mb/s all E ports"
tr 19 pbm=ge speed=100

echo "Testing PHY Loopback - 1000 Mb/s all E ports"
tr 19 pbm=e speed=1000

echo "Testing PHY Loopback - max speed all E ports"
tr 19 pbm=e speed=MAX

echo "Testing PHY Loopback - 10000 Mb/s all HG ports"
tr 19 pbm=hg speed=10G

echo "Testing PHY Loopback - max speed all HG ports"
tr 19 pbm=hg speed=MAX
$done

# Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two
```

```
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 sendm=array

# Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY
$done

# External Loopback
# If you have external loopback cables connected as follows
#       1-2,   3-4,   5-6,   7-8,   9-10,
#       11-12, 13-14, 15-16, 17-18, 19-20
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext10   1
#       setenv ext100  1
#       setenv ext1000 1
#       setenv ext2500 1
#       setenv ext10G  1

# External Loopback on GE port
local fwd 0x55555
local bwd 0xaaaaa
if !$?humv && !$?goldwing && $?ext10 \
        "echo Testing External Loopback - 10 MB/s forward; \
                tr 20 tpbm=$fwd di=1 speed=10 count=10; \
        echo Testing External Loopback - 10 MB/s reverse; \
                tr 20 tpbm=$bwd di=-1 speed=10 count=10"

local fwd 0x55555
local bwd 0xaaaaa
if !$?humv && !$?goldwing && $?ext100 \
        "echo Testing External Loopback - 100 MB/s forward; \
                tr 20 tpbm=$fwd di=1 speed=100 count=10; \
        echo Testing External Loopback - 100 MB/s reverse; \
                tr 20 tpbm=$bwd di=-1 speed=100 count=10"
```

```
local fwd 0x55555
local bwd 0xaaaaa
if !$?humv && $?ext1000 \
      "echo Testing External Loopback - 1000 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
       echo Testing External Loopback - 1000 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

# External Loopback on 2.5 Fiber port
local fwd 0x5555
local bwd 0xaaaa
if $?goldwing && $?ext2500 \
      "echo Testing External Loopback - 1000 MB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=1000 count=10; \
       echo Testing External Loopback - 1000 MB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=1000 count=10"

# External Loopback on XE port
config add pbmp_xport_xe=0xfffff
local fwd 0x55555
local bwd 0xaaaaa
rcload rc.soc
if !$?humv && $?ext10G \
      "echo Testing External Loopback - 10 GB/s forward; \
            tr 20 tpbm=$fwd di=1 speed=10G count=10; \
       echo Testing External Loopback - 10 GB/s reverse; \
            tr 20 tpbm=$bwd di=-1 speed=10G count=10"
config delete pbmp_xport_xe
rcload rc.soc

# External Loopback on HG port

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bsanity.soc

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm5389_a0.c
* Purpose: bcm5389_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm5389_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ddrc28.c,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ddrc28.c
* Purpose:    Phy driver for 28nm combo DDR phy
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ddrc28.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_stat.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 STAT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_stat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_counter.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       caladan3_counter.h
* Purpose:     SBX Software Counter Collection module definitions for CALADAN3.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3_counter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BST - Buffer Statistics Tracking
* Purpose: API to set and manage various BST resources for TH
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/bst.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
```

```
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/sw_state_dump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyfege.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phylocal.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyfege.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_fec.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_fec.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_fec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8072.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8072.c
* Purpose:    Phys Driver support for Broadcom 8072 Serial 10Gig
*             transceiver with XAUI interface.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8072.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id$ *
*                                                                                        *
*  Description   :  Register access macros for EAGLE_PHY_1                              *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
*  company private proprietary, and trade secret.                                        *
*                                                                                        *
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_fields.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/public/eagle_phy_1_fields_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_init.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: allmems.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: allmems.c
* Purpose: Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/allmems.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.23 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE COSQ
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-diag.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/bcm-diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_dnx_cmdlist.h
* Purpose: Extern declarations for command functions and
*          their associated usage strings.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dnxf/diag_dnxf_cmdlist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredCfgBaseEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredCfgBaseEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     port.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/ea/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.78 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains PORT definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* Misc useful os-independent macros and functions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmutils.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmutils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
    Instructions for NFS mounting onto Broadcom SDKs

  Curt McDowell, 10-08-01

(1) Host table entry

  VxWorks NFS requires a host name be used.  You can't mount an IP
  address.  The BCM "host" command allows manipulating the VxWorks
  host table.

  Add a host table entry for your NFS server:

 host add fs-sj1-20 10.16.128.50

(2) NFS authentication

  Use the BCM "nfs" command to set the authorization (numeric user and
  group ID on the server) that will be used for all server file I/O:

 nfs auth fs-sj1-20 10011 20

  Although the name of the file server is required, you may not be
  able to use different authentication parameters on different servers.
```

An optional list of Authorized Group IDs may follow the
authentication group ID.

(3) NFS mounts

Use the BCM "nfs" command to mount a specified server directory
on a SDK path name, for example:

```
nfs mount fs-sj1-20:/vol/vol2/home2/labguy /home/labguy
```

There is a corresponding "nfs unmount" command.

After mounting, you (and .soc or .tcl scripts) can "cd" to
/home/labguy and access the labguy account directly.

(4) Using gateways

In order to mount a filesystem from a server that is not on the
same subnet, set the "gateway" boot parameter to point to the default
router on the SDK's subnet, for example 192.168.2.1.

In the Mousse and IDTRP334 BSPs, Broadcom has modified usrNetwork.c
to add a default route (0.0.0.0) to the gateway router.

(5) Automatic mounts on system startup

Create a BCM script on the flash filesystem to perform the desired
mount commands. For example, create "flash:sysinit.soc" with the
contents:

```
echo Mounting /home/labguy
host add fs-sj1-20 10.16.128.50
nfs auth fs-sj1-20 10011 20
nfs mount fs-sj1-20:/vol/vol2/home2/labguy /home/labguy
# If the following line is used, the default directory for "cd"
# will be changed and rc.soc will be loaded from the new directory.
cd -sethome /home/labguy/boot/current
```

Then in the boot ROM parameters, set the "boot script" parameter
to "flash:sysinit.soc".

The "boot script" is a feature that can be used for general
board initialization procedures. If supplied, this script is run
once per boot, before rc.soc. NOTE: this is independent of rc.soc,
which normally runs once per attached device.

sysinit.soc may mount multiple filesystems.

(6) FTP access

FTP access is (almost) unaffected. You can still use

cd tornado%tornado+\@borg:/home/labguy

to access labguy from FTP access, and plain

cd

will still take you back to the FTP home directory (boot location).

rc.soc is still loaded using FTP so that it comes from the same
directory the image was booted from.

One difference: the command

cd /home/labguy

will now take you to the NFS mounted directory, whereas it used to
take you to the FTP directory:

tornado%tornado+@borg:/home/labguy

However, for backwards compatibility, this new behavior applies only
if anything has been NFS-mounted. Otherwise it behaves the old way.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/NFS.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mspi.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mspi.c
* Purpose:     SPI Master mode Implementation
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/mspi.c
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: hash.c,v 1.59.10.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    hash.c
* Purpose: Caladan3 Hash table lookup libraries
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mpls.c
* Purpose: Manages common MPLS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Register address and value manipulations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/common/reg.c
No license file was found, but licenses were detected in source scan.

```
# $Id: config-higig.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX Higig Application systems.
#
#
```

```
os=unix

# Maximum number of COSes
bcm_num_cos=8

# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# Maximum number of modules in the system (number of XGS + SBX)
num_modules=10

# Set the FE HiGig application support
ucode_feature_hg=1
diag_cosq_init=2
qe_tme_mode=1

# N:1 mode (2) on spi_1
qe_spi_0_full_packet_mode=0
qe_spi_1_full_packet_mode=2
#spi_1_num_tx_subports=17
#spi_1_num_rx_subports=17
qe_spi_1=17

# The maximum number of consecutive timeslots a QE can hold
# priority for transmitting packets which cross timeslots.
hold_pri_max_timeslots=1

# Declare the fabric control ports on the BME (Unit 2)
#
#           +--- port (one based)
#           | +--- unit
#           | | +--- is SCI
#           | | |
#           v v v
port_is_sci.port1.2=1

# By default, run in standalone mode
diag_chassis=0

# Logging can be pointed to a file:
#diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
```

```
qe_spi_0=14
#qe_spi_1=1

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
qe_spi_1_subport_speed.port13.0=10000

# This property must be present for ucode_port properties to be used
# Otherwise, a default front panel to ucode to system port mapping is used
#ucode_num_ports.1=1

# The FE-2000 ucode port property values have the form:
#       fport:sysport
# Where ports are of the form:
#       gex.y      GbE ports, x=0,1, y=0-11
#       xex.y      XG/HG ports, x=0,1, y=0
#       spix.y     SPI-4.2 ports, x=0-1, y=0-63
#       pcix       CPU port, x=0
#
# The `fport' is the front-side port, and the `sysport' is the
# system-side port.
# Most system configurations use a QE-2000 CPU port,
# so the PCI port is typically not mapped to a microcode port.
#
# Note that an attached QE-2000 SPI port mapping must be
# `synchronized' with the FE-2000 SPI port mapping to ensure
# consistent SPI port calendars.  If SPI training fails, this
# is typically because the FE & QE have different calendar
# lengths.
#
# Here is an example configuration with 4 front-side ports
#
#qe_spi_0.0=4
#qe_spi_1.0=0
#ucode_num_ports.1=4
#ucode_port.port1.1=ge0.0:spi0.0
#ucode_port.port2.1=xe0.0:spi0.1
#ucode_port.port3.1=spi1.0:spi0.2
#ucode_port.port4.1=pci0:spi0.3

# To map a microcode port to HG port
#ucode_port.port5.1=hg0:spi0.13

# FE PCI does not deliver an ERH on receive
rx_parse_erh.1=0

# Set these to indicate the FE-2000 wide memory ports are
# connected to 2 x18 RAMs.  Otherwise they are assumed to
```

```
# connect to 1 x 36 RAM
# Broadcom MetroCore FE-2000 reference design uses 2 x18 RAMs
wide_sram0_x18=1
wide_sram1_x18=1

# Needed for sbx diags.
# FE2k reference design uses 4M parts but are only addressable to 2M
# np, 4Mx18 will look like 2Mx36 (FE reads 36 bits (2x18) in one cycle)
# wp, 2(4Mx18) will look like 2Mx72 (FE reads 72 (2x36) bits in one cycle)
wp_addr_width=21
wp_data_width=36
np0_data_width=18
np0_addr_width=21
np1_data_width=18
np1_addr_width=21

qe_mvt_old_configuration=0

# To have both XEs as HiGig use
# remove this line or pbmp_xport_xe 0x0
pbmp_xport_xe=0x1000000

# This is needed only for 12G HiGig
xgxs_lcpll_12gbps=1

# memory table configurations
# These are defaults:
# NOTE - percentages multiplied by 10 to allow for fractional percentages
# (i.e. 10 means 1% and 250 means 25%).
#smac_pyld_percent=250
#dmac_pyld_percent=250
#ipv4_sa_pyld_percent=250
#ipv4_da_pyld_percent=250
#ipv4mc_sg_pyld_percent=100
#ipv4mc_g_pyld_percent=100


#can control which units should come up
#diag_unit_mask=0x1f
#fabric_configuration=2
#bme_num_esets=128
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-higig.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.5 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:    Hurricane2 L2 functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane2/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       robo.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/robo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: compiler.h,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Compiler Specific defines and options
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/compiler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiMemDataEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEiMemDataEntry.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_wb_engine_defs.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_wb_engine_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFabStatus.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFlibStatus.h: Sandburst fabric ilib 2.x driver status codes
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbFabStatus.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name  :  falcon16_tsc_select_defns.h
*  Created On :  29 Sep 2015
*  Created By :  Brent Roberts
*  Description:  Select header files for IP-specific definitions
*  Revision   :
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  No portions of this material may be reproduced in any form without
*  the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
*  All information contained in this document is Broadcom Corporation
*  company private proprietary, and trade secret.
*
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_select_defns.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_metering.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_metering.h
*
* MODULE PREFIX:  soc_ppc_metering
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_metering.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ports.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ports.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_reset.h Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_reset.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apache Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'

counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

local done 'echo "   Done";date'

#Display some useful information
date
ver
soc
config show
show portmap
show params
phy info

dump pcic
```

```
dump pcim
$done

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

init soc
init misc
echo "Running Register read/write ..."
tr 3 mask64
$done

rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running CPU Benchmarks ..."
tr 21
$done

set rct=false
# Usage: BCM.0>apsanity_screen w x y z
# (w,x,y,z can be 50,51,52,71) and in any combination
# By default ie. if no arguments provided, only TR 52,71 are run
echo "Running memory tests ..."
if !"expr $1+0 == 50" || !"expr $2+0 == 50" || !"expr $3+0 == 50" || !"expr $4+0 == 50" \
   'rcload tr50_bcm56560_a0.soc'
if !"expr $1+0 == 51" || !"expr $2+0 == 51" || !"expr $3+0 == 51" || !"expr $4+0 == 51" \
   'rcload tr51_bcm56560_a0.soc'
if !"expr $1+0 == 52" || !"expr $2+0 == 52" || !"expr $3+0 == 52" || !"expr $4+0 == 52" \
   'rcload tr52_bcm56560_a0.soc'
if !"expr $1+0 == 71" || !"expr $2+0 == 71" || !"expr $3+0 == 71" || !"expr $4+0 == 71" \
   'rcload tr71_bcm56560_a0.soc'
if !"expr $1+0 == 0" && !"expr $2+0 == 0" && !"expr $3+0 == 0" && !"expr $4+0 == 0" \
   'rcload tr52_bcm56560_a0.soc' \
   'rcload tr71_bcm56560_a0.soc'
```

```
$done

# Re-initialize to clean up of various read/writes to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
#$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
#$done

#MAC Loopback
echo "Testing MAC Loopback - all E ports"
tr 18 PortBitMap=e Speed=max
$done

#echo "Testing MAC Loopback - 106 Gb/s all HG ports"
#tr 18 PortBitMap=hg Speed=106G
```

```
#$done

#PHY Loopback
echo "Testing PHY Loopback - all E ports"
tr 19 PortBitMap=e Speed=max
$done

#echo "Testing PHY Loopback - 106 Gb/s all HG ports"
#tr 19 PortBitMap=hg Speed=106G
#$done

#echo "Running MAC loopback V2 on all ports ..."
#tr 48 PortBitMap=ce,xe
#tr 48 PortBitMap=xe
#$done

#echo "Running PHY loopback V2 on all ports ..."
#tr 49 PortBitMap=ce,xe
#tr 49 PortBitMap=xe
#$done

#Internal snake Loopback
echo "Running internal snake on all E ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=e Count=1
$done

echo "Running internal snake on all E ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=e Count=1
$done

#Traffic Test
echo "Running Traffic Test in MAC mode on E ports..."
tr 72 RunMode=MAC PortBitMap=e tis=5
$done

echo "Running Traffic Test in EXTERNAL mode on E ports with AutoNeg disabled..."
tr 72 RunMode=EXTERNAL AutoNeg=False PortBitMap=e tis=5
$done

echo "Running Traffic Test in PHY mode on E ports..."
tr 72 RunMode=PHY PortBitMap=e tis=5
$done

# Show status
date
tl
local returnCode $?
```

```
echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/apsanity_screen.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pbsmh.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for managing pbsmh headers
* These are mainly used for debug purposes
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/pbsmh.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  flexport_common.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/flexport/flexport_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tx.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tx.c
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_l3_vrrp.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* Multiple mymac mode allows l2 terminating all l3 protocol packets, according to the mac address.
* Note that to use this functionality you have to disable vrrp apis in your bcm.user (bcm_l3_vrrp_*).
* You can work around this by adding l2 stations with the vrrp mask (00:00:5e:00:01:xx).
* To use this feature, use soc properties
*     l3_vrrp_max_vid=0
*     l3_multiple_mymac_termination_enable=1
* To have different terminating mac addresses for IPv4 and other l3 protocols, use soc property.
*     l3_multiple_mymac_termination_mode=1
*
* Then, use bcm_l2_station_add, as shown in multiple_mymac_termination_example.
*
* To run sample script:
* cd ../../../src/examples/dpp
* cint cint_ip_route.c
* cint cint_l3_vrrp.c
* cint cint_multiple_mymac_term.c
* cint
* multiple_mymac_termination_example(<unit>, <in_port>, <out_port>, <ipv4_distinct>);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_multiple_mymac_term.c
No license file was found, but licenses were detected in source scan.

```
$Id: README.txt,v 1.55 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$


~ Name:
+-----------------------+
|    Link Diagnostic    |
+-----------------------+
~ Description:
```

An example of cint link diagnostic

~ File Reference:
cint_prbs.c

~ Name:
+----------+
| Source-routed data cells |
+----------+
~ Description:
Source-routed data cells generated by CPUs are routed according to the specific path they carry, disregarding reachability information.

~ File Reference:
cint_loopback_sr_cell.c
cint_sr_cell.c

~ Name:
+----------+
| Fabric Egress Multicast |
+----------+
~ Description:
An example of multicast configuration in the fabric and egress.

~ File Reference:
cint_fabric_egress_mc.c

~Name:
+----------+
| Mask Fabric Links Interrupts |
+----------+
~ Description:
An example of masking interrupts for FMAC and FSRD blocks.

~ File Reference:
cint_fabric_links_interrupts.c

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/README.txt
No license file was found, but licenses were detected in source scan.

/*
* $Id: cmu_h.stg,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_cmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_cmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_cmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccm.h, v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    ccm.h
* Purpose: CCM Application definitions common to SDK and uKernel.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/ccm.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************
*** $Copyright: (c) 2016 Broadcom.
*** Broadcom Proprietary and Confidential. All rights reserved.$

This comment contains CVS revision information on the frame
file that was used to generate this code.

  Full path to file: fe-registers.fm

Partial CVS status:
      File: fe-registers.fm   Status: Up-to-date
        Working revision: 1.2 Mon May  6 15:21:36 2002
        Repository revision: 1.2 /cvsdb/arrakis/doc/funcSpec/registers/fe-registers.fm,v

Output of 'md5sum':
      ef90f22cfd130d6df1883a290c37cb22  fe-registers.fm
*******************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_fe_inline.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_nif.c,v 1.153 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_nif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ethdma.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/ethdma.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ethdma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tabledma.c,v 1.101 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Table DMA Test
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/tabledma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: oam.c,v 1.34.4.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*  oam.c
*
* Purpose:
*  OAM implementation for Saber2 family of devices.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/saber2/oam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trunk.c,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trunk.c
* Purpose: BCM level APIs for Link Aggregation (a.k.a Trunking)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/trunk.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaNmPriorityUpdate.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaNmPriorityUpdate.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_extender.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
/*****************************************************************
*
* FILENAME:       $SDK/include/soc/dpp/ARAD/ARAD_PP/arad_pp_extender.h
*
* MODULE PREFIX:  arad_pp_extender_
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_extender.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision      :  $Id: eagle_phy_1_enum.h 1490 2016-08-11 22:26:06Z cvazquez $ *
*                                                                              *
*  Description   :  Enum types used by Serdes API functions                    *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                 *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_enum.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_ssr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       dnx_sand_ssr.c
*
* AUTHOR:         Dune (U.C.)
*
* FILE DESCRIPTION:
*
* REMARKS:
*
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/Management/sand_ssr.c
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------
* : temod_enum_defines.h,
* : n *
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------
*-----------------------------------------------------------------
############### THIS FILE IS AUTOMATICALLY GENERATED.  ###############
############### DO !! NOT !! MANUALLY EDIT THIS FILE.  ###############
*-----------------------------------------------------------------
* Description: This file contains enums, elems, and doxygen comments
* needed for SerDes Configuration programs.
*-----------------------------------------------------------------
* CVS INFORMATION:
* Please see inc/enum_desc.txt for CVS information.
*-----------------------------------------------------------------
*/
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_enum_defines.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_enum_defines.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: hash_mem_test.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic memory table Tests.
*
* Insert/Lookup/Delete, hashing, bucket overflow tests.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/hash_mem_test.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: mcast.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mcast.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcast.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fcoe.h,v 1.1.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains FCOE definitions internal to the BCM library.
*/

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/fcoe.h
No license file was found, but licenses were detected in source scan.

```
/* ****************************************************************
* Common defs for reg spec for chip ca
* Auto-generated by trex2: DO NOT HAND-EDIT!!
* ****************************************************************
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/hal_ca_auto.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wlan.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* WLAN module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/wlan.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_sa_auth.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_sa_auth.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabWredParameters.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
```

* Copyright (c) Sandburst, Inc. 2005
* All Rights Reserved. Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*/
/*
* $Id: sbZfFabWredParameters.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabWredParameters.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: compat_656.h,v 1.0 2016/10/27
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RPC Compatibility with sdk-6.5.6 routines
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/compat/compat_656.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: bcm56218_a0.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm56218_a0.c

* Purpose: bcm56218_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/bcm56218_a0.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEpIpMplsLabels.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpMplsLabels.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: phy84728_int.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84728_int.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbTypesGlue.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Basic types on which all Sandburst code depends
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbTypesGlue.h
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: cpudevs.c,v 1.9 Broadcom SDK $
*

```
* CPU based I2C management
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/cpudevs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: dbucket.h,v 1.27.14.2 Broadcom SDK $
*
* TAPS dram bucket defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/taps/dbucket.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_petra_pp_acc.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_petra_pp_acc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_utils_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_l3_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_jer_modid_group_map_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_stg_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsArrArr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsRegularAllowWbAccess_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_issu_test_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_trill_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dnx_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ipv4_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oamp_pe_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_pmf_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_field_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_sand_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tcam_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_q_type_ref_count_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eg_mirror_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oamp_pe_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_trunk_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_occupation_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsRegular_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_cell_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_trap_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_gport_mgmt_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_field_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_modport2sysport_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vdc_vsi_map_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tdm_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_rx_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_multicast_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_header_data_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_chip_definitions_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tm_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsRegularAllowWbAccess_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_bfd_ipv6_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_shr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_policer_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_bfd_ipv6_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_dram_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_stg_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_layout.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vt_profile_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eth_policer_mtr_profile_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_extender_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tdm_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_lif_linked_list_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_issu_example_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_l2_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_local_lif_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_reassembly_ctxt_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm__switch_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_config_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_overlay_arp_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lif_table_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_issu_test_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_qax_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsArrPtr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_mirror_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lif_cos_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm__switch_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_egr_prog_editor_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vrrp_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_op_mode_layout.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_plus_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_vid_assign_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_stack_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_cell_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_linkbonding_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_op_mode_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_l2_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_kaps_db_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oper_mode_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ilm_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_extender_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_counter_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_oam_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_mim_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_nof_remote_faps_with_remote_credit_value_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsSinglePtr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vt_profile_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_trunk_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_counter_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_sysport2modport_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsStaticArrInt_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_vendor_0_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/layout/sw_state_dpp_bcm_cosq_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vtt_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_cos_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_fwd_mact_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsRegular_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_pp_mpls_term_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_slb_config_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_q_type_map_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_diag_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ipv4_pat_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_l2_lif_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_frwrd_ip_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_l2_lif_ac_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_kaps_db_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_multicast_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_vsi_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_bfd_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eg_mirror_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_reassembly_ctxt_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_chip_definitions_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsArr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_fwd_mact_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exmMixStatDyn_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsStaticArrArr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_rx_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_vlan_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vdc_vsi_map_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lag_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_pp_port_map_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_pmf_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_em_blocks_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_failover_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tm_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_is_tdm_queuing_on_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_filter_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_pon_double_lookup_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_fec_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_kbp_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_ipmc_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_sysport2modport_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oam_my_mac_lsb_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_fec_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_pon_double_lookup_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_policer_size_profile_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_phy_ports_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_phy_ports_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_trill_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tcam_mgmt_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_logical_ports_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_gport_mgmt_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_frwrd_ip_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_occupation_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_filter_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_trap_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lif_cos_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_logical_ports_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lag_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_rif_to_lif_group_map_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vrrp_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_diag_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_local_lif_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_guaranteed_q_resource_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/layout/sw_state_exm_twoLevelsArrArr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_failover_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_egr_prog_editor_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_vid_assign_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eg_encap_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_dbal_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_l2_lif_ac_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsArrPtr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_lif_linked_list_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_policer_size_profile_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_kbp_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_issu_example_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_ipmc_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_linkbonding_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_mirror_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_policer_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_eg_encap_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_header_data_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dnx_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exmMixStatDyn_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_mirror_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_sand_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_vsi_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/layout/sw_state_dpp_soc_jericho_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_dbal_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_oam_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_slb_config_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_pfc_gen_bmp_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_miniExm_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_glif_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_stack_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsPtr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_arad_sw_db_src_binds_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oper_mode_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_bfd_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_plus_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ecmp_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_shr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tcam_mgmt_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_bfd_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_pp_mpls_term_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_q_type_map_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_port_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_em_blocks_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsSinglePtr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_vswitch_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/shared/swstate/layout/sw_state_dpp_bcm_vlan_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_lag_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_miniExm_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsPtr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_pp_port_map_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_twoLevelsStaticArrArr_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_egr_ports_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_interrupts_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_utils_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_lag_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsStaticArrInt_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ipv4_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_port_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_mim_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_bfd_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oam_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_oam_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_alloc_mngr_glif_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_config_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_qos_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_l3_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_exm_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ipv4_pat_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_exm_twoLevelsArr_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_tcam_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_l2_lif_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_modport2sysport_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_qos_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_vendor_0_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_vtt_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_mirror_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_bcm_vswitch_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_jer_modid_group_map_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_dram_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_qax_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_q_type_ref_count_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_llp_cos_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_tm_arad_egr_ports_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ilm_info_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_soc_arad_pp_ecmp_info_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_lif_table_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_jericho_tm_ingress_reserved_resource_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/layout/sw_state_dpp_bcm_cosq_layout.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_tm_interrupts_layout.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/layout/sw_state_dpp_soc_arad_pp_overlay_arp_layout.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: low_level_defines.csv,v 1.1.2.5 Broadcom SDK $
*

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_qux_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_arad_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_ardon_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_jericho_plus_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_flair_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_flair_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_jericho_plus_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_qux_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_ardon_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_jericho_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_jericho_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_config_imp_defs.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_arad_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_ardon_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_arad_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/soc_dpp_qax_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_config_imp_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_qax_config_imp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/soc_dpp_jericho_config_imp_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_ctrl.c,v 1.1.2.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phymod_ctrl.c
* Purpose:    Interface functions for PHYMOD
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phymod_port_control.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phymod_ctrl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-core-symbols.h,v 1.268 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-core/bcm-core-symbols.h
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright 2001, Broadcom Corporation
* All Rights Reserved.
*
* This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
```

```
* the contents of this file may not be disclosed to third parties, copied or
* duplicated in any form, in whole or in part, without the prior written
* permission of Broadcom Corporation.
*
* Fundamental types and constants relating to 802.11
*
* $Id: 802.11.h,v 1.1 2004/02/24 07:47:01 csm Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/proto/802.11.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.1.10.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx_utils.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/rx_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_0Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_0Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.333 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE STAT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe/stat.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: phy8806x_tsc_interface.h 1337 2016-02-04 00:15:32Z kirand $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
```

```
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/phy8806x_tsc/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* phy8806x_tsc_interface.h - provides the primary functionality.
*
* phy8806x_tsc_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.35 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     port.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QoS module
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/qos.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpVlanIndTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpVlanIndTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemQCtlEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemQCtlEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: macipadr.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       macipadr.h
* Purpose:    Typedefs for MAC and IP addresses
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/macipadr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemQCtlEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgMemQCtlEntry.hx

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_acc.h,v 1.1.2.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_acc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_T20E.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_T20E.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: headers.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the various header formats for Dune DNX_SAND
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/headers.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* In-band cell configuration and Source Routed Cell.
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/cosq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/cosq.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* CALADAN3 OAM API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/bfd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: driver.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       board_int/driver.h
* Purpose:    board driver interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board_int/driver.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_stat_if.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_stat_if.c
No license file was found, but licenses were detected in source scan.

```
/*
*
```

```
* $Id: phymod.xml,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier2/huracan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier2/eagle_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier2/huracan_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf16/tier2/tscf16_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/tier2/qsgmiie.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier2/dino.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier2/madura.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier2/sesto_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier2/merlin16.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia_82212/tier2/furia_82212_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier2/quadra28_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/tier2/qsgmiie_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier2/dino_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier2/eagle.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier2/phy8806x_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier2/viper_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier2/falcon16.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier2/falcon_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier2/madura_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/sesto/tier2/sesto.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier2/falcon.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier2/falcon16_diagnostics.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier2/viper.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia_82212/tier2/furia_82212.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_tx_analog_functions.c                                        *
*  Created On    :  29/04/2013                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  Functions to Configure Merlin TXFIR                                 *
*  Revision      :  $Id: merlin_tx_analog_functions.c 1389 2016-04-06 21:38:57Z kirand $ *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_tx_analog_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: voyager_service.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/voyager/voyager_service.c
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************
*
* Copyright 2000,2001
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license to Wind River Systems, Inc.
* and may be used only in accordance with the terms and conditions of
* this license.  No title or ownership is transferred hereby.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250MacEnd.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250MacEnd.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_line_tgs.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_line_tgs.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmrbtree_impl.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmrbtree_impl.h
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom Gigabit Ethernet MAC defines.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: etcgmac.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/etcgmac.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_default_section.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_default_section.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcdefault
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_default_section.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_ac.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_ac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpPrepend.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpPrepend.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File for SOC Bond Options Info structures and routines
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/bondoptions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm9600.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm9600.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint QOS Setup example code for MPLS
* In the CINT example we present 2 different functions of QOS in MPLS world:
```

```
* 1. Mapping from Incoming MPLS-EXP label to Internal TC+DP. It will allow the user to set the traffic
*    management COS according to MPLS label.
* 2. Mapping from Internal TC-DP to Outgoing MPLS label. Allow to signal Traffic management COS into the
*    MPLS label.
*
* copy to /usr/local/sbin location, run bcm.user
*
* Run script:
*
* cint ../../../../src/examples/dpp/cint_port_tpid.c
* cint ../../../../src/examples/dpp/cint_qos.c
* cint ../../../../src/examples/dpp/utility/cint_utils_l3.c
* cint ../../../../src/examples/dpp/cint_mpls_lsr.c
* cint ../../../../src/examples/dpp/cint_multi_device_utils.c
* c
* int inP = 201;
* int outP = 202;
* qos_run(unit,inP,outP);
*
* Traffic example, MPLS LSR:
*  The formation of the packet and the received packet are determined by the activation of qos_run.
*  Ethernet DA: 00:00:00:00:00:11 , SA: 00:00:63:DE:1A:13 , VLAN: TPID 0x8100 , VID 100;   MPLS:
Label:5000, EXP:0
*  Expect:
*  MPLS LABEL 8000, EXP 2
*  Ethernet DA 00:00:00:00:00:22, SA 00:00:00:00:00:11
*
* Please note the the in-EXP can be substituted by any of the values in the following table.
* Expect the matching out-EXP.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/cint_qos.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pw_raw_tag_mode.c,v 1.00 2016/05/29 12:19:51 Jingli Guo $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pw_raw_tag_mode.c
* Purpose: Example of Native EVE of  QAX feature.
*              In this example, this feature is used to support raw/tag mode of PWE.
*
* Attachment circuit (AC): Ethernet port attached to the service based on port-vlan-vlan,
*                       connect from access side.
* PWE: Virtual circuit attached to the service based on VC-label. Connect to the MPLS
```

```
*     network side.
*
*
~~~
```

```
* -   Access-P1: Access port, defined on port 1 with outer-VID 10 and inner-VID 20.
* -   PWE-1: network port with incoming VC = 2010, egress-VC = 1982 defined over two tunnels 1000 and 1002.
* -   For access ports outer-Tag TPID is 0x8100 and inner Tag TPID is 0x9100.
* -   P2 refers to the physical ports Access-P1 and Access-P2 are attached to.
* -   PWE1 and PWE2 refers to MPLS network ports.
* -   P1 refers to the physical ports PWE1 and PWE2 are attached to.
*
* Headers:
*
*   ~~~
```

```
*   ~~~
```

master/src/examples/dpp/cint_pw_raw_tag_mode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tr_hash.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TRX Hash Table Tests.
*
* Insert/Lookup/Delete, hashing, bucket overflow tests.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/tr_hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: common.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc_common.c
* Purpose:     Common functions for soc drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/common.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbusdma_test.c,v 1.101 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SBUS DMA Test
*
* The SBUS DMA test writes/reads a table with one or more CMC/channel. It
* initializes a source memory image with random values. Then, it kicks off a
* register/descriptor based SBUS DMA write from the source memory to the table.
* As soon as the write finishes, it kicks off another register/descriptor based
* SBUS DMA read from the table to a destination memory. Data integrity check is
* done by comparing the source and destination memories are compared with the
* reserved and parity/ECC fields excluded. Write and read performance in MB/s
* and transfer/s are calculated from the set up of the first DMA to the finish
```

```
* of the second DMA.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/sbusdma_test.c
No license file was found, but licenses were detected in source scan.

```
# $Id$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc

echo "there are 3623 more memories to test.";echo "tr 71 M=AGM_MONITOR_TABLE Start=0 Count=1 SlamLowToHigh=0";tr 71 M=AGM_MONITOR_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3622 more memories to test.";echo "tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ALTERNATE_EMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3621 more memories to test.";echo "tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0";tr 71 M=BCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3620 more memories to test.";echo "tr 71 M=CENTRAL_CTR_EVICTION_FIFO Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CENTRAL_CTR_EVICTION_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3619 more memories to test.";echo "tr 71 M=CLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3618 more memories to test.";echo "tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=PORT_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3617 more memories to test.";echo "tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0";tr 71 M=COS_MAP_SEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3616 more memories to test.";echo "tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3615 more memories to test.";echo "tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3614 more memories to test.";echo "tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_COS_MAP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3613 more memories to test.";echo "tr 71 M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0";tr 71 M=CPU_PBM Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3612 more memories to test.";echo "tr 71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=CPU_PBM_2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3611 more memories to test.";echo "tr 71 M=CPU_TS_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=CPU_TS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3610 more memories to test.";echo "tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DEST_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3609 more memories to test.";echo "tr 71 M=DEVICE_LOOPBACK_PORTS_BITMAP Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DEVICE_LOOPBACK_PORTS_BITMAP Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3608 more memories to test.";echo "tr 71 M=DLB_ECMP_EEM_CONFIGURATION Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DLB_ECMP_EEM_CONFIGURATION Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3607 more memories to test.";echo "tr 71 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3606 more memories to test.";echo "tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3605 more memories to test.";echo "tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3604 more memories to test.";echo "tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3603 more memories to test.";echo "tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3602 more memories to test.";echo "tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3601 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3600 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3599 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3598 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3597 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3596 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_MEMBER_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3595 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3594 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_PIPE1 Start=0 Count=1
```

SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3593 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3592 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3591 more memories to test.";echo "tr 71 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3590 more memories to test.";echo "tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3589 more memories to test.";echo "tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3588 more memories to test.";echo "tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3587 more memories to test.";echo "tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_FLOWSET_TIMESTAMP_PAGE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3586 more memories to test.";echo "tr 71 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GLB_QUANTIZE_THRESHOLD Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3585 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3584 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_MEMBERSHIP Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3583 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_PORT_TO_MEMBER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_PORT_TO_MEMBER Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3582 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_STATS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_STATS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3581 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_STATS_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_STATS_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3580 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_STATS_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_STATS_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3579 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_STATS_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_STATS_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3578 more memories to test.";echo "tr 71 M=DLB_ECMP_GROUP_STATS_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_GROUP_STATS_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3577 more memories to test.";echo "tr 71 M=DLB_ECMP_LINK_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=DLB_ECMP_LINK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";

```
echo "there are 3576 more memories to test.";echo "tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3575 more memories to test.";echo "tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3574 more memories to test.";echo "tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3573 more memories to test.";echo "tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3572 more memories to test.";echo "tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_OPTIMAL_CANDIDATE_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3571 more memories to test.";echo "tr 71 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3570 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3569 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3568 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3567 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3566 more memories to test.";echo "tr 71 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_INST_QUALITY_MEASURE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3565 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3564 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3563 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3562 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_PORT_INST_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3561 more memories to test.";echo "tr 71 M=DLB_ECMP_PORT_QUALITY_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_QUALITY_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 3560 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL Start=0 Count=1 SlamLowToHigh=0";tr
71 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3559 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3558 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3557 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3556 more memories to test.";echo "tr 71
M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_ECMP_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3555 more memories to test.";echo "tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3554 more memories to test.";echo "tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3553 more memories to test.";echo "tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3552 more memories to test.";echo "tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3551 more memories to test.";echo "tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_ECMP_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3550 more memories to test.";echo "tr 71 M=DLB_ECMP_QUANTIZE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_ECMP_QUANTIZE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3549 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_EEM_CONFIGURATION Start=0
Count=0 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_EEM_CONFIGURATION Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3548 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_ETHERTYPE_ELIGIBILITY_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3547 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3546 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3545 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3544 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3543 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FINAL_MEMBERS_QUALITY_MEASURE_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3542 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3541 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3540 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3539 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3538 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3537 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3536 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3535 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3534 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
```

"done";
echo "there are 3533 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_FLOWSET_TIMESTAMP_PAGE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3532 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GLB_QUANTIZE_THRESHOLD Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3531 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3530 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3529 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_STATS Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_STATS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3528 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3527 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3526 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3525 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_GROUP_STATS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3524 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_LINK_CONTROL Start=0 Count=0 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_LINK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3523 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3522 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3521 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3520 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3519 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_OPTIMAL_CANDIDATE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3518 more memories to test.";echo "tr 71

```
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3517 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3516 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3515 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3514 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3513 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3512 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3511 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3510 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3509 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_PORT_INST_QUALITY_MEASURE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3508 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3507 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3506 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE0
Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3505 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE1
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3504 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE2
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3503 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_PORT_QUALITY_UPDATE_MEASURE_CONTROL_PIPE3
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3502 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3501 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3500 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3499 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3498 more memories to test.";echo "tr 71
M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_QUANTIZED_AVG_QUALITY_MEASURE_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3497 more memories to test.";echo "tr 71 M=DLB_HGT_LAG_QUANTIZE_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DLB_HGT_LAG_QUANTIZE_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3496 more memories to test.";echo "tr 71 M=DSCP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3495 more memories to test.";echo "tr 71 M=DST_COMPRESSION Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DST_COMPRESSION Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3494 more memories to test.";echo "tr 71 M=DST_COMPRESSION_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3493 more memories to test.";echo "tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3492 more memories to test.";echo "tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 3491 more memories to test.";echo "tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3490 more memories to test.";echo "tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_DATA_ONLY_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3489 more memories to test.";echo "tr 71 M=DST_COMPRESSION_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3488 more memories to test.";echo "tr 71 M=DST_COMPRESSION_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3487 more memories to test.";echo "tr 71 M=DST_COMPRESSION_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3486 more memories to test.";echo "tr 71 M=DST_COMPRESSION_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3485 more memories to test.";echo "tr 71 M=DST_COMPRESSION_TCAM_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_TCAM_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3484 more memories to test.";echo "tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3483 more memories to test.";echo "tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3482 more memories to test.";echo "tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3481 more memories to test.";echo "tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=DST_COMPRESSION_TCAM_ONLY_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3480 more memories to test.";echo "tr 71 M=ECMP_DLB_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ECMP_DLB_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3479 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3478 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3477 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3476 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3475 more memories to test.";echo "tr 71 M=EFP_COUNTER_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_COUNTER_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3474 more memories to test.";echo "tr 71 M=EFP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3473 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3472 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3471 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3470 more memories to test.";echo "tr 71 M=EFP_METER_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_METER_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3469 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3468 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3467 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3466 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3465 more memories to test.";echo "tr 71 M=EFP_POLICY_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_POLICY_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3464 more memories to test.";echo "tr 71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3463 more memories to test.";echo "tr 71 M=EFP_TCAM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_TCAM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3462 more memories to test.";echo "tr 71 M=EFP_TCAM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_TCAM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3461 more memories to test.";echo "tr 71 M=EFP_TCAM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_TCAM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3460 more memories to test.";echo "tr 71 M=EFP_TCAM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EFP_TCAM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3459 more memories to test.";echo "tr 71 M=EGR_1588_SA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_1588_SA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3458 more memories to test.";echo "tr 71 M=EGR_DSCP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DSCP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3457 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3456 more memories to test.";echo "tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_DVP_ATTRIBUTE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3455 more memories to test.";echo "tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3454 more memories to test.";echo "tr 71 M=EGR_ENABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ENABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3453 more memories to test.";echo "tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3452 more memories to test.";echo "tr 71 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_EXP_TO_INT_CN_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3451 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3450 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3449 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 3448 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3447 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3446 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3445 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3444 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3443 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3442 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3441 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3440 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3439 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3438 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3437 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3436 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3435 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3434 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3433 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 3432 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3431 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3430 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3429 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3428 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3427 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3426 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3425 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3424 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3423 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3422 more memories to test.";echo "tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3421 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3420 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3419 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3418 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3417 more memories to test.";echo "tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_FRAGMENT_ID_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3416 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3415 more memories to test.";echo "tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=EGR_GPP_ATTRIBUTES_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3414 more memories to test.";echo "tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3413 more memories to test.";echo "tr 71 M=EGR_ING_PORT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_ING_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3412 more memories to test.";echo "tr 71 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_INT_CN_TO_EXP_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3411 more memories to test.";echo "tr 71 M=EGR_INT_CN_TO_IP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_INT_CN_TO_IP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3410 more memories to test.";echo "tr 71 M=EGR_INT_CN_UPDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_INT_CN_UPDATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3409 more memories to test.";echo "tr 71 M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3408 more memories to test.";echo "tr 71 M=EGR_IP_CUT_THRU_CLASS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_CUT_THRU_CLASS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3407 more memories to test.";echo "tr 71 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_IP_ECN_TO_EXP_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3406 more memories to test.";echo "tr 71 M=EGR_IP_TO_INT_CN_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TO_INT_CN_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3405 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3404 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_IPV6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3403 more memories to test.";echo "tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_IP_TUNNEL_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3402 more memories to test.";echo "tr 71 M=EGR_L3_INTF Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_INTF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3401 more memories to test.";echo "tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3400 more memories to test.";echo "tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MACDA_OUI_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3399 more memories to test.";echo "tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAC_DA_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3398 more memories to test.";echo "tr 71 M=EGR_MAP_MH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MAP_MH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3397 more memories to test.";echo "tr 71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_MASK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3396 more memories to test.";echo "tr 71 M=EGR_MASK_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MASK_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3395 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_CONTROL Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3394 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3393 more memories to test.";echo "tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MIRROR_ENCAP_DATA_2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3392 more memories to test.";echo "tr 71 M=EGR_MMU_CELL_CREDIT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MMU_CELL_CREDIT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3391 more memories to test.";echo "tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3390 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3389 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_MAPPING_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3388 more memories to test.";echo "tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_EXP_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3387 more memories to test.";echo "tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_MPLS_PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3386 more memories to test.";echo "tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3385 more memories to test.";echo "tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_NAT_PACKET_EDIT_INFO Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3384 more memories to test.";echo "tr 71 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EGR_OUTER_PRI_CFI_MAPPING_FOR_BYPASS Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3383 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3382 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3381 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3380 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3379 more memories to test.";echo "tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PERQ_XMT_COUNTERS_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3378 more memories to test.";echo "tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_PER_PORT_BUFFER_SFT_RESET Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3377 more memories to test.";echo "tr 71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_PORT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3376 more memories to test.";echo "tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PORT_CREDIT_RESET Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3375 more memories to test.";echo "tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3374 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3373 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3372 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3371 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3370 more memories to test.";echo "tr 71 M=EGR_PW_INIT_COUNTERS_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_PW_INIT_COUNTERS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 3369 more memories to test.";echo "tr 71 M=EGR_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3368 more memories to test.";echo "tr 71 M=EGR_SER_FIFO_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3367 more memories to test.";echo "tr 71 M=EGR_SER_FIFO_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3366 more memories to test.";echo "tr 71 M=EGR_SER_FIFO_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 3365 more memories to test.";echo "tr 71 M=EGR_SER_FIFO_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_SER_FIFO_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3364 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3363 more memories to test.";echo "tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TRILL_PARSE_CONTROL_2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3362 more memories to test.";echo "tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_TRILL_RBRIDGE_NICKNAMES Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3361 more memories to test.";echo "tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TRILL_TREE_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3360 more memories to test.";echo "tr 71 M=EGR_TS_ING_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TS_ING_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3359 more memories to test.";echo "tr 71 M=EGR_TS_UTC_CONVERSION Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EGR_TS_UTC_CONVERSION Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3358 more memories to test.";echo "tr 71 M=EGR_TUNNEL_ECN_ENCAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TUNNEL_ECN_ENCAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3357 more memories to test.";echo "tr 71 M=EGR_TUNNEL_ECN_ENCAP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_TUNNEL_ECN_ENCAP_2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3356 more memories to test.";echo "tr 71 M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EGR_VFI Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3355 more memories to test.";echo "tr 71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0";tr
71 M=EGR_VLAN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3354 more memories to test.";echo "tr 71 M=EGR_VLAN_STG Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_STG Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3353 more memories to test.";echo "tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3352 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3351 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3350 more memories to test.";echo "tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3349 more memories to test.";echo "tr 71 M=EGR_VNTAG_ETAG_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VNTAG_ETAG_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3348 more memories to test.";echo "tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3347 more memories to test.";echo "tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VPLAG_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3346 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3345 more memories to test.";echo "tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ECC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_VP_VLAN_MEMBERSHIP_ECC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3344 more memories to test.";echo "tr 71 M=EGR_VXLT_ACTION_TABLE_A Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VXLT_ACTION_TABLE_A Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3343 more memories to test.";echo "tr 71 M=EGR_VXLT_ACTION_TABLE_B Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VXLT_ACTION_TABLE_B Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3342 more memories to test.";echo "tr 71 M=EGR_VXLT_REMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VXLT_REMAP_TABLE_A Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3341 more memories to test.";echo "tr 71 M=EGR_VXLT_REMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_VXLT_REMAP_TABLE_B Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3340 more memories to test.";echo "tr 71 M=EGR_XMIT_START_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EGR_XMIT_START_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3339 more memories to test.";echo "tr 71 M=EGR_XMIT_START_COUNT_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_XMIT_START_COUNT_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3338 more memories to test.";echo "tr 71 M=EGR_XMIT_START_COUNT_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_XMIT_START_COUNT_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3337 more memories to test.";echo "tr 71 M=EGR_XMIT_START_COUNT_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_XMIT_START_COUNT_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 3336 more memories to test.";echo "tr 71 M=EGR_XMIT_START_COUNT_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EGR_XMIT_START_COUNT_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3335 more memories to test.";echo "tr 71 M=EH_MASK_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EH_MASK_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3334 more memories to test.";echo "tr 71 M=EH_MASK_PROFILE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EH_MASK_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3333 more memories to test.";echo "tr 71 M=EH_MASK_PROFILE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EH_MASK_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3332 more memories to test.";echo "tr 71 M=EH_MASK_PROFILE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EH_MASK_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3331 more memories to test.";echo "tr 71 M=EH_MASK_PROFILE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EH_MASK_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3330 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3329 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3328 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3327 more memories to test.";echo "tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EMIRROR_CONTROL3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3326 more memories to test.";echo "tr 71 M=EM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3325 more memories to test.";echo "tr 71 M=EPC_LINK_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=EPC_LINK_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
if $?fpem_mem_entries 'echo "there are 3324 more memories to test.";echo "tr 71 M=EXACT_MATCH_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3323 more memories to test.";echo "tr 71
M=EXACT_MATCH_2_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_2_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3322 more memories to test.";echo "tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3321 more memories to test.";echo "tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3320 more memories to test.";echo "tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3319 more memories to test.";echo "tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_2_ENTRY_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3318 more memories to test.";echo "tr 71 M=EXACT_MATCH_2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3317 more memories to test.";echo "tr 71 M=EXACT_MATCH_2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
```

```
if $?fpem_mem_entries 'echo "there are 3316 more memories to test.";echo "tr 71 M=EXACT_MATCH_2_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3315 more memories to test.";echo "tr 71 M=EXACT_MATCH_2_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3314 more memories to test.";echo "tr 71 M=EXACT_MATCH_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_4 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3313 more memories to test.";echo "tr 71
M=EXACT_MATCH_4_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_4_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3312 more memories to test.";echo "tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3311 more memories to test.";echo "tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3310 more memories to test.";echo "tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3309 more memories to test.";echo "tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_4_ENTRY_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3308 more memories to test.";echo "tr 71 M=EXACT_MATCH_4_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_4_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3307 more memories to test.";echo "tr 71 M=EXACT_MATCH_4_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_4_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3306 more memories to test.";echo "tr 71 M=EXACT_MATCH_4_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_4_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3305 more memories to test.";echo "tr 71 M=EXACT_MATCH_4_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_4_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
echo "there are 3304 more memories to test.";echo "tr 71 M=EXACT_MATCH_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3303 more memories to test.";echo "tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3302 more memories to test.";echo "tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3301 more memories to test.";echo "tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3300 more memories to test.";echo "tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE3
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_ACTION_PROFILE_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3299 more memories to test.";echo "tr 71 M=EXACT_MATCH_DEFAULT_POLICY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_DEFAULT_POLICY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3298 more memories to test.";echo "tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3297 more memories to test.";echo "tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3296 more memories to test.";echo "tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3295 more memories to test.";echo "tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_DEFAULT_POLICY_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
if $?fpem_mem_entries 'echo "there are 3294 more memories to test.";echo "tr 71
M=EXACT_MATCH_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_HIT_ONLY
Start=0 Count=1 SlamLowToHigh=0;echo "done";'
echo "there are 3293 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3292 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3291 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3290 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3289 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_MASK_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3288 more memories to test.";echo "tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3287 more memories to test.";echo "tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3286 more memories to test.";echo "tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3285 more memories to test.";echo "tr 71
M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
```

M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3284 more memories to test.";echo "tr 71 M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_KEY_GEN_PROGRAM_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3283 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3282 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3281 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3280 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3279 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3278 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3277 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3276 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3275 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3274 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3273 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3272 more memories to test.";echo "tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 Start=0

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3271 more memories to test.";echo "tr 71
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3270 more memories to test.";echo "tr 71
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3269 more memories to test.";echo "tr 71
M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=EXACT_MATCH_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3268 more memories to test.";echo "tr 71 M=EXACT_MATCH_QOS_ACTIONS_PROFILE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=EXACT_MATCH_QOS_ACTIONS_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3267 more memories to test.";echo "tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3266 more memories to test.";echo "tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3265 more memories to test.";echo "tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3264 more memories to test.";echo "tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=EXACT_MATCH_QOS_ACTIONS_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3263 more memories to test.";echo "tr 71 M=FAST_TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FAST_TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
if $?fpem_mem_entries 'echo "there are 3262 more memories to test.";echo "tr 71 M=FPEM_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FPEM_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3261 more memories to test.";echo "tr 71 M=FPEM_ECC_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FPEM_ECC_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3260 more memories to test.";echo "tr 71 M=FPEM_ECC_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FPEM_ECC_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3259 more memories to test.";echo "tr 71 M=FPEM_ECC_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FPEM_ECC_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3258 more memories to test.";echo "tr 71 M=FPEM_ECC_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=FPEM_ECC_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?fpem_mem_entries 'echo "there are 3257 more memories to test.";echo "tr 71 M=FPEM_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FPEM_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";'
echo "there are 3256 more memories to test.";echo "tr 71 M=GTP_PORT_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=GTP_PORT_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3255 more memories to test.";echo "tr 71 M=HGT_DLB_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HGT_DLB_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3254 more memories to test.";echo "tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 3253 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3252 more memories to test.";echo "tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3251 more memories to test.";echo "tr 71 M=HG_TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3250 more memories to test.";echo "tr 71 M=HG_TRUNK_RR_CNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_RR_CNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3249 more memories to test.";echo "tr 71 M=HG_TRUNK_RR_CNT_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_RR_CNT_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3248 more memories to test.";echo "tr 71 M=HG_TRUNK_RR_CNT_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_RR_CNT_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3247 more memories to test.";echo "tr 71 M=HG_TRUNK_RR_CNT_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_RR_CNT_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3246 more memories to test.";echo "tr 71 M=HG_TRUNK_RR_CNT_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_RR_CNT_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3245 more memories to test.";echo "tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3244 more memories to test.";echo "tr 71 M=HG_TRUNK_MODE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=HG_TRUNK_MODE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3243 more memories to test.";echo "tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=HIGIG_TRUNK_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3242 more memories to test.";echo "tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ICONTROL_OPCODE_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3241 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3240 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3239 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3238 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3237 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3236 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3235 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3234 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3233 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3232 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3231 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3230 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3229 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3228 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3227 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3226 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3225 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3224 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3223 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3222 more memories to test.";echo "tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM0_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3221 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3220 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3219 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3218 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3217 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3216 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3215 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3214 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3213 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3212 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3211 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3210 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3209 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3208 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3207 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3206 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3205 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3204 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3203 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3202 more memories to test.";echo "tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3201 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3200 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3199 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3198 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3197 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3196 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3195 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3194 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3193 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3192 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3191 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3190 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3189 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3188 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3187 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3186 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3185 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3184 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3183 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3182 more memories to test.";echo "tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM0_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3181 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3180 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3179 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3178 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3177 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3176 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3175 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3174 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3173 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3172 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3171 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3170 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3169 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3168 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3167 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3166 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3165 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3164 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3163 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3162 more memories to test.";echo "tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM10_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3161 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3160 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3159 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3158 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3157 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3156 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3155 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3154 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3153 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3152 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3151 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3150 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3149 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3148 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3147 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3146 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3145 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3144 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3143 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3142 more memories to test.";echo "tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3141 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3140 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3139 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3138 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3137 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
```

SlamLowToHigh=0;echo "done";
echo "there are 3136 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3135 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3134 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3133 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3132 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3131 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3130 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3129 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3128 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3127 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3126 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3125 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3124 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3123 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3122 more memories to test.";echo "tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM10_PRI_MAP_PORT3_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3121 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo

"done";
echo "there are 3120 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3119 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3118 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3117 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3116 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3115 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3114 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3113 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3112 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3111 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3110 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3109 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3108 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3107 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3106 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3105 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1

SlamLowToHigh=0;echo "done";
echo "there are 3104 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3103 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3102 more memories to test.";echo "tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM11_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 3101 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3100 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3099 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3098 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3097 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3096 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3095 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3094 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3093 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3092 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3091 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3090 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3089 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0

```
SlamLowToHigh=0;echo "done";
echo "there are 3088 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3087 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3086 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3085 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3084 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3083 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3082 more memories to test.";echo "tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3081 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3080 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3079 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3078 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3077 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3076 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3075 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3074 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3073 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3072 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3071 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3070 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3069 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3068 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3067 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3066 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3065 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3064 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3063 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3062 more memories to test.";echo "tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM11_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3061 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3060 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3059 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3058 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3057 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3056 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3055 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3054 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3053 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3052 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3051 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3050 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3049 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3048 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3047 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3046 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3045 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3044 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3043 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3042 more memories to test.";echo "tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM12_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 3041 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
```

"done";
echo "there are 3040 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3039 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3038 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3037 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3036 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3035 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3034 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3033 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3032 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3031 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3030 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3029 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3028 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3027 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3026 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 3025 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0

```
SlamLowToHigh=0;echo "done";
echo "there are 3024 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3023 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3022 more memories to test.";echo "tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3021 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3020 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3019 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3018 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3017 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3016 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3015 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3014 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3013 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3012 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3011 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3010 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3009 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 3008 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3007 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3006 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 3005 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3004 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3003 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3002 more memories to test.";echo "tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM12_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 3001 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 3000 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2999 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2998 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2997 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2996 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2995 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2994 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2993 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2992 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2991 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2990 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2989 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2988 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2987 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2986 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2985 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2984 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2983 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2982 more memories to test.";echo "tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM13_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2981 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2980 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2979 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2978 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2977 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2976 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2975 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2974 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2973 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2972 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2971 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2970 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2969 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2968 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2967 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2966 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2965 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2964 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2963 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2962 more memories to test.";echo "tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2961 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
```

"done";
echo "there are 2960 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2959 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2958 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2957 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2956 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2955 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2954 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2953 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2952 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2951 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2950 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2949 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2948 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2947 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2946 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2945 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE0 Start=0 Count=0

```
SlamLowToHigh=0;echo "done";
echo "there are 2944 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2943 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2942 more memories to test.";echo "tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM13_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2941 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2940 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2939 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2938 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2937 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2936 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2935 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2934 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2933 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2932 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2931 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2930 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2929 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2928 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2927 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2926 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2925 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2924 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2923 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2922 more memories to test.";echo "tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM14_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2921 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2920 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2919 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2918 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2917 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2916 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2915 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2914 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2913 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2912 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2911 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2910 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2909 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2908 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2907 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2906 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2905 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2904 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2903 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2902 more memories to test.";echo "tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2901 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2900 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2899 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2898 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2897 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2896 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2895 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2894 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2893 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2892 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2891 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2890 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2889 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2888 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2887 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2886 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2885 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2884 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2883 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2882 more memories to test.";echo "tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM14_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2881 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
```

"done";
echo "there are 2880 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2879 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2878 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2877 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2876 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2875 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2874 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2873 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2872 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2871 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2870 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2869 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2868 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2867 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2866 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2865 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1

SlamLowToHigh=0;echo "done";
echo "there are 2864 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2863 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2862 more memories to test.";echo "tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM15_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2861 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2860 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2859 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2858 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2857 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2856 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2855 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2854 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2853 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2852 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2851 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2850 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2849 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0

```
SlamLowToHigh=0;echo "done";
echo "there are 2848 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2847 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2846 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2845 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2844 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2843 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2842 more memories to test.";echo "tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2841 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2840 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2839 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2838 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2837 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2836 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2835 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2834 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2833 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2832 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2831 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2830 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2829 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2828 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2827 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2826 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2825 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2824 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2823 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2822 more memories to test.";echo "tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM15_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2821 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2820 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2819 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2818 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2817 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2816 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2815 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2814 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2813 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2812 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2811 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2810 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2809 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2808 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2807 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2806 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2805 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2804 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2803 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2802 more memories to test.";echo "tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM1_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2801 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 2800 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2799 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2798 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2797 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2796 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2795 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2794 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2793 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2792 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2791 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2790 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2789 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2788 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2787 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2786 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2785 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2784 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2783 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2782 more memories to test.";echo "tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2781 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2780 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2779 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2778 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2777 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2776 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2775 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2774 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2773 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2772 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2771 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2770 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2769 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2768 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2767 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2766 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2765 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2764 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2763 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2762 more memories to test.";echo "tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM1_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2761 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2760 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2759 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2758 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2757 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2756 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2755 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2754 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2753 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2752 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2751 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2750 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2749 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2748 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2747 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2746 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2745 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2744 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2743 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2742 more memories to test.";echo "tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM2_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2741 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2740 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2739 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2738 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2737 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2736 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 2735 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2734 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2733 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2732 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2731 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2730 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2729 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2728 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2727 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2726 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2725 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2724 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2723 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2722 more memories to test.";echo "tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2721 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2720 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2719 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2718 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2717 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2716 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2715 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2714 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2713 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2712 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2711 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2710 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2709 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2708 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2707 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2706 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2705 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2704 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2703 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2702 more memories to test.";echo "tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM2_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2701 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2700 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2699 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2698 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2697 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2696 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2695 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2694 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2693 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2692 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2691 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2690 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2689 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2688 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2687 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2686 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2685 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2684 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2683 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2682 more memories to test.";echo "tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM3_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2681 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2680 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2679 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2678 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2677 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2676 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2675 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2674 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2673 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2672 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2671 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2670 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2669 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2668 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2667 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2666 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2665 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2664 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2663 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2662 more memories to test.";echo "tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2661 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2660 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2659 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2658 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2657 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2656 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2655 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2654 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2653 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2652 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2651 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2650 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2649 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2648 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2647 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2646 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2645 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2644 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2643 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2642 more memories to test.";echo "tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM3_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2641 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2640 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2639 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2638 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2637 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2636 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2635 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2634 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2633 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2632 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2631 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2630 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2629 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2628 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2627 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2626 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2625 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2624 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2623 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2622 more memories to test.";echo "tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM4_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2621 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
```

```
"done";
echo "there are 2620 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2619 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2618 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2617 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2616 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2615 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2614 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2613 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2612 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2611 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2610 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2609 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2608 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2607 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2606 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2605 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2604 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2603 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2602 more memories to test.";echo "tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2601 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2600 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2599 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2598 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2597 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2596 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2595 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2594 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2593 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2592 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2591 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2590 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2589 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2588 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2587 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2586 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2585 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2584 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2583 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2582 more memories to test.";echo "tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM4_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2581 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2580 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2579 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2578 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2577 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2576 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2575 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2574 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2573 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2572 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2571 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2570 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2569 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2568 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2567 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2566 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2565 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2564 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2563 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2562 more memories to test.";echo "tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM5_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2561 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2560 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2559 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2558 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2557 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2556 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 2555 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2554 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2553 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2552 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2551 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2550 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2549 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2548 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2547 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2546 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2545 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2544 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2543 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2542 more memories to test.";echo "tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2541 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2540 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2539 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2538 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2537 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2536 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2535 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2534 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2533 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2532 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2531 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2530 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2529 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2528 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2527 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2526 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2525 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2524 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2523 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2522 more memories to test.";echo "tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM5_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2521 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2520 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2519 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2518 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2517 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2516 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2515 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2514 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2513 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2512 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2511 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2510 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2509 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2508 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2507 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2506 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2505 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2504 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2503 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2502 more memories to test.";echo "tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM6_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2501 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2500 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2499 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2498 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2497 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2496 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2495 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2494 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2493 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2492 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2491 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2490 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2489 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2488 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2487 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2486 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2485 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2484 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2483 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2482 more memories to test.";echo "tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2481 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2480 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2479 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2478 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2477 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2476 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2475 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2474 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2473 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2472 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2471 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2470 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2469 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2468 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2467 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2466 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2465 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2464 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2463 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2462 more memories to test.";echo "tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM6_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2461 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2460 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2459 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2458 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2457 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2456 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2455 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2454 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2453 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2452 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2451 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2450 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2449 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2448 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2447 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2446 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2445 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2444 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2443 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2442 more memories to test.";echo "tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM7_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2441 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
```

"done";
echo "there are 2440 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2439 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2438 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2437 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2436 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2435 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2434 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2433 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2432 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2431 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2430 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2429 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2428 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2427 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2426 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2425 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0

```
SlamLowToHigh=0;echo "done";
echo "there are 2424 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2423 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2422 more memories to test.";echo "tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2421 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2420 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2419 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2418 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2417 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2416 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2415 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2414 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2413 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2412 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2411 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2410 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2409 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2408 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
```

```
SlamLowToHigh=0;echo "done";
echo "there are 2407 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2406 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2405 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2404 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2403 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2402 more memories to test.";echo "tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM7_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2401 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2400 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2399 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2398 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2397 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2396 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2395 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2394 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2393 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2392 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2391 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2390 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2389 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2388 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2387 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2386 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2385 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2384 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2383 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2382 more memories to test.";echo "tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM8_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2381 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2380 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2379 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2378 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2377 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2376 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 2375 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2374 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2373 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2372 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2371 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2370 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2369 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2368 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2367 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2366 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2365 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2364 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2363 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2362 more memories to test.";echo "tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2361 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2360 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2359 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2358 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2357 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2356 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2355 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2354 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2353 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2352 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2351 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2350 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2349 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2348 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2347 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2346 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2345 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2344 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2343 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2342 more memories to test.";echo "tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 Start=0
```

Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM8_PRI_MAP_PORT3_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2341 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2340 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2339 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2338 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2337 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2336 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2335 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2334 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2333 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2332 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2331 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2330 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2329 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2328 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2327 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2326 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT3 Start=0 Count=1

```
SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2325 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2324 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2323 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2322 more memories to test.";echo "tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IDB_OBM9_DSCP_MAP_PORT3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2321 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2320 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2319 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2318 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2317 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2316 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2315 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2314 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2313 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2312 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2311 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2310 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 Start=0
```

```
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2309 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2308 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2307 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2306 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2305 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2304 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2303 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2302 more memories to test.";echo "tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_ETAG_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2301 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2300 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2299 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2298 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2297 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT0_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2296 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2295 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2294 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2293 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2292 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT1_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2291 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2290 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2289 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2288 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2287 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT2_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2286 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2285 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2284 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2283 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2282 more memories to test.";echo "tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=IDB_OBM9_PRI_MAP_PORT3_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2281 more memories to test.";echo "tr 71 M=IFP_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2280 more memories to test.";echo "tr 71 M=IFP_HG_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_HG_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2279 more memories to test.";echo "tr 71 M=IFP_I2E_CLASSID_SELECT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_I2E_CLASSID_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2278 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2277 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2276 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE0 Start=0 Count=1
```

SlamLowToHigh=0;echo "done";
echo "there are 2275 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2274 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2273 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2272 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2271 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2270 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2269 more memories to test.";echo "tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_KEY_GEN_PROGRAM_PROFILE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2268 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2267 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2266 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2265 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2264 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 Start=0 Count=0 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_ACTION_PRIORITY_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2263 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2262 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2261 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2260 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71

M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2259 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2258 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_DATA_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2257 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2256 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2255 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2254 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2253 more memories to test.";echo "tr 71 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2252 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2251 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2250 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2249 more memories to test.";echo "tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=IFP_LOGICAL_TABLE_SELECT_TCAM_ONLY_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2248 more memories to test.";echo "tr 71 M=IFP_METER_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_METER_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2247 more memories to test.";echo "tr 71 M=IFP_METER_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_METER_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2246 more memories to test.";echo "tr 71 M=IFP_METER_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_METER_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2245 more memories to test.";echo "tr 71 M=IFP_METER_TABLE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_METER_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2244 more memories to test.";echo "tr 71 M=IFP_METER_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_METER_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2243 more memories to test.";echo "tr 71 M=IFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2242 more memories to test.";echo "tr 71 M=IFP_POLICY_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_POLICY_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";

```
echo "there are 2241 more memories to test.";echo "tr 71 M=IFP_POLICY_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_POLICY_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2240 more memories to test.";echo "tr 71 M=IFP_POLICY_TABLE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_POLICY_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2239 more memories to test.";echo "tr 71 M=IFP_POLICY_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_POLICY_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2238 more memories to test.";echo "tr 71 M=IFP_PORT_METER_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_PORT_METER_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2237 more memories to test.";echo "tr 71 M=IFP_RANGE_CHECK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_RANGE_CHECK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2236 more memories to test.";echo "tr 71 M=IFP_RANGE_CHECK_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_RANGE_CHECK_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2235 more memories to test.";echo "tr 71 M=IFP_RANGE_CHECK_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_RANGE_CHECK_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2234 more memories to test.";echo "tr 71 M=IFP_RANGE_CHECK_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_RANGE_CHECK_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2233 more memories to test.";echo "tr 71 M=IFP_RANGE_CHECK_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_RANGE_CHECK_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2232 more memories to test.";echo "tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_REDIRECTION_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2231 more memories to test.";echo "tr 71 M=IFP_STORM_CONTROL_METERS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_STORM_CONTROL_METERS Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2230 more memories to test.";echo "tr 71 M=IFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=IFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2229 more memories to test.";echo "tr 71 M=IFP_TCAM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2228 more memories to test.";echo "tr 71 M=IFP_TCAM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2227 more memories to test.";echo "tr 71 M=IFP_TCAM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2226 more memories to test.";echo "tr 71 M=IFP_TCAM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2225 more memories to test.";echo "tr 71 M=IFP_TCAM_WIDE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_WIDE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2224 more memories to test.";echo "tr 71 M=IFP_TCAM_WIDE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_WIDE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2223 more memories to test.";echo "tr 71 M=IFP_TCAM_WIDE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_WIDE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2222 more memories to test.";echo "tr 71 M=IFP_TCAM_WIDE_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_WIDE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2221 more memories to test.";echo "tr 71 M=IFP_TCAM_WIDE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IFP_TCAM_WIDE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2220 more memories to test.";echo "tr 71 M=IMIRROR_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IMIRROR_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2219 more memories to test.";echo "tr 71 M=IM_MTP_INDEX Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IM_MTP_INDEX Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2218 more memories to test.";echo "tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=ING_1588_INGRESS_CTRL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2217 more memories to test.";echo "tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ACTIVE_L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2216 more memories to test.";echo "tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_DEST_PORT_ENABLE Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2215 more memories to test.";echo "tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DNAT_ADDRESS_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2214 more memories to test.";echo "tr 71 M=ING_DNAT_ADDRESS_TYPE_ECC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_DNAT_ADDRESS_TYPE_ECC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2213 more memories to test.";echo "tr 71 M=ING_DVP_2_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_2_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2212 more memories to test.";echo "tr 71 M=ING_DVP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_DVP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2211 more memories to test.";echo "tr 71 M=ING_EGRMSKBMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_EGRMSKBMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2210 more memories to test.";echo "tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_EN_EFILTER_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 2209 more memories to test.";echo "tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_ETAG_PCP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2208 more memories to test.";echo "tr 71 M=ING_EXP_TO_IP_ECN_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_EXP_TO_IP_ECN_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2207 more memories to test.";echo "tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FC_HEADER_TYPE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2206 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2205 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2204 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2203 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2202 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2201 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2200 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2199 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2198 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2197 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2196 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_10_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2195 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2194 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2193 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2192 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2191 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_11_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2190 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2189 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2188 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2187 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2186 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_12_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2185 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2184 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2183 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2182 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2181 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_13_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2180 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2179 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2178 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2177 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2176 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_14_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2175 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2174 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2173 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2172 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2171 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_15_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2170 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2169 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2168 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2167 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2166 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_16_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2165 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2164 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2163 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2162 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2161 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_17_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2160 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2159 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2158 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2157 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2156 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_18_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2155 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2154 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2153 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2152 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2151 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3
```

Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_19_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2150 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2149 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2148 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2147 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2146 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2145 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2144 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2143 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2142 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2141 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2140 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2139 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2138 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2137 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2136 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2135 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0

Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2134 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2133 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2132 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_4_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2131 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2130 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2129 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2128 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2127 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_5_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2126 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2125 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2124 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2123 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2122 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_6_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2121 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2120 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2119 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2118 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2117 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_7_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2116 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2115 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2114 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2113 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2112 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_8_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2111 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2110 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2109 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2108 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2107 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_COUNTER_TABLE_9_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2106 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2105 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2104 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_10 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_10 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2103 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_11 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_11 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2102 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_12 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_12 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2101 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_13 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_13 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2100 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_14 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_14 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2099 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_15 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_15 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2098 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_16 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_16 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2097 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_17 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_17 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2096 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_18 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_18 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2095 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_19 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_19 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2094 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2093 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2092 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2091 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2090 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2089 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2088 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_8 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_8 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2087 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_9 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_OFFSET_TABLE_9 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2086 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_PRI_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2085 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PKT_RES_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2084 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2083 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2082 more memories to test.";echo "tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_FLEX_CTR_TOS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2081 more memories to test.";echo "tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2080 more memories to test.";echo "tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_IPV6_MC_RESERVED_ADDRESS Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2079 more memories to test.";echo "tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2078 more memories to test.";echo "tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MOD_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2077 more memories to test.";echo "tr 71 M=ING_MPLS_ENTRY_ACTION_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_MPLS_ENTRY_ACTION_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2076 more memories to test.";echo "tr 71 M=ING_MPLS_ENTRY_ACTION_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_MPLS_ENTRY_ACTION_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2075 more memories to test.";echo "tr 71 M=ING_MPLS_ENTRY_REMAP_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_MPLS_ENTRY_REMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2074 more memories to test.";echo "tr 71 M=ING_MPLS_ENTRY_REMAP_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_MPLS_ENTRY_REMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2073 more memories to test.";echo "tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_MPLS_EXP_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2072 more memories to test.";echo "tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_OUTER_DOT1P_MAPPING_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2071 more memories to test.";echo "tr 71 M=ING_PHY_TO_IDB_PORT_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PHY_TO_IDB_PORT_MAP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2070 more memories to test.";echo "tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2069 more memories to test.";echo "tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2068 more memories to test.";echo "tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2067 more memories to test.";echo "tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_PHY_TO_IDB_PORT_MAP_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2066 more memories to test.";echo "tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PRI_CNG_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2065 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2064 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2063 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2062 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2061 more memories to test.";echo "tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_PW_TERM_SEQ_NUM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2060 more memories to test.";echo "tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_ROUTED_INT_PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 2059 more memories to test.";echo "tr 71 M=ING_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2058 more memories to test.";echo "tr 71 M=ING_SER_FIFO_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2057 more memories to test.";echo "tr 71 M=ING_SER_FIFO_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2056 more memories to test.";echo "tr 71 M=ING_SER_FIFO_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2055 more memories to test.";echo "tr 71 M=ING_SER_FIFO_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SER_FIFO_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2054 more memories to test.";echo "tr 71 M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0";tr
71 M=ING_SNAT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2053 more memories to test.";echo "tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2052 more memories to test.";echo "tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2051 more memories to test.";echo "tr 71 M=ING_SNAT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_SNAT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2050 more memories to test.";echo "tr 71 M=ING_TRILL_ADJACENCY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_TRILL_ADJACENCY Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 2049 more memories to test.";echo "tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0";tr 71 M=ING_TRILL_PARSE_CONTROL Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 2048 more memories to test.";echo "tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=ING_TRILL_PAYLOAD_PARSE_CONTROL Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 2047 more memories to test.";echo "tr 71 M=ING_TUNNEL_ECN_DECAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_TUNNEL_ECN_DECAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2046 more memories to test.";echo "tr 71 M=ING_TUNNEL_ECN_DECAP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_TUNNEL_ECN_DECAP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2045 more memories to test.";echo "tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_UNTAGGED_PHB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2044 more memories to test.";echo "tr 71 M=ING_VLAN_RANGE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VLAN_RANGE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2043 more memories to test.";echo "tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VLAN_TAG_ACTION_PROFILE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2042 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2041 more memories to test.";echo "tr 71 M=ING_VP_VLAN_MEMBERSHIP_ECC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=ING_VP_VLAN_MEMBERSHIP_ECC Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2040 more memories to test.";echo "tr 71 M=ING_VXLT_ACTION_TABLE_A Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VXLT_ACTION_TABLE_A Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2039 more memories to test.";echo "tr 71 M=ING_VXLT_ACTION_TABLE_B Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VXLT_ACTION_TABLE_B Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2038 more memories to test.";echo "tr 71 M=ING_VXLT_REMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VXLT_REMAP_TABLE_A Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2037 more memories to test.";echo "tr 71 M=ING_VXLT_REMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0";tr 71 M=ING_VXLT_REMAP_TABLE_B Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2036 more memories to test.";echo "tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_ING_L3_NEXT_HOP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2035 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2034 more memories to test.";echo "tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_L3_ECMP_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2033 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2032 more memories to test.";echo "tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INITIAL_PROT_NHI_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2031 more memories to test.";echo "tr 71 M=INSTRUMENTATION_TRIGGERS_ENABLE
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=INSTRUMENTATION_TRIGGERS_ENABLE Start=0 Count=0
SlamLowToHigh=0;echo "done";
```

```
echo "there are 2030 more memories to test.";echo "tr 71 M=INT_CN_TO_MMUIF_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=INT_CN_TO_MMUIF_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2029 more memories to test.";echo "tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2028 more memories to test.";echo "tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_MULTICAST_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2027 more memories to test.";echo "tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=IP_OPTION_CONTROL_PROFILE_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 2026 more memories to test.";echo "tr 71 M=IP_PROTO_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_PROTO_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2025 more memories to test.";echo "tr 71 M=IP_PROTO_MAP_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_PROTO_MAP_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2024 more memories to test.";echo "tr 71 M=IP_PROTO_MAP_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_PROTO_MAP_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2023 more memories to test.";echo "tr 71 M=IP_PROTO_MAP_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_PROTO_MAP_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2022 more memories to test.";echo "tr 71 M=IP_PROTO_MAP_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_PROTO_MAP_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2021 more memories to test.";echo "tr 71 M=IP_TO_INT_CN_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IP_TO_INT_CN_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2020 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2019 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2018 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2017 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2016 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2015 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2014 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2013 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2012 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2011 more memories to test.";echo "tr 71 M=IS_TDM_CALENDAR1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=IS_TDM_CALENDAR1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2010 more memories to test.";echo "tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=KNOWN_MCAST_BLOCK_MASK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 2009 more memories to test.";echo "tr 71 M=L2MC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2MC Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 2008 more memories to test.";echo "tr 71 M=L2_BULK Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2_BULK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2007 more memories to test.";echo "tr 71 M=L2X Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L2X Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 2006 more memories to test.";echo "tr 71 M=L2_ENTRY_ISS_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ISS_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2005 more memories to test.";echo "tr 71 M=L2_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2004 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2003 more memories to test.";echo "tr 71 M=L2_ENTRY_ONLY_TILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_ONLY_TILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2002 more memories to test.";echo "tr 71 M=L2_ENTRY_TILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_ENTRY_TILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2001 more memories to test.";echo "tr 71 M=L2_HITDA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITDA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 2000 more memories to test.";echo "tr 71 M=L2_HITSA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_HITSA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1999 more memories to test.";echo "tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L2_LEARN_INSERT_FAILURE Start=0 Count=0 SlamLowToHigh=0;echo "done";
#echo "there are 1998 more memories to test.";echo "tr 71 M=L2_MGMT_SER_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_MGMT_SER_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1997 more memories to test.";echo "tr 71 M=L2_MOD_FIFO Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_MOD_FIFO Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1996 more memories to test.";echo "tr 71 M=L2_USER_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1995 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1994 more memories to test.";echo "tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L2_USER_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1993 more memories to test.";echo "tr 71 M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_DEFIP Start=0 Count=1 SlamLowToHigh=0;echo "done";
if $?l3_alpm_enable 'echo "there are 1992 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_ECC Start=0
Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_ECC Start=0 Count=1 SlamLowToHigh=0;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1991 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_HIT_ONLY
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1990 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4 Start=0 Count=1 SlamLowToHigh=0;echo
"done";'
if $?l3_alpm_enable 'echo "there are 1989 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV4_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV4_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1988 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_128
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_128 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
```

```
if $?l3_alpm_enable 'echo "there are 1987 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1986 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_IPV6_64_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_IPV6_64_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1985 more memories to test.";echo "tr 71 M=L3_DEFIP_ALPM_RAW
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_ALPM_RAW Start=0 Count=1
SlamLowToHigh=0;echo "done";'
echo "there are 1984 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_HITBIT_UPDATE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1983 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_SCRATCH Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 1982 more memories to test.";echo "tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_AUX_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1981 more memories to test.";echo "tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1980 more memories to test.";echo "tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1979 more memories to test.";echo "tr 71 M=L3_DEFIP_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_DEFIP_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
if $?l3_alpm_enable 'echo "there are 1978 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128 Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1977 more memories to test.";echo "tr 71
M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_DEFIP_PAIR_128_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1976 more memories to test.";echo "tr 71
M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_DEFIP_PAIR_128_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";'
if $?l3_alpm_enable 'echo "there are 1975 more memories to test.";echo "tr 71 M=L3_DEFIP_PAIR_128_ONLY
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=L3_DEFIP_PAIR_128_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";'
echo "there are 1974 more memories to test.";echo "tr 71 M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_ECMP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1973 more memories to test.";echo "tr 71 M=L3_ECMP_COUNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_COUNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1972 more memories to test.";echo "tr 71 M=L3_ECMP_RRLB_CNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_RRLB_CNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1971 more memories to test.";echo "tr 71 M=L3_ECMP_RRLB_CNT_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_RRLB_CNT_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1970 more memories to test.";echo "tr 71 M=L3_ECMP_RRLB_CNT_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_RRLB_CNT_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1969 more memories to test.";echo "tr 71 M=L3_ECMP_RRLB_CNT_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_RRLB_CNT_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1968 more memories to test.";echo "tr 71 M=L3_ECMP_RRLB_CNT_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ECMP_RRLB_CNT_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1967 more memories to test.";echo "tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=L3_ENTRY_HIT_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1966 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1965 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV4_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1964 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_MULTICAST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1963 more memories to test.";echo "tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_IPV6_UNICAST Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1962 more memories to test.";echo "tr 71 M=L3_ENTRY_ISS_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ISS_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1961 more memories to test.";echo "tr 71 M=L3_ENTRY_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1960 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1959 more memories to test.";echo "tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_ENTRY_ONLY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1958 more memories to test.";echo "tr 71 M=L3_IIF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IIF Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1957 more memories to test.";echo "tr 71 M=L3_IIF_PROFILE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IIF_PROFILE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1956 more memories to test.";echo "tr 71 M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0";tr 71
M=L3_IPMC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1955 more memories to test.";echo "tr 71 M=L3_IPMC_REMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_IPMC_REMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1954 more memories to test.";echo "tr 71 M=L3_MTU_VALUES Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_MTU_VALUES Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1953 more memories to test.";echo "tr 71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0";tr
71 M=L3_TUNNEL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1952 more memories to test.";echo "tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1951 more memories to test.";echo "tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=L3_TUNNEL_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1950 more memories to test.";echo "tr 71 M=LAG_DLB_CONTROL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=LAG_DLB_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1949 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0
Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1948 more memories to test.";echo "tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1947 more memories to test.";echo "tr 71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=LPORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1946 more memories to test.";echo "tr 71 M=MAC_BLOCK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MAC_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1945 more memories to test.";echo "tr 71 M=MIRROR_CONTROL Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MIRROR_CONTROL Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1944 more memories to test.";echo "tr 71 M=MMU_CBPData0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1943 more memories to test.";echo "tr 71 M=MMU_CBPData0_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1942 more memories to test.";echo "tr 71 M=MMU_CBPData0_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1941 more memories to test.";echo "tr 71 M=MMU_CBPData0_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1940 more memories to test.";echo "tr 71 M=MMU_CBPData0_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData0_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1939 more memories to test.";echo "tr 71 M=MMU_CBPData1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1938 more memories to test.";echo "tr 71 M=MMU_CBPData10 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1937 more memories to test.";echo "tr 71 M=MMU_CBPData100 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData100 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1936 more memories to test.";echo "tr 71 M=MMU_CBPData100_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData100_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1935 more memories to test.";echo "tr 71 M=MMU_CBPData100_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData100_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1934 more memories to test.";echo "tr 71 M=MMU_CBPData100_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData100_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1933 more memories to test.";echo "tr 71 M=MMU_CBPData100_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData100_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1932 more memories to test.";echo "tr 71 M=MMU_CBPData101 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData101 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1931 more memories to test.";echo "tr 71 M=MMU_CBPData101_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData101_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1930 more memories to test.";echo "tr 71 M=MMU_CBPData101_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData101_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1929 more memories to test.";echo "tr 71 M=MMU_CBPData101_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData101_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1928 more memories to test.";echo "tr 71 M=MMU_CBPData101_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData101_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1927 more memories to test.";echo "tr 71 M=MMU_CBPData102 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData102 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1926 more memories to test.";echo "tr 71 M=MMU_CBPData102_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData102_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1925 more memories to test.";echo "tr 71 M=MMU_CBPData102_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData102_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1924 more memories to test.";echo "tr 71 M=MMU_CBPData102_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData102_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1923 more memories to test.";echo "tr 71 M=MMU_CBPData102_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData102_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1922 more memories to test.";echo "tr 71 M=MMU_CBPData103 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData103 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1921 more memories to test.";echo "tr 71 M=MMU_CBPData103_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData103_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1920 more memories to test.";echo "tr 71 M=MMU_CBPData103_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData103_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1919 more memories to test.";echo "tr 71 M=MMU_CBPData103_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData103_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1918 more memories to test.";echo "tr 71 M=MMU_CBPData103_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData103_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1917 more memories to test.";echo "tr 71 M=MMU_CBPData104 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData104 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1916 more memories to test.";echo "tr 71 M=MMU_CBPData104_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData104_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1915 more memories to test.";echo "tr 71 M=MMU_CBPData104_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData104_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1914 more memories to test.";echo "tr 71 M=MMU_CBPData104_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData104_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1913 more memories to test.";echo "tr 71 M=MMU_CBPData104_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData104_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1912 more memories to test.";echo "tr 71 M=MMU_CBPData105 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData105 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1911 more memories to test.";echo "tr 71 M=MMU_CBPData105_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData105_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1910 more memories to test.";echo "tr 71 M=MMU_CBPData105_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData105_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1909 more memories to test.";echo "tr 71 M=MMU_CBPData105_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData105_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1908 more memories to test.";echo "tr 71 M=MMU_CBPData105_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData105_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1907 more memories to test.";echo "tr 71 M=MMU_CBPData106 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData106 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1906 more memories to test.";echo "tr 71 M=MMU_CBPData106_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData106_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1905 more memories to test.";echo "tr 71 M=MMU_CBPData106_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData106_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1904 more memories to test.";echo "tr 71 M=MMU_CBPData106_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData106_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1903 more memories to test.";echo "tr 71 M=MMU_CBPData106_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData106_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1902 more memories to test.";echo "tr 71 M=MMU_CBPData107 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData107 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1901 more memories to test.";echo "tr 71 M=MMU_CBPData107_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData107_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1900 more memories to test.";echo "tr 71 M=MMU_CBPData107_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData107_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1899 more memories to test.";echo "tr 71 M=MMU_CBPData107_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData107_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1898 more memories to test.";echo "tr 71 M=MMU_CBPData107_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData107_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1897 more memories to test.";echo "tr 71 M=MMU_CBPData108 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData108 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1896 more memories to test.";echo "tr 71 M=MMU_CBPData108_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData108_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1895 more memories to test.";echo "tr 71 M=MMU_CBPData108_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData108_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1894 more memories to test.";echo "tr 71 M=MMU_CBPData108_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData108_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1893 more memories to test.";echo "tr 71 M=MMU_CBPData108_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData108_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1892 more memories to test.";echo "tr 71 M=MMU_CBPData109 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData109 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1891 more memories to test.";echo "tr 71 M=MMU_CBPData109_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData109_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1890 more memories to test.";echo "tr 71 M=MMU_CBPData109_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData109_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1889 more memories to test.";echo "tr 71 M=MMU_CBPData109_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData109_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1888 more memories to test.";echo "tr 71 M=MMU_CBPData109_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData109_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1887 more memories to test.";echo "tr 71 M=MMU_CBPData10_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1886 more memories to test.";echo "tr 71 M=MMU_CBPData10_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1885 more memories to test.";echo "tr 71 M=MMU_CBPData10_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1884 more memories to test.";echo "tr 71 M=MMU_CBPData10_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData10_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1883 more memories to test.";echo "tr 71 M=MMU_CBPData11 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1882 more memories to test.";echo "tr 71 M=MMU_CBPData110 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData110 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1881 more memories to test.";echo "tr 71 M=MMU_CBPData110_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData110_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1880 more memories to test.";echo "tr 71 M=MMU_CBPData110_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData110_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1879 more memories to test.";echo "tr 71 M=MMU_CBPData110_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData110_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1878 more memories to test.";echo "tr 71 M=MMU_CBPData110_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData110_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1877 more memories to test.";echo "tr 71 M=MMU_CBPData111 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData111 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1876 more memories to test.";echo "tr 71 M=MMU_CBPData111_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData111_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1875 more memories to test.";echo "tr 71 M=MMU_CBPData111_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData111_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1874 more memories to test.";echo "tr 71 M=MMU_CBPData111_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData111_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1873 more memories to test.";echo "tr 71 M=MMU_CBPData111_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData111_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1872 more memories to test.";echo "tr 71 M=MMU_CBPData11_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1871 more memories to test.";echo "tr 71 M=MMU_CBPData11_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1870 more memories to test.";echo "tr 71 M=MMU_CBPData11_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1869 more memories to test.";echo "tr 71 M=MMU_CBPData11_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData11_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1868 more memories to test.";echo "tr 71 M=MMU_CBPData12 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1867 more memories to test.";echo "tr 71 M=MMU_CBPData12_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1866 more memories to test.";echo "tr 71 M=MMU_CBPData12_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1865 more memories to test.";echo "tr 71 M=MMU_CBPData12_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1864 more memories to test.";echo "tr 71 M=MMU_CBPData12_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData12_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1863 more memories to test.";echo "tr 71 M=MMU_CBPData13 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1862 more memories to test.";echo "tr 71 M=MMU_CBPData13_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1861 more memories to test.";echo "tr 71 M=MMU_CBPData13_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1860 more memories to test.";echo "tr 71 M=MMU_CBPData13_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1859 more memories to test.";echo "tr 71 M=MMU_CBPData13_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData13_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1858 more memories to test.";echo "tr 71 M=MMU_CBPData14 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1857 more memories to test.";echo "tr 71 M=MMU_CBPData14_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1856 more memories to test.";echo "tr 71 M=MMU_CBPData14_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1855 more memories to test.";echo "tr 71 M=MMU_CBPData14_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1854 more memories to test.";echo "tr 71 M=MMU_CBPData14_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData14_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1853 more memories to test.";echo "tr 71 M=MMU_CBPData15 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData15 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1852 more memories to test.";echo "tr 71 M=MMU_CBPData15_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData15_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1851 more memories to test.";echo "tr 71 M=MMU_CBPData15_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData15_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1850 more memories to test.";echo "tr 71 M=MMU_CBPData15_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData15_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1849 more memories to test.";echo "tr 71 M=MMU_CBPData15_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData15_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1848 more memories to test.";echo "tr 71 M=MMU_CBPData16 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1847 more memories to test.";echo "tr 71 M=MMU_CBPData16_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1846 more memories to test.";echo "tr 71 M=MMU_CBPData16_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1845 more memories to test.";echo "tr 71 M=MMU_CBPData16_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1844 more memories to test.";echo "tr 71 M=MMU_CBPData16_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData16_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1843 more memories to test.";echo "tr 71 M=MMU_CBPData17 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1842 more memories to test.";echo "tr 71 M=MMU_CBPData17_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1841 more memories to test.";echo "tr 71 M=MMU_CBPData17_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1840 more memories to test.";echo "tr 71 M=MMU_CBPData17_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1839 more memories to test.";echo "tr 71 M=MMU_CBPData17_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData17_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1838 more memories to test.";echo "tr 71 M=MMU_CBPData18 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1837 more memories to test.";echo "tr 71 M=MMU_CBPData18_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1836 more memories to test.";echo "tr 71 M=MMU_CBPData18_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1835 more memories to test.";echo "tr 71 M=MMU_CBPData18_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1834 more memories to test.";echo "tr 71 M=MMU_CBPData18_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData18_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1833 more memories to test.";echo "tr 71 M=MMU_CBPData19 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1832 more memories to test.";echo "tr 71 M=MMU_CBPData19_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1831 more memories to test.";echo "tr 71 M=MMU_CBPData19_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1830 more memories to test.";echo "tr 71 M=MMU_CBPData19_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1829 more memories to test.";echo "tr 71 M=MMU_CBPData19_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData19_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1828 more memories to test.";echo "tr 71 M=MMU_CBPData1_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1827 more memories to test.";echo "tr 71 M=MMU_CBPData1_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1826 more memories to test.";echo "tr 71 M=MMU_CBPData1_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData1_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1825 more memories to test.";echo "tr 71 M=MMU_CBPData1_XPE3 Start=0 Count=1
```

SlamLowToHigh=0";tr 71 M=MMU_CBPData1_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1824 more memories to test.";echo "tr 71 M=MMU_CBPData2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1823 more memories to test.";echo "tr 71 M=MMU_CBPData20 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1822 more memories to test.";echo "tr 71 M=MMU_CBPData20_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1821 more memories to test.";echo "tr 71 M=MMU_CBPData20_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1820 more memories to test.";echo "tr 71 M=MMU_CBPData20_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1819 more memories to test.";echo "tr 71 M=MMU_CBPData20_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData20_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1818 more memories to test.";echo "tr 71 M=MMU_CBPData21 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1817 more memories to test.";echo "tr 71 M=MMU_CBPData21_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1816 more memories to test.";echo "tr 71 M=MMU_CBPData21_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1815 more memories to test.";echo "tr 71 M=MMU_CBPData21_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1814 more memories to test.";echo "tr 71 M=MMU_CBPData21_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData21_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1813 more memories to test.";echo "tr 71 M=MMU_CBPData22 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1812 more memories to test.";echo "tr 71 M=MMU_CBPData22_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1811 more memories to test.";echo "tr 71 M=MMU_CBPData22_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1810 more memories to test.";echo "tr 71 M=MMU_CBPData22_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1809 more memories to test.";echo "tr 71 M=MMU_CBPData22_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData22_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1808 more memories to test.";echo "tr 71 M=MMU_CBPData23 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1807 more memories to test.";echo "tr 71 M=MMU_CBPData23_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1806 more memories to test.";echo "tr 71 M=MMU_CBPData23_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1805 more memories to test.";echo "tr 71 M=MMU_CBPData23_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1804 more memories to test.";echo "tr 71 M=MMU_CBPData23_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData23_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1803 more memories to test.";echo "tr 71 M=MMU_CBPData24 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData24 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1802 more memories to test.";echo "tr 71 M=MMU_CBPData24_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData24_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1801 more memories to test.";echo "tr 71 M=MMU_CBPData24_XPE1 Start=0 Count=1

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData24_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1800 more memories to test.";echo "tr 71 M=MMU_CBPData24_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData24_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1799 more memories to test.";echo "tr 71 M=MMU_CBPData24_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData24_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1798 more memories to test.";echo "tr 71 M=MMU_CBPData25 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1797 more memories to test.";echo "tr 71 M=MMU_CBPData25_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1796 more memories to test.";echo "tr 71 M=MMU_CBPData25_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1795 more memories to test.";echo "tr 71 M=MMU_CBPData25_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1794 more memories to test.";echo "tr 71 M=MMU_CBPData25_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData25_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1793 more memories to test.";echo "tr 71 M=MMU_CBPData26 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1792 more memories to test.";echo "tr 71 M=MMU_CBPData26_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1791 more memories to test.";echo "tr 71 M=MMU_CBPData26_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1790 more memories to test.";echo "tr 71 M=MMU_CBPData26_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1789 more memories to test.";echo "tr 71 M=MMU_CBPData26_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData26_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1788 more memories to test.";echo "tr 71 M=MMU_CBPData27 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData27 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1787 more memories to test.";echo "tr 71 M=MMU_CBPData27_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData27_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1786 more memories to test.";echo "tr 71 M=MMU_CBPData27_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData27_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1785 more memories to test.";echo "tr 71 M=MMU_CBPData27_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData27_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1784 more memories to test.";echo "tr 71 M=MMU_CBPData27_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData27_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1783 more memories to test.";echo "tr 71 M=MMU_CBPData28 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1782 more memories to test.";echo "tr 71 M=MMU_CBPData28_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1781 more memories to test.";echo "tr 71 M=MMU_CBPData28_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1780 more memories to test.";echo "tr 71 M=MMU_CBPData28_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1779 more memories to test.";echo "tr 71 M=MMU_CBPData28_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData28_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1778 more memories to test.";echo "tr 71 M=MMU_CBPData29 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData29 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1777 more memories to test.";echo "tr 71 M=MMU_CBPData29_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData29_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1776 more memories to test.";echo "tr 71 M=MMU_CBPData29_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData29_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1775 more memories to test.";echo "tr 71 M=MMU_CBPData29_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData29_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1774 more memories to test.";echo "tr 71 M=MMU_CBPData29_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData29_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1773 more memories to test.";echo "tr 71 M=MMU_CBPData2_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1772 more memories to test.";echo "tr 71 M=MMU_CBPData2_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1771 more memories to test.";echo "tr 71 M=MMU_CBPData2_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1770 more memories to test.";echo "tr 71 M=MMU_CBPData2_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData2_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1769 more memories to test.";echo "tr 71 M=MMU_CBPData3 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1768 more memories to test.";echo "tr 71 M=MMU_CBPData30 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1767 more memories to test.";echo "tr 71 M=MMU_CBPData30_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1766 more memories to test.";echo "tr 71 M=MMU_CBPData30_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1765 more memories to test.";echo "tr 71 M=MMU_CBPData30_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1764 more memories to test.";echo "tr 71 M=MMU_CBPData30_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData30_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1763 more memories to test.";echo "tr 71 M=MMU_CBPData31 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1762 more memories to test.";echo "tr 71 M=MMU_CBPData31_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1761 more memories to test.";echo "tr 71 M=MMU_CBPData31_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1760 more memories to test.";echo "tr 71 M=MMU_CBPData31_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1759 more memories to test.";echo "tr 71 M=MMU_CBPData31_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData31_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1758 more memories to test.";echo "tr 71 M=MMU_CBPData32 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1757 more memories to test.";echo "tr 71 M=MMU_CBPData32_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1756 more memories to test.";echo "tr 71 M=MMU_CBPData32_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1755 more memories to test.";echo "tr 71 M=MMU_CBPData32_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1754 more memories to test.";echo "tr 71 M=MMU_CBPData32_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData32_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1753 more memories to test.";echo "tr 71 M=MMU_CBPData33 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData33 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1752 more memories to test.";echo "tr 71 M=MMU_CBPData33_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData33_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1751 more memories to test.";echo "tr 71 M=MMU_CBPData33_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData33_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1750 more memories to test.";echo "tr 71 M=MMU_CBPData33_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData33_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1749 more memories to test.";echo "tr 71 M=MMU_CBPData33_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData33_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1748 more memories to test.";echo "tr 71 M=MMU_CBPData34 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1747 more memories to test.";echo "tr 71 M=MMU_CBPData34_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1746 more memories to test.";echo "tr 71 M=MMU_CBPData34_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1745 more memories to test.";echo "tr 71 M=MMU_CBPData34_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1744 more memories to test.";echo "tr 71 M=MMU_CBPData34_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData34_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1743 more memories to test.";echo "tr 71 M=MMU_CBPData35 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1742 more memories to test.";echo "tr 71 M=MMU_CBPData35_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1741 more memories to test.";echo "tr 71 M=MMU_CBPData35_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1740 more memories to test.";echo "tr 71 M=MMU_CBPData35_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1739 more memories to test.";echo "tr 71 M=MMU_CBPData35_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData35_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1738 more memories to test.";echo "tr 71 M=MMU_CBPData36 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1737 more memories to test.";echo "tr 71 M=MMU_CBPData36_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1736 more memories to test.";echo "tr 71 M=MMU_CBPData36_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1735 more memories to test.";echo "tr 71 M=MMU_CBPData36_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1734 more memories to test.";echo "tr 71 M=MMU_CBPData36_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData36_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1733 more memories to test.";echo "tr 71 M=MMU_CBPData37 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData37 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1732 more memories to test.";echo "tr 71 M=MMU_CBPData37_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData37_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1731 more memories to test.";echo "tr 71 M=MMU_CBPData37_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData37_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1730 more memories to test.";echo "tr 71 M=MMU_CBPData37_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData37_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1729 more memories to test.";echo "tr 71 M=MMU_CBPData37_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData37_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1728 more memories to test.";echo "tr 71 M=MMU_CBPData38 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1727 more memories to test.";echo "tr 71 M=MMU_CBPData38_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1726 more memories to test.";echo "tr 71 M=MMU_CBPData38_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1725 more memories to test.";echo "tr 71 M=MMU_CBPData38_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1724 more memories to test.";echo "tr 71 M=MMU_CBPData38_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData38_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1723 more memories to test.";echo "tr 71 M=MMU_CBPData39 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1722 more memories to test.";echo "tr 71 M=MMU_CBPData39_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1721 more memories to test.";echo "tr 71 M=MMU_CBPData39_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1720 more memories to test.";echo "tr 71 M=MMU_CBPData39_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1719 more memories to test.";echo "tr 71 M=MMU_CBPData39_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData39_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1718 more memories to test.";echo "tr 71 M=MMU_CBPData3_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1717 more memories to test.";echo "tr 71 M=MMU_CBPData3_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1716 more memories to test.";echo "tr 71 M=MMU_CBPData3_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1715 more memories to test.";echo "tr 71 M=MMU_CBPData3_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData3_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1714 more memories to test.";echo "tr 71 M=MMU_CBPData4 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1713 more memories to test.";echo "tr 71 M=MMU_CBPData40 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1712 more memories to test.";echo "tr 71 M=MMU_CBPData40_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1711 more memories to test.";echo "tr 71 M=MMU_CBPData40_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1710 more memories to test.";echo "tr 71 M=MMU_CBPData40_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1709 more memories to test.";echo "tr 71 M=MMU_CBPData40_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData40_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1708 more memories to test.";echo "tr 71 M=MMU_CBPData41 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData41 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1707 more memories to test.";echo "tr 71 M=MMU_CBPData41_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData41_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1706 more memories to test.";echo "tr 71 M=MMU_CBPData41_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData41_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1705 more memories to test.";echo "tr 71 M=MMU_CBPData41_XPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData41_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1704 more memories to test.";echo "tr 71 M=MMU_CBPData41_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData41_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1703 more memories to test.";echo "tr 71 M=MMU_CBPData42 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1702 more memories to test.";echo "tr 71 M=MMU_CBPData42_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1701 more memories to test.";echo "tr 71 M=MMU_CBPData42_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1700 more memories to test.";echo "tr 71 M=MMU_CBPData42_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1699 more memories to test.";echo "tr 71 M=MMU_CBPData42_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData42_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1698 more memories to test.";echo "tr 71 M=MMU_CBPData43 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1697 more memories to test.";echo "tr 71 M=MMU_CBPData43_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1696 more memories to test.";echo "tr 71 M=MMU_CBPData43_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1695 more memories to test.";echo "tr 71 M=MMU_CBPData43_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1694 more memories to test.";echo "tr 71 M=MMU_CBPData43_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData43_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1693 more memories to test.";echo "tr 71 M=MMU_CBPData44 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1692 more memories to test.";echo "tr 71 M=MMU_CBPData44_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1691 more memories to test.";echo "tr 71 M=MMU_CBPData44_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1690 more memories to test.";echo "tr 71 M=MMU_CBPData44_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1689 more memories to test.";echo "tr 71 M=MMU_CBPData44_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData44_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1688 more memories to test.";echo "tr 71 M=MMU_CBPData45 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1687 more memories to test.";echo "tr 71 M=MMU_CBPData45_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1686 more memories to test.";echo "tr 71 M=MMU_CBPData45_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1685 more memories to test.";echo "tr 71 M=MMU_CBPData45_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1684 more memories to test.";echo "tr 71 M=MMU_CBPData45_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData45_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1683 more memories to test.";echo "tr 71 M=MMU_CBPData46 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData46 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1682 more memories to test.";echo "tr 71 M=MMU_CBPData46_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData46_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1681 more memories to test.";echo "tr 71 M=MMU_CBPData46_XPE1 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData46_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1680 more memories to test.";echo "tr 71 M=MMU_CBPData46_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData46_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1679 more memories to test.";echo "tr 71 M=MMU_CBPData46_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData46_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1678 more memories to test.";echo "tr 71 M=MMU_CBPData47 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1677 more memories to test.";echo "tr 71 M=MMU_CBPData47_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1676 more memories to test.";echo "tr 71 M=MMU_CBPData47_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1675 more memories to test.";echo "tr 71 M=MMU_CBPData47_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1674 more memories to test.";echo "tr 71 M=MMU_CBPData47_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData47_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1673 more memories to test.";echo "tr 71 M=MMU_CBPData48 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1672 more memories to test.";echo "tr 71 M=MMU_CBPData48_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1671 more memories to test.";echo "tr 71 M=MMU_CBPData48_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1670 more memories to test.";echo "tr 71 M=MMU_CBPData48_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1669 more memories to test.";echo "tr 71 M=MMU_CBPData48_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData48_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1668 more memories to test.";echo "tr 71 M=MMU_CBPData49 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData49 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1667 more memories to test.";echo "tr 71 M=MMU_CBPData49_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData49_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1666 more memories to test.";echo "tr 71 M=MMU_CBPData49_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData49_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1665 more memories to test.";echo "tr 71 M=MMU_CBPData49_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData49_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1664 more memories to test.";echo "tr 71 M=MMU_CBPData49_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData49_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1663 more memories to test.";echo "tr 71 M=MMU_CBPData4_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1662 more memories to test.";echo "tr 71 M=MMU_CBPData4_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1661 more memories to test.";echo "tr 71 M=MMU_CBPData4_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1660 more memories to test.";echo "tr 71 M=MMU_CBPData4_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData4_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1659 more memories to test.";echo "tr 71 M=MMU_CBPData5 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1658 more memories to test.";echo "tr 71 M=MMU_CBPData50 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData50 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1657 more memories to test.";echo "tr 71 M=MMU_CBPData50_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData50_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1656 more memories to test.";echo "tr 71 M=MMU_CBPData50_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData50_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1655 more memories to test.";echo "tr 71 M=MMU_CBPData50_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData50_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1654 more memories to test.";echo "tr 71 M=MMU_CBPData50_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData50_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1653 more memories to test.";echo "tr 71 M=MMU_CBPData51 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1652 more memories to test.";echo "tr 71 M=MMU_CBPData51_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1651 more memories to test.";echo "tr 71 M=MMU_CBPData51_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1650 more memories to test.";echo "tr 71 M=MMU_CBPData51_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1649 more memories to test.";echo "tr 71 M=MMU_CBPData51_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData51_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1648 more memories to test.";echo "tr 71 M=MMU_CBPData52 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1647 more memories to test.";echo "tr 71 M=MMU_CBPData52_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1646 more memories to test.";echo "tr 71 M=MMU_CBPData52_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1645 more memories to test.";echo "tr 71 M=MMU_CBPData52_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1644 more memories to test.";echo "tr 71 M=MMU_CBPData52_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData52_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1643 more memories to test.";echo "tr 71 M=MMU_CBPData53 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1642 more memories to test.";echo "tr 71 M=MMU_CBPData53_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1641 more memories to test.";echo "tr 71 M=MMU_CBPData53_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1640 more memories to test.";echo "tr 71 M=MMU_CBPData53_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1639 more memories to test.";echo "tr 71 M=MMU_CBPData53_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData53_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1638 more memories to test.";echo "tr 71 M=MMU_CBPData54 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1637 more memories to test.";echo "tr 71 M=MMU_CBPData54_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1636 more memories to test.";echo "tr 71 M=MMU_CBPData54_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1635 more memories to test.";echo "tr 71 M=MMU_CBPData54_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1634 more memories to test.";echo "tr 71 M=MMU_CBPData54_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData54_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1633 more memories to test.";echo "tr 71 M=MMU_CBPData55 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData55 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1632 more memories to test.";echo "tr 71 M=MMU_CBPData55_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData55_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1631 more memories to test.";echo "tr 71 M=MMU_CBPData55_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData55_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1630 more memories to test.";echo "tr 71 M=MMU_CBPData55_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData55_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1629 more memories to test.";echo "tr 71 M=MMU_CBPData55_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData55_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1628 more memories to test.";echo "tr 71 M=MMU_CBPData56 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1627 more memories to test.";echo "tr 71 M=MMU_CBPData56_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1626 more memories to test.";echo "tr 71 M=MMU_CBPData56_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1625 more memories to test.";echo "tr 71 M=MMU_CBPData56_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1624 more memories to test.";echo "tr 71 M=MMU_CBPData56_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData56_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1623 more memories to test.";echo "tr 71 M=MMU_CBPData57 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1622 more memories to test.";echo "tr 71 M=MMU_CBPData57_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1621 more memories to test.";echo "tr 71 M=MMU_CBPData57_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1620 more memories to test.";echo "tr 71 M=MMU_CBPData57_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1619 more memories to test.";echo "tr 71 M=MMU_CBPData57_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData57_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1618 more memories to test.";echo "tr 71 M=MMU_CBPData58 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1617 more memories to test.";echo "tr 71 M=MMU_CBPData58_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1616 more memories to test.";echo "tr 71 M=MMU_CBPData58_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1615 more memories to test.";echo "tr 71 M=MMU_CBPData58_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1614 more memories to test.";echo "tr 71 M=MMU_CBPData58_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData58_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1613 more memories to test.";echo "tr 71 M=MMU_CBPData59 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData59 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1612 more memories to test.";echo "tr 71 M=MMU_CBPData59_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData59_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1611 more memories to test.";echo "tr 71 M=MMU_CBPData59_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData59_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1610 more memories to test.";echo "tr 71 M=MMU_CBPData59_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData59_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1609 more memories to test.";echo "tr 71 M=MMU_CBPData59_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData59_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1608 more memories to test.";echo "tr 71 M=MMU_CBPData5_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1607 more memories to test.";echo "tr 71 M=MMU_CBPData5_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1606 more memories to test.";echo "tr 71 M=MMU_CBPData5_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1605 more memories to test.";echo "tr 71 M=MMU_CBPData5_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData5_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1604 more memories to test.";echo "tr 71 M=MMU_CBPData6 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1603 more memories to test.";echo "tr 71 M=MMU_CBPData60 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1602 more memories to test.";echo "tr 71 M=MMU_CBPData60_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1601 more memories to test.";echo "tr 71 M=MMU_CBPData60_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1600 more memories to test.";echo "tr 71 M=MMU_CBPData60_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1599 more memories to test.";echo "tr 71 M=MMU_CBPData60_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData60_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1598 more memories to test.";echo "tr 71 M=MMU_CBPData61 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1597 more memories to test.";echo "tr 71 M=MMU_CBPData61_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1596 more memories to test.";echo "tr 71 M=MMU_CBPData61_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1595 more memories to test.";echo "tr 71 M=MMU_CBPData61_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1594 more memories to test.";echo "tr 71 M=MMU_CBPData61_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData61_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1593 more memories to test.";echo "tr 71 M=MMU_CBPData62 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1592 more memories to test.";echo "tr 71 M=MMU_CBPData62_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1591 more memories to test.";echo "tr 71 M=MMU_CBPData62_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1590 more memories to test.";echo "tr 71 M=MMU_CBPData62_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1589 more memories to test.";echo "tr 71 M=MMU_CBPData62_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData62_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1588 more memories to test.";echo "tr 71 M=MMU_CBPData63 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData63 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1587 more memories to test.";echo "tr 71 M=MMU_CBPData63_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData63_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1586 more memories to test.";echo "tr 71 M=MMU_CBPData63_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData63_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1585 more memories to test.";echo "tr 71 M=MMU_CBPData63_XPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData63_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1584 more memories to test.";echo "tr 71 M=MMU_CBPData63_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData63_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1583 more memories to test.";echo "tr 71 M=MMU_CBPData64 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1582 more memories to test.";echo "tr 71 M=MMU_CBPData64_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1581 more memories to test.";echo "tr 71 M=MMU_CBPData64_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1580 more memories to test.";echo "tr 71 M=MMU_CBPData64_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1579 more memories to test.";echo "tr 71 M=MMU_CBPData64_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData64_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1578 more memories to test.";echo "tr 71 M=MMU_CBPData65 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1577 more memories to test.";echo "tr 71 M=MMU_CBPData65_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1576 more memories to test.";echo "tr 71 M=MMU_CBPData65_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1575 more memories to test.";echo "tr 71 M=MMU_CBPData65_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1574 more memories to test.";echo "tr 71 M=MMU_CBPData65_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData65_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1573 more memories to test.";echo "tr 71 M=MMU_CBPData66 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1572 more memories to test.";echo "tr 71 M=MMU_CBPData66_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1571 more memories to test.";echo "tr 71 M=MMU_CBPData66_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1570 more memories to test.";echo "tr 71 M=MMU_CBPData66_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1569 more memories to test.";echo "tr 71 M=MMU_CBPData66_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData66_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1568 more memories to test.";echo "tr 71 M=MMU_CBPData67 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1567 more memories to test.";echo "tr 71 M=MMU_CBPData67_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1566 more memories to test.";echo "tr 71 M=MMU_CBPData67_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1565 more memories to test.";echo "tr 71 M=MMU_CBPData67_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1564 more memories to test.";echo "tr 71 M=MMU_CBPData67_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData67_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1563 more memories to test.";echo "tr 71 M=MMU_CBPData68 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData68 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1562 more memories to test.";echo "tr 71 M=MMU_CBPData68_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData68_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1561 more memories to test.";echo "tr 71 M=MMU_CBPData68_XPE1 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData68_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1560 more memories to test.";echo "tr 71 M=MMU_CBPData68_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData68_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1559 more memories to test.";echo "tr 71 M=MMU_CBPData68_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData68_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1558 more memories to test.";echo "tr 71 M=MMU_CBPData69 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1557 more memories to test.";echo "tr 71 M=MMU_CBPData69_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1556 more memories to test.";echo "tr 71 M=MMU_CBPData69_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1555 more memories to test.";echo "tr 71 M=MMU_CBPData69_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1554 more memories to test.";echo "tr 71 M=MMU_CBPData69_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData69_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1553 more memories to test.";echo "tr 71 M=MMU_CBPData6_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1552 more memories to test.";echo "tr 71 M=MMU_CBPData6_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1551 more memories to test.";echo "tr 71 M=MMU_CBPData6_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1550 more memories to test.";echo "tr 71 M=MMU_CBPData6_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData6_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1549 more memories to test.";echo "tr 71 M=MMU_CBPData7 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1548 more memories to test.";echo "tr 71 M=MMU_CBPData70 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData70 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1547 more memories to test.";echo "tr 71 M=MMU_CBPData70_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData70_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1546 more memories to test.";echo "tr 71 M=MMU_CBPData70_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData70_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1545 more memories to test.";echo "tr 71 M=MMU_CBPData70_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData70_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1544 more memories to test.";echo "tr 71 M=MMU_CBPData70_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData70_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1543 more memories to test.";echo "tr 71 M=MMU_CBPData71 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1542 more memories to test.";echo "tr 71 M=MMU_CBPData71_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1541 more memories to test.";echo "tr 71 M=MMU_CBPData71_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1540 more memories to test.";echo "tr 71 M=MMU_CBPData71_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1539 more memories to test.";echo "tr 71 M=MMU_CBPData71_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData71_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1538 more memories to test.";echo "tr 71 M=MMU_CBPData72 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData72 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1537 more memories to test.";echo "tr 71 M=MMU_CBPData72_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData72_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1536 more memories to test.";echo "tr 71 M=MMU_CBPData72_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData72_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1535 more memories to test.";echo "tr 71 M=MMU_CBPData72_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData72_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1534 more memories to test.";echo "tr 71 M=MMU_CBPData72_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData72_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1533 more memories to test.";echo "tr 71 M=MMU_CBPData73 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1532 more memories to test.";echo "tr 71 M=MMU_CBPData73_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1531 more memories to test.";echo "tr 71 M=MMU_CBPData73_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1530 more memories to test.";echo "tr 71 M=MMU_CBPData73_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1529 more memories to test.";echo "tr 71 M=MMU_CBPData73_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData73_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1528 more memories to test.";echo "tr 71 M=MMU_CBPData74 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1527 more memories to test.";echo "tr 71 M=MMU_CBPData74_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1526 more memories to test.";echo "tr 71 M=MMU_CBPData74_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1525 more memories to test.";echo "tr 71 M=MMU_CBPData74_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1524 more memories to test.";echo "tr 71 M=MMU_CBPData74_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData74_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1523 more memories to test.";echo "tr 71 M=MMU_CBPData75 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1522 more memories to test.";echo "tr 71 M=MMU_CBPData75_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1521 more memories to test.";echo "tr 71 M=MMU_CBPData75_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1520 more memories to test.";echo "tr 71 M=MMU_CBPData75_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1519 more memories to test.";echo "tr 71 M=MMU_CBPData75_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData75_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1518 more memories to test.";echo "tr 71 M=MMU_CBPData76 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1517 more memories to test.";echo "tr 71 M=MMU_CBPData76_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1516 more memories to test.";echo "tr 71 M=MMU_CBPData76_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1515 more memories to test.";echo "tr 71 M=MMU_CBPData76_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1514 more memories to test.";echo "tr 71 M=MMU_CBPData76_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData76_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1513 more memories to test.";echo "tr 71 M=MMU_CBPData77 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData77 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1512 more memories to test.";echo "tr 71 M=MMU_CBPData77_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData77_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1511 more memories to test.";echo "tr 71 M=MMU_CBPData77_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData77_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1510 more memories to test.";echo "tr 71 M=MMU_CBPData77_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData77_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1509 more memories to test.";echo "tr 71 M=MMU_CBPData77_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData77_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1508 more memories to test.";echo "tr 71 M=MMU_CBPData78 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1507 more memories to test.";echo "tr 71 M=MMU_CBPData78_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1506 more memories to test.";echo "tr 71 M=MMU_CBPData78_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1505 more memories to test.";echo "tr 71 M=MMU_CBPData78_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1504 more memories to test.";echo "tr 71 M=MMU_CBPData78_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData78_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1503 more memories to test.";echo "tr 71 M=MMU_CBPData79 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1502 more memories to test.";echo "tr 71 M=MMU_CBPData79_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1501 more memories to test.";echo "tr 71 M=MMU_CBPData79_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1500 more memories to test.";echo "tr 71 M=MMU_CBPData79_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1499 more memories to test.";echo "tr 71 M=MMU_CBPData79_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData79_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1498 more memories to test.";echo "tr 71 M=MMU_CBPData7_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1497 more memories to test.";echo "tr 71 M=MMU_CBPData7_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1496 more memories to test.";echo "tr 71 M=MMU_CBPData7_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1495 more memories to test.";echo "tr 71 M=MMU_CBPData7_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData7_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1494 more memories to test.";echo "tr 71 M=MMU_CBPData8 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData8 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1493 more memories to test.";echo "tr 71 M=MMU_CBPData80 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData80 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1492 more memories to test.";echo "tr 71 M=MMU_CBPData80_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData80_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1491 more memories to test.";echo "tr 71 M=MMU_CBPData80_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData80_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1490 more memories to test.";echo "tr 71 M=MMU_CBPData80_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData80_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1489 more memories to test.";echo "tr 71 M=MMU_CBPData80_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData80_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1488 more memories to test.";echo "tr 71 M=MMU_CBPData81 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1487 more memories to test.";echo "tr 71 M=MMU_CBPData81_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1486 more memories to test.";echo "tr 71 M=MMU_CBPData81_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1485 more memories to test.";echo "tr 71 M=MMU_CBPData81_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1484 more memories to test.";echo "tr 71 M=MMU_CBPData81_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData81_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1483 more memories to test.";echo "tr 71 M=MMU_CBPData82 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1482 more memories to test.";echo "tr 71 M=MMU_CBPData82_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1481 more memories to test.";echo "tr 71 M=MMU_CBPData82_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1480 more memories to test.";echo "tr 71 M=MMU_CBPData82_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1479 more memories to test.";echo "tr 71 M=MMU_CBPData82_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData82_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1478 more memories to test.";echo "tr 71 M=MMU_CBPData83 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1477 more memories to test.";echo "tr 71 M=MMU_CBPData83_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1476 more memories to test.";echo "tr 71 M=MMU_CBPData83_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1475 more memories to test.";echo "tr 71 M=MMU_CBPData83_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1474 more memories to test.";echo "tr 71 M=MMU_CBPData83_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData83_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1473 more memories to test.";echo "tr 71 M=MMU_CBPData84 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData84 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1472 more memories to test.";echo "tr 71 M=MMU_CBPData84_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData84_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1471 more memories to test.";echo "tr 71 M=MMU_CBPData84_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData84_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1470 more memories to test.";echo "tr 71 M=MMU_CBPData84_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData84_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1469 more memories to test.";echo "tr 71 M=MMU_CBPData84_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData84_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1468 more memories to test.";echo "tr 71 M=MMU_CBPData85 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData85 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1467 more memories to test.";echo "tr 71 M=MMU_CBPData85_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData85_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1466 more memories to test.";echo "tr 71 M=MMU_CBPData85_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData85_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1465 more memories to test.";echo "tr 71 M=MMU_CBPData85_XPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData85_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1464 more memories to test.";echo "tr 71 M=MMU_CBPData85_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData85_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1463 more memories to test.";echo "tr 71 M=MMU_CBPData86 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData86 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1462 more memories to test.";echo "tr 71 M=MMU_CBPData86_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData86_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1461 more memories to test.";echo "tr 71 M=MMU_CBPData86_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData86_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1460 more memories to test.";echo "tr 71 M=MMU_CBPData86_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData86_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1459 more memories to test.";echo "tr 71 M=MMU_CBPData86_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData86_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1458 more memories to test.";echo "tr 71 M=MMU_CBPData87 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData87 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1457 more memories to test.";echo "tr 71 M=MMU_CBPData87_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData87_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1456 more memories to test.";echo "tr 71 M=MMU_CBPData87_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData87_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1455 more memories to test.";echo "tr 71 M=MMU_CBPData87_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData87_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1454 more memories to test.";echo "tr 71 M=MMU_CBPData87_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData87_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1453 more memories to test.";echo "tr 71 M=MMU_CBPData88 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData88 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1452 more memories to test.";echo "tr 71 M=MMU_CBPData88_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData88_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1451 more memories to test.";echo "tr 71 M=MMU_CBPData88_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData88_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1450 more memories to test.";echo "tr 71 M=MMU_CBPData88_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData88_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1449 more memories to test.";echo "tr 71 M=MMU_CBPData88_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData88_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1448 more memories to test.";echo "tr 71 M=MMU_CBPData89 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData89 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1447 more memories to test.";echo "tr 71 M=MMU_CBPData89_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData89_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1446 more memories to test.";echo "tr 71 M=MMU_CBPData89_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData89_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1445 more memories to test.";echo "tr 71 M=MMU_CBPData89_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData89_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1444 more memories to test.";echo "tr 71 M=MMU_CBPData89_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData89_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1443 more memories to test.";echo "tr 71 M=MMU_CBPData8_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData8_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1442 more memories to test.";echo "tr 71 M=MMU_CBPData8_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData8_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1441 more memories to test.";echo "tr 71 M=MMU_CBPData8_XPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData8_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1440 more memories to test.";echo "tr 71 M=MMU_CBPData8_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData8_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1439 more memories to test.";echo "tr 71 M=MMU_CBPData9 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1438 more memories to test.";echo "tr 71 M=MMU_CBPData90 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData90 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1437 more memories to test.";echo "tr 71 M=MMU_CBPData90_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData90_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1436 more memories to test.";echo "tr 71 M=MMU_CBPData90_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData90_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1435 more memories to test.";echo "tr 71 M=MMU_CBPData90_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData90_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1434 more memories to test.";echo "tr 71 M=MMU_CBPData90_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData90_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1433 more memories to test.";echo "tr 71 M=MMU_CBPData91 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData91 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1432 more memories to test.";echo "tr 71 M=MMU_CBPData91_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData91_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1431 more memories to test.";echo "tr 71 M=MMU_CBPData91_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData91_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1430 more memories to test.";echo "tr 71 M=MMU_CBPData91_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData91_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1429 more memories to test.";echo "tr 71 M=MMU_CBPData91_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData91_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1428 more memories to test.";echo "tr 71 M=MMU_CBPData92 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData92 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1427 more memories to test.";echo "tr 71 M=MMU_CBPData92_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData92_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1426 more memories to test.";echo "tr 71 M=MMU_CBPData92_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData92_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1425 more memories to test.";echo "tr 71 M=MMU_CBPData92_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData92_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1424 more memories to test.";echo "tr 71 M=MMU_CBPData92_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData92_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1423 more memories to test.";echo "tr 71 M=MMU_CBPData93 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData93 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1422 more memories to test.";echo "tr 71 M=MMU_CBPData93_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData93_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1421 more memories to test.";echo "tr 71 M=MMU_CBPData93_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData93_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1420 more memories to test.";echo "tr 71 M=MMU_CBPData93_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData93_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1419 more memories to test.";echo "tr 71 M=MMU_CBPData93_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData93_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1418 more memories to test.";echo "tr 71 M=MMU_CBPData94 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData94 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1417 more memories to test.";echo "tr 71 M=MMU_CBPData94_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData94_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1416 more memories to test.";echo "tr 71 M=MMU_CBPData94_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData94_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1415 more memories to test.";echo "tr 71 M=MMU_CBPData94_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData94_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1414 more memories to test.";echo "tr 71 M=MMU_CBPData94_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData94_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1413 more memories to test.";echo "tr 71 M=MMU_CBPData95 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData95 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1412 more memories to test.";echo "tr 71 M=MMU_CBPData95_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData95_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1411 more memories to test.";echo "tr 71 M=MMU_CBPData95_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData95_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1410 more memories to test.";echo "tr 71 M=MMU_CBPData95_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData95_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1409 more memories to test.";echo "tr 71 M=MMU_CBPData95_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData95_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1408 more memories to test.";echo "tr 71 M=MMU_CBPData96 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData96 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1407 more memories to test.";echo "tr 71 M=MMU_CBPData96_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData96_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1406 more memories to test.";echo "tr 71 M=MMU_CBPData96_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData96_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1405 more memories to test.";echo "tr 71 M=MMU_CBPData96_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData96_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1404 more memories to test.";echo "tr 71 M=MMU_CBPData96_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData96_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1403 more memories to test.";echo "tr 71 M=MMU_CBPData97 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData97 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1402 more memories to test.";echo "tr 71 M=MMU_CBPData97_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData97_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1401 more memories to test.";echo "tr 71 M=MMU_CBPData97_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData97_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1400 more memories to test.";echo "tr 71 M=MMU_CBPData97_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData97_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1399 more memories to test.";echo "tr 71 M=MMU_CBPData97_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData97_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1398 more memories to test.";echo "tr 71 M=MMU_CBPData98 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CBPData98 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1397 more memories to test.";echo "tr 71 M=MMU_CBPData98_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData98_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1396 more memories to test.";echo "tr 71 M=MMU_CBPData98_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData98_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1395 more memories to test.";echo "tr 71 M=MMU_CBPData98_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData98_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1394 more memories to test.";echo "tr 71 M=MMU_CBPData98_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData98_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1393 more memories to test.";echo "tr 71 M=MMU_CBPData99 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CBPData99 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1392 more memories to test.";echo "tr 71 M=MMU_CBPData99_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData99_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1391 more memories to test.";echo "tr 71 M=MMU_CBPData99_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData99_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1390 more memories to test.";echo "tr 71 M=MMU_CBPData99_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData99_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1389 more memories to test.";echo "tr 71 M=MMU_CBPData99_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData99_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1388 more memories to test.";echo "tr 71 M=MMU_CBPData9_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1387 more memories to test.";echo "tr 71 M=MMU_CBPData9_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1386 more memories to test.";echo "tr 71 M=MMU_CBPData9_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1385 more memories to test.";echo "tr 71 M=MMU_CBPData9_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CBPData9_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1384 more memories to test.";echo "tr 71 M=MMU_CCP_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1383 more memories to test.";echo "tr 71 M=MMU_CCP_MEM_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1382 more memories to test.";echo "tr 71 M=MMU_CCP_MEM_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1381 more memories to test.";echo "tr 71 M=MMU_CCP_MEM_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1380 more memories to test.";echo "tr 71 M=MMU_CCP_MEM_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CCP_MEM_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1379 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1378 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1377 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1376 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1375 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1374 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1373 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1372 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1371 more memories to test.";echo "tr 71 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CCP_RESEQ_MEM_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1370 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1369 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1368 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1367 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1366 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK0_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK0_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1365 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1364 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1363 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1362 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1361 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1360 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK10_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK10_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1359 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1358 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1357 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1356 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1355 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK11_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK11_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1354 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1353 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1352 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1351 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1350 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK12_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK12_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1349 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1348 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1347 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1346 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1345 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK13_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK13_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1344 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1343 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1342 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1341 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK1_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK1_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1340 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1339 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1338 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1337 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1336 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK2_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK2_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1335 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1334 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1333 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1332 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1331 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK3_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK3_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1330 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1329 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1328 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1327 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1326 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK4_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK4_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1325 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1324 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1323 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1322 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1321 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK5_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK5_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1320 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1319 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1318 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1317 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1316 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK6_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK6_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1315 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1314 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1313 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1312 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1311 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK7_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK7_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1310 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1309 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1308 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1307 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1306 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK8_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK8_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1305 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1304 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1303 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1302 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1301 more memories to test.";echo "tr 71 M=MMU_CFAP_BANK9_XPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_CFAP_BANK9_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1300 more memories to test.";echo "tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CHFC_SYSPORT_MAPPING Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1299 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1298 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1297 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1296 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1295 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1294 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1293 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1292 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1291 more memories to test.";echo "tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_COLOR_DROP_MEM_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1290 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1289 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1288 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1287 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1286 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1285 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 1284 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1283 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1282 more memories to test.";echo "tr 71 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_ING_DROP_MEM_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1281 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1280 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1279 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1278 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1277 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1276 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1275 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1274 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1273 more memories to test.";echo "tr 71 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_MC_DROP_MEM_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1272 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1271 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1270 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1269 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1268 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE1_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 1267 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1266 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1265 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1264 more memories to test.";echo "tr 71 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_UC_DROP_MEM_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1263 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1262 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1261 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1260 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1259 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1258 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1257 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1256 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1255 more memories to test.";echo "tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_CTR_WRED_DROP_MEM_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1254 more memories to test.";echo "tr 71 M=MMU_ENQS_CT_FIFO Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_CT_FIFO Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1253 more memories to test.";echo "tr 71 M=MMU_ENQS_CT_FIFO_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_CT_FIFO_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1252 more memories to test.";echo "tr 71 M=MMU_ENQS_CT_FIFO_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_CT_FIFO_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1251 more memories to test.";echo "tr 71 M=MMU_ENQS_CT_FIFO_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_CT_FIFO_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 1250 more memories to test.";echo "tr 71 M=MMU_ENQS_CT_FIFO_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_CT_FIFO_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1249 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1248 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1247 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1246 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1245 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1244 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1243 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1242 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1241 more memories to test.";echo "tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQS_PBI_DB_SED1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1240 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 1239 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1238 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1237 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1236 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1235 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1234 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE2_PIPE2 Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1233 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1232 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_HI_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1231 more memories to test.";echo "tr 71 M=MMU_ENQX_EARLY_PIPEMEM_LO Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_EARLY_PIPEMEM_LO Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 1230 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1229 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1228 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1227 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1226 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1225 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1224 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1223 more memories to test.";echo "tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_ENQX_EARLY_PIPEMEM_LO_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1222 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1221 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1220 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1219 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1218 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 1217 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1216 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1215 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1214 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_HI_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1213 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1212 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1211 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1210 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1209 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1208 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1207 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1206 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1205 more memories to test.";echo "tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_ENQX_PIPEMEM_LO_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1204 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1203 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1202 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1201 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1200 more memories to test.";echo "tr 71 M=MMU_EPRG_MEM_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_EPRG_MEM_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
#echo "there are 1199 more memories to test.";echo "tr 71 M=MMU_GCFG_MEM_FAIL_ADDR_64 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_GCFG_MEM_FAIL_ADDR_64 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1198 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1197 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1196 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1195 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1194 more memories to test.";echo "tr 71 M=MMU_INTFO_TC2PRI_MAPPING3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TC2PRI_MAPPING3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 1193 more memories to test.";echo "tr 71 M=MMU_INTFO_TIMESTAMP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TIMESTAMP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 1192 more memories to test.";echo "tr 71 M=MMU_INTFO_TOD_TIMESTAMP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MMU_INTFO_TOD_TIMESTAMP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
#echo "there are 1191 more memories to test.";echo "tr 71 M=MMU_INTFO_UTC_TIMESTAMP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MMU_INTFO_UTC_TIMESTAMP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
#echo "there are 1190 more memories to test.";echo "tr 71 M=MMU_LINK_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_LINK_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1189 more memories to test.";echo "tr 71 M=MMU_LINK_MEM_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_LINK_MEM_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1188 more memories to test.";echo "tr 71 M=MMU_LINK_MEM_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_LINK_MEM_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1187 more memories to test.";echo "tr 71 M=MMU_LINK_MEM_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_LINK_MEM_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1186 more memories to test.";echo "tr 71 M=MMU_LINK_MEM_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_LINK_MEM_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1185 more memories to test.";echo "tr 71 M=MMU_MCFP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCFP Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1184 more memories to test.";echo "tr 71 M=MMU_MCFP_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCFP_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1183 more memories to test.";echo "tr 71 M=MMU_MCFP_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCFP_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1182 more memories to test.";echo "tr 71 M=MMU_MCFP_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCFP_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1181 more memories to test.";echo "tr 71 M=MMU_MCFP_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCFP_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1180 more memories to test.";echo "tr 71 M=MMU_MCQDB_X Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_X Start=0 Count=-1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 1179 more memories to test.";echo "tr 71 M=MMU_MCQDB_X_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_X_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1178 more memories to test.";echo "tr 71 M=MMU_MCQDB_X_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_X_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1177 more memories to test.";echo "tr 71 M=MMU_MCQDB_X_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_X_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1176 more memories to test.";echo "tr 71 M=MMU_MCQDB_X_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_X_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1175 more memories to test.";echo "tr 71 M=MMU_MCQDB_Y Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_Y Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1174 more memories to test.";echo "tr 71 M=MMU_MCQDB_Y_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_Y_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1173 more memories to test.";echo "tr 71 M=MMU_MCQDB_Y_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_Y_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1172 more memories to test.";echo "tr 71 M=MMU_MCQDB_Y_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_Y_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1171 more memories to test.";echo "tr 71 M=MMU_MCQDB_Y_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQDB_Y_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1170 more memories to test.";echo "tr 71 M=MMU_MCQE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQE Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1169 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_X Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_X Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1168 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_X_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_X_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1167 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_X_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_X_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1166 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_X_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_X_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1165 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_X_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_X_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1164 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_Y Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_Y Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1163 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_Y_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_Y_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1162 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_Y_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_Y_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1161 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_Y_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_Y_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1160 more memories to test.";echo "tr 71 M=MMU_MCQE_PREFETCH_Y_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MCQE_PREFETCH_Y_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 1159 more memories to test.";echo "tr 71 M=MMU_MCQE_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1158 more memories to test.";echo "tr 71 M=MMU_MCQE_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1157 more memories to test.";echo "tr 71 M=MMU_MCQE_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1156 more memories to test.";echo "tr 71 M=MMU_MCQE_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQE_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1155 more memories to test.";echo "tr 71 M=MMU_MCQN Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MCQN Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1154 more memories to test.";echo "tr 71 M=MMU_MCQN_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQN_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1153 more memories to test.";echo "tr 71 M=MMU_MCQN_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQN_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1152 more memories to test.";echo "tr 71 M=MMU_MCQN_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQN_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1151 more memories to test.";echo "tr 71 M=MMU_MCQN_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MCQN_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1150 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1149 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1148 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1147 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1146 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L0_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1145 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1144 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1143 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1142 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1141 more memories to test.";echo "tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_BUCKET_L1_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
#echo "there are 1140 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM Start=0 Count=-
1 SlamLowToHigh=0;echo "done";
#echo "there are 1139 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A Start=0
Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1138 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1137 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1136 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1135 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_A_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1134 more memories to test.";echo "tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B Start=0
Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1133 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1132 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1131 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1130 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_B_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1129 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1128 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1127 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1126 more memories to test.";echo "tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_MTRO_EGRMETERINGCONFIG_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1125 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1124 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_A Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_A Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1123 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_A_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_A_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1122 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_A_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_A_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1121 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_A_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_A_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1120 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_A_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_A_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 1119 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_B Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_B Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1118 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_B_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_B_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1117 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_B_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_B_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1116 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_B_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_B_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1115 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_B_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_B_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1114 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1113 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1112 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1111 more memories to test.";echo "tr 71 M=MMU_MTRO_L0_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L0_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1110 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1109 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_A Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_A Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1108 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_A_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_A_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1107 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_A_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_A_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1106 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_A_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_A_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
```

```
echo "there are 1105 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_A_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_A_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 1104 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_B Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_B Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1103 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_B_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_B_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1102 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_B_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_B_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1101 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_B_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_B_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1100 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_B_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_B_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1099 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1098 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1097 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1096 more memories to test.";echo "tr 71 M=MMU_MTRO_L1_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_MTRO_L1_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1095 more memories to test.";echo "tr 71 M=MMU_PDB_X Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PDB_X Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1094 more memories to test.";echo "tr 71 M=MMU_PDB_X_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_X_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1093 more memories to test.";echo "tr 71 M=MMU_PDB_X_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_X_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1092 more memories to test.";echo "tr 71 M=MMU_PDB_X_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_X_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1091 more memories to test.";echo "tr 71 M=MMU_PDB_X_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_X_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1090 more memories to test.";echo "tr 71 M=MMU_PDB_Y Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PDB_Y Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1089 more memories to test.";echo "tr 71 M=MMU_PDB_Y_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_Y_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1088 more memories to test.";echo "tr 71 M=MMU_PDB_Y_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_Y_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1087 more memories to test.";echo "tr 71 M=MMU_PDB_Y_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_Y_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1086 more memories to test.";echo "tr 71 M=MMU_PDB_Y_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PDB_Y_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1085 more memories to test.";echo "tr 71 M=MMU_PKTHDR Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1084 more memories to test.";echo "tr 71 M=MMU_PKTHDR_XPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1083 more memories to test.";echo "tr 71 M=MMU_PKTHDR_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1082 more memories to test.";echo "tr 71 M=MMU_PKTHDR_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1081 more memories to test.";echo "tr 71 M=MMU_PKTHDR_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PKTHDR_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1080 more memories to test.";echo "tr 71 M=MMU_PORTCNT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1079 more memories to test.";echo "tr 71 M=MMU_PORTCNT_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1078 more memories to test.";echo "tr 71 M=MMU_PORTCNT_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1077 more memories to test.";echo "tr 71 M=MMU_PORTCNT_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1076 more memories to test.";echo "tr 71 M=MMU_PORTCNT_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PORTCNT_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1075 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1074 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1073 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1072 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1071 more memories to test.";echo "tr 71 M=MMU_PQE0_MEM_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE0_MEM_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1070 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1069 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1068 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1067 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1066 more memories to test.";echo "tr 71 M=MMU_PQE1_MEM_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_PQE1_MEM_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1065 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO_TBL Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO_TBL Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1064 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1063 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 1062 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 1061 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INFO_TBL_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1060 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT Start=0
Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 1059 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0 Start=0
Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1058 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1057 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT0_SC1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1056 more memories to test.";echo "tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1 Start=0
Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1055 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1054 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT1_SC1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1053 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1052 more memories to test.";echo "tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_REPL_GROUP_INITIAL_COPY_COUNT_SC1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1051 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1050 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1049 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1048 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1047 more memories to test.";echo "tr 71 M=MMU_REPL_HEAD_TBL_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_HEAD_TBL_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 1046 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1045 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1044 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1043 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1042 more memories to test.";echo "tr 71 M=MMU_REPL_LIST_TBL_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_LIST_TBL_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1041 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1040 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1039 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1038 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 1037 more memories to test.";echo "tr 71 M=MMU_REPL_STATE_TBL_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_REPL_STATE_TBL_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 1036 more memories to test.";echo "tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64 Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64 Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 1035 more memories to test.";echo "tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1034 more memories to test.";echo "tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_SCFG_MEM_FAIL_ADDR_64_SC1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1033 more memories to test.";echo "tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64 Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 1032 more memories to test.";echo "tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1031 more memories to test.";echo "tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_SEDCFG_MEM_FAIL_ADDR_64_SC1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 1030 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_LOWER
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_LOWER Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 1029 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1028 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 1027 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1026 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_LOWER_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1025 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER Start=0 Count=-1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 1024 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1023 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1022 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1021 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED0_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1020 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1019 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1018 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1017 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_LOWER_SED1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1016 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER Start=0 Count=-1 SlamLowToHigh=0";tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 1015 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE0 Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1014 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1013 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1012 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED0_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1011 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1010 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1009 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1008 more memories to test.";echo "tr 71
M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_SCRATCH_UPPER_SED1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1007 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 1006 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1005 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1004 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 1003 more memories to test.";echo "tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_TCB_BUFFER_CELL_DATA_UPPER_XPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 1002 more memories to test.";echo "tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 1001 more memories to test.";echo "tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0
```

```
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE0 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 1000 more memories to test.";echo "tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE1 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 999 more memories to test.";echo "tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE2 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 998 more memories to test.";echo "tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_POOL_MCUC_PKSTAT_XPE3 Start=0
Count=0 SlamLowToHigh=0;echo "done";
#echo "there are 997 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 996 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 995 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 994 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 993 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 992 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 991 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 990 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 989 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_BST_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 988 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 987 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 986 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 985 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 984 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 983 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_A_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 982 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 981 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 980 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 979 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 978 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_B_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 977 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 976 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 975 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 974 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 973 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_C_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 972 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 971 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 970 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 969 more memories to test.";echo "tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_PORTSP_CONFIG_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 968 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 967 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 966 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 965 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 964 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 963 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 962 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 961 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 960 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_BST_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 959 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 958 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 957 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 956 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 955 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 954 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_A_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 953 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B Start=0
```

```
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 952 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 951 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 950 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 949 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_B_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 948 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 947 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 946 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 945 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 944 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_C_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 943 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 942 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 941 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 940 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_CONFIG_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 939 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 938 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 937 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 936 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 935 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 934 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 933 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 932 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 931 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_COUNT_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 930 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 929 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 928 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 927 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 926 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 925 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_A_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 924 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 923 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 922 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 921 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 920 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_B_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 919 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 918 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 917 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 916 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 915 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_C_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 914 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 913 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 912 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 911 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_OFFSET_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 910 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 909 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 908 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 907 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 906 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 905 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 904 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 903 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 902 more memories to test.";echo "tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_DB_QUEUE_RESUME_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 901 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 900 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 899 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 898 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 897 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 896 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 895 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 894 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 893 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_BST_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 892 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 891 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 890 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 889 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 888 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 887 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_A_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 886 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 885 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 884 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 883 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 882 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_B_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 881 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 880 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 879 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 878 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 877 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_C_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 876 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 875 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 874 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 873 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_PORTSP_CONFIG_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 872 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 871 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 870 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 869 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 868 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 867 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 866 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 865 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 864 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_BST_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 863 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 862 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 861 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 860 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 859 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 858 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_A_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 857 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B Start=0
```

```
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 856 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 855 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 854 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 853 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_B_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 852 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 851 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 850 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 849 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 848 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_C_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 847 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 846 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 845 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 844 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_CONFIG_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 843 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_COUNT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 842 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 841 more memories to test.";echo "tr 71
```

```
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 840 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 839 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 838 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 837 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 836 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 835 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 834 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 833 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 832 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 831 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 830 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 829 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_A_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 828 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 827 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 826 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 825 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 824 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_B_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 823 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 822 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 821 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 820 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 819 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_C_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 818 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 817 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 816 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 815 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_OFFSET_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 814 more memories to test.";echo "tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDM_MCQE_QUEUE_RESUME Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 813 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 812 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 811 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 810 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 809 more memories to test.";echo "tr 71
```

```
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 808 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 807 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 806 more memories to test.";echo "tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_THDM_MCQE_QUEUE_RESUME_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 805 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 804 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 803 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 802 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 801 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 800 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 799 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 798 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 797 more memories to test.";echo "tr 71 M=MMU_THDU_BST_PORT_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_PORT_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 796 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 795 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 794 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 793 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 792 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 791 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 790 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 789 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 788 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QGROUP_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 787 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 786 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 785 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 784 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 783 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 782 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 781 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 780 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 779 more memories to test.";echo "tr 71 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_BST_QUEUE_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 778 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 777 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 776 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 775 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 774 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 773 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 772 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 771 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 770 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 769 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 768 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 767 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 766 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 765 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 764 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_PORT_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_PORT_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 763 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
#echo "there are 762 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP0 Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 761 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 760 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE1 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 759 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 758 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 757 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP1 Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 756 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 755 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 754 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 753 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 752 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 751 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 750 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 749 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QGROUP_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 748 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
#echo "there are 747 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 746 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 745 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 744 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 743 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 742 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 741 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 740 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 739 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 738 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 737 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 736 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 735 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 734 more memories to test.";echo "tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_CONFIG_QUEUE_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 733 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 732 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 731 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 730 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 729 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 728 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 727 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 726 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 725 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_PORT_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 724 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 723 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 722 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 721 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 720 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 719 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 718 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 717 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 716 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QGROUP_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 715 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 714 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 713 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 712 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE2 Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 711 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 710 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 709 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 708 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 707 more memories to test.";echo "tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_COUNTER_QUEUE_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 706 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
#echo "there are 705 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 704 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 703 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 702 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 701 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 700 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 699 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 698 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 697 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 696 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP1_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 695 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 694 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 693 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 692 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QGROUP_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 691 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
#echo "there are 690 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 689 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 688 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 687 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 686 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 685 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 684 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 683 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 682 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 681 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 680 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 679 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 678 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 677 more memories to test.";echo "tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_OFFSET_QUEUE_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 676 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
#echo "there are 675 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0 Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 674 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 673 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 672 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 671 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 670 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1 Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 669 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 668 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 667 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 666 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 665 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2 Start=0 Count=-
1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 664 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE0 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 663 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 662 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 661 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 660 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 659 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 658 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 657 more memories to test.";echo "tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_Q_TO_QGRP_MAP_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 656 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 655 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT0 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 654 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 653 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 652 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT0_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT0_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 651 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 650 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT1 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 649 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 648 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 647 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 646 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 645 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT2 Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 644 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 643 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 642 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 641 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 640 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 639 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 638 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 637 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_PORT_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_PORT_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 636 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 635 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 634 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 633 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 632 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 631 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 630 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 629 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 628 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QGROUP_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 627 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 626 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 625 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 624 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 623 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 622 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 621 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 620 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 619 more memories to test.";echo "tr 71 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_RESUME_QUEUE_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 618 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 617 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 616 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 615 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 614 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 613 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 612 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 611 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 610 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 609 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_TABLE_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 608 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 607 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 606 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 605 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 604 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 603 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 602 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 601 more memories to test.";echo "tr 71 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_THDU_UCQ_STATS_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 600 more memories to test.";echo "tr 71 M=MMU_UCQDB_X Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_X Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 599 more memories to test.";echo "tr 71 M=MMU_UCQDB_X_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_X_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 598 more memories to test.";echo "tr 71 M=MMU_UCQDB_X_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_X_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 597 more memories to test.";echo "tr 71 M=MMU_UCQDB_X_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_X_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 596 more memories to test.";echo "tr 71 M=MMU_UCQDB_X_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_X_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 595 more memories to test.";echo "tr 71 M=MMU_UCQDB_Y Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_Y Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 594 more memories to test.";echo "tr 71 M=MMU_UCQDB_Y_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_Y_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 593 more memories to test.";echo "tr 71 M=MMU_UCQDB_Y_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_Y_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 592 more memories to test.";echo "tr 71 M=MMU_UCQDB_Y_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_Y_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 591 more memories to test.";echo "tr 71 M=MMU_UCQDB_Y_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_UCQDB_Y_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 590 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 589 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 588 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 587 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 586 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 585 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 584 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 583 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 582 more memories to test.";echo "tr 71 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_AVG_QSIZE_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 581 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 580 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 579 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE0_PIPE1 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 578 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 577 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 576 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 575 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 574 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 573 more memories to test.";echo "tr 71 M=MMU_WRED_CONFIG_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_CONFIG_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 572 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 571 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 570 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_0_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 569 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 568 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 567 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_1_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 566 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 565 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 564 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_2_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 563 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 562 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 561 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_3_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 560 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 559 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 558 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_4_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 557 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 556 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 555 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_5_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 554 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 553 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 552 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_6_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 551 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 550 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7_A
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 549 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_7_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 548 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 547 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8_A
```

```
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 546 more memories to test.";echo "tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8_B
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_DROP_CURVE_PROFILE_8_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 545 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 544 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_MARK
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_MARK Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 543 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 542 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 541 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 540 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 539 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 538 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 537 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 536 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_DROP_THD_MARK_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 535 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 534 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE0_PIPE1 Start=0
```

```
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 533 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 532 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 531 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE0 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 530 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 529 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 528 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_DROP_THD_XPE3_PIPE3 Start=0
Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 527 more memories to test.";echo "tr 71 M=MMU_WRED_PORT_SP_SHARED_COUNT Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_PORT_SP_SHARED_COUNT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 526 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 525 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 524 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 523 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 522 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 521 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 520 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
```

```
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 519 more memories to test.";echo "tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_PORT_SP_SHARED_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 518 more memories to test.";echo "tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_0 Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_0 Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 517 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 516 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 515 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 514 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 513 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 512 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 511 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 510 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_0_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 509 more memories to test.";echo "tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_1 Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_1 Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 508 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 507 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 506 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 505 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 504 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 503 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 502 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 501 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_1_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 500 more memories to test.";echo "tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_DROP_THD_MARK Start=0
Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 499 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 498 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 497 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 496 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 495 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 494 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 493 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 492 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_DROP_THD_MARK_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 491 more memories to test.";echo "tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT
```

```
Start=0 Count=-1 SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 490 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE Start=0 Count=-1 SlamLowToHigh=0";tr
71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 489 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE0
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 488 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE0_PIPE1
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 487 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE2
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 486 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE1_PIPE3
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 485 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE0
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 484 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE2_PIPE1
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 483 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE2
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 482 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_FROM_REMOTE_XPE3_PIPE3
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 481 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 480 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 479 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
```

```
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 478 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 477 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 476 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 475 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 474 more memories to test.";echo "tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=MMU_WRED_UC_QUEUE_TOTAL_COUNT_XPE3_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 473 more memories to test.";echo "tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64 Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64 Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 472 more memories to test.";echo "tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 471 more memories to test.";echo "tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 470 more memories to test.";echo "tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 469 more memories to test.";echo "tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MMU_XCFG_MEM_FAIL_ADDR_64_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 468 more memories to test.";echo "tr 71 M=MODPORT_MAP_M0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 467 more memories to test.";echo "tr 71 M=MODPORT_MAP_M1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 466 more memories to test.";echo "tr 71 M=MODPORT_MAP_M2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 465 more memories to test.";echo "tr 71 M=MODPORT_MAP_M3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_M3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 464 more memories to test.";echo "tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_MIRROR Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 463 more memories to test.";echo "tr 71 M=MODPORT_MAP_SW Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=MODPORT_MAP_SW Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 462 more memories to test.";echo "tr 71 M=MPLS_ENTRY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_ENTRY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 461 more memories to test.";echo "tr 71 M=MPLS_ENTRY_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MPLS_ENTRY_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 460 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 459 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE0 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 458 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE1 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 457 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE2 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 456 more memories to test.";echo "tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 Start=0
Count=0 SlamLowToHigh=0";tr 71 M=MULTIPASS_LOOPBACK_BITMAP_PIPE3 Start=0 Count=0
SlamLowToHigh=0;echo "done";
echo "there are 455 more memories to test.";echo "tr 71 M=MY_STATION_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 454 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 453 more memories to test.";echo "tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=MY_STATION_TCAM_ENTRY_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 452 more memories to test.";echo "tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=NONUCAST_TRUNK_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 451 more memories to test.";echo "tr 71 M=PHB2_COS_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PHB2_COS_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 450 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 449 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 448 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 447 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 446 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 445 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR1 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 444 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 443 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 442 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 441 more memories to test.";echo "tr 71 M=PKT_SCH_CALENDAR1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PKT_SCH_CALENDAR1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 440 more memories to test.";echo "tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_BMAP Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 439 more memories to test.";echo "tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0
SlamLowToHigh=0";tr 71 M=PORT_BRIDGE_MIRROR_BMAP Start=0 Count=0 SlamLowToHigh=0;echo
"done";
echo "there are 438 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 437 more memories to test.";echo "tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_CBL_TABLE_MODBASE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 436 more memories to test.";echo "tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PORT_LAG_FAILOVER_SET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 435 more memories to test.";echo "tr 71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=PORT_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 434 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 433 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 432 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 431 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 430 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 429 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 428 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 427 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 426 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 425 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_ISW2_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 424 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_IVP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_IVP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 423 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 422 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 421 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 420 more memories to test.";echo "tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=PTR_RESULTS_BUFFER_IVP_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 419 more memories to test.";echo "tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 418 more memories to test.";echo "tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 417 more memories to test.";echo "tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 416 more memories to test.";echo "tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 415 more memories to test.";echo "tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_ACCUM_COMP_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 414 more memories to test.";echo "tr 71 M=Q_SCHED_L0_CREDIT_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_CREDIT_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 413 more memories to test.";echo "tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 412 more memories to test.";echo "tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 411 more memories to test.";echo "tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 410 more memories to test.";echo "tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_CREDIT_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 409 more memories to test.";echo "tr 71 M=Q_SCHED_L0_WEIGHT_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_WEIGHT_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 408 more memories to test.";echo "tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 407 more memories to test.";echo "tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 406 more memories to test.";echo "tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 405 more memories to test.";echo "tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L0_WEIGHT_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 404 more memories to test.";echo "tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 403 more memories to test.";echo "tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 402 more memories to test.";echo "tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 401 more memories to test.";echo "tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 400 more memories to test.";echo "tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_ACCUM_COMP_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 399 more memories to test.";echo "tr 71 M=Q_SCHED_L1_CREDIT_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_CREDIT_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 398 more memories to test.";echo "tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 397 more memories to test.";echo "tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 396 more memories to test.";echo "tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 395 more memories to test.";echo "tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_CREDIT_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
#echo "there are 394 more memories to test.";echo "tr 71 M=Q_SCHED_L1_WEIGHT_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_WEIGHT_MEM Start=0 Count=-1 SlamLowToHigh=0;echo
"done";
echo "there are 393 more memories to test.";echo "tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 392 more memories to test.";echo "tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 391 more memories to test.";echo "tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 390 more memories to test.";echo "tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L1_WEIGHT_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 389 more memories to test.";echo "tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 388 more memories to test.";echo "tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 387 more memories to test.";echo "tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 386 more memories to test.";echo "tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 385 more memories to test.";echo "tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_ACCUM_COMP_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 384 more memories to test.";echo "tr 71 M=Q_SCHED_L2_CREDIT_MEM Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_CREDIT_MEM Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 383 more memories to test.";echo "tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 382 more memories to test.";echo "tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 381 more memories to test.";echo "tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 380 more memories to test.";echo "tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=Q_SCHED_L2_CREDIT_MEM_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 379 more memories to test.";echo "tr 71 M=RANDOM_RRLB_HG_TRUNK_MEMBER Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RANDOM_RRLB_HG_TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 378 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 377 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 376 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 375 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 374 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK0_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK0_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 373 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 372 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 371 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 370 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 369 more memories to test.";echo "tr 71 M=REPLICATION_FIFO_BANK1_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=REPLICATION_FIFO_BANK1_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 368 more memories to test.";echo "tr 71 M=RESPONSIVE_PROTOCOL_MATCH Start=0
Count=1 SlamLowToHigh=0";tr 71 M=RESPONSIVE_PROTOCOL_MATCH Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 367 more memories to test.";echo "tr 71 M=RQE_FREE_LIST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 366 more memories to test.";echo "tr 71 M=RQE_FREE_LIST_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 365 more memories to test.";echo "tr 71 M=RQE_FREE_LIST_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 364 more memories to test.";echo "tr 71 M=RQE_FREE_LIST_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 363 more memories to test.";echo "tr 71 M=RQE_FREE_LIST_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_FREE_LIST_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 362 more memories to test.";echo "tr 71 M=RQE_LINK_LIST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 361 more memories to test.";echo "tr 71 M=RQE_LINK_LIST_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 360 more memories to test.";echo "tr 71 M=RQE_LINK_LIST_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 359 more memories to test.";echo "tr 71 M=RQE_LINK_LIST_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 358 more memories to test.";echo "tr 71 M=RQE_LINK_LIST_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RQE_LINK_LIST_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 357 more memories to test.";echo "tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_FLOW_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 356 more memories to test.";echo "tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RTAG7_PORT_BASED_HASH Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 355 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 354 more memories to test.";echo "tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=RX_PROT_GROUP_TABLE_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 353 more memories to test.";echo "tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_ACC_TYPE_MAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 352 more memories to test.";echo "tr 71 M=SER_MEMORY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SER_MEMORY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 351 more memories to test.";echo "tr 71 M=SER_RESULT_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 350 more memories to test.";echo "tr 71 M=SER_RESULT_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 349 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 348 more memories to test.";echo "tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_DATA_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 347 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 346 more memories to test.";echo "tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=SER_RESULT_EXPECTED_1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 345 more memories to test.";echo "tr 71 M=SFLOW_ING_DATA_SOURCE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SFLOW_ING_DATA_SOURCE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 344 more memories to test.";echo "tr 71 M=SFLOW_ING_FLEX_DATA_SOURCE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SFLOW_ING_FLEX_DATA_SOURCE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 343 more memories to test.";echo "tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_MOD_PROXY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 342 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_TABLE Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 341 more memories to test.";echo "tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SOURCE_TRUNK_MAP_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 340 more memories to test.";echo "tr 71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0";tr
71 M=SOURCE_VP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 339 more memories to test.";echo "tr 71 M=SOURCE_VP_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SOURCE_VP_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 338 more memories to test.";echo "tr 71 M=SRC_COMPRESSION Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 337 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_DATA_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_DATA_ONLY Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 336 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 335 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 334 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 333 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_DATA_ONLY_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 332 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 331 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 330 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 329 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 328 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_TCAM_ONLY Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_TCAM_ONLY Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 327 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 326 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 325 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 324 more memories to test.";echo "tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SRC_COMPRESSION_TCAM_ONLY_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 323 more memories to test.";echo "tr 71 M=SRC_MODID_EGRESS Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_EGRESS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 322 more memories to test.";echo "tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SRC_MODID_INGRESS_BLOCK Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 321 more memories to test.";echo "tr 71 M=STATS_INTF_QUEUE_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=STATS_INTF_QUEUE_LIST Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 320 more memories to test.";echo "tr 71 M=STATS_INTF_SERVPOOL_LIST Start=0 Count=1
SlamLowToHigh=0";tr 71 M=STATS_INTF_SERVPOOL_LIST Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 319 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
```

```
echo "there are 318 more memories to test.";echo "tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=SYSTEM_CONFIG_TABLE_MODBASE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 317 more memories to test.";echo "tr 71 M=SYS_PORTMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=SYS_PORTMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 316 more memories to test.";echo "tr 71 M=TCB_BUFFER_METADATA Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=TCB_BUFFER_METADATA Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 315 more memories to test.";echo "tr 71 M=TCB_BUFFER_METADATA_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_BUFFER_METADATA_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 314 more memories to test.";echo "tr 71 M=TCB_BUFFER_METADATA_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_BUFFER_METADATA_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 313 more memories to test.";echo "tr 71 M=TCB_BUFFER_METADATA_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_BUFFER_METADATA_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 312 more memories to test.";echo "tr 71 M=TCB_BUFFER_METADATA_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_BUFFER_METADATA_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 311 more memories to test.";echo "tr 71 M=TCB_EVENT_BUFFER Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=TCB_EVENT_BUFFER Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 310 more memories to test.";echo "tr 71 M=TCB_EVENT_BUFFER_XPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_EVENT_BUFFER_XPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 309 more memories to test.";echo "tr 71 M=TCB_EVENT_BUFFER_XPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_EVENT_BUFFER_XPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 308 more memories to test.";echo "tr 71 M=TCB_EVENT_BUFFER_XPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_EVENT_BUFFER_XPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 307 more memories to test.";echo "tr 71 M=TCB_EVENT_BUFFER_XPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCB_EVENT_BUFFER_XPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 306 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 305 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 304 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 303 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 302 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 301 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 300 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE2_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 299 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 298 more memories to test.";echo "tr 71 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_SCRATCH_BUFFER_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 297 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP Start=0 Count=-1
SlamLowToHigh=0;echo "done";
#echo "there are 296 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 295 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 294 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 293 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 292 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_A_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 291 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 290 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 289 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 288 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 287 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_B_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 286 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 285 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 284 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE2 Start=0 Count=1
```

```
SlamLowToHigh=0;echo "done";
echo "there are 283 more memories to test.";echo "tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TCB_THRESHOLD_PROFILE_MAP_XPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 282 more memories to test.";echo "tr 71 M=TCP_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TCP_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 281 more memories to test.";echo "tr 71 M=TCP_FN_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCP_FN_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 280 more memories to test.";echo "tr 71 M=TCP_FN_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCP_FN_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 279 more memories to test.";echo "tr 71 M=TCP_FN_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCP_FN_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 278 more memories to test.";echo "tr 71 M=TCP_FN_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TCP_FN_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 277 more memories to test.";echo "tr 71 M=TDM_CALENDAR0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR0 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 276 more memories to test.";echo "tr 71 M=TDM_CALENDAR0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 275 more memories to test.";echo "tr 71 M=TDM_CALENDAR0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 274 more memories to test.";echo "tr 71 M=TDM_CALENDAR0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 273 more memories to test.";echo "tr 71 M=TDM_CALENDAR0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 272 more memories to test.";echo "tr 71 M=TDM_CALENDAR1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 271 more memories to test.";echo "tr 71 M=TDM_CALENDAR1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 270 more memories to test.";echo "tr 71 M=TDM_CALENDAR1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 269 more memories to test.";echo "tr 71 M=TDM_CALENDAR1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 268 more memories to test.";echo "tr 71 M=TDM_CALENDAR1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TDM_CALENDAR1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 267 more memories to test.";echo "tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT Start=0
Count=-1 SlamLowToHigh=0";tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT Start=0 Count=-1
SlamLowToHigh=0;echo "done";
echo "there are 266 more memories to test.";echo "tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE0 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 265 more memories to test.";echo "tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE1 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 264 more memories to test.";echo "tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE2 Start=0
Count=0 SlamLowToHigh=0;echo "done";
echo "there are 263 more memories to test.";echo "tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3
Start=0 Count=0 SlamLowToHigh=0";tr 71 M=THDI_PKT_STAT_SP_SHARED_COUNT_XPE3 Start=0
```

```
Count=0 SlamLowToHigh=0;echo "done";
#echo "there are 262 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 261 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 260 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 259 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 258 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 257 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 256 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 255 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 254 more memories to test.";echo "tr 71 M=THDI_PORT_PG_BST_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_BST_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 253 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 252 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 251 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 250 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 249 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 248 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 247 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 246 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 245 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT1_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 244 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 243 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 242 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 241 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 240 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 239 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 238 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 237 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 236 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_RT2_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 235 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 234 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 233 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 232 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 231 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 230 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 229 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 228 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 227 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH1_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 226 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 225 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 224 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 223 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 222 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 221 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 220 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 219 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 218 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CNTRS_SH2_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 217 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 216 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 215 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 214 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 213 more memories to test.";echo "tr 71 M=THDI_PORT_PG_CONFIG_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_PG_CONFIG_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
```

```
"done";
#echo "there are 212 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 211 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 210 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 209 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 208 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 207 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 206 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 205 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE3_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 204 more memories to test.";echo "tr 71 M=THDI_PORT_SP_BST_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_BST_XPE3_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 203 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 202 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 201 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 200 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 199 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 198 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 197 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 196 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 Start=0
```

```
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 195 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_RT_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 194 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 193 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 192 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE0_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 191 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE0 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 190 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE1_PIPE3 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 189 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 188 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE2_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 187 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE1 Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 186 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 Start=0
Count=1 SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CNTRS_SH_XPE3_PIPE2 Start=0 Count=1
SlamLowToHigh=0;echo "done";
#echo "there are 185 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG Start=0 Count=-1 SlamLowToHigh=0;echo "done";
#echo "there are 184 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 183 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 182 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 181 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 180 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG0_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG0_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 179 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1 Start=0 Count=-1
```

```
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 178 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 177 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 176 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 175 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG1_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG1_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
#echo "there are 174 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2 Start=0 Count=-1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2 Start=0 Count=-1 SlamLowToHigh=0;echo "done";
echo "there are 173 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 172 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 171 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 170 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG2_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG2_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 169 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 168 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 167 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 166 more memories to test.";echo "tr 71 M=THDI_PORT_SP_CONFIG_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=THDI_PORT_SP_CONFIG_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo
"done";
echo "there are 165 more memories to test.";echo "tr 71 M=TOS_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TOS_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 164 more memories to test.";echo "tr 71 M=TOS_FN_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TOS_FN_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 163 more memories to test.";echo "tr 71 M=TOS_FN_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TOS_FN_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 162 more memories to test.";echo "tr 71 M=TOS_FN_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TOS_FN_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 161 more memories to test.";echo "tr 71 M=TOS_FN_PIPE3 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=TOS_FN_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 160 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 159 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_PIPE0 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_PIPE0 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 158 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_PIPE1 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_PIPE1 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 157 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_PIPE2 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_PIPE2 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 156 more memories to test.";echo "tr 71 M=TRILL_DROP_STATS_PIPE3 Start=0 Count=0
SlamLowToHigh=0";tr 71 M=TRILL_DROP_STATS_PIPE3 Start=0 Count=0 SlamLowToHigh=0;echo "done";
echo "there are 155 more memories to test.";echo "tr 71 M=TRUNK_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 154 more memories to test.";echo "tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_CBL_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 153 more memories to test.";echo "tr 71 M=TRUNK_GROUP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_GROUP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 152 more memories to test.";echo "tr 71 M=TRUNK_RR_CNT Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_RR_CNT Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 151 more memories to test.";echo "tr 71 M=TRUNK_RR_CNT_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_RR_CNT_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 150 more memories to test.";echo "tr 71 M=TRUNK_RR_CNT_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_RR_CNT_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 149 more memories to test.";echo "tr 71 M=TRUNK_RR_CNT_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_RR_CNT_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 148 more memories to test.";echo "tr 71 M=TRUNK_RR_CNT_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_RR_CNT_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 147 more memories to test.";echo "tr 71 M=TRUNK_MEMBER Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TRUNK_MEMBER Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 146 more memories to test.";echo "tr 71 M=TTL_FN Start=0 Count=1 SlamLowToHigh=0";tr 71
M=TTL_FN Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 145 more memories to test.";echo "tr 71 M=TTL_FN_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TTL_FN_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 144 more memories to test.";echo "tr 71 M=TTL_FN_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TTL_FN_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 143 more memories to test.";echo "tr 71 M=TTL_FN_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TTL_FN_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 142 more memories to test.";echo "tr 71 M=TTL_FN_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=TTL_FN_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 141 more memories to test.";echo "tr 71 M=TX_INITIAL_PROT_GROUP_TABLE Start=0
Count=1 SlamLowToHigh=0";tr 71 M=TX_INITIAL_PROT_GROUP_TABLE Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 140 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 139 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM Start=0 Count=1
SlamLowToHigh=0;echo "done";
```

```
echo "there are 138 more memories to test.";echo "tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1
Start=0 Count=1 SlamLowToHigh=0";tr 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM_1 Start=0
Count=1 SlamLowToHigh=0;echo "done";
echo "there are 137 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 136 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 135 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 134 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 133 more memories to test.";echo "tr 71 M=FP_UDF_OFFSET_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_OFFSET_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 132 more memories to test.";echo "tr 71 M=FP_UDF_TCAM Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 131 more memories to test.";echo "tr 71 M=FP_UDF_TCAM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 130 more memories to test.";echo "tr 71 M=FP_UDF_TCAM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 129 more memories to test.";echo "tr 71 M=FP_UDF_TCAM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 128 more memories to test.";echo "tr 71 M=FP_UDF_TCAM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=FP_UDF_TCAM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 127 more memories to test.";echo "tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=UNKNOWN_HGI_BITMAP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 126 more memories to test.";echo "tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UNKNOWN_MCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 125 more memories to test.";echo "tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0
Count=1 SlamLowToHigh=0";tr 71 M=UNKNOWN_UCAST_BLOCK_MASK Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 124 more memories to test.";echo "tr 71 M=VFI Start=0 Count=1 SlamLowToHigh=0";tr 71 M=VFI
Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 123 more memories to test.";echo "tr 71 M=VFI_1 Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VFI_1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 122 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_A Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 121 more memories to test.";echo "tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0
Count=1 SlamLowToHigh=0";tr 71 M=VFP_HASH_FIELD_BMAP_TABLE_B Start=0 Count=1
SlamLowToHigh=0;echo "done";
echo "there are 120 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 119 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 118 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 117 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE_PIPE2 Start=0 Count=1
```

```
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 116 more memories to test.";echo "tr 71 M=VFP_POLICY_TABLE_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_POLICY_TABLE_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 115 more memories to test.";echo "tr 71 M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VFP_TCAM Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 114 more memories to test.";echo "tr 71 M=VFP_TCAM_PIPE0 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_TCAM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 113 more memories to test.";echo "tr 71 M=VFP_TCAM_PIPE1 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_TCAM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 112 more memories to test.";echo "tr 71 M=VFP_TCAM_PIPE2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_TCAM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 111 more memories to test.";echo "tr 71 M=VFP_TCAM_PIPE3 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VFP_TCAM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 110 more memories to test.";echo "tr 71 M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 109 more memories to test.";echo "tr 71 M=VLAN_2_TAB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_2_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 108 more memories to test.";echo "tr 71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MAC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 107 more memories to test.";echo "tr 71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_MPLS Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 106 more memories to test.";echo "tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 105 more memories to test.";echo "tr 71 M=VLAN_PROFILE_2 Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROFILE_2 Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 104 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 103 more memories to test.";echo "tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_PROTOCOL_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 102 more memories to test.";echo "tr 71 M=STG_TAB Start=0 Count=1 SlamLowToHigh=0";tr 71
M=STG_TAB Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 101 more memories to test.";echo "tr 71 M=VLAN_SUBNET Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 100 more memories to test.";echo "tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_DATA_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 99 more memories to test.";echo "tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_SUBNET_ONLY Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 98 more memories to test.";echo "tr 71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0";tr
71 M=VLAN_XLATE Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 97 more memories to test.";echo "tr 71 M=VLAN_XLATE_ECC Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_ECC Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 96 more memories to test.";echo "tr 71 M=VLAN_XLATE_LP Start=0 Count=1
SlamLowToHigh=0";tr 71 M=VLAN_XLATE_LP Start=0 Count=1 SlamLowToHigh=0;echo "done";
echo "there are 95 more memories to test.";echo "tr 71 M=VRF Start=0 Count=1 SlamLowToHigh=0";tr 71
M=VRF Start=0 Count=1 SlamLowToHigh=0;echo "done";
#echo "there are 94 more memories to test.";echo "tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1
SlamLowToHigh=0";tr 71 M=XLPORT_WC_UCMEM_DATA Start=0 Count=1 SlamLowToHigh=0;echo "done";
#---------------------------NOTEST memories-----------------------------------------------------------------
```

```
#echo 'there are 93 more memories to test.';echo 'tr 71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0';tr
71 M=EDB_1DBG_B Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 92 more memories to test.';echo 'tr 71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0';tr
71 M=LINK_STATUS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#---------------------------- READONLY  memories-----------------------------------------------------------------
#echo 'there are 91  more memories to test.';echo 'tr 71 M=DLB_ECMP_PORT_STATE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=DLB_ECMP_PORT_STATE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 90  more memories to test.';echo 'tr 71 M=DLB_HGT_LAG_PORT_STATE Start=0 Count=1
SlamLowToHigh=0';tr 71 M=DLB_HGT_LAG_PORT_STATE Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 89  more memories to test.';echo 'tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MAX_USED_ENTRIES Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 88  more memories to test.';echo 'tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_MMU_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 87  more memories to test.';echo 'tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1
SlamLowToHigh=0';tr 71 M=EGR_PORT_REQUESTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 86  more memories to test.';echo 'tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=MMU_MTRO_EGRMETERINGBUCKET_MEM Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 85  more memories to test.';echo 'tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 84  more memories to test.';echo 'tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 83  more memories to test.';echo 'tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 82  more memories to test.';echo 'tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=MMU_MTRO_EGRMETERINGBUCKET_MEM_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#---------------------------- VENDOR  memories-------------------------------------------------------------------
#echo 'there are 81  more memories to test.';echo 'tr 71 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 80  more memories to test.';echo 'tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 79  more memories to test.';echo 'tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 78  more memories to test.';echo 'tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 77  more memories to test.';echo 'tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM0_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 76  more memories to test.';echo 'tr 71 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS Start=0
```

```
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 75  more memories to test.';echo 'tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 74  more memories to test.';echo 'tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 73  more memories to test.';echo 'tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 72  more memories to test.';echo 'tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM10_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 71  more memories to test.';echo 'tr 71 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 70  more memories to test.';echo 'tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 69  more memories to test.';echo 'tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 68  more memories to test.';echo 'tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 67  more memories to test.';echo 'tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM11_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 66  more memories to test.';echo 'tr 71 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 65  more memories to test.';echo 'tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 64  more memories to test.';echo 'tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 63  more memories to test.';echo 'tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 62  more memories to test.';echo 'tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM12_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 61  more memories to test.';echo 'tr 71 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 60  more memories to test.';echo 'tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
```

```
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 59  more memories to test.';echo 'tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 58  more memories to test.';echo 'tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 57  more memories to test.';echo 'tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM13_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 56  more memories to test.';echo 'tr 71 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 55  more memories to test.';echo 'tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 54  more memories to test.';echo 'tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 53  more memories to test.';echo 'tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 52  more memories to test.';echo 'tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM14_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 51  more memories to test.';echo 'tr 71 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS Start=0
Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 50  more memories to test.';echo 'tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 49  more memories to test.';echo 'tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 48  more memories to test.';echo 'tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 47  more memories to test.';echo 'tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM15_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 46  more memories to test.';echo 'tr 71 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 45  more memories to test.';echo 'tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 44  more memories to test.';echo 'tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
```

```
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 43  more memories to test.';echo 'tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 42  more memories to test.';echo 'tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM1_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 41  more memories to test.';echo 'tr 71 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 40  more memories to test.';echo 'tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 39  more memories to test.';echo 'tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 38  more memories to test.';echo 'tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 37  more memories to test.';echo 'tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM2_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 36  more memories to test.';echo 'tr 71 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 35  more memories to test.';echo 'tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 34  more memories to test.';echo 'tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 33  more memories to test.';echo 'tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 32  more memories to test.';echo 'tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM3_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 31  more memories to test.';echo 'tr 71 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 30  more memories to test.';echo 'tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 29  more memories to test.';echo 'tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 28  more memories to test.';echo 'tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
```

```
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 27  more memories to test.';echo 'tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM4_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 26  more memories to test.';echo 'tr 71 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 25  more memories to test.';echo 'tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 24  more memories to test.';echo 'tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 23  more memories to test.';echo 'tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 22  more memories to test.';echo 'tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM5_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 21  more memories to test.';echo 'tr 71 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 20  more memories to test.';echo 'tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 19  more memories to test.';echo 'tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 18  more memories to test.';echo 'tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 17  more memories to test.';echo 'tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM6_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 16  more memories to test.';echo 'tr 71 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS
Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS Start=0 Count=1
SlamLowToHigh=0;echo 'done';
#echo 'there are 15  more memories to test.';echo 'tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 14  more memories to test.';echo 'tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 13  more memories to test.';echo 'tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 12  more memories to test.';echo 'tr 71
M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71
```

M=IDB_OBM7_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 11 more memories to test.';echo 'tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 10 more memories to test.';echo 'tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 9 more memories to test.';echo 'tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 8 more memories to test.';echo 'tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 7 more memories to test.';echo 'tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM8_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 6 more memories to test.';echo 'tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 5 more memories to test.';echo 'tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE0 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 4 more memories to test.';echo 'tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE1 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 3 more memories to test.';echo 'tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE2 Start=0 Count=1 SlamLowToHigh=0;echo 'done';
#echo 'there are 2 more memories to test.';echo 'tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0';tr 71 M=IDB_OBM9_IOM_STATS_WINDOW_RESULTS_PIPE3 Start=0 Count=1 SlamLowToHigh=0;echo 'done';

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/tr71_bcm56970_a0.soc
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsLastSentPriAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLastSentPriAddrConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTwoBitEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTwoBitEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: helix4.c,v 1.68 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       helix4.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/helix4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_intr_corr_act_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement header correction action functions for fe3200icho interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_intr_corr_act_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sdk_config.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sdk_config.h

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin_pll_config.c                                    *
*  Created On    :  14/07/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Merlin PLL Configuration API                           *
*  Revision      :  $Id: merlin_pll_config.c 857 2015-01-16 22:22:38Z kirand $ *
*                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without      *
*  the written permission of:                                              *
*      Broadcom Corporation                                                *
*      5300 California Avenue                                              *
*      Irvine, CA  92617                                                   *
*                                                                          *
*  All information contained in this document is Broadcom Corporation      *
*  company private proprietary, and trade secret.                          *
*                                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/counter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpInstructionConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaEpInstructionConsole.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_ipmc_example_rpf.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_ipmc_example_rpf.c
* Purpose: Example shows how to configure IP multicast for IPv4 and IPv6.
*
* Default Settings:
* There are two examples, one for IPv4 and one IPv6. Both are similar, except the IP structures.
*
* The main example configures the following:
*   -  Create an IP MC Group create_ip_mc_group (unit, flags, ipmc_index, dest_port_id, vlan).
*   -  Add an IP MC Entry add_ip4mc_entry (unit, mc_ip, src_ip, vlan, mc_id).
*  Note that the bcm_multicast_t that was created in the create_ip_mc_group() function is saved to pass it
*  to the add_ip4mc_entry() as an argument. Passing the MC ID alone without the encapsulation
*  results in an error. Also, trying to create the entry before the group results in an error.
*   -  Use bcm_ipmc_find to get the entry that was just added.
*   -  You can also use the individual functions that are included.
*
* IPv4 Application: ipv4_mc_example(unit)
*
*  ~~~
```

```
*  |  | DA  |SA||TIPD1 |Prio|VID 1||      DA IPV6      |       SA IPV6     ||Data |  |
*  |  |AB:1D| 1||0x8100|    |     ||FFFF.FFFF.FFFF.FFFF|12DC.0000.0000.0001||     |  |
*  |  +-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+  |
*  |                    +~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~+                    |
*  |                    | Figure 21: IPv6OEthernet Packet |                    |
*  ~~~~~~~~~~~~~~~~~~~
```

```
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88650_a0.c
* Purpose:     bcm88650_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88650_a0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_vlan_edit.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_eg_vlan_edit.h
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_vlan_edit.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: driver.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: driver.h
```

* Purpose: Chip driver declarations
* Supports: bcm56218_a0
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/driver.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_stack.c,v 1.3.164.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 STACK
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_stack.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: katana.h,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: katana.h
* Purpose: Function declarations for Trident bcm functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/katana.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfFabBm3200BwRepAddr.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwRepAddr.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwRepAddr.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rate.c,$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    rate.c
* Rate - Broadcom EA tk371x Rate Limiting API.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/tk371x/rate.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       subport.c
* Purpose:     XGS5 Subport CoE common driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/xgs5/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Streaming test to check TDM table and programming. Each port loops traffic
* back to itself using port bridging and higig lookup for HG ports. Test test
* calculates expected rates based on port config and oversub ratio and checks
* against it.
* Configuration parameters passed from CLI:
* PktSize: Packet size in bytes. Set to 0 for worst case packet sizes on all
*         ports (145B for ENET, 76B for HG2). Set to 1 for random packet sizes
* FloodCnt: Number of packets in each swill. Setting this to 0 will let the
*          test calculate the number of packets that can be sent to achieve
*          a lossless swirl at full rate. Set to 0 by default.
* Setup and Test Sequence:
* 1. Group all active front panel ports into groups of
*    (NumL2Copy + NumL3Copy+ 1) ports. Each group constitutes 1 IPMC "stream".
*    All ports in a stream should have the same line rate, although they may
*    have different oversub ratios.
* 2. Let us assume a stream has n ports P0, P1 ... Pn. The ports should be
*    arranged such that the P1 is the slowest port, i.e. has the highest oversub
*    ratio and the highest number of same port replications.
* 3. Turn off all flow control, set MAC loopback on all ports and disable TTL
*    decrement by setting EGR_IPMC_CFG2.DISABLE_TTL_DECREMENT=1.
* 4. Randomly decide whether each receiving port in the stream (P1, P2, ... Pn)
*    should receive L2 or L3 copies. If port P1 receives L2 copies, the IPMC
*    stream is designated an "L2 stream". If it receives L3 copies the stream
*    is designated an "L3 stream".
* 5. For each stream:
*      a. Place port P0 on VLAN0. Create an empty VLAN called DROP_VLAN with
*         no ports
*      b. Add all ports receiving L2 copies to VLAN1 and multicast group MC0
*         using bcm_multicast_egress_add(). This programs the L2MC table.
*      c. Add the following VLAN translations:
*         i. For L2 streams: Port=P2, P3 ... Pn OldVlan=VLAN1 NewVlan=DROP_VLAN
*         ii. For L3 streams: Port=P1, P2 ... Pn OldVlan=VLAN1 NewVlan=DROP_VLAN
*         iii. Port=P0 OldVlan=VLAN0 NewVlan=VLAN1
*         iv. For L2 streams: Port=P1 OldVlan=VLAN1 NewVlan=DROP_VLAN
*      d. For each port Pk receiving L3 copies, let the number of L3 copies received at a port be m (=NumRep+1).
*         i. Create m VLANs (VLANk0, VLANk1, .... VLANk(m-1)), each with port Pk
*         ii. For L3 streams: If k=1, VLAN2=VLANk0
*         iii. For L3 streams: Create the following VLAN translation: Port=Pk OldVlan=VLAN2 NewVlan=VLAN0
*         iv. For L2 streams: Create the following VLAN translation: Port=Pk OldVlan= VLANk0, VLANk1, ...
VLANk(m-1)) NewVlan=DROP_VLAN
*         v. Create m L3 interfaces I0, I1 ... I(m-1) with VLANk0, VLANk1, .... VLANk(m-1)
*         vi. Add interface to multicat group MC1 using bcm_multicast_egress_add().
*         vii. Program IPMC table with necessary SIP, DIP and multicast group MC1.
* 6. Send packets from CPU port on VLAN0 of each stream to flood the stream.
*    If FloodCnt=0, the test will determine the number of packets to send based.
*    These values are obtained empirically through trial and error for LR ports
```

```
*    for NumCopy=2 and adjusted for oversub configs based on oversub ratio.
*    Embed the packet size and random seed used to generate each packet in the
*    payload.
* 7. Allow the packets to swill for a fixed amount of time decided by RunTime.
* 8. Snoop back all packets in each stream to the CPU using the following sequence:
*      a. Program CPU_CONTROL_0.UVLAN_TOCPU=1. This sends all packets with an unknown VLAN to CPU.
*      b. Invalidate VLAN0 for all streams by setting VALID=0 in the VLAN table
* 9. Decode each received packet to obtain the random seed and packet size.
*    Reconstruct the expected packet and check the received packet for integrity.
* Checks:
* 1. Packet counts on each port.
* 2. No packet drops on any stream for LR configs.
* 3. All packets in a given stream snooped back to CPU port and checked for integrity.
*
* Test Limitations
* 1. FloodCnt automatically computed in the test supports packet sizes upto
*    1518B and NumCopy=2. Any deviations may result in packet drops for LR
*    configs or false rate errors being reported. For custom configs the user is
*    encouraged to tweak the FloodCnt value as per their needs.
*
* PktSize : Packet size in bytes not including HG2 header. Set to 0 for worst
*           case packet sizes (145B for Ethernet and 76B for HG2). Set to 1 for
*           random packet sizes.
* FloodCnt: Number of packets sent from CPU to flood each stream (packet swill).
*           Set to 0 for test to automatically calculate.
* NumL2Copy: Number of ports receiving L2 copies in each stream (2 by default).
* NumL3Copy:  Number of ports receiving L3 copies in each stream (2 by default).
* NumRep: Number of same-port replications on ports receiving . Set to 0 for
*         random.
* MaxNumRep: Max number of replications if NumRep=0. Set both MaxNumRep and
*            NumRep to 0 for no same port replication.
* MaxNumCells: Max number of cells for random packet sizes. Default = 4.
*              Set to 0 for random.
* RunTime: Interval in seconds over which swill is allowed to
*          run (10s by default).
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/streaming_ipmc.c
No license file was found, but licenses were detected in source scan.

```
# $Id: 56725_inline_tm.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Sirius Inline TM
#
```

```
# HumV+ fabric configuration for Tr2+Sirius+HumV where
# Sirius is configured for inline TM
#

s cpu_control_1 0xffffffff

mod port 9 4 higig2=1

m EGR_PORT.hg2 HIGIG2=1
m EGR_PORT.hg3 HIGIG2=1
m EGR_PORT.hg4 HIGIG2=1
m EGR_PORT.hg5 HIGIG2=1

m XPORT_CONFIG.hg2 HIGIG2_MODE=1
m XPORT_CONFIG.hg3 HIGIG2_MODE=1
m XPORT_CONFIG.hg4 HIGIG2_MODE=1
m XPORT_CONFIG.hg5 HIGIG2_MODE=1

m MAC_TXCTRL.hg2 HIGIG2MODE=1
m MAC_TXCTRL.hg3 HIGIG2MODE=1
m MAC_TXCTRL.hg4 HIGIG2MODE=1
m MAC_TXCTRL.hg5 HIGIG2MODE=1

m MAC_rXCTRL.hg2 HIGIG2MODE=1
m MAC_rXCTRL.hg3 HIGIG2MODE=1
m MAC_rXCTRL.hg4 HIGIG2MODE=1
m MAC_rXCTRL.hg5 HIGIG2MODE=1


mod vlan 0x276 1
PORT_BITMAP=0x7ff81,HIGIG_TRUNK_OVERRIDE=0,VALID=1,STG=1,FID_ID=0,VLAN_PROFILE_PTR=
0,VRF_ID=0,CLASS_ID=0,VLAN_CLASS_ID=0,L2_ENTRY_KEY_TYPE=0

mod egr_vlan 0x276 1
UT_BITMAP=0,UT_PORT_BITMAP=0,PORT_BITMAP=0x7ff81,STG=1,VALID=1,OUTER_TPID_INDEx=0



mod modport_map 2306 1 HIGIG_PORT_BITMAP=0x0800
mod modport_map 2562 1 HIGIG_PORT_BITMAP=0x1000
mod modport_map 2818 1 HIGIG_PORT_BITMAP=0x0200
mod modport_map 3074 1 HIGIG_PORT_BITMAP=0x0400

mod modport_map 2304 1 HIGIG_PORT_BITMAP=0x0800
mod modport_map 2560 1 HIGIG_PORT_BITMAP=0x1000
mod modport_map 2816 1 HIGIG_PORT_BITMAP=0x0200
mod modport_map 3072 1 HIGIG_PORT_BITMAP=0x0400
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/56725_inline_tm.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: support.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       support.h
* Purpose:    Public board support functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/support.h
No license file was found, but licenses were detected in source scan.

```
/*
* gmacdefs - Broadcom gmac (Unimac) specific definitions
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: gmac0_core.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/gmac0_core.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.31 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls.c
* Purpose:    BCM mpls API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_4x1g_2xhg10_1xil100.h,v 1.1.2.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4x1g_2xhg10_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_mgmt.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/src/soc_tmcapi_mgmt.c
*
* MODULE PREFIX:  soc_tmcmgmt
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       qos.c
* Purpose:     Katana2 QoS functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm570xEnd.c,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* NPT/SENS Driver for Broadcom BCM570x Gigabit Ethernet NIC ASIC family.
*
* This module implements an END driver for BCM570x family of Gigabit
* Ethernet NIC ASIC's for use with the VxWorks 5.4.x SENS protocol
* stack (Tornado 2.0).
*
* This driver should operate with little or no modifications on a
* wide variety of target platforms. The driver can be built to
* support big-endian or little-endian architectures, however it has only
* been tested on big endian machines.
*
* The driver is configured via an END load string.  The load string
* contains the following fields:
*
*   unit : membase: iline : align
*
*   Where:
*     1) unit defines the device instance (0,1,2 ... N)
*        This value is prepended to your load string by the VxWorks.
*        Do not specify it!
*        NOTE: Be sure value < IP_MAX_UNITS in config*.h
*     2) membase defines the PCI memory region on your target CPU.
*     3) iline defines the interrupt number or IRQ for the device.
*     4) align: indicates how many bytes to shift data in ethernet
*               frame for protocol stack to align IP header in packet.
*               For PowerPC and most other architectures, use 0,
*               for MIPS, use the value 2.
*
* Required BSP functions
* ----------------------
*
* _func_bcm570xEnetAddrGet() -- pointer to a BSP function to get the
*     MAC address. If that function doesn't return OK,
*     the driver will supply a hardwired MAC address.
*
* sysUsecDelay() -- a hardware-level delay with microsecond granularity
*
* sysSerialPrintString() -- a polled serial printing function,
*                           similar to Linux printk()
*
* sysBcm570xCacheFuncsGet() -- fills in the structure that contains
*                              the flush and invalidate function pointers.
```

```
*
*
* Defines
* -------
*
* USE_ZERO_COPY_TX -- if this is true, then hardware gather/scatter
*     is used for transmit.  If not, then all outgoing packets that
*     consist of multiple mbufs, will be copied to a single contiguous
*     buffer.
*
* USE_ZERO_COPY_RX -- if this is true, receive buffers will not be
*     copied when the "align" value is non-zero.  This can be used
*     with CPUs that support DMA to unaligned addresses.
*
* INCLUDE_MIBII_RFC2233 -- if this is supported by VxWorks, it will
*     be defined in a VxWorks header file.  Do not define this yourself.
*
* PKT_DEBUG -- used for debugging.  When true, packets will be dumped
*     to the console if global variable bcm570x_pkt_debug is non-zero.
*
* JUMBO_FRAMES -- ignored
*
* BCM570X_ADAPTIVE_RX -- enables support code for adaptive receive
*     coalesence; however, it has no effect unless you supply a periodic
* task that calls bcm570xAdaptRxCoalesce().
*
* BCM570X_DEBUG_TASK -- used for debugging the driver if the bcm570x
*     isn't being used as the boot device.
*
* Others -- a few other debug macros are lying about...
*
* Defines used in tigon3
* ----------------------
*
* BIG_ENDIAN_HOST -- this macro will be set for you automatically in mm.h
*
* BIG_ENDIAN_PCI -- define this macro if you're running on a big endian
*     machine that swaps PCI memory accesses for you.
*
* T3_JUMBO_RCV_ENTRY_COUNT -- this is the size of the ring for receive frames
*    greater than 1500 bytes.  VxWorks doesn't support jumbo frames, so you
*    can turn this on if you like but it will just compile in a bunch of code
*    that doesn't do anything.
*
* INCLUDE_5701_AX_FIX -- define this if your chip is a 5701 A0 or B0.
*
* PCIX_TARGET_WORKAROUND -- define this if you're using PCIX, not
*     PCI.  I think it's really only needed for Intel hosts but I'm not
```

```
*     sure.
*
* INCLUDE_TBI_SUPPORT -- for Gig Ethernet.  If you're running 10/100,
*     you don't need this.
*
* ---------------------------------------------------------------------------
* Known Issues
*
*    Polled mode send/receive implemented, but not reliable.
*
*    Driver only supports "standard" rings.  Mini and jumbo not supported.
*
*    Chip monitor task not spawned by this driver.  See the Linux driver,
*    b57um.c, if you're interested in adding adaptive features.
*
*    VLAN tags are not supported.
*
* Related Documentation
*
*    Broadcom BCM570x Register Reference
*    Broadcom BCM570x Host Programming I/F Specification
*    Wind River Systems Network Protocol Toolkit
*    Wind River Systems VxWorks Network Programmers Guide
*
* Based on: Linux TIGON3 Driver version 3.0.2
*
* Author(s):  James Dougherty (jfd@broadcom.com)    (VxWorks port)
*             Jimmy Blair     (jblair@broadcom.com) (VxWorks port)
*             Michael Chan (mchan@broadcom.com)     (Original Linux version)
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/bcm570xEnd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: niv.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    niv.c
* Purpose: Implements NIV APIs for Trident.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/niv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_flow_control.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC FLOW CONTROL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_flow_control.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: subport.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       subport.c
* Purpose:    SUBPORT common APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/subport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmWredParamEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQmWredParamEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmdevmgr.h,v 1.1.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/nlm3/nlmdevmgr/nlmdevmgr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_frwrd_bmact.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_frwrd_bmact.h
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
'==================================================================================
================
'@@@
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_xgs_mac_extender_mappings_tm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: pt.c,v 1.8.16.18 Broadcom SDK $
*
* File:    sws.c
* Purpose: Caladan3 SWS drivers
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/pt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* INFO: this module is the entry poit for Crash Recovery feature
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_crash_recovery_test.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_crash_recovery_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: memtune.c,v 1.114 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       memtune.c
* Purpose:     External memory interface tuning routines.
* Notes:       Framework for memory tuning sequences.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/memtune.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm570xEnd.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/bcm570xEnd.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmrbtree_udef.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmrbtree_udef.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: prom.c,v 1.3 2011/07/21 16:14:28 yshtil Exp $
*  Copyright 2009, Broadcom Corporation
*   All Rights Reserved.

*  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
*  the contents of this file may not be disclosed to third parties, copied or
*  duplicated in any form, in whole or in part, without the prior written
*  permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/prom.c

No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_ufnames.i
* Purpose:     Memory user-friendly names.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_ufnames.i
No license file was found, but licenses were detected in source scan.

```
/*
* BCM47XX Sonics SiliconBackplane SDRAM controller core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbsdram.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sbsdram.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56547sanity.soc,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Helix4 BCM56547 / BCM56548 / BCM56548H Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false
```

```
# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# ------------------------------------------- #
# BCM56547 config.bcm                         #
# ------------------------------------------- #
# portgroup_12=1
# portgroup_11=1
# portgroup_10=1
# portgroup_9=1
# portgroup_8=1
# portgroup_7=1
# portgroup_6=1
# portgroup_5=1
# portgroup_4=1
# portgroup_3=1
# portgroup_2=1
# portgroup_1=1
# portgroup_0=1
#
# phy_sgmii_autoneg_ge=1
#
# phy_port_primary_and_offset_ge47=0x2907
# phy_port_primary_and_offset_ge46=0x2906
# phy_port_primary_and_offset_ge45=0x2905
# phy_port_primary_and_offset_ge44=0x2904
# phy_port_primary_and_offset_ge43=0x2903
# phy_port_primary_and_offset_ge42=0x2902
# phy_port_primary_and_offset_ge41=0x2901
# phy_port_primary_and_offset_ge40=0x2900
# phy_port_primary_and_offset_ge39=0x2107
# phy_port_primary_and_offset_ge38=0x2106
# phy_port_primary_and_offset_ge37=0x2105
# phy_port_primary_and_offset_ge36=0x2104
# phy_port_primary_and_offset_ge35=0x2103
# phy_port_primary_and_offset_ge34=0x2102
# phy_port_primary_and_offset_ge33=0x2101
# phy_port_primary_and_offset_ge32=0x2100
# phy_port_primary_and_offset_ge31=0x1907
# phy_port_primary_and_offset_ge30=0x1906
# phy_port_primary_and_offset_ge29=0x1905
# phy_port_primary_and_offset_ge28=0x1904
# phy_port_primary_and_offset_ge27=0x1903
# phy_port_primary_and_offset_ge26=0x1902
# phy_port_primary_and_offset_ge25=0x1901
# phy_port_primary_and_offset_ge24=0x1900
```

```
# phy_port_primary_and_offset_ge23=0x1107
# phy_port_primary_and_offset_ge22=0x1106
# phy_port_primary_and_offset_ge21=0x1105
# phy_port_primary_and_offset_ge20=0x1104
# phy_port_primary_and_offset_ge19=0x1103
# phy_port_primary_and_offset_ge18=0x1102
# phy_port_primary_and_offset_ge17=0x1101
# phy_port_primary_and_offset_ge16=0x1100
# phy_port_primary_and_offset_ge15=0x0907
# phy_port_primary_and_offset_ge14=0x0906
# phy_port_primary_and_offset_ge13=0x0905
# phy_port_primary_and_offset_ge12=0x0904
# phy_port_primary_and_offset_ge11=0x0903
# phy_port_primary_and_offset_ge10=0x0902
# phy_port_primary_and_offset_ge9=0x0901
# phy_port_primary_and_offset_ge8=0x0900
# phy_port_primary_and_offset_ge7=0x0107
# phy_port_primary_and_offset_ge6=0x0106
# phy_port_primary_and_offset_ge5=0x0105
# phy_port_primary_and_offset_ge4=0x0104
# phy_port_primary_and_offset_ge3=0x0103
# phy_port_primary_and_offset_ge2=0x0102
# phy_port_primary_and_offset_ge1=0x0101
# phy_port_primary_and_offset_ge0=0x0100
#
# pbmp_xport_xe.0=0x3c000000000000
# ------------------------------------------- #
# Enabling all ports - bcm56547 SKU
if $?BCM56547_A0 \
  'local pbmge     0x1fffffffffffe; \
   local pbmpmgmt  0x2000000000000; \
   local pbmxe     0x3c000000000000; \
   local pbmhg11   0x0; \
   local pbmhg42   0xc0000000000000; \
   local pbmport   0xfdffffffffffffe; \
   local pbmge25   0x0'

# ------------------------------------------- #
# BCM56548 config.bcm                         #
# ------------------------------------------- #
# portgroup_0=1
# portgroup_1=1
# portgroup_2=1
# portgroup_3=1
# portgroup_4=1
# portgroup_5=1
# portgroup_6=1
# portgroup_7=1
```

```
# portgroup_8=1
# portgroup_9=1
#
# phy_sgmii_autoneg_ge=1
#
# phy_port_primary_and_offset_ge0=0x0100
# phy_port_primary_and_offset_ge1=0x0101
# phy_port_primary_and_offset_ge2=0x0102
# phy_port_primary_and_offset_ge3=0x0103
# phy_port_primary_and_offset_ge4=0x0104
# phy_port_primary_and_offset_ge5=0x0105
# phy_port_primary_and_offset_ge6=0x0106
# phy_port_primary_and_offset_ge7=0x0107
# phy_port_primary_and_offset_ge8=0x0900
# phy_port_primary_and_offset_ge9=0x0901
# phy_port_primary_and_offset_ge10=0x0902
# phy_port_primary_and_offset_ge11=0x0903
# phy_port_primary_and_offset_ge12=0x0904
# phy_port_primary_and_offset_ge13=0x0905
# phy_port_primary_and_offset_ge14=0x0906
# phy_port_primary_and_offset_ge15=0x0907
# phy_port_primary_and_offset_ge16=0x1100
# phy_port_primary_and_offset_ge17=0x1101
# phy_port_primary_and_offset_ge18=0x1102
# phy_port_primary_and_offset_ge19=0x1103
# phy_port_primary_and_offset_ge20=0x1104
# phy_port_primary_and_offset_ge21=0x1105
# phy_port_primary_and_offset_ge22=0x1106
# phy_port_primary_and_offset_ge23=0x1107
# phy_port_primary_and_offset_ge24=0x1900
# phy_port_primary_and_offset_ge25=0x1901
# phy_port_primary_and_offset_ge26=0x1902
# phy_port_primary_and_offset_ge27=0x1903
# phy_port_primary_and_offset_ge28=0x1904
#
# pbmp_xport_xe=0x3fc0000000000
# ---------------------------------------------- #
# Enabling all ports - bcm56548 SKU
if $?BCM56548_A0 \
   'local pbmge     0x1ffffffe; \
    local pbmpmgmt  0x20000000000; \
    local pbmhg42   0x4000000000000; \
    local pbmport   0x3ffc001ffffffe; \
    local pbmge25   0x0; \
    local pbmxe     0x3fc0000000000'

# ---------------------------------------------- #
# BCM56548H config.bcm                           #
```

```
# ---------------------------------------------- #
# portgroup_0=1
# portgroup_1=1
# portgroup_2=1
# portgroup_3=1
# portgroup_4=1
# portgroup_5=1
# portgroup_6=1
# portgroup_7=1
#
# phy_sgmii_autoneg_ge=1
#
# phy_port_primary_and_offset_ge0=0x0100
# phy_port_primary_and_offset_ge1=0x0101
# phy_port_primary_and_offset_ge2=0x0102
# phy_port_primary_and_offset_ge3=0x0103
# phy_port_primary_and_offset_ge4=0x0104
# phy_port_primary_and_offset_ge5=0x0105
# phy_port_primary_and_offset_ge6=0x0106
# phy_port_primary_and_offset_ge7=0x0107
# phy_port_primary_and_offset_ge8=0x0900
# phy_port_primary_and_offset_ge9=0x0901
# phy_port_primary_and_offset_ge10=0x0902
# phy_port_primary_and_offset_ge11=0x0903
# phy_port_primary_and_offset_ge12=0x0904
# phy_port_primary_and_offset_ge13=0x0905
# phy_port_primary_and_offset_ge14=0x0906
# phy_port_primary_and_offset_ge15=0x0907
# phy_port_primary_and_offset_ge16=0x1100
# phy_port_primary_and_offset_ge17=0x1101
# phy_port_primary_and_offset_ge18=0x1102
# phy_port_primary_and_offset_ge19=0x1103
#
# pbmp_xport_xe=0x3c0000000000
# ---------------------------------------------- #
# Enabling all ports - bcm56548H SKU
if $?BCM56548H_A0 \
  'local pbmge     0x1ffffe; \
   local pbmpmgmt  0x20000000000; \
   local pbmhg42   0x0000000000000; \
   local pbmport   0x3ffc001ffffffe; \
   local pbmhg11   0x3fc00000000000; \
   local pbmge25   0x0; \
   local pbmxe     0x3c0000000000'
# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0
```

```
if $?BCM56547_A0 \
   'echo "testsuite: started: sanity 0xb547"'
if $?BCM56548_A0 \
   'echo "testsuite: started: sanity 0xb548"'
if $?BCM56548H_A0 \
   'echo "testsuite: started: sanity 0xb5A"'

rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc

local done 'echo "    Done"'

#Display some useful information
date
ver
soc

#Start Test
if !$?ihost_mode \
   'echo "Running PCI Compliance ...";\
    tr 2;\
    $done;'

if !$?ihost_mode \
   'echo "Running PCI S-Channel Buf ...";\
    tr 4;\
    $done;'

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
```

```
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

rcload rc.soc
counter off
l2mode off
linkscan off
hx4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
echo "Hash mem test ..."
tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
```

```
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

ps

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 2.5 Gb/s GE 2.5 ports"
tr 18 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing MAC Loopback - 11 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg11 Speed=11G
$done

echo "Testing MAC Loopback - 42 Gb/s all HG ports"
tr 18 PortBitMap=$pbmhg42 Speed=42G
$done

echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 2.5 Gb/s GE 2.5 ports"
tr 19 PortBitMap=$pbmge25 Speed=2500
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=$pbmxe Speed=10G
$done

echo "Testing PHY Loopback - 11 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg11 Speed=11G
$done

echo "Testing PHY Loopback - 42 Gb/s all HG ports"
tr 19 PortBitMap=$pbmhg42 Speed=42G
$done
```

```
# tr 48 does not work with mix of port types
echo "Running MAC loopback V2 on GE ports..."
tr 48 pbm=$pbmge sp=1000
$done

echo "Running MAC loopback V2 on XE ports ..."
tr 48 pbm=$pbmxe sp=10G
$done

echo "Running MAC loopback V2 on  HG ports(11 Gb/s) ..."
tr 48 PortBitMap=$pbmhg11 Sp=11G
$done

echo "Running MAC loopback V2 on HG ports(42 Gb/s) ..."
tr 48 pbm=$pbmhg42 sp=42G
$done

# tr 49 does not work with mix of port types
echo "Running PHY loopback V2 on GE ports ..."
tr 49 pbm=$pbmge sp=1000
$done

echo "Running PHY loopback V2 on XE ports ..."
tr 49 pbm=$pbmxe sp=10G
$done

echo "Running PHY loopback V2 on  HG ports(11 Gb/s) ..."
tr 49 PortBitMap=$pbmhg11 Sp=11G
$done

echo "Running PHY loopback V2 on HG ports(42 Gb/s) ..."
tr 49 pbm=$pbmhg42 sp=42G
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on XE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe
$done
```

```
echo "Running internal snake on XE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

#Traffic Test
echo "Running Traffic Test on GE 2.5 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge25 c=10 sp=2500
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on XE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on XE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G
$done

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg42 c=10 sp=42G
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg42 c=10 sp=42G
$done


# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
```

```
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56547sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_QTC_XGXS.
* This file provides all basic definitions required to program the BCMI_QTC_XGXS.
*
* This file is autogenerated. Please do not edit.
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_qtce_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pkt.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pkt.h
* Purpose:     Common Internal pkt utilities
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/pkt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport.h,v 1.71 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines gport (generic port) parameters. The gport is useful
* for specifying the following types of identifiers:
*   LOCAL      :  port on the local unit
*   MODPORT    :  {module ID, port} pair
*   TRUNK      :  trunk ID
*   PROXY      :  {module ID, port} pair employed in proxy operations
*   BLACK_HOLE :  identifier indicating drop destination
*   LOCAL_CPU  :  identifier indicating local CPU destination
*   MPLS_PORT  :  L2 MPLS virtual-port (VPLS/VPWS)
*   SUBPORT_GROUP : Subport group
*   SUBPORT_PORT  : Subport virtual-port
*   UCAST_QUEUE_GROUP : Group of unicast COSQs
*   MCAST_QUEUE_GROUP : Group of multicast COSQs
*   UCAST_SUBSCRIBER_QUEUE_GROUP : Group of 64K subscriber unicast COSQs
*   MCAST_SUBSCRIBER_QUEUE_GROUP : Group of 64K subscriber multicast COSQs
*   MCAST :  distribution set identifier
*   SCHEDULER  : COSQ scheduler
*   DEVPORT    : {device ID, port} pair (ports on devices without a module ID)
*   SPECIAL    :  application special value (invalid in BCM APIs)
*   MIRROR     :  Mirror (modport & encapsulation) for mirrored traffic.
*   MIM_PORT   :  MIM virtual-port
*   VLAN_PORT  :  VLAN virtual-port
*   WLAN_PORT  :  WLAN virtual-port
*   TRILL_PORT :  TRILL virtual-port
*   NIV_PORT   :  NIV virtual-port
*   EXTENDER_PORT :  Extender virtual-port
*   MAC_PORT   :  MAC virtual-port
*   TUNNEL     :  Tunnel ID
*   MULTIPATH  :  Multipath shaper
*
* This header requires that the uint32 type be defined before inclusion.
* Using <sal/types.h> is the simplest (and recommended) way of doing this.
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define gport parameters.
*
* The following macros are made available.  All have names starting
* with _SHR_, which have been elided from this list:
*
* Constants or Expressions suitable for assignment:
* GPORT_NONE                gport initializer
* GPORT_INVALID             invalid gport identifier
* GPORT_BLACK_HOLE          black-hole gport idenitifier
* GPORT_LOCAL_CPU           local CPU gport identifier
*
```

```
* Predicates: (return 0 or 1, suitable for using in if statements)
* GPORT_IS_SET                is the gport set?
* GPORT_IS_LOCAL              is the gport a local port type?
* GPORT_IS_MODPORT            is the gport a modid/port type?
* GPORT_IS_TRUNK              is the gport a trunk type?
* GPORT_IS_BLACK_HOLE         is the gport a black-hole type?
* GPORT_IS_LOCAL_CPU          is the gport a local CPU type?
* GPORT_IS_MPLS_PORT          is the gport a MPLS port type?
* GPORT_IS_SUBPORT_GROUP      is the gport a subport group type?
* GPORT_IS_SUBPORT_PORT       is the gport a subport port type?
* GPORT_IS_UCAST_QUEUE_GROUP   is the gport a unicast group type?
* GPORT_IS_UCAST_SUBSCRIBER_QUEUE_GROUP   is the gport a subscriber unicast group type?
* GPORT_IS_MCAST              is the gport a multicast set type?
* GPORT_IS_MCAST_QUEUE_GROUP   is the gport a multicast queue group type?
* GPORT_IS_MCAST_SUBSCRIBER_QUEUE_GROUP   is the gport a multicast subscriber queue group type?
* GPORT_IS_SCHEDULER          is the gport a scheduler type?
* GPORT_IS_DEVPORT            is the gport a devid/port type?
* GPORT_IS_SPECIAL            is the gport a special type?
* GPORT_IS_MIRROR             is the gport a mirror destination type?
* GPORT_IS_MIM_PORT           is the gport a MIM port type?
* GPORT_IS_VLAN_PORT          is the gport a VLAN port type?
* GPORT_IS_WLAN_PORT          is the gport a WLAN port type?
* GPORT_IS_TRILL_PORT         is the gport a TRILL port type?
* GPORT_IS_NIV_PORT           is the gport a NIV port type?
* GPORT_IS_EXTENDER_PORT      is the gport an Extender port type?
* EXTENDER_GPORT_IS_PORT      is the extender gport a port subtype?
* EXTENDER_GPORT_IS_FORWARD   is the extender gport a port forward?
* EXTENDER_GPORT_IS_ENCAP     is the extender gport a port encap?
* GPORT_IS_MAC_PORT           is the gport a MAC port type?
* GPORT_IS_TUNNEL             is the gport a tunnel type?
* GPORT_IS_CHILD              is the gport a child port type?
* GPORT_IS_EGRESS_GROUP       is the gport a egress group type?
* GPORT_IS_EGRESS_CHILD       is the gport a egress child type?
* GPORT_IS_EGRESS_MODPORT     is the gport a egress modport type?
* COSQ_GPORT_IS_MULTIPATH     is the gport a multipath type?
*
* Statements: (cannot be used as a predicate)
* GPORT_LOCAL_SET             set a gport local port type and value
* GPORT_LOCAL_GET             get a port value from a local gport
* GPORT_LOCAL_CPU_SET         set a gport local CPU port type and value
* GPORT_LOCAL_CPU_GET         get a CPU port value from a local gport
* GPORT_MODPORT_SET           set a gport modid/port type and values
* GPORT_MODPORT_MODID_GET     get a modid value from a modport gport
* GPORT_MODPORT_PORT_GET      get a port value from a modport gport
* GPORT_TRUNK_SET             set a gport trunk type and value
* GPORT_TRUNK_GET             get a trunk_id value from a trunk gport
* GPORT_MPLS_PORT_ID_SET      set a MPLS ID type and value
* GPORT_MPLS_PORT_ID_GET      get a MPLS ID from a MPLS gport
```

* GPORT_SUBPORT_GROUP_SET set a subport group type and value
* GPORT_SUBPORT_GROUP_GET get a subport group ID from a gport
* GPORT_SUBPORT_PORT_SET set a subport port type and value
* GPORT_SUBPORT_PORT_GET get a subport port ID from a gport
* GPORT_SCHEDULER_SET set a scheduler type and value
* GPORT_SCHEDULER_GET get a scheduler ID from a gport
* GPORT_DEVPORT_SET set a gport devid/port type and values
* GPORT_DEVPORT_DEVID_GET get a devid value from a devport gport
* GPORT_DEVPORT_PORT_GET get a port value from a devport gport
* GPORT_UCAST_QUEUE_GROUP_SET set a queue group type and value
* GPORT_UCAST_QUEUE_GROUP_GET get a queue group ID from a gport
* GPORT_MCAST_SET set a mcast dist set and value
* GPORT_MCAST_GET get an mcast dist set from a gport
* GPORT_MCAST_DS_ID_SET set an mcast DS ID and value
* GPORT_MCAST_DS_ID_GET get an mcast DS ID from a gport
* GPORT_MCAST_QUEUE_GROUP_SET set an mcast queue group type and value
* GPORT_MCAST_QUEUE_GROUP_GET get an mcast queue group ID from a gport
* GPORT_MCAST_QUEUE_GROUP_SYSQID_SET set an mcast queue group system queue ID
* GPORT_MCAST_QUEUE_GROUP_SYSPORTID_GET get an mcast queue group system port ID
* GPORT_MCAST_QUEUE_GROUP_QID_GET get an mcast queue group queue ID
* GPORT_UCAST_QUEUE_GROUP_SYSQID_SET get a unicast queue group system queue ID
* GPORT_UCAST_QUEUE_GROUP_SYSPORTID_GET get a unicast queue group system port ID
* GPORT_UCAST_QUEUE_GROUP_QID_GET get a unicast queue group queue ID
* GPORT_UCAST_SUBSCRIBER_QUEUE_GROUP_QID_SET set a ucast subscriber queue group queue id
* GPORT_UCAST_SUBSCRIBER_QUEUE_GROUP_QID_GET get a ucast subscriber queue group queue id
* GPORT_MCAST_SUBSCRIBER_QUEUE_GROUP_QID_SET set an mcast subscriber queue group queue id
* GPORT_MCAST_SUBSCRIBER_QUEUE_GROUP_QID_GET get an mcast subscriber queue group queue id
* GPORT_SPECIAL_SET set a gport special type and value
* GPORT_SPECIAL_GET get a value from a special gport
* GPORT_MIRROR_SET set a gport mirror type and value
* GPORT_MIRROR_GET get a value from a mirror gport
* GPORT_MIM_PORT_ID_SET set a MIM ID type and value
* GPORT_MIM_PORT_ID_GET get a MIM ID from a Mim gport
* GPORT_VLAN_PORT_ID_SET set a VLAN port ID type and value
* GPORT_VLAN_PORT_ID_GET get a VLAN port ID from a VLAN gport
* GPORT_WLAN_PORT_ID_SET set a WLAN ID type and value
* GPORT_WLAN_PORT_ID_GET get a WLAN ID from a WLAN gport
* GPORT_TRILL_PORT_ID_SET set a TRILL ID type and value
* GPORT_TRILL_PORT_ID_GET get a TRILL ID from a Trill gport
* GPORT_NIV_PORT_ID_SET set a NIV ID type and value
* GPORT_NIV_PORT_ID_GET get a NIV ID from a NIV gport
* EXTENDER_GPORT_PORT_SET set an Extender type, Port subtype and ID value
* EXTENDER_GPORT_FORWARD_SET set an Extender type, Forward subtype and ID value
* EXTENDER_GPORT_ENCAP_SET set an Extender type, Encap subtype and ID value
* GPORT_EXTENDER_PORT_ID_SET same as EXTENDER_GPORT_PORT_SET for backward compatability
* GPORT_EXTENDER_PORT_ID_GET get an Extender ID from an Extender gport
* GPORT_MAC_PORT_ID_SET set a MAC ID type and value
* GPORT_MAC_PORT_ID_GET get a MAC ID from an MAC gport

```
* GPORT_TUNNEL_ID_SET          set a gport tunnel type and value
* GPORT_TUNNEL_ID_GET          get a tunnel_id value from a tunnel gport
* GPORT_CHILD_SET              set a child gport
* GPORT_CHILD_MODID_GET        get a child gport modid
* GPORT_CHILD_PORT_GET         get a child gport port
* GPORT_EGRESS_GROUP_SET       set an egress group
* GPORT_EGRESS_GROUP_GET       get an egress group
* GPORT_EGRESS_GROUP_MODID_GET get an egress group modid
* GPORT_EGRESS_CHILD_SET       set an egress child gport
* GPORT_EGRESS_CHILD_MODID_GET get an egress child gport modid
* GPORT_EGRESS_CHILD_PORT_GET  get an egress child gport port
* GPORT_EGRESS_MODPORT_SET     set an egress modport
* GPORT_EGRESS_MODPORT_MODID_GET get an egress modport modid
* GPORT_EGRESS_MODPORT_PORT_GET  get an egress modport port
* GPORT_MULTIPATH_SET          set an multipath port id
* GPORT_MULTIPATH_GET          get an multipath port id
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/gport.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: sbx_txrx.c,v 1.27 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/sbx_txrx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sal.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  sal.c
* Purpose: Defines sal routines for Kernel-mode Linux targets.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/appl/linux/sal.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_pgm.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_pmf_low_level.h
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_pmf_low_level_pgm.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: viper_pmd_cfg_seq.c,v 1.2.2.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
/*
*  $Copyright: (c) 2014 Broadcom Corporation All Rights Reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/viper/tier1/viper_pmd_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv6Only.hx,v 1.2 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashIPv6Only.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysNvRam.c,v 1.3 2011/07/21 16:14:49 yshtil Exp $
************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
*************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/sysNvRam.c
No license file was found, but licenses were detected in source scan.

```
/*
DESCRIPTION
This module provides a generic boot ROM facility.  The target-specific
romInit.s module performs the minimal preliminary board initialization and
then jumps to the C routine romStart().  This routine, still executing out
of ROM, copies the first stage of the startup code to a RAM address and
jumps to it.  The next stage clears memory and then uncompresses the
remainder of ROM into the final VxWorks ROM image in RAM.

A modified version of the Public Domain \f3zlib\fP library is used to
uncompress the VxWorks boot ROM executable linked with it.  Compressing
object code typically achieves over 55% compression, permitting much
larger systems to be burned into ROM.  The only expense is the added few
seconds delay while the first two stages complete.

ROM AND RAM MEMORY LAYOUT
Example memory layout for a 1-megabyte board:
\cs
  --------------  0x00100000 = LOCAL_MEM_SIZE = sysMemTop()
  |            |
  |   RAM      |
  | 0 filled  |
```

```
  |          |
  |------------| = (romInit+ROM_COPY_SIZE) or binArrayStart
  | ROM image  |
  |----------- |  0x00090000  = RAM_HIGH_ADRS
  | STACK_SAVE |
  |------------|
  |          |  0x00080000  = 0.5 Megabytes
  |          |
  |          |
  | 0 filled   |
  |          |
  |          |  0x00001000  = RAM_ADRS & RAM_LOW_ADRS
  |          |
  |          |  exc vectors, bp anchor, exc msg, bootline
  |          |
  |          |
  --------------  0x00000000  = LOCAL_MEM_LOCAL_ADRS
\ce
\cs
  --------------
  |    ROM     |
  |          |  0xff8xxxxx  = binArrayStart
  |          |
  |          |  0xff800008  = ROM_TEXT_ADRS
  --------------  0xff800000  = ROM_BASE_ADRS
\ce

SEE ALSO:
inflate(), romInit(), and deflate

AUTHOR
The original compression software for zlib was written by Jean-loup Gailly
and Mark Adler. See the manual pages of inflate and deflate for
more information on their freely available compression software.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/nsx/vxworks6x/bcm1125/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/keystone/bcm53000/vxworks-6.6/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/metrocore/vxworks6x/bcm1125/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/iproc/vxworks6x/bcm56450/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/systems/vxworks/iproc/vxworks6x/bcm56150/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
```

master/systems/vxworks/gto/mpc8548/vxworks-6.5/all/bootInit.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/all/bootInit.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_device.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_device.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_property.c,v 1.8.64.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON PROPERTY
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_property.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.86 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	field.c
* Purpose:	BCM56624 Field Processor installation functions.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/scorpion/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84749.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84749.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_t.i
* Purpose:    Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_t.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsQueueTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsQueueTableEntry.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaRbClassIPv6ClassEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassIPv6ClassEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: brd_strata.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: brd_strata.c
* Purpose: SL Stacked Board programming
* BCM95645K24 (Strata II)
* BCM95665P48 (Tucana)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/brd_strata.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: g3p1.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: g2p3.h
* Purpose: g2p3 internal definitions to the BCM library.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/g3p1.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_jer_multicast_imp.h,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/JER/jer_multicast_imp.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_low.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_low.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8072.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8072.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8072.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  phy8806x_tsc_internal.c                                    *
*  Created On    :  13/02/2014                                                 *
*  Created By    :  Justin Gaither                                             *
*  Description   :  APIs for Serdes IPs                                        *
*  Revision      :  $Id: phy8806x_tsc_internal.c 1346 2016-02-06 00:09:35Z kirand $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                 *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_internal_c.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_cnt.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_cnt.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: qtce_diagnostics.c,v 1.1.2.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier2/qtce_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: memacc.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: memacc.h
* Purpose: Memory accessor declarations
* Supports: bcm56218_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/bcmdrv/chips/memacc.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8750.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8750.h
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8750.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.82 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.c
* Purpose:     Firebolt L2 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/l2.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chipsim_bde.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chipsim_bde.c
* Purpose:     Implements BDE interface on top of DPP Chipsim model code
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/chipsim_bde.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: miim.c,v 1.70 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* MII Management (MDIO) bus access routines for reading and writing PHY
* registers.
*
* BCM5690 has an internal MDIO bus in addition to the external one.
* The internal bus is accessed by setting bit 7 in the PHY ID.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/miim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id$
* Firmware Version : 0xD017
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/falcon_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: furia_micro_seq.c 2014/04/02 palanivk Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/furia_micro_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashIPv4OnlyConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/sbx/qe2k/sbZfKaRbClassHashIPv4OnlyConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ser.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/ser.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: pack.h
* Purpose: BCM API Type Packers
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/rpc/pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pstats.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for Pktstats
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/pstats.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: srds_api_uc_common.h 1364 2016-02-25 19:50:10Z jgaither $  *
```

```
*                                                                    *
*  Description   :  Defines and Enumerations required by Serdes ucode          *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/common/srds_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/public/srds_api_uc_common_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tsce_ucode.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier2/tsce_ucode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qtce/tier2/qtce_ucode.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sand.bcm,v 1.140 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

##########################################
##cfg for BCM88640 (PetraB), BCM88650 (Arad) and BCM88202 (Ardon)
##########################################
```

```
## temporary suppressing unknown soc properties warnings - till adding them unknown to property.h/propgen
## (need to be the first soc property in the file).
suppress_unknown_prop_warnings=1

## Multi device system (Negev): 2 devices, fabric mode is FE, mod id is slot id
## (Top line card is 0, button is 1).
#diag_chassis=1

## Disable diag init application. Should be used if one wants to run his own
## application instead of the diag init example
#diag_disable=1

## Skip cosq configuration in diag_init
#diag_cosq_disable=1

##########################################
##cfg for BCM88650 - Arad
##########################################

### Device configuration ###

## Activate Emulation partial init. Values: 0 - Normal, 1 - Emulation .Default: 0x0.
diag_emulator_partial_init.BCM88650=0

## General
# Set the FAP Device mode
# Options: PP / TM / TDM_OPTIMIZED / TDM_STANDARD
fap_device_mode.BCM88650=PP

## Credit worth size (Bytes)
credit_size.BCM88650=1024

## Clock configurations
# Core clock speed (MHz). Default: 600 MHz
core_clock_speed_khz.BCM88650=600000
# System reference clock (MHz). Default: 600 MHz
system_ref_core_clock_khz.BCM88650=600000

### Network Interface configuration ###
## Use of the ucode_port_<Local-Port-Id>=<Interface-type>[<Interface-Id>][.<Channel-Id>]
## Local port range: 0 - 255.
## Interface types: XAUI/RXAUI/SGMII/ILKN/10GBase-R/XLGE/CGE/CPU/IGNORE

# Map bcm local port to CPU[.channel] interfaces
ucode_port_180.BCM88650=CPU.0

pon_application_support_enabled_0.BCM88650=TRUE
pon_application_support_enabled_1.BCM88650=TRUE
```

```
pon_application_support_enabled_2.BCM88650=TRUE
pon_application_support_enabled_3.BCM88650=TRUE
pon_application_support_enabled_4.BCM88650=TRUE
pon_application_support_enabled_5.BCM88650=TRUE
pon_application_support_enabled_6.BCM88650=TRUE
pon_application_support_enabled_7.BCM88650=TRUE
vlan_match_criteria_mode=PON_PCP_ETHERTYPE

#Firmware mode:
# 0=DEFAULT
# 1=SFP_OPT_SR4     - optical short range
# 2=SFP_DAC         - direct attach copper
# 3=XLAUI           - 40G XLAUI mode
# 4=FORCE_OSDFE     - force over sample digital feedback equalization
# 5=FORCE_BRDFE     - force baud rate digital feedback equalization
# 6=SW_CL72         - software cl72 with AN on
# 7=CL72_WITHOUT_AN - cl72 without AN
#For Negev2 chassis enable DFE is recommended

serdes_if_type=1024

#serdes_firmware_mode.BCM88650=3
serdes_firmware_mode_il.BCM88650=4
serdes_firmware_mode_sfi.BCM88650=0

serdes_firmware_mode_xe0.BCM88650=0
serdes_firmware_mode_xe1.BCM88650=0
serdes_firmware_mode_xe2.BCM88650=0
serdes_firmware_mode_xe3.BCM88650=0
serdes_firmware_mode_xe4.BCM88650=0
serdes_firmware_mode_xe5.BCM88650=0
serdes_firmware_mode_xe6.BCM88650=0
serdes_firmware_mode_xe7.BCM88650=0

serdes_firmware_mode_xe128.BCM88650=2
serdes_firmware_mode_xe129.BCM88650=2
serdes_firmware_mode_xe130.BCM88650=2
serdes_firmware_mode_xe131.BCM88650=2
serdes_firmware_mode_xe132.BCM88650=2
serdes_firmware_mode_xe133.BCM88650=2
serdes_firmware_mode_xe134.BCM88650=2
serdes_firmware_mode_xe135.BCM88650=2


# Set ARAD "PON Ports" (connected to Pioneer) to 12.5G
port_init_speed_xe0.BCM88650=12500
port_init_speed_xe1.BCM88650=12500
port_init_speed_xe2.BCM88650=12500
```

```
port_init_speed_xe3.BCM88650=12500
port_init_speed_xe4.BCM88650=12500
port_init_speed_xe5.BCM88650=12500
port_init_speed_xe6.BCM88650=12500
port_init_speed_xe7.BCM88650=12500


# Map bcm local port to Network-Interface[.channel] interfaces - TBD
ucode_port_0.BCM88650=10GBase-R8
ucode_port_1.BCM88650=10GBase-R9
ucode_port_2.BCM88650=10GBase-R10
ucode_port_3.BCM88650=10GBase-R11
ucode_port_4.BCM88650=10GBase-R12
ucode_port_5.BCM88650=10GBase-R13
ucode_port_6.BCM88650=10GBase-R14
ucode_port_7.BCM88650=10GBase-R15

ucode_port_128.BCM88650=10GBase-R0
ucode_port_129.BCM88650=10GBase-R2
ucode_port_130.BCM88650=10GBase-R4
ucode_port_131.BCM88650=10GBase-R6
ucode_port_132.BCM88650=10GBase-R1
ucode_port_133.BCM88650=10GBase-R3
ucode_port_134.BCM88650=10GBase-R5
ucode_port_135.BCM88650=10GBase-R7

ucode_port_200.BCM88650=CPU.1
ucode_port_201.BCM88650=CPU.2
ucode_port_202.BCM88650=CPU.3
ucode_port_203.BCM88650=CPU.4

#40G
#ucode_port_1.BCM88650=XLGE0
#ucode_port_2.BCM88650=XLGE1
#ucode_port_3.BCM88650=XLGE2
#ucode_port_4.BCM88650=XLGE3
#ucode_port_5.BCM88650=XLGE4
#ucode_port_6.BCM88650=XLGE5
#ucode_port_7.BCM88650=XLGE6

#ILKN configuration - basic config
#ucode_port_31.BCM88650=ILKN0
#ucode_port_32.BCM88650=ILKN1
#ilkn_num_lanes_0.BCM88650=12
#ilkn_num_lanes_1.BCM88650=12
#port_init_speed_il.BCM88650=10312
```

```
#ILKN per port channel stat
#ilkn_counters_mode.BCM88650=PACKET_PER_CHANNEL

#ILKN configuration - advanced
#ilkn_metaframe_sync_period=2048
# Enable\Disable ILKN status message sent through an out-of-band interface.
# ilkn_interface_status_oob_ignore.BCM88650=1

##ILKN retransmit
#ilkn_retransmit_enable_rx.BCM88650=1
#ilkn_retransmit_enable_tx.BCM88650=1
#ilkn_retransmit_buffer_size.BCM88650=250
#ilkn_retransmit_num_requests_resent.BCM88650=15
#ilkn_retransmit_num_sn_repetitions_tx.BCM88650=1
#ilkn_retransmit_num_sn_repetitions_rx.BCM88650=1
#ilkn_retransmit_rx_timeout_words.BCM88650=3800
#ilkn_retransmit_rx_timeout_sn.BCM88650=250
#ilkn_retransmit_rx_ignore.BCM88650=80
#ilkn_retransmit_rx_reset_when_error_enable.BCM88650=1
#ilkn_retransmit_rx_watchdog.BCM88650=0
#ilkn_retransmit_rx_reset_when_alligned_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_retry_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_after_disc_error_enable.BCM88650=1
#ilkn_retransmit_rx_reset_when_wrap_before_disc_error_enable.BCM88650=0
#ilkn_retransmit_rx_reset_when_timout_error_enable.BCM88650=0
#ilkn_retransmit_tx_wait_for_seq_num_change_enable.BCM88650=1
#ilkn_retransmit_tx_ignore_requests_when_fifo_almost_empty.BCM88650=1

#ucode_port_40.BCM88650=RCY.0
#ucode_port_41.BCM88650=RCY.1
#ucode_port_42.BCM88650=RCY.2

## CAUI Configuration
#ucode_port_41.BCM88650=CGE0
#ucode_port_42.BCM88650=CGE1
caui_num_lanes_0.BCM88650=10
caui_num_lanes_1.BCM88650=10
#Required for working IXIA 100G port:
mld_lane_swap_lane20_ce.BCM88650=0
mld_lane_swap_lane21_ce.BCM88650=1
mld_lane_swap_lane0_ce.BCM88650=20
mld_lane_swap_lane1_ce.BCM88650=21

# This configures the lane polarity
pb_serdes_lane_swap_polarity_tx_phy1.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy2.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy3.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy4.BCM88650=0
```

pb_serdes_lane_swap_polarity_tx_phy5.BCM88650=1
pb_serdes_lane_swap_polarity_tx_phy6.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy7.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy8.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy10.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy11.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy13.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy14.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy17.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy18.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy19.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy20.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy21.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy22.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy23.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy24.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy25.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy27.BCM88650=0
pb_serdes_lane_swap_polarity_tx_phy28.BCM88650=0

pb_serdes_lane_swap_polarity_rx_phy1.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy2.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy3.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy4.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy5.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy6.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy7.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy8.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy9.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy10.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy11.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy12.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy13.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy14.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy15.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy16.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy17.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy18.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy19.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy20.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy21.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy22.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy23.BCM88650=0

```
pb_serdes_lane_swap_polarity_rx_phy24.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy25.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy26.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy27.BCM88650=0
pb_serdes_lane_swap_polarity_rx_phy28.BCM88650=0

xgxs_tx_lane_map_quad0.BCM88650=0x3210
xgxs_tx_lane_map_quad1.BCM88650=0x3210
xgxs_tx_lane_map_quad2.BCM88650=0x3210
xgxs_tx_lane_map_quad3.BCM88650=0x3210
xgxs_tx_lane_map_quad4.BCM88650=0x3210
xgxs_tx_lane_map_quad5.BCM88650=0x3210
xgxs_tx_lane_map_quad6.BCM88650=0x3210

xgxs_rx_lane_map_quad0.BCM88650=0x3210
xgxs_rx_lane_map_quad1.BCM88650=0x3210
xgxs_rx_lane_map_quad2.BCM88650=0x3210
xgxs_rx_lane_map_quad3.BCM88650=0x3210
xgxs_rx_lane_map_quad4.BCM88650=0x3210
xgxs_rx_lane_map_quad5.BCM88650=0x3210
xgxs_rx_lane_map_quad6.BCM88650=0x3210



#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88650=1

#Port init mode
#port_init_duplex=0
#port_init_adv=0
#port_init_autoneg=0


# This disables serdes initialization
# phy_null.BCM88650=1

##  Number of Internal ports
# Enable the ERP port. Values: 0 / 1.
num_erp_tm_ports.BCM88650=1
# Enable the OLP port. Values: 0 / 1.
num_olp_tm_ports.BCM88650=1
# Enable OAMP
num_oamp_ports.BCM88650=0

## Firmware Load Method
load_firmware.BCM88650=0x102
```

```
### Headers configuration ###

## Use of the tm_port_header_type_<Local-Port-Id>=<Header-type>
## Default header type is derived from fap_device_mode: If fap_device_mode is
## PP, default header type is ETH. Otherwise, defualt header type is TM.
## Header type per port can be overriden.
## All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/UDH_ETH
## Injected header types: if PTCH, INJECTED (local Port of type TM) or INJECTED_PP (PP)
##                        if PTCH-2, INJECTED_2 (local Port of type TM) or INJECTED_2_PP (PP)

# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88650=TM

tm_port_header_type_in_180.BCM88650=INJECTED_2
tm_port_header_type_out_180.BCM88650=CPU

tm_port_header_type_in_200.BCM88650=INJECTED_2_PP
tm_port_header_type_out_200.BCM88650=ETH
tm_port_header_type_in_201.BCM88650=INJECTED_2_PP
tm_port_header_type_out_201.BCM88650=ETH
tm_port_header_type_in_202.BCM88650=INJECTED_2_PP
tm_port_header_type_out_202.BCM88650=ETH
tm_port_header_type_in_203.BCM88650=INJECTED_2_PP
tm_port_header_type_out_203.BCM88650=ETH

### Parser Configuration ###
# Parser has 4 custom macros that are allocated dynamically and
# configured according to the following features and soc properties:
# Trill (1 macro) - trill_mode
# FCoE (2 macros) - bcm886xx_fcoe_switch_mode
# VxLAN (1 macro) - bcm886xx_vxlan_enable
# IPv6-Extension-header (2 macros) - bcm886xx_ipv6_ext_hdr_enable
# UDP (1 macro) - UDP parsing is enabled by default, and can be
#  disabled with soc property custom_feature_udp_parse_disable
#  When disabling UDP parsing VxLAN and 1588oUDP are affected

# Enable IPv6 Extension Header, 0 - disable (default), 1 - enable
#bcm886xx_ipv6_ext_hdr_enable=1

# Disable UDP parsing, 0 - enable (default), 1 - disable
#custom_feature_udp_parse_disable=1

#OAMP port
#tm_port_header_type_out_232.BCM88650=CPU

#MPLS-TP channel types for OAM/BFD - If MPLS-TP used, channel should be specified
#Available types: mplstp_bfd_control_channel_type
#                mplstp_pw_ach_channel_type
```

```
#           mplstp_dlm_channel_type
#           mplstp_ilm_channel_type
#           mplstp_dm_channel_type
#           mplstp_ipv4_channel_type
#           mplstp_cc_channel_type
#           mplstp_cv_channel_type
#           mplstp_on_demand_cv_channel_type
#           mplstp_pwe_oam_channel_type
#           mplstp_ipv6_channel_type
#           mplstp_fault_oam_channel_type
#           mplstp_g8113_channel_type
#mplstp_g8113_channel_type=0x8902

# Set the recycling port processing to be raw (static forwarding)
tm_port_header_type_rcy.BCM88650=RAW

### RCPU
# Valid CPU local ports on which RCPU packets can be received by slave device.
#rcpu_rx_pbmp=0xf000000000000000000000000000000000000000000000000001

#tm_port_header_type_514.BCM88650=RAW

## Header extensions
# Set if an FTMH Out-LIF extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS
fabric_ftmh_outlif_extension.BCM88650=IF_MC

# Set the FTMH Load-Balancing Key extension mode
# Options for 88660: ENABLED, FULL_HASH
# Options for 88650: ENABLED
# Options for 88640 compatible: DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY /
16B_STACKING_ROUTE_HISTORY / STANDBY_MC_LB (available only for AradPlus)
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88650=DISABLED

# Set if an OTMH Out-LIF (CUD) Extension is present to Unicast and Multicast packets
# Options: NEVER / IF_MC (only Multicast packets) / ALWAYS / DOUBLE_TAG (two hop scheduling)
# Default: NEVER
# tm_port_otmh_outlif_ext_mode_13.BCM88650=NEVER

# Set if an OTMH Source-System-Port Extension is present.
# Option: 0/1
# Default: 0
# tm_port_otmh_src_ext_enable_13.BCM88650=0

#Trunk hash format, relevant only for AradPlus. Possible values: NORMAL (default) / INVERTED /
DUPLICATED.
#trunk_hash_format=NORMAL
```

```
## Stacking Application
#stacking_enable.BCM88650=1

## System RED
# Set System-Red functionality.
#system_red_enable.BCM88650=1

# Indicate the size (Bytes) of a first header to skip
# before the major header at ingress (e.g. Ethernet, ITMH)
# It can be set per port also
first_header_size.BCM88650=0

# Indicate the size (Bytes) of the PMF Extension Headers
# to remove for TM header type ports (expecting ITMH)
# Set per port
#post_headers_size_0.BCM88650=4

# Indicate the size (Bytes) of the User-Headers: configurable
# headers located in the fabric between internal headers and
# Ethernet. Their values are set by Ingress FP, and can be used
# by Egress FP or Egress Editor.
# units: bits. 4 values can be set:
# 0 - size of the 1st User-Header, for the Egress PMF. 0b / 8b / 16b
# 1 - size of the 2nd User-Header, for the Egress PMF. 0b / 8b / 16b
# The sum of these 2 values should be under 16b
# 2, 3 - size of the 1st/2nd User-Header, for the Egress Editor.
# 0b / 8b / 16b / 24b / 32b
# Each of the global User-Header size must be under 32 bits, but not 24 bits.
# The Egress FP field is always at the MSB of the User-Header
# Not available for 88650-A0.
#field_class_id_size_0.BCM88650=8
#field_class_id_size_1.BCM88650=0
#field_class_id_size_2.BCM88650=24
#field_class_id_size_3.BCM88650=0


### Trunk - LAG configuration ###
# Set Set the number of LAGs: 1024, 512, 256, 128 or 64
number_of_trunks.BCM88650=256

### SYNCE configuration ###
## Synchronous Ethernet Signal Mode.
## Options: TWO_DIFF_CLK, TWO_CLK_AND_VALID. Default: TWO_CLK_AND_VALID
#sync_eth_mode.BCM88650=TWO_CLK_AND_VALID

## Clock Source (single SerDes) lane in the specified NIF port.
## Usage: sync_eth_clk_to_nif_id_clk_<clk_number>=<serdes_number>
```

```
#sync_eth_clk_to_nif_id_clk_0.BCM88650=1
#sync_eth_clk_to_nif_id_clk_1.BCM88650=1

## Clock Divider for the selected recovered clock. Valid values: 1/2/4. Default: 1.
## Usage: sync_eth_clk_divider_clk_<clk_number>=<1/2/4>
#sync_eth_clk_divider_clk_0.BCM88650=1
#sync_eth_clk_divider_clk_1.BCM88650=1

## Enable the automatic squelch function for the recovered clock. Valid values: 0/1. Default: 0.
## Usage: sync_eth_clk_squelch_enable_clk_<clk_number>=<0/1>
#sync_eth_clk_squelch_enable_clk_0.BCM88650=0
#sync_eth_clk_squelch_enable_clk_1.BCM88650=0

### ELK configuration ###
## External lookup (TCAM) Device type select, Indicate the External lookup Device type.
# Value Options: NONE/NL88650. Default: NONE.
#ext_tcam_dev_type=NL88650

## Set ELK FWD table Size.
# format: ext_xxx_fwd_table_size.
# where xxx replaced by FWD options: ip4_uc_rpf/ip4_mc/ip6_uc_rpf/ip6/ip6_mc/trill_uc/trill_mc/mpls/coup_mpls
# Value Options: (0) - External table disabled, >0: number of entries. Default: 0.
#ext_ip4_uc_rpf_fwd_table_size=8192
#ext_ip4_mc_fwd_table_size=8192

## Set ELK IP FWD use NetRoute  ALG.
# Value Options: ALG_LPM_LPM/ALG_LPM_NETROUTE/ALG_LPM_TCAM. Default: ALG_LPM_TCAM.
#ext_fwd_algorithm_lpm=ALG_LPM_TCAM

## Set ELK interface mode.
# Change ELK interface configuration to support CAUI port.
# Value Options: 0/1. 0 - Normal mode, 1  2 CAUI port + ELK mode. Default: 0.
#ext_interface_mode=0

### Configure MDIO interface
# External MDIO clock rate divisor . Default: 0x24.
#rate_ext_mdio_divisor=0x36
# External MDIO clock rate divisor. Default: 0x1.
#rate_ext_mdio_dividend=1

### TDM - OTN configuration ###
#fap_tdm_bypass.BCM88650=0

# Indicate if a Petra-B device is connected to the actual device
# For TDM/OTN applications,
# system_is_petra_b_in_system.BCM88650=0
##Indicate if TDM can arrive throgh primary pipe.
#Should be 1 for a System with PetraB that connected to fabric over primary pipe.
```

```
fabric_tdm_over_primary_pipe.BCM88650=0

### Fabric configuration ###
#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88650=2
#SFI speed rate
port_init_speed_sfi.BCM88650=10312
#CL72
port_init_cl72_sfi.BCM88650=1
fabric_segmentation_enable.BCM88650=1

## Fabric transmission mode
# Set the Connect mode to the Fabric
# Options: FE - presence of a Fabric device (single stage) / MULT_STAGE_FE -  Multi-stage /
# SINGLE_FAP - stand-alone device / MESH - mesh / BACK2BACK - 2 devices in Mesh
#fabric_connect_mode.BCM88650=SINGLE_FAP
fabric_connect_mode.BCM88650=FE

## Cell format configuration
# Indicate if the traffic can be sent in dual pipe
is_dual_mode.BCM88650=0
# Indicate the format of the cell:
# A VCS128 cell is used if system_is_vcs_128_in_system or system_is_fe600_in_system is TRUE
system_is_vcs_128_in_system.BCM88650=0
system_is_fe600_in_system.BCM88650=0

### WRED ###

# Set the maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88650=0

### OCB (On-Chip Buffer) configuration ###
# Enable the OCB
# Enable MODES:
#   0/FALSE       -->  OCB_DISABLED     --> No OCB use
#   1/TRUE        -->  OCB_ENABLED      --> Like in Arad-A0/B0. Some packets may use both DRAM and OCB
resources
#   ONE_WAY_BYPASS -->  Depends on number of present drams (available only for AradPlus):
#                 0 drams:   - OCB_ONLY
#                 1 drams:   - OCB_ONLY_1_DRAM     -->  : OCB-only with 1 DRAM for the free pointers
#                 2-8 drams: - OCB_DRAM_SEPARATE   -->  : OCB and DRAM coexist separately
#   Default: TRUE.
bcm886xx_ocb_enable.BCM88650=1

# OCB Data Buffer size. Possible values: 128/256/512/1024. Default: 256.
bcm886xx_ocb_databuffer_size.BCM88650=256
# Repartition between Unicast and Full Multicast buffers.
# 0: 80% Unicast and 20% Multicast, 1: Unicast-Only
```

```
bcm886xx_ocb_repartition.BCM88650=0

### PDM configuration ###
# Set the PDM Mode.
# 0: simple (default), 1: extended (mandatory for LLFC-VSQ, PFC-VSQ, or ST-VSQ)
bcm886xx_pdm_mode.BCM88650=0

### Multicast Number of DBuff mode ###
# Set IQM FMC buffers-replication sizes
# Options for 88650:
ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE/ARAD_INIT_FMC_64_REP_128K_DBUFF_MODE
# Default: ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE
multicast_nbr_full_dbuff.BCM88650=ARAD_INIT_FMC_4K_REP_64K_DBUFF_MODE

### Multicast configuration ###
# Multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_min.BCM88650=0
egress_multicast_direct_bitmap_max.BCM88650=4095

### VOQ - Flow configuration ###

# Set the VOQ mapping mode:
# DIRECT: More than 4K System Ports are supported. System-level WRED is not supported.
# INDIRECT: similar to Petra-B. Up to 4K System Ports.
voq_mapping_mode.BCM88650=INDIRECT

# Set the Base Queue to be added to the packet flow-id
# when the Flow-Id is set explicitely either by the ITMH
# or by the Destination resolution in the Packet processing
flow_mapping_queue_base.BCM88650=0

# Set the number of priorities supported at egress per Port
# Options: 1 / 2 / 8
port_priorities.BCM88650=8

# Set the shared multicast resource mode: Strict / Discrete
egress_shared_resources_mode.BCM88650=Strict

# Define outgoing port rate mode in data rate or packet rate.
# Options: DATA / PACKET
otm_port_packet_rate.BCM88650=DATA

# Set Port egress recycling scheduler configuration.
# 0: Strict Priority Scheduler, 1: Round Robin Scheduler
port_egress_recycling_scheduler_configuration.BCM88650=0

# Set statically the region mode per region id
# 0: queue connectors only (InterDigitated = FALSE, OddEven = TRUE)
```

```
# 1: queue connectors, SE (InterDigitated =TRUE, OddEven = TRUE)
# 2: queue connectors, SE (InterDigitated =TRUE, OddEven = FALSE)
dtm_flow_mapping_mode_region_65.BCM88650=0
dtm_flow_mapping_mode_region_66.BCM88650=0
dtm_flow_mapping_mode_region_67.BCM88650=0
dtm_flow_mapping_mode_region_68.BCM88650=0
dtm_flow_mapping_mode_region_69.BCM88650=0
dtm_flow_mapping_mode_region_70.BCM88650=0
dtm_flow_mapping_mode_region_71.BCM88650=0
dtm_flow_mapping_mode_region_72.BCM88650=0
dtm_flow_mapping_mode_region_73.BCM88650=0
dtm_flow_mapping_mode_region_74.BCM88650=0
dtm_flow_mapping_mode_region_75.BCM88650=0
dtm_flow_mapping_mode_region_76.BCM88650=0
dtm_flow_mapping_mode_region_77.BCM88650=0
dtm_flow_mapping_mode_region_78.BCM88650=0
dtm_flow_mapping_mode_region_79.BCM88650=0
dtm_flow_mapping_mode_region_80.BCM88650=0
dtm_flow_mapping_mode_region_81.BCM88650=1
dtm_flow_mapping_mode_region_82.BCM88650=1
dtm_flow_mapping_mode_region_83.BCM88650=1
dtm_flow_mapping_mode_region_84.BCM88650=1
dtm_flow_mapping_mode_region_85.BCM88650=1
dtm_flow_mapping_mode_region_86.BCM88650=1
dtm_flow_mapping_mode_region_87.BCM88650=1
dtm_flow_mapping_mode_region_88.BCM88650=1
dtm_flow_mapping_mode_region_89.BCM88650=1
dtm_flow_mapping_mode_region_90.BCM88650=1
dtm_flow_mapping_mode_region_91.BCM88650=1
dtm_flow_mapping_mode_region_92.BCM88650=1
dtm_flow_mapping_mode_region_93.BCM88650=1
dtm_flow_mapping_mode_region_94.BCM88650=1
dtm_flow_mapping_mode_region_95.BCM88650=1
dtm_flow_mapping_mode_region_96.BCM88650=1
dtm_flow_mapping_mode_region_97.BCM88650=1
dtm_flow_mapping_mode_region_98.BCM88650=1
dtm_flow_mapping_mode_region_99.BCM88650=2
dtm_flow_mapping_mode_region_100.BCM88650=2
dtm_flow_mapping_mode_region_101.BCM88650=2
dtm_flow_mapping_mode_region_102.BCM88650=2
dtm_flow_mapping_mode_region_103.BCM88650=2
dtm_flow_mapping_mode_region_104.BCM88650=2
dtm_flow_mapping_mode_region_105.BCM88650=2
dtm_flow_mapping_mode_region_106.BCM88650=2
dtm_flow_mapping_mode_region_107.BCM88650=2
dtm_flow_mapping_mode_region_108.BCM88650=2
dtm_flow_mapping_mode_region_109.BCM88650=2
dtm_flow_mapping_mode_region_110.BCM88650=2
```

```
dtm_flow_mapping_mode_region_111.BCM88650=2
dtm_flow_mapping_mode_region_112.BCM88650=2
dtm_flow_mapping_mode_region_113.BCM88650=2
dtm_flow_mapping_mode_region_114.BCM88650=2
dtm_flow_mapping_mode_region_115.BCM88650=2
dtm_flow_mapping_mode_region_116.BCM88650=2
dtm_flow_mapping_mode_region_117.BCM88650=2
dtm_flow_mapping_mode_region_118.BCM88650=2
dtm_flow_mapping_mode_region_119.BCM88650=2
dtm_flow_mapping_mode_region_120.BCM88650=2
dtm_flow_mapping_mode_region_121.BCM88650=2
dtm_flow_mapping_mode_region_122.BCM88650=2
dtm_flow_mapping_mode_region_123.BCM88650=2
dtm_flow_mapping_mode_region_124.BCM88650=2
dtm_flow_mapping_mode_region_125.BCM88650=2
dtm_flow_mapping_mode_region_126.BCM88650=2
dtm_flow_mapping_mode_region_127.BCM88650=2
dtm_flow_mapping_mode_region_128.BCM88650=2

### Flow Control configuration ###
# Set the Flow control type per Port.
# Options: LL (Link-level) / CB2 (Class-Based - 2 classes) /
# CB8 (Class-Based - 8 classes)
# flow_control_type.BCM88650=LL

## Out-Of-Band Flow control configuration
#spn_FC_OOB_TYPE, spn_FC_OOB_MODE, spn_FC_OOB_CALENDER_LENGTH,
spn_FC_OOB_CALENDER_REP_COUNT,

## Set voltage mode for oob interfaces
#HSTL_1.5V
#3.3V
#HSTL_1.5V_VDDO_DIV_2
ext_voltage_mode_oob=3.3V

## Inband Interlaken configuration
# spn_FC_INBAND_INTLKN_MODE, spn_FC_INBAND_INTLKN_CALENDER_LENGTH,
spn_FC_INBAND_INTLKN_CALENDER_REP_COUNT
# spn_FC_INBAND_INTLKN_CALENDER_LLFC_MODE,
spn_FC_INBAND_INTLKN_LLFC_MUB_ENABLE_MASK

### Meter engine configuration ###

# Specify meter operation mode
# 32 - Two meters per packet (32k total)
# 64 - One meter per packet (64k total)
# Options: 0, 32, 64
policer_ingress_count.BCM88650=32
```

```
# For meters in double 32k mode, determine the sharing mode
# Options:
# 0 - NONE (only for 64k mode)
# 1 - SERIAL (only for 32k mode)
# 2 - PARALLEL (only for 32k mode)
policer_ingress_sharing_mode.BCM88650=1

# Applies only to Arad+ (88660)
# For meters in parallel mode, determine the mapping
# Options: BEST, WORST
# policer_result_parallel_color_map.BCM88650=WORST

# Applies only to Arad+ (88660)
# For meters in parallel mode, determine how the buckets are changed
# Options: CONSTANT, TRANSPARENT, DEFERRED
# policer_result_parallel_bucket_update.BCM88650=CONSTANT

# Applies only to Arad+ (88660)
# Set the Ethernet policer to work in color blind mode
# rate_color_blind.BCM88650=1

# L2 learn limit mode
# Options: VLAN, VLAN_PORT, TUNNEL or the numeric equivalent 0-2.
# Default: VLAN
# l2_learn_limit_mode = VLAN_PORT

# Applies only to Arad+ (88660)
# Determines the L2 learn limit ranges when l2_learn_limit_mode is set to VLAN_PORT
# Two range bases can be selected, each of 16K size.
# Options: 0, 16K, 32K, 48K.
# Default: 0 & 16K
# l2_learn_lif_range_base_0 = 0
# l2_learn_lif_range_base_1 = 16K

### Counter engine configuration ###

# Set the Counter source
# Options: INGRESS_FIELD / INGRESS_VOQ / INGRESS_VSQ
# INGRESS_CNM / EGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM (per queue) /
EGRESS_TM_PORT (per port)
# EGRESS_RECEIVE_VSI / EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM (per queue) /
EGRESS_RECEIVE_TM_PORT (per port)
# INGRESS_OAM / EGRESS_OAM
# 2 Counter-Pointers can be set (with _0 and _1) for
# INGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT
# Range extension can be set (with _LSB and _MSB) for
# INGRESS_FIELD / EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT
```

```
/EGRESS_RECEIVE_VSI /
# EGRESS_RECEIVE_OUT_LIF / EGRESS_RECEIVE_TM / EGRESS_RECEIVE_TM_PORT
counter_engine_source_0.BCM88650=INGRESS_FIELD
counter_engine_source_1.BCM88650=INGRESS_FIELD_1
counter_engine_source_2.BCM88650=INGRESS_VOQ
counter_engine_source_3.BCM88650=EGRESS_FIELD

# Configure the statistic interface egress source
# Options: EGRESS_VSI / EGRESS_OUT_LIF / EGRESS_TM / EGRESS_TM_PORT (the default is TM)
# valid just when there is no conflict with the other counter engines
#counter_engine_source_stat0.BCM88650=EGRESS_TM
#counter_engine_source_stat1.BCM88650=EGRESS_TM



# Set the Counter engine resolution
# SIMPLE_COLOR = green, not green
# SIMPLE_COLOR_FWD = fwd green, fwd not green (BCM88660_A0 only)
# SIMPLE_COLOR_DROP = drop green, drop not green (BCM88660_A0 only)
# FWD_DROP = forwarded, dropped
# GREEN_NOT_GREEN = fwd grn, drop grn, fwd not grn, drop not grn
# FULL_COLOR = fwd grn, drop grn, fwd not grn, drop yel, drop red
# ALL = received
# FWD = forwarded, DROP = droped (not supported by ARAD_A0)
# CONFIGURABLE = defined by counter_engine_map_ SOC properties (BCM88660_A0 only)
counter_engine_statistics_0.BCM88650=FULL_COLOR
counter_engine_statistics_1.BCM88650=FULL_COLOR
counter_engine_statistics_2.BCM88650=FULL_COLOR
counter_engine_statistics_3.BCM88650=FULL_COLOR

# Set the Counter format
# Options: PACKETS_AND_BYTES / PACKETS / BYTES
# / MAX_QUEUE_SIZE / PACKETS_AND_PACKETS(supported just in FWD_DROP statistic in
BCM88660_A0)
# If not PACKETS_AND_BYTES or PACKETS_AND_PACKETS, the HW Counter width is 59 bits, thus
# no background SW operation is performed
counter_engine_format_0.BCM88650=PACKETS_AND_BYTES
counter_engine_format_1.BCM88650=PACKETS_AND_BYTES
counter_engine_format_2.BCM88650=PACKETS_AND_BYTES
counter_engine_format_3.BCM88650=PACKETS_AND_BYTES

# #enable/disable counter processor background thread (default:1-enable)
# counter_engine_sampling_interval=1

### Configurable mode configuration (BCM88660_A0 only)###
# counter_engine_statistics_0.BCM88660_A0=CONFIGURABLE
# counter_engine_map_enable_0.BCM88660_A0=1
# counter_engine_map_size_0.BCM88660_A0=4
# counter_engine_map_fwd_green_offset_0.BCM88660_A0=0
```

```
# counter_engine_map_fwd_yellow_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_red_offset_0.BCM88660_A0=1
# counter_engine_map_fwd_black_offset_0.BCM88660_A0=2
# counter_engine_map_drop_green_offset_0.BCM88660_A0=3
# counter_engine_map_drop_yellow_offset_0.BCM88660_A0=3
# counter_engine_map_drop_red_offset_0.BCM88660_A0=3
# counter_engine_map_drop_black_offset_0.BCM88660_A0=3

### Statistic-Report configuration ###
# Enable the Statistic-Interface configuration
# stat_if_enable_<port> - not supported by ARAD_A0
# stat_if_enable.BCM88650=1

# ## Statistic-Report Properties
# # Set the Statistic-Report mode
# # Options: BILLING / BILLING_QUEUE_NUMBER (not supported by ARAD_A0)/ QSIZE
# stat_if_report_mode.BCM88650=QSIZE
# #Indicate if idle reports must be sent
# #when the Statistic-report rate is too low
# stat_if_idle_reports_present.BCM88650=0
# # Indicate if the reported packet size is the original packet size
# stat_if_report_original_pkt_size.BCM88650=1
# #If set then a single ingress-billing report will be generated
# #for the whole set of the multicast copies
# stat_if_report_multicast_single_copy=1
# ## Statistic Packet configurations
# # Set the Statistic Packet size (Bytes)
# # Valid values: 65B/126B/248B/492B (Queue-Size), 64B/128B/256B/512B/1024B (Billing).
# stat_if_pkt_size=64B
#
# ## Scrubber configuration
# # Set the range of VOQs to scrub. Range: 0 - 96K-1.
# stat_if_scrubber_queue_min.BCM88650=0
# stat_if_scrubber_queue_max.BCM88650=0
#
# # Set the scrubber rate range
# # If set to 0 (default), the scrubber is disabled. Units: nanoseconds
# stat_if_scrubber_rate_min.BCM88650=0
# stat_if_scrubber_rate_max.BCM88650=0
#
# # Set the thresholds (thresh_id 0 - 15) defining
# # occupancy range per resource type:
# # DRAM Buffers, Buffer descriptors, Buffer descriptors buffers
# stat_if_scrubber_bdb_th.BCM88650=0
# stat_if_scrubber_buffer_descr_th.BCM88650=0
# stat_if_uc_dram_buffer_descr_th.BCM88650=0
#
# #Relective report for queue size mode - not supported by ARAD_A0
```

```
# #Reports will be created for queue num range (stat_if_selective_report_queue_min -
stat_if_selective_report_queue_max)
# #Default - all range
# stat_if_selective_report_queue_min.BCM88650_B0=0
# stat_if_selective_report_queue_max.BCM88650_B0=98303

### Transaction - DMA configuration ###
# Time to wait for SCHAN channel response (from CMIC). Units: microseconds.



### Counter threads ###
# spn_BCM_STAT_PBMP, spn_BCM_STAT_INTERVAL, spn_BCM_STAT_FLAGS

### Interrupts ###
## Set interrupts global parameters.
# Options: 1 - Polling interrupt mode, 0 - Line/MSI interrupt mode. Default: 1.
polled_irq_mode.BCM88650=0
#  Set the delay in microsecond between the polling, relevant only to Polling mode.  Default: 0x0.
polled_irq_delay.BCM88650=50000

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#        Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling, relevant only to Polling completion mode.
# SCHAN:
#schan_intr_enable.0=1
schan_timeout_usec.BCM88650=300000
# TDMA
tdma_intr_enable.BCM88650=1
tdma_timeout_usec.BCM88650=5000000
# TSLAM
tslam_intr_enable.BCM88650=1
tslam_timeout_usec.BCM88650=5000000
# MIIM
#miim_intr_enable.0=1
miim_timeout_usec.0=300000

### DRAM configuration ###

# DRAM buffer (Dbuff) size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88650=1024

# Number of external DRAMs.
# Allowed values for 88650: 0/2/3/4/6/8. A value of 0 disables the DRAM.
# Allowed values for 88660: 0/1/2/3/4/6/8. A value of 0 disables the DRAM.
#                                A value of 1 is permitted only in ONE WAY BYPASS ocb mode.
ext_ram_present.BCM88650=8
```

```
### Dram Tuning (Shmoo)
# 2 = Use Dram saved config Parameters, if no Parameters Perform Shmoo on init. Default option.
# 1 = Perform Shmoo on init.
# 0 = Use Dram saved config Parameters, if no Parameters do nothing.
ddr3_auto_tune.BCM88650=2

### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Defult: 1.
# bist_enable_dram.BCM88650=1

### Example for Dram Saved config Parameters.
## This example is for ci=14 (Dram=7).
#ddr3_tune_addrc_ci14=0x000000ae
#ddr3_tune_wr_dq_wl1_ci14=0x92929292,0x92929292,0x92929292,0x92929292
#ddr3_tune_wr_dq_wl0_ci14=0x93939393,0x93939393,0x92929292,0x92929292
#ddr3_tune_wr_dq_ci14=0x80808080
#ddr3_tune_vref_ci14=0x000007df
#ddr3_tune_rd_dqs_ci14=0x96969191,0x90909191
#ddr3_tune_rd_dq_wl1_rn_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rn_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_dq_wl1_rp_ci14=0x82828282,0x82828282,0x82828282,0x82828282
#ddr3_tune_rd_dq_wl0_rp_ci14=0x82828282,0x82828282,0x89898989,0x89898989
#ddr3_tune_rd_en_ci14=0x009d9e9d,0x00a2a3a1
#ddr3_tune_rd_data_dly_ci14=0x00000505


# Dram type: Select ONLY ONE of the following DRAM types, to configure all dram related parameteres per type.
# Dram Type for Arad:
dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_933=1
#dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_800=1
#dram_type_DDR3_MICRON_MT41J256M16_4GBIT_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_1066=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_933=1
#dram_type_DDR3_MICRON_MT41J128M16HA_125_800=1
#dram_type_DDR3_MICRON_MT42J64M16LA_15E_667=1
#dram_type_DDR3_SAMSUNG_K4B4G1646B_4GBIT_1066=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_933=1
#dram_type_DDR3_SAMSUNG_K4B1G1646G_800=1

### Setting dram_type_DDR3_HYNIX_H5TQ2G63BFR_TEC_1066 Parameters as Default:
## All other dram types parameter resides in arad.soc. choosing another Dram Type will override the following
parameters.
ext_ram_t_rrd=6000
ext_ram_columns=1024
ext_ram_banks=8
ext_ram_ap_bit_pos=10
```

```
ext_ram_burst_size=32
ext_ram_t_ref=3900000
ext_ram_t_wr=15000
ext_ram_t_wtr=7500
ext_ram_t_rtp=7500
ext_ram_freq=1066
ext_ram_rows=16384
ext_ram_jedec=29
ext_ram_t_rc=46090
ext_ram_t_rcd_rd=13090
ext_ram_t_rcd_wr=13090
ext_ram_t_rp=13090
ext_ram_t_rfc=160000
ext_ram_t_ras=33000
ext_ram_c_wr_latency=10
ext_ram_t_faw=35000
ext_ram_c_cas_latency=14
ddr3_mem_grade=0x141414

# DRAM pre-configurations according to config variables which defines
# Dram Type. supports only DDR3.
ext_ram_type.BCM88650=DDR3

# Total Dram Size (MBytes)
# For 8 drams interfaces, 2 channel each, Each channel 2Gbit Dram. the total DRAM size is 32GBits=4000MBytes.
ext_ram_total_size.BCM88650=4000

# Total buffer size allocated for User buffer. Units: Mbytes. Default: '0x0'.
# Supported suffix:
#       dram - the buffer size will be subtracted from the DRAM size available for packet memory.
#user_buffer_size=0
#user_buffer_size_dram=50

# DRAM ClamShell (interface swap its HW PIN pairs during init. Note: Only one of DRAMs can have its PIN
swapped)
# Valid values: 0/1
#dram0_clamshell_enable.BCM88650=1
#dram1_clamshell_enable.BCM88650=1

# DRAM maximum number of crc error per buffer, buffer deleted by interrupt application.
#dram_crc_del_buffer_max_reclaims=0

### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
#stable_location.BCM88650=3
#Set the warm boot data filename.
#stable_filename.BCM88650=./warmboot_data
```

```
#Set the warm boot data file size (At least 10MB for PETRA-B, 4MB for ARAD)
#stable_size.BCM88650=1000000000


##############################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
##############################

## If set, always configures synthesizers, even if the configured rate is equal to
## their nominal rate. Can be disabled to speedup bringup time (keep in mind that if
## disabled, changing a synt to a non-nominal freq and than back to nominal will not
## work
#synt_over.BCM88650=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88650=100000000
synt_ddr.BCM88650=125000000
synt_phy.BCM88650=156250000
synth_dram_freq.BCM88650=25

#Configure the reference clock frequencies for NIF and Fabric SerDes
# Options:  0 - 125MHZ, 1 - 156.25MHz
serdes_nif_clk_freq.BCM88650=1
serdes_fabric_clk_freq.BCM88650=1
# IEEE 1588 -
# configure clock (for 1588 debug, when Broadsync is disabled):
#  DPLL mode/lock: 0 - eci ts pll clk disabled, 1 - configure eci ts pll clk
#  DPLL phase/freq. Default initial: lo = 0x40000000, hi = 0x10000000.
#phy_1588_dpll_frequency_lock.BCM88650=1
#phy_1588_dpll_phase_initial_lo.BCM88650=0x40000000
#phy_1588_dpll_phase_initial_hi.BCM88650=0x10000000
# port external MAC
#  indication whether external MAC exists or not.
#  0: 1588 external MAC does not exist
#  1: 1588 external MAC exists
#  the external MAC substracts the RX time from the correction field
#  and adds the TX time to the correction field.
#ext_1588_mac_enable_14.BCM88650=1

## Trill configurations
# Trill mode: 0 (disabled) / 1 (coarse-grained) / 2 (fine-grained)
#trill_mode.BCM88650=1

# Trill multicast prunning mode:
# 0: no prunning - vsi is not part of the key
```

```
# 1: VSI prunning: Key is dist-tree,esadit-bit,VSI.
trill_mc_prune_mode.BCM88650=0

# Enable SA authentication
#sa_auth_enabled=1

# Bridge default logical interfaces allocation IDS
logical_port_l2_bridge.BCM88650=0
logical_port_drop.BCM88650=1

#logical_port_mim_in.BCM88650=2
#logical_port_mim_out.BCM88650=4096

# Enable EVB application
#evb_enable=1

# Enable Flexible QinQ application
#vlan_translation_match_ipv4=1

# Enable presel mgmt advance mode
#field_presel_mgmt_advanced_mode=1


# Prepend tag to be 4 bytes or 8 bytes. Default: 4B.
# Applicable only from ARAD+
#prepend_tag_bytes=4B

# The Prepend Tag is located at (12 + 2*offset) bytes from the start of the packet.
# Range: 0-7. Default: 0
#prepend_tag_offset=0

# Enable ARP (next hop mac extension) feature
bcm886xx_next_hop_mac_extension_enable.BCM88650=1

# Set VLAN translate mode.
# 0: normal
# 1: advanced mode. Enable vlan edit settings with enhanced user control
#bcm886xx_vlan_translate_mode=0

# Set MPLS termination database mode
# Set MPLS databases location for each MPLS namespace (L1,L2,L3)
#bcm886xx_mpls_termination_database_mode=0

# Enable , Disable MPLS indexed.
# MPLS termination with known label stack location.
# Must be enabled in case device supports more than 2 MPLS label terminations (L1,L2,L3)
#mpls_termination_label_index_enable=1
```

```
# Enable FastReRoute labels in device.
#fast_reroute_labels_enable=0

# Enable MPLS Context specific. Upstream label assignment in device.
#mpls_context_specific_label_enable=0

# MPLS context.
# Can be global, per port , per interface or per port,interface.
#mpls_context=global

# MPLS TP MC reserved mac address (01-00-5E-90-00-00).
# If set device will support My-MAC termination of reserved MC Ethernet
#mpls_tp_mymac_reserved_address=0

# MPLS ELI enable disable
mpls_entropy_label_indicator_enable=0

##########################################
##cfg for BCM88202 - Ardon
##########################################

#Core clock and system reference clock (KHz)
core_clock_speed_khz.BCM88202=450000
system_ref_core_clock_khz.BCM88202=300000

#diag_disable.BCM88202=1
diag_cosq_disable.BCM88202=1
stack_enable.BCM88202=0

fap_device_mode.BCM88202=TM

## Disable ports that are defined in noraml application configuration
ucode_port_17.BCM88202=IGNORE
ucode_port_16.BCM88202=IGNORE
ucode_port_15.BCM88202=IGNORE
ucode_port_14.BCM88202=IGNORE
ucode_port_13.BCM88202=IGNORE
ucode_port_202.BCM88202=IGNORE
ucode_port_203.BCM88202=IGNORE

## Set Ardon Main port
ucode_port_1.BCM88202=TM_INTERNAL_PKT.0
#ucode_port_6.BCM88202=TM_INTERNAL_PKT.1

## Set CPU ports header type
tm_port_header_type_in_0.BCM88202=TM
tm_port_header_type_out_0.BCM88202=TM
tm_port_header_type_in_200.BCM88202=TM
```

```
tm_port_header_type_out_200.BCM88202=TM
tm_port_header_type_in_201.BCM88202=TM
tm_port_header_type_out_201.BCM88202=TM

## To use MC-ID in the range of < 255
egress_multicast_direct_bitmap_max.BCM88202=255

## Enable Flow Control to CL SCH. Relevant only to Priority Over Port application
## Valid values: 1 - Enable, 0 - Disable. Default: 0x0.
custom_feature_cl_scheduler_fc.BCM88202=1

## Use lower CL. Ardon FC is mapped to CL 0-255.
dtm_flow_mapping_mode_region_65.BCM88202=1
dtm_flow_mapping_mode_region_66.BCM88202=1

### Statistic-Report Properties
## Set the Statistic-Report mode
stat_if_report_mode.BCM88202=QSIZE
## Enable statistics reports on EnQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_enqueue_enable.BCM88202=1
## Enable statistics reports on DeQueue. Valid valued: 0/1. Default: '1'.
stat_if_report_dequeue_enable.BCM88202=1

## Disable removed features
phy_1588_dpll_frequency_lock.BCM88202=0
low_power_nif_mac.BCM88202=0
low_power_fabric_mac.BCM88202=0

### EMUL changes
#diag_emulator_partial_init.BCM88202=1
#schan_timeout_usec.BCM88202=100000000000
#tdma_timeout_usec.BCM88202=100000000000
#tslam_timeout_usec.BCM88202=100000000000
#phy_null.BCM88202=0

## Disable fabric links
serdes_qrtt_active_0.BCM88202=0
serdes_qrtt_active_1.BCM88202=0
serdes_qrtt_active_2.BCM88202=0
serdes_qrtt_active_3.BCM88202=0

### Dram setup
# Number of external DRAMs.
# Allowed values for 88202: 0 / 1 (Dram C) / 2 (Dram's C, D) / 3 (Dram's A, C, D) / 4 (Dram's A, B, C, D) /
ext_ram_present.BCM88202=0

bcm886xx_ocb_databuffer_size.BCM88202=1024
```

```
# DRAM frequency
ext_ram_freq.BCM88202=1200

# Dram Type. Ardon supports only DDR4.
ext_ram_type.BCM88202=DDR4

# Dram Type:
dram_type_DDR4_MICRON_MT40A256M16HA_083EA_4GBIT=1
#dram_type_DDR4_HYNIX_H5AN4G6NMFR_VJC_4GBIT=1

### Dram Features

## Dram Gear down mode. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
#ext_ram_gear_down_mode.BCM88202=1

## Alert_n de-assertion period above which error is considered parity error
#ext_ram_alert_n_period_thrs.BCM88202=0

## Dram Address bus inversion. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_abi.BCM88202=0

## Data bus inversion on write/read direction. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
ext_ram_write_dbi.BCM88202=1
ext_ram_read_dbi.BCM88202=1

## Enable write/read CRC (DDR4 does not support read CRC). Default: 0x0.
#ext_ram_write_crc=.BCM882021
#ext_ram_read_crc=.BCM882021

## Command parity latency. Valid values: 0 - Enable, 1 - Disable. Default: 0x0.
#ext_ram_cmd_par_latency.BCM88202=4

## DRAM ClamShell (interface swap its HW PIN pairs during init. Note: Only one of DRAMs can have its PIN
swapped). Valid values: 0/1.
#dram0_clamshell_enable_1.BCM88202=1
#dram1_clamshell_enable_3.BCM88202=1

## Dram DQ Swap.
## Format: ext_ram_dq_swap_dramX_byteY_bitZ=M. Means, In dram X, Byte Y swap DQ Z and M. Default: No
swapping.
#ext_ram_dq_swap_dram1_byte2_bit3.BCM88202=4
#ext_ram_dq_swap_dram4_byte3_bit2.BCM88202=1

### Dram Tuning (Shmoo)
# 1 = Perform Shmoo on init.
# 0 = Use Dram saved config Parameters, if no Parameters do nothing.
ddr3_auto_tune.BCM88202=0
```

```
### Enable BIST
# Run Dram BIST on initialization, if BIST fail the initialization will fail. Default: 1.
bist_enable_dram.BCM88202=1

##########################################
##cfg for BCM88640_A0 - Petra
##########################################

force_clk_m_n_divisors_zero_nif0.BCM88640_A0=0
force_clk_m_n_divisors_zero_fabric0.BCM88640_A0=1
force_clk_m_n_divisors_zero_comb0.BCM88640_A0=0

combo_ref_clock.BCM88640=312500

nif_ref_clock.BCM88640_A0=312500

# Use variable cell size
system_cell_format.BCM88640_A0=VCS128

# Core clock speed (MHz)
core_clock_speed.BCM88640_A0=300

# Map bcm local port to CPU/NIF interfaces
ucode_port_0.BCM88640_A0=CPU.0
ucode_port_73.BCM88640_A0=CPU.1
ucode_port_74.BCM88640_A0=CPU.2
ucode_port_75.BCM88640_A0=CPU.3
ucode_port_76.BCM88640_A0=CPU.4
ucode_port_77.BCM88640_A0=CPU.5
ucode_port_78.BCM88640_A0=CPU.6

# Interlaken ports basic configuration (temporary).
# This configuration replaces the above XAUI/RXAUI ports config
# The following PB design constraint is not enforced in SW, so must be taken
# care of here, when mapping ports to interfaces:
#   If using ilkn0, port 1 (if used) must be mapped to ilkn0
#   If using ilkn1, port 2 (if used) must be mapped to ilkn1
#   Note that in our default mapping, port 2 is mapped to RXAUI 6, thus won't
#   work. If one wants to use front panel port 2 with ilkn1, he should be map
#   RAXUI6 to a port != 2.
#ilkn_num_lanes_0.BCM88640_A0=12
#ucode_port_1.BCM88640_A0=ILKN0.0
#ucode_port_2.BCM88640_A0=ILKN0.1
#ucode_port_3.BCM88640_A0=ILKN0.2
#ilkn_num_lanes_1.BCM88640_A0=12
#ucode_port_4.BCM88640_A0=RXAUI6
#ucode_port_5.BCM88640_A0=ILKN1.0
#ucode_port_6.BCM88640_A0=ILKN1.1
```

```
#ucode_port_7.BCM88640_A0=ILKN1.2

# Default header type is derived from fap_device_mode: If fap_device_mode is
# PP, default header type is ETH. Otherwise, defualt header type is TM.
# Header type per port can be overriden.
# All options: ETH/RAW/TM/PROG/CPU/STACKING/TDM/TDM_RAW/INJECTED

# Set CPU to work with TM header (ITMH)
#tm_port_header_type_0.BCM88640_A0=TM
tm_port_header_type_in_0.BCM88640_A0=TM
tm_port_header_type_out_0.BCM88640_A0=CPU
tm_port_header_type_73.BCM88640_A0=TM
tm_port_header_type_74.BCM88640_A0=TM
tm_port_header_type_75.BCM88640_A0=TM
tm_port_header_type_76.BCM88640_A0=TM
tm_port_header_type_77.BCM88640_A0=TM
tm_port_header_type_78.BCM88640_A0=TM
# recycling port
tm_port_header_type_40.BCM88640_A0=RAW
ucode_port_40.BCM88640_A0=RCY.0

# Enable ERP and OLP ports
num_erp_tm_ports.BCM88640_A0=1
num_olp_tm_ports.BCM88640_A0=1
num_recycle_tm_ports.BCM88640_A0=1

# Dram configuration
# 600 Mhz
ext_ram_pll_r.BCM88640_A0=4
ext_ram_pll_f.BCM88640_A0=47
ext_ram_pll_q.BCM88640_A0=1
ext_ram_freq.BCM88640_A0=600

# Dbuff size
# Allowed values: 256/512/1024/2048.
ext_ram_dbuff_size.BCM88640_A0=1024

# Number of external DRAMs.
# Allowed values for 88x4x: 0/2/3/4/6.
# Allowed values for 88650: 0/2/3/4/6/8.
# ext_ram_total_size below assumed this value is 6 for 88x4x and 8 for
ext_ram_present.BCM88640_A0=6

# Dram type: Select ONLY ONE of the following DRAM types, to configure all dram
# related parameteres per type.
# Dram Type for Pb:
dram_type_DDR3_MICRON_MT41J64M16_15E.BCM88640_A0=1
#dram_type_DDR2_MICRON_K4T51163QE_ZC_LF7.BCM88640_A0=1
```

```
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333.BCM88640_A0=1
#dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600.BCM88640_A0=1
#dram_type_GDDR3_SAMSUNG_K4J52324QE.BCM88640_A0=1
#dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G.BCM88640_A0=1

# QDR configuration
# Parity. Allowed values: PARITY/ECC.
ext_qdr_protection_type.BCM88640_A0=PARITY
ext_qdr_size_mbit.BCM88640_A0=72
#QDR type: QDR/QDR2P/QDR3/NONE.
ext_qdr_type.BCM88640_A0=QDR

# QDR can use the core clock, or using it's own pll. Current example is for 250MHz pll (if used).
# QDR using own pll configuration
#ext_qdr_use_core_clock_freq.BCM88640_A0=0
#ext_qdr_pll_m.BCM88640_A0=4
#ext_qdr_pll_n.BCM88640_A0=4
#ext_qdr_pll_p.BCM88640_A0=0

# QDR using core clock
ext_qdr_use_core_clock_freq.BCM88640_A0=1

#Configure MDIO. If parameter is not defined, MDIO is disabled.
mdio_clock_freq_khz.BCM88640_A0=1000

# Streaming interface configuration
streaming_if_enable_timeoutcnt.BCM88640_A0=1
streaming_if_timeout_prd.BCM88640_A0=70
streaming_if_quiet_mode.BCM88640_A0=0
streaming_if_discard_bad_parity.BCM88640_A0=0

# maximum packet size for WRED tests. 0 - means ignore max packet size.
discard_mtu_size.BCM88640_A0=0

# multicast egress vlan membership range. By default: 0-4095.
egress_multicast_direct_bitmap_min.BCM88640_A0=0
egress_multicast_direct_bitmap_max.BCM88640_A0=4095

# configure flow mapping base to 0
flow_mapping_queue_base.BCM88640_A0=0

dtm_flow_mapping_mode_region_25.BCM88640_A0=0
dtm_flow_mapping_mode_region_26.BCM88640_A0=0
dtm_flow_mapping_mode_region_27.BCM88640_A0=0
dtm_flow_mapping_mode_region_28.BCM88640_A0=0
dtm_flow_mapping_mode_region_29.BCM88640_A0=0
dtm_flow_mapping_mode_region_30.BCM88640_A0=0
dtm_flow_mapping_mode_region_31.BCM88640_A0=0
```

```
dtm_flow_mapping_mode_region_32.BCM88640_A0=0
dtm_flow_mapping_mode_region_33.BCM88640_A0=1
dtm_flow_mapping_mode_region_34.BCM88640_A0=1
dtm_flow_mapping_mode_region_35.BCM88640_A0=1
dtm_flow_mapping_mode_region_36.BCM88640_A0=1
dtm_flow_mapping_mode_region_37.BCM88640_A0=1
dtm_flow_mapping_mode_region_38.BCM88640_A0=1
dtm_flow_mapping_mode_region_39.BCM88640_A0=1
dtm_flow_mapping_mode_region_40.BCM88640_A0=1
dtm_flow_mapping_mode_region_41.BCM88640_A0=1
dtm_flow_mapping_mode_region_42.BCM88640_A0=2
dtm_flow_mapping_mode_region_43.BCM88640_A0=2
dtm_flow_mapping_mode_region_44.BCM88640_A0=2
dtm_flow_mapping_mode_region_45.BCM88640_A0=2
dtm_flow_mapping_mode_region_46.BCM88640_A0=2
dtm_flow_mapping_mode_region_47.BCM88640_A0=2
dtm_flow_mapping_mode_region_48.BCM88640_A0=2
dtm_flow_mapping_mode_region_49.BCM88640_A0=2
dtm_flow_mapping_mode_region_50.BCM88640_A0=2
dtm_flow_mapping_mode_region_51.BCM88640_A0=2
dtm_flow_mapping_mode_region_52.BCM88640_A0=2
dtm_flow_mapping_mode_region_53.BCM88640_A0=2
dtm_flow_mapping_mode_region_54.BCM88640_A0=2
dtm_flow_mapping_mode_region_55.BCM88640_A0=2

# Power up state (DOWN/UP/UP_AND_RELOCK). Can be configured per lane.
pb_serdes_lane_power_state.BCM88640_A0=UP_AND_RELOCK

# SeDes media type: Pre-configuration for tx params, according to
# media type.
# Allowed values: SHORT_BACKPLANE/LONG_BACKPLANE/CHIP2CHIP
pb_serdes_lane_tx_phys_media_type.BCM88640_A0=SHORT_BACKPLANE
pb_serdes_lane_tx_phys_media_type_28.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_29.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_30.BCM88640_A0=CHIP2CHIP
pb_serdes_lane_tx_phys_media_type_31.BCM88640_A0=CHIP2CHIP

system_is_fe1600_in_system.BCM88640_A0=0

# Counter engine configuration
counter_engine_source_1.BCM88640_A0=0
counter_engine_statistics_1.BCM88640_A0=4
counter_engine_source_2.BCM88640_A0=1
counter_engine_statistics_2.BCM88640_A0=4

# Statistic Reporting
stat_if_enable=0
```

```
# Clock Phases: 0/90/180/270
stat_if_phase=0

# Rate in nm
stat_if_sync_rate=0

# TRUE/FALSE
stat_if_parity_enable=FALSE

# BILLING/FAP20V
stat_if_report_mode=BILLING

# Billing Mode
# EGR_Q_NB/CUD/VSI_VLAN/BOTH_LIFS
stat_if_report_billing_mode=VSI_VLAN

# Fap20V Mode
# QUEUE/PACKET
stat_if_report_fap20v_mode=QUEUE

# QUEUE_NUM/MC_ID (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_fabric_mc=QUEUE_NUM
stat_if_report_fap20v_ing_mc=QUEUE_NUM

# TRUE/FALSE (only valid in Fap20V PACKET mode)
stat_if_report_fap20v_cnm_report=FALSE

# TRUE/FALSE
stat_if_report_fap20v_count_snoop=FALSE
stat_if_report_original_pkt_size=FALSE
stat_if_report_fap20v_single_copy_reported=FALSE

schan_timeout_usec.BCM88640_A0=300000


polled_irq_mode.BCM88640_A0=0
polled_irq_delay.BCM88640_A0=1000

# Set the FTMH Load-Balancing Key extension mode
# Options for 88650: ENABLED
# Options for 88640 compatible: DISABLED / 8B_LB_KEY_8B_STACKING_ROUTE_HISTORY /
16B_STACKING_ROUTE_HISTORY
# Default: DISABLED
system_ftmh_load_balancing_ext_mode.BCM88640=DISABLED

##########################################
##cfg for BCM88750 (FE1600)
##########################################
```

```
fabric_device_mode.BCM88750=SINGLE_STAGE_FE2

is_dual_mode.BCM88750=0
system_is_vcs_128_in_system.BCM88750=0

system_is_dual_mode_in_system.BCM88750=0
system_is_single_mode_in_system.BCM88750=1

system_is_fe600_in_system.BCM88750=0

system_ref_core_clock_khz.BCM88750=600000

fabric_merge_cells.BCM88750=0
fabric_multicast_mode.BCM88750=DIRECT
fabric_load_balancing_mode.BCM88750=NORMAL_LOAD_BALANCE
fabric_tdm_fragment.BCM88750=0x180
##Allows single pipe device to send TDM traffic over the fabric primary pipe - available for Fe1600_B0 only
#change  vcs128_unicast_priority to be lower than 2 - when enabling
fabric_tdm_over_primary_pipe.BCM88750=0
fabric_optimize_partial_links.BCM88750=0
vcs128_unicast_priority.BCM88750=2

polled_irq_mode.BCM88750=0
polled_irq_delay.BCM88750=1000

#Selects if to run MBIST (Memory Built In Self Test) of internal memory (tables) during startup.
#Supported values: 0=don't run, 1=run, 2=run with extra logs
#bist_enable.BCM88650=1
bist_enable.BCM88750=1
#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88750=0
load_firmware.BCM88750=2

#0-LFEC 1-8b\10b 2-FEC 3-BEC
backplane_serdes_encoding.BCM88750=2

#enable\disable CL72
port_init_cl72.BCM88750=1
#Avaliable speeds for BCM88750: 5750, 6250, 10312, 11500, 12500
port_init_speed.BCM88750=10312
#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88750=1
serdes_fabric_clk_freq_out.BCM88750=1
serdes_mixed_rate_enable.BCM88750_B0=0

# VSC128 or VSC256
```

```
fabric_cell_format.BCM88750=VSC256

# Core clock speed (MHz)
core_clock_speed_khz.BCM88750=533333

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#        Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88750=0
schan_timeout_usec.BCM88750=300000
# TDMA
tdma_intr_enable.BCM88750=0
tdma_timeout_usec.BCM88750=5000000
# TSLAM
tslam_intr_enable.BCM88750=0
tslam_timeout_usec.BCM88750=5000000
# MIIM
miim_intr_enable.BCM88750=0
miim_timeout_usec.BCM88750=300000


### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
stable_location.BCM88750=3
#Set the warm boot data filename.
stable_filename.BCM88750=./warmboot_data
#Set the warm boot data file size
stable_size.BCM88750=200000

##########################################
##cfg for BCM88950 (FE3200)
##########################################
#Device  operation
fabric_device_mode.BCM88950=SINGLE_STAGE_FE2
fabric_multicast_mode.BCM88950=DIRECT
fabric_load_balancing_mode.BCM88950=NORMAL_LOAD_BALANCE

#Cell format
system_is_vcs_128_in_system.BCM88950=0

#Fabric pipe configuration

fabric_num_pipes.BCM88950=1
fabric_pipe_map.BCM88950=0
system_contains_multiple_pipe_device.BCM88950=0
```

```
#Core clock and system reference clock (KHz)
system_ref_core_clock_khz.BCM88950=800000
core_clock_speed_khz.BCM88950=720000

#LC PLL in\out 0=125MHz 1=156.25MHz
serdes_fabric_clk_freq_in.BCM88950=1
serdes_fabric_clk_freq_out.BCM88950=1


#polled_irq_mode.BCM88950=0
#polled_irq_delay.BCM88950=1000

#Memory Bist
bist_enable.BCM88950=1

#High voltage driver strap. If 0, connected to 1.4V supply; if 1, connected to 1V mode.
#for specific quad use srd_tx_drv_hv_disable_quad_X where X is (FSRD num * 4 + internal quad)
srd_tx_drv_hv_disable.BCM88950=0
load_firmware.BCM88950=0x102


##Per port properties
: support string values
#Possible values - 2: KR_FEC, 4: 64_66, 5: RS_FEC, 6: LL_RS_FEC
backplane_serdes_encoding.BCM88950=2

#enable\disable CL72
port_init_cl72.BCM88950=1

#link speed
port_init_speed.BCM88950=21875

#Link connecd to a reapter
#Values: FE1600/FE3200/NONE
#repeater_link_enable_<port>.BCM88950=FE3200

##Fabric cell FIFO DMA
fabric_cell_fifo_dma_enable.BCM88950=0

## CMIC interrupts:
# Enable: Use interrupts completion instead of polling completion for the following operations.
#       Options: 1 - Enable, 0 - Disable. Default: 0.
# Timeout: delay in Microsecond between the polling,
# SCHAN:
schan_intr_enable.BCM88950=0
schan_timeout_usec.BCM88950=300000
# TDMA
```

```
tdma_intr_enable.BCM88950=0
tdma_timeout_usec.BCM88950=5000000
# TSLAM
tslam_intr_enable.BCM88950=0
tslam_timeout_usec.BCM88950=5000000
# MIIM
miim_intr_enable.BCM88950=0
miim_timeout_usec.BCM88950=300000

### Warmboot ###
## Scache initialization for warmboot persistent storage.
#Save the warm boot data in a file. Allowed values: 3.
stable_location.BCM88950=3
#Set the warm boot data filename.
stable_filename.BCM88950=./warmboot_data
#Set the warm boot data file size
stable_size.BCM88950=200000

##############################
# Config variable below are only accessed from dune.soc, and are used to
# configure BSP / example application / group of formal config variables.
##############################

# Support (and configure on init) packet processing features.
# If not defined - only traffic management capabilities are enabled.
packet_processing=1

## PCP (Petra Co-Processor) features
#pcp_elk.BCM88640_A0=1
#pcp_oam.BCM88640_A0=1
#pcp_dma.BCM88640_A0=1

## Set/Override TDM related config variables
#tdm.BCM88640_A0=1

# If set, always configures synthesizers, even if the configured rate is
# equal to
# their nominal rate. Can be disabled to speedup bringup time
# (keep in mind that if disabled, changing a synt to a non-nominal freq and
# than back to nominal will not work
#synt_over.BCM88640_A0=1

# Local variables for board synthesizers freq. Fabric, combo and nif also configure
# the *_ref_clock soc properties for these frequencies. core, ddr and phy only
# configures the synthesizer
synt_core.BCM88640_A0=100000000
synt_ddr.BCM88640_A0=125000000
synt_phy.BCM88640_A0=156250000
```

```
## Scache initialization for warmboot persistent storage.
## Valid values: 2: Store in dram. 3: Store in a file.
stable_location=3
stable_filename=./warmboot_data
stable_flags=0
stable_size=1000000000

# Bridge default logical interfaces allocation IDS
logical_port_l2_bridge.BCM88640=1
logical_port_drop.BCM88640=-1

#logical_port_mim_in.BCM88640=2
#logical_port_mim_out.BCM88640=3

## IPV6 tunnel
bcm886xx_ipv6_tunnel_enable=1

## Inlif Profile Management Mode - QoS L3 L2 marking mode
#
# BCM88660 ONLY
#
# QoS L3 L2 marking allows changing the DSCP and/or EXP values
# of IP and/or MPLS packets according to the incoming port
# (or inlif), and the Traffic Class/Drop Precedence.
#
# The inlif profile is used to control the DSCP/EXP marking.
# This SOC property controls which mode is used for the inlif profile:
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the DSCP/EXP marking).
# 0: Advanced mode (the user controls which inlif profile values perform DSCP/EXP marking directly).
#bcm886xx_qos_l3_l2_marking=1

## Unicast RPF mode per RIF
#
# This SOC property allows the user to set the unicast RPF mode - loose, strict or disabled - per RIF.
# If disabled, the unicast RPF mode of a RIF is set globally.
# Options: 0 / 1

# bcm886xx_l3_ingress_urpf_enable=1

## BOS handling mode
# BCM8866X ONLY
#
# There are two ways to handle BOS, controlled by bcm886xx_mpls_termination_mode:
# 0 - Use BOS as key in lookup.
# 1 - Don't use it (except for reserved labels).
#
#bcm886xx_mpls_termination_key_mode=0
```

```
# Color resolution mode allows the user to have more detailed metering color information.
# BCM88660 ONLY
#
# Options: 0/1
# 0: A red result from both Ethernet policer and policer implies DP=3.
# 1: A red result from the policer implies that DP=2, while a red result from rate (Ethernet policer) implies DP=3.
#policer_color_resolution_mode=1

## Inlif Profile Management Mode - Disable Same Interface Filter
# BCM8866X ONLY
#
# Controls which mode is used for the inlif profile management.
# 1: Basic mode (1 bit of the inlif profile is reserved and is used for the same-interface filter).
# 0: Advanced mode (the user controls which inlif profile values have the same-interface filter disabled for them).
#bcm886xx_logical_interface_bridge_filter_enable=1

## Default Block Forwarding Strength
#
# Configure the default forwarding strength of blocks.
#
# SOC Properties:
#block_trap_strength_vtt - VTT block forwarding strength
#block_trap_strength_flp - FLP block forwarding strength
#block_trap_strength_hash - SLB block forwarding strength (BCM8866X ONLY)
#block_trap_strength_pmf_0 - PMF 1st lookup forwarding strength
#block_trap_strength_pmf_1 - PMF 2nd lookup forwarding strength
#
# Options: 0-7

## Stateful Load Balancing
# BCM8866X ONLY
#
# Stateful Load Balancing (SLB) allows the load balancing of ECMP and LAG
# groups to become stateful.
# In standard load balancing, removing a member from the ECMP/LAG
# group may affect the selected member, since the formula
# depends on group size.
# In stateful load balancing the member is selected once and saved.
# Later, the member is always retrieved, and does not depend on
# the size of the LAG/ECMP group.
#
# resilient_hash_enable - Enable/disable SLB. Values:
# 1 - Enable SLB.
# 0 - Disable SLB.
#resilient_hash_enable=1

#Make Arad SOC properties work for Arad+, by mapping the BCM88660 suffix to BCM88650
```

soc_family.BCM88660=BCM88650
soc_family.BCM88675=BCM88650
#Make Arad SOC properties work for Ardon, by mapping the BCM88202 suffix to BCM88650
soc_family.BCM88202=BCM88650

Use different mymac addresses for ipv4 and ipv6 when using vrrp for mymac termination.
#l3_vrrp_ipv6_distinct=1

Enable multiple mymac termination mode. In order to enable it, also set l3_vrrp_ipv6_distinct=0 and l3_vrrp_max_vid=0 since vrrp and
multiple mymac mode can't co exist.
#l3_multiple_mymac_termination_enable=1

Distinguish between ipv4 and all other l3 protocols when multiple mymac terminating
#l3_multiple_mymac_termination_mode=1

Usually the final DP given by the meter (or the In-DP) is unchanged, and can be from 0-3.
When this SOC property is set to 1, when the final INGRESS DP is 2, it is mapped to 1 instead, and thus only the values 0-1 and 3 can be output.
This has no effect when policer_color_resolution_mode=1.
#custom_feature_always_map_result_dp_2_to_1=1

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sand-pioneer-12p5g.bcm
No license file was found, but licenses were detected in source scan.

/*
* $Id: cint_datatypes.c,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_datatypes.c
* Purpose: CINT datatype manipulation
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_datatypes.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: ramon_fe1600_link.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

* SOC RAMON_FE1600 STAT
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_link.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsQueueTableEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsQueueTableEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: diag_oam.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: diag_oam.c
* Purpose: Manages oam diagnostics functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/diag_oam.c
No license file was found, but licenses were detected in source scan.

/* $Id: sand_indirect_access.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/SAND_FM/sand_indirect_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/SAND/SAND_FM/sand_indirect_access.c
No license file was found, but licenses were detected in source scan.

/**
* $Id: ipmc.c,v 1.53 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Triumph3 IPMC implementation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph3/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_diagnostics.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_diagnostics.h
No license file was found, but licenses were detected in source scan.

```
/*-----------------------------------------------------------------------
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*-----------------------------------------------------------------------
* File       : dino_cfg_seq.h
* Description: c functions implementing Tier1
*-----------------------------------------------------------------------*/
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_diag_seq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_nvram_configuration.h,v 1.4 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_nvram_configuration.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: testlist.c,v 1.131 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       testlist.c
* Purpose:     Defines list of tests and their associated
*              functions.
*
* Notes:       Fields defined as follows:
*
*     Test # - Indicates the test number, all commands hat operate on tests
*              can use either the test name or #. The # is intended to be the
*              DV Test number, but is arbitrary. If the test number is
*              negative, then the test is not selected by default; otherwise
*              it is.
*     Flags - TSEL - Test is selected by default on supported chips.
*              T56xx- Test is supported on the specified chip.
*              TALL - Simple form to include all chips.
*              TRC - rc.soc is to be loaded before running test.
*     Test Name - The name of the test.
*     Init Func - A routine called before the test is run to perform any
*              setup required, may be NULL if no initialization required.
*     Cleanup Func - Function called after test has run to reset any state
*              etc, may be NULL if not required.
*     Test Function - actual test function, called "Loop Count" times.
*     Loop Count - Number of times to call "Test Function".
*     Default Args - Default argument string passed into test.
*
* Order of a normal test execution is:
*
*     [1] Load TEST_RC file (if required)
*     [2] Call "Init Func"
*     [3] Call "Test Func" Loop times
*     [4] Call "Cleanup Func"
*
* All external declarations for functions are found in testlist.h.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/testlist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_fc_rx.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Example script - Fllow Control reception
*
* How to run
*     - fc_rx_run(int unit, int is_llfc)
*       e.g. fc_rx_run(unit, 1)       - LLFC Configuration
*       e.g. fc_rx_run(unit, 0)       - CBFC Configuration
*
* Environment
*    - Flow Control configured for Port 1
*      NOTE
*        - SOC properties are one based and thus the above will be represented as Port 2/Port3
*    - SOC properties are read by this application to determine the type of system configuration
*      (e.g. inband - non calender based, inband - calender based, oob - calender based).
*      It is the responsibility of some other entity to configure SOC properties
*
*      Due to limitation of bcm_port_interface_get() API (bcm_petra_port_interface_get()) it
*      is not possible for application to determine if the selected interface is ILKN-0 or ILKN-1
*      Thus it is assumed the port is on ILKN-0. If required additional SOC properties can be read
*      to determine this. Currently this is not done.
*    - Based on SOC properties the setup is done by this script.In addition the following
*      arguments should be passed to this script
*         arg1 => is_llfc (0 => LLFC, 1 => CBFC)
*    - Testing with an External Tester taht has Dta Center Support features
*      - External Tester asserts LLFC or CBFC.
*      - Traffic is then sent to the port and verify that no data is
*        scheduled out of Soc_petra.
*      - External tester deasserts LLFC or CBFC
*      - Traffic is then sent to the port and verify that data is scheduled
*        out by Soc_petra
*      - Configuration of remote device (for calender based interfaces) will be done via
*        another script. The calender configuration has to be symmetrical.
*        NOTE:
*          - Configuration script for remote device is not covered here.
*
* Configuration
*    - Non-Calender Based (InBand)
*      - LLFC
*        Normal Operation
```

```
*     - CBFC
*       - Determine number of flow control clases ("n") supported on the interface
*       - First half of those classes ( 0 - ((n/2) - 1) ) assert flow control to
*         Egress Queue 0 (BCM_COSQ_HIGH_PRIORITY).
*       - Second half of those classes ( (n/2) - (n - 1) ) assert flow control to
*         Egress Queue 1 (BCM_COSQ_LOW_PRIORITY).
*       - This script does not map Packet-TC to Egress Queues. It relies on the default
*         setup. If the default setup is different from above it should be accounted for
*         when CBFC is asserted via the tester.
*     - Example of some of the relevant SOC properties is
*       - config add ucode_port_2=RXAUI6
*
*   - Calender Based Interface (InBand)
*     - LLFC
*       - Calender Entry 0. Configured via SOC properties and not via APIs
*     - CBFC
*       - Calender Entry 9 - 16 (for port 1)
*         (1 + (port * 8)) - (1 + (port * 8) + (8 - 1))
*       - Determine number of flow control clases ("n") supported on the interface
*       - First half of those classes ( 0 - ((n/2) - 1) ) assert flow control to
*         Egress Queue 0 (BCM_COSQ_HIGH_PRIORITY).
*       - Second half of those classes ( (n/2) - (n - 1) ) assert flow control to
*         Egress Queue 1 (BCM_COSQ_LOW_PRIORITY).
*       - This script does not map Packet-TC to Egress Queues. It relies on the default
*         setup. If the default setup is different from above it should be accounted for
*         when CBFC is asserted via the tester.
*     - Example of some of the relevant SOC properties is
*       - ilkn_num_lanes_0=12
*       - ucode_port_2=ILKN0.1
*       - fc_inband_intlkn_mode.port1=0x1
*       - fc_inband_intlkn_calender_length.port1=256
*       - fc_inband_intlkn_calender_rep_count.port1=1
*       - fc_inband_intlkn_calender_llfc_mode=1
*       - fc_inband_intlkn_llfc_mub_enable_mask=0
*
*   - Calender Based Interface (OOB)
*     - LLFC
*       - Supported
*     - CBFC
*       - Calender Entry 9 - 16 (for port 1)
*         (1 + (port * 8)) - (1 + (port * 8) + (8 - 1))
*       - Determine number of flow control clases ("n") supported on the interface
*       - First half of those classes ( 0 - ((n/2) - 1) ) assert flow control to
*         Egress Queue 0 (BCM_COSQ_HIGH_PRIORITY).
*       - Second half of those classes ( (n/2) - (n - 1) ) assert flow control to
*         Egress Queue 1 (BCM_COSQ_LOW_PRIORITY).
*       - This script does not map Packet-TC to Egress Queues. It relies on the default
*         setup. If the default setup is different from above it should be accounted for
```

```
*         when CBFC is asserted via the tester.
*     - Example of some of the relevant SOC properties is
*       - ilkn_num_lanes_0=12
*       - ucode_port_2=ILKN0.1
*       - fc_inband_intlkn_mode.port1=0x1
*       - fc_oob_type.port1=2
*       - fc_oob_mode.port1=0x1
*       - fc_oob_calender_length.port1=256
*       - fc_oob_calender_rep_count.port1=1
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fc_rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    port.c
* Purpose: Port Management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx_export.h
* Purpose: BCMX API routines export symbols
* Generator: mkdispatch 1.54
* Generated: Thu Feb 21 13:03:48 2013
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/systems/linux/kernel/modules/include/bcmx_export.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueArrivalsEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueArrivalsEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: reg_skip.c,v 1.137 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Diag routines to identify registers that are only implemented
* on a subset of ports/cos.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/reg_skip.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
  Copyright 2001, Broadcom Corporation
  All Rights Reserved.

  This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
  the contents of this file may not be disclosed to third parties, copied or
  duplicated in any form, in whole or in part, without the prior written
  permission of Broadcom Corporation.
```

```
*/
/*
* Copyright(c) 2001 Broadcom Corp.
* All Rights Reserved.
* $Id: sb2pci.h,v 1.1 2004/02/24 07:47:00 csm Exp $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sb2pci.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: linux_dma.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/include/linux_dma.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-uk-trans.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Provides a BCM transport driver using a User/Kernel proxy service
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/bcm-uk-trans.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* BCM56xx I2C Device Driver for Maxim 5478 Digital Potentiometer
* The Maxim 5478 digital potentiometer is used to adjust the voltage
* divider in SDK baseboards. See the Maxim 5478 datasheet for more info.
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/max5478.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: uk-proxy-kcom.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Provides a kcom interface using User/Kernel proxy services
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/uk-proxy-kcom.h
No license file was found, but licenses were detected in source scan.

```
/*
* Copyright (C) 2013, Broadcom Corporation. All Rights Reserved.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/iproc_i2c_regs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/iproc_i2c_regs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_spi.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_spi.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_variables.c,v 1.12 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_variables.c
* Purpose:     CINT variable functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_variables.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level.c,v 1.88 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_pmf_low_level.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_trap.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_trap.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
```

```
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_trap.h
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Trident2Plus Sanity Memory tests
#
# Script to run all available memory tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

set rct=false

echo "Running Switching Memory Tests ..."

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
#init soc;
#init misc;

rcload tr50_bcm56860_a0.soc
rcload tr51_bcm56860_a0.soc
rcload tr52_bcm56860_a0.soc
rcload tr71_bcm56860_a0.soc
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/td2p_memtest.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: qax_pp_kaps_xpt.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/QAX/QAX_PP/qax_pp_kaps_xpt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp_recover.c,v 1.50 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_kbp_recover.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250Timer.h,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250Timer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxc_utils_eeprom.h,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXC eeprom utils
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxc/legacy/dnxc_utils_eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gxumac.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* XGS Media Access Controller Driver for port with multiple MACs such as:
*     Port with BigMAC and UniMAC or
*     Port with XMAC and UniMAC
*
* The general idea is to have this "pseudo" driver act like a wrapper to
* 10G MAC (BigMAC or XMAC) driver and GE MAC (UniMAC) driver. Depends on the
* nature of individual driver funciton, some functions will call corresponding
* function in both MAC drivers, some just call the the function in the active
* MAC driver.
*
* Use _mac_combo_mode_get to determine which driver is currently active.
* Should not make decision upon the link speed from XGXS, it is only accurate
* when link is up, however some driver function may be called regardless of
* the link status.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/gxumac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkTmApi.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     TkTmApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkTmApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom System Log (bSL)
*
* Defines for INTERNAL usage only.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bsl.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: ped.h,v 1.7 Broadcom SDK $
*
* ped.h : PED defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/ped.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.86 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spi.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       spi.h
* Purpose:    Base definitions for SPI routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/spi.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: time.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  time.c
* Purpose: Time management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/vxworks/time.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_c.stg,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_tmu.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_tmu.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_benchmarking_methodology.c v 1.0 Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_benchmarking_methodology.c
* Purpose: Example Usage of egress programs used for benchmarking methedology (RFC-2544)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_benchmarking_methodology.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: epivers.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/epivers.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdes65lp.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:
*     physerdes65lp.c
* Purpose:
*     Fiber driver for serdes 65nm Low Power using internal Serdes PHY.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
*     phy_serdes65lp_notify_duplex
*     phy_serdes65lp_notify_speed
*     phy_serdes65lp_notify_stop
*     phy_serdes65lp_notify_resume
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes65lp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/humv/cosq.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_vlan_edit.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_vlan_edit.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: reload-dune.soc,v 1.1 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

setenv warmboot 1
rcload rc.soc
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/reload-dune.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.h,v 1.4 Broadcom SDK $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FABRIC STATUS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fabric_status.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trill.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/trill.c
No license file was found, but licenses were detected in source scan.

```
/*
*  Trunk script 2009-sept-29
*
* $Id: trunk_cint.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/trunk_cint.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_tmu_test1.c,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_tmu_test1.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: nlmerrorcodes.h,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmerrorcodes.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_mgmt.c,v 1.46 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_links.c,v 1.21.20.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 FABRIC LINKS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_fabric_links.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: falcon_tsc_dependencies.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                        *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
```

```
*                                                                    *
*  All information contained in this document is Broadcom Corporation              *
*  company private proprietary, and trade secret.                          *
*                                                                    *
**********************************************************************************
**********************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_dependencies.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wred.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/northstarplus/wred.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/wred.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmEmt_0EntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmEmt_0EntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_mmu.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_mmu.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/diag_mmu.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_egr_queuing.c,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_egr_queuing.c
No license file was found, but licenses were detected in source scan.

```
/*
* From FreeBSD 2.2.7: Fundamental constants relating to ethernet.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: ethernet.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/proto/ethernet.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_code_hamming.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_sand_code_hamming.h
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_code_hamming.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsShapeTableEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsShapeTableEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  knet.c
* Purpose:  Kernel network control
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/knet.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_mirror_tests.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mirror_tests.c
* Purpose: Examples of Mirror tests and usage
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mirror_tests.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_parse.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_parse.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_ifp.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_ifp.c
* Purpose: This file implements techsupport utility for
*          ifp.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/ifp/techsupport_ifp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: psc.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE2000 OAM Protection State Coordination function
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/oam/psc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem_measure_tool.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines memory measurement tool constants and functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/mem_measure_tool.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_trap.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_trap.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_trap.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_a.i
* Purpose:    Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_a.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdesrobo.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:       serdes.c
* Purpose:
* Fiber driver for 5348 using internal QuadSerdes PHY.
*
* When operating with an external PHY, this driver is not used.
* However the speed/duplex of the internal PHY must be programmed to
* match the MAC and external PHY settings so the data can pass through.
* This file supplies some routines to allow mac.c to accomplish this
* (think of the internal PHY as part of the MAC in this case):
*
* phy_5690_notify_duplex
* phy_5690_notify_speed
* phy_5690_notify_stop
* phy_5690_notify_resume
*
* CMIC MIIM operations can be performed to the internal register set
* using internal MDIO address (PORT_TO_PHY_ADDR_INT), and an external
* PHY register set (such as BCM5424/34/64) can be programmed using the
* external MDIO address (PORT_TO_PHY_ADDR).
*
* MDIO accesses to the internal PHY are not modeled on Quickturn.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdesrobo.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfcmap_ctrl.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap_ctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.26 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW failover API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/failover.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin16_internal_error.c                          *
*  Created On    :  12/07/2015                                         *
*  Created By    :  Brent Roberts                                      *
*  Description   :  API functions for internal errors in for Serdes IPs          *
*  Revision      :  *
*                                                                      *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                          *
*      Broadcom Corporation                                            *
*      5300 California Avenue                                          *
*      Irvine, CA  92617                                               *
*                                                                      *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                      *
*                                                                      *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_internal_error.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: headers.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains the various header formats for Dune SOC_SAND
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/headers.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmdlist.c,v 1.19 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag command list
*
* Since this version of the socdiag is run on top of the bcm-core
* module, we need to exclude certain features. We cannot do this
* through the makefile because we share the diag library with
* the bcm-diag-full module, which needs all features enabled.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-diag/cmdlist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsPriAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsPriAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaSrManualDeskewEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaSrManualDeskewEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEiRawSpiReadEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEiRawSpiReadEntryConsole.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.152 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mim.c
* Purpose: Manages MiM functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph2/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       src/bcmx/vlan.c
* Purpose:     BCMX Virtual LAN (VLAN) APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phynull.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phynull.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phynull.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipfix.c,v 1.66 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipfix.c
```

```
* Purpose:    IPFIX API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/ipfix.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vulcan_service.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/vulcan/vulcan_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IP Multicast API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_desc.i
* Purpose:     Memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_desc.i

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ppe_tables_c.stg,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_ppe_tables.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: ocm_h.stg,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_defs.h: Guadalupe2k V1.3 microcode access routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    bcmx/stat.c
* Purpose: BCMX Port Statistics APIs
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/stat.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_interpreter.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_interpreter.h
* Purpose:     CINT interpreter interface
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_interpreter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    niv.c
* Purpose: Implements bcm_niv_forward_* APIs for Greyhound.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/niv.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_frwrd_trill.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_frwrd_trill.h
*
* MODULE PREFIX:  soc_ppd_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
```

* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_frwrd_trill.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsDepthHplenEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsDepthHplenEntry.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_init.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_init.c
No license file was found, but licenses were detected in source scan.

/* $Id: cint_advanced_vlan_translation_mode.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_advanced_vlan_translation_mode.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_trill_advanced_vlan_translation_mode.c
No license file was found, but licenses were detected in source scan.

/* $Id: ppc_api_eg_filter.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

```
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_eg_filter.h
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_eg_filter.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_main.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip main functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_main.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  merlin16_access.c                                    *
*  Created On    :  03 Nov 2015                                          *
*  Created By    :  Brent Roberts                                        *
*  Description   :  APIs for Serdes IPs                                  *
*  Revision      :   *
*                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                            *
```

```
*      Broadcom Corporation                                    *
*      5300 California Avenue                                  *
*      Irvine, CA  92617                                     *
*                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                        *
*                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_idb_flexport.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_idb_flexport.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_t.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_t.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy5464.h,v 1.14 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5464.h
*
* This driver applies to both BCM5464 and BCM5464S.
* Both parts support driving Copper or SERDES interfaces.
*
* The BCM5464S also has a SERDES pass-through mode, making it possible
* to auto-select copper or fiber based on signal detects.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy5464.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpMplsLabelsConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpMplsLabelsConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Implements procedures needed by the feature of
*          L3 interface-on-virtual port multicast encapsulation ID.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

*/

This directory contains tools for programming the 5605 LED processor.
Contained herein are:

ledasm.h --
A common include file used by ledasm.c and leddasm.c

ledasm.c --
A simple assembler that converts a .asm into .lst and .hex files.

leddasmcore.c --
A module to disassemble one instruction

leddasm.c --
A driver for ledasmcore.c, showing how to use leddasmcore.
Disassembles a .hex file on stdout.

In order to build these tools, edit the Makefile and set CC, RM, CFLAGS,
etc. to the correct C compiler for your system. No special libraries or
includes are required.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/README
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgNotTmePortRemapAddrConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgNotTmePortRemapAddrConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: soc_sw_db.c,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/soc_sw_db.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_packet_queuing.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpFourBitEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpFourBitEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_multicast_imp.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_multicast_imp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: meter.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  meter.c
* Purpose:  Trident placeholder for metering, FP metering.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/meter.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53600_a0.c
* Purpose: bcm53600_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53600_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* vxWorks END device driver for
* Broadcom BCM47XX 10/100 Mbps Ethernet Controller
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: et_vx.c,v 1.10 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/et_vx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_drv.h,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 DRV H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_drv.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_action_cmd.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_action_cmd.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcaction
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_action_cmd.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_fcf.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_frwrd_FCF.h
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_frwrd_fcf.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: safc.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       safc.c
* Purpose:     SAFC board programming implementation
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/safc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_appl_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement CallBacks function for JER interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/QAX/qax_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250IntLib.h,v 1.2 2011/07/21 16:14:37 yshtil Exp $
***********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/bcm1250IntLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs16g1l.c,v 1.50 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       xgxs16g.c
* Purpose:    Broadcom 1000 Mbps SerDes
*             (XGXS-16G1L)
*
*  supported speed modes in independent channel mode for these three devices.
*
*              XGXS_16G        XGXS_13G                Quad SGMII
*   CL37        lane0 only      lane0 only              lane0 only
*   CL37 BAM    no              no                      no
*   CL73        lane0 only      all four lanes          all four lanes
*   CL73 BAM    no              no                      no
*   Forced 2.5G  yes            yes                     yes
*   Forced 1G    yes            yes                     yes
*   100FX       no              yes                     yes
*   SGMII       yes             yes                     yes
*
* Each channel has to run the same rate.
* Invalid combination:
*    lane0 1G and lane1 2.5G, lane2 SGMII and lane1 2.5G
* Valid combination:
*    lane0 1G and lane1 SGMII, lane0 autoneg 1G and lane2 forced 1G.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs16g1l.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fcmapphy.h
*
* Header file for FCMAP PHYs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/fcmapphy.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_field_ecn_cni_extract.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_ecn_cni_extract.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_eg_filter.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_eg_filter.c
*
* MODULE PREFIX:  soc_ppc_eg
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_eg_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_fabric_status.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 FABRIC STATUS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_fabric_status.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $File:  tomahawk2_ep_flexport.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_ep_flexport.c
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom SiliconBackplane chipcommon serial flash interface
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sflash.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sflash.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision      :  $Id: merlin_koi_common.h 1062 2015-06-02 22:12:41Z kirand $ *
*                                                                           *
*  Description   :  Defines and Enumerations required by Serdes APIs        *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/phy/chip/koi/merlin_koi_src/merlin_koi_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.h,v 1.24 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsE2QEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsE2QEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmallocator.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmallocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: debug.c,v 1.19.54.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: debug.c
* Purpose: Caladan3 ucode debug manager
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/asm3/debug.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_drv.c,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_drv.c
No license file was found, but licenses were detected in source scan.

```
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Filename Make.local.thunderbolt
FEATURE_LIST=CINT L3 I2C BCMX BCMX_DIAG MEM_SCAN EDITLINE BCM_SAL_PROFILE
CUSTOMER TEST CHASSIS MSTP RCPU
BCM_PTL_SPT=1
BCM_53280_A0=1
BCM_53280_B0=1
BCM_TK371X_A0=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/local/esw/Make.custom.thunderbolt
No license file was found, but licenses were detected in source scan.

```
/* $Id: utilex_sorted_list.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/utilex/utilex_sorted_list.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: verinet.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:  verinet.h
* Purpose:  SAL PLI simulation definitions (Unix PLI sim only)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/pli/verinet.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgPortRemapEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEgPortRemapEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_mirror.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_mirror.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dffs_low.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/dffs_low.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_internal.c                                    *
*  Created On    :  13/02/2014                                             *
*  Created By    :  Justin Gaither                                         *
*  Description   :  APIs for Serdes IPs                                    *
*  Revision      :  *
*                                                                          *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                          *
*      5300 California Avenue                                        *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                    *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsAgeEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_diag.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: KaminoDriver.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/KaminoDriver.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC switch Utilities
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsE2QAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsE2QAddr.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_field_access.c                                  *
*  Created On    :  29/04/2013                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs to access Serdes IP Registers and Reg fields            *
*  Revision      :  $Id: falcon_furia_field_access.c 661 2014-08-14 23:20:49Z kirand $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
```

```
*  company private proprietary, and trade secret.                          *
*                                                                          *
****************************************************************************
****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_field_access.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_furia_sesto_field_access.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mpls_lsr_context.c,v 1.00 2016/08/8 13:05:18 Jingli Guo $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_mpls_lsr_context.c
* Purpose: Example of the MPLS LSR using VRF/IN-RIF as lookup context.
*
* Explanation:
*  *   For incoming packet, the Ethernet header is terminated.
*  *   Labels are swapped and forwarded to egress port with new lable and Ethernet encapsulations.
*  *   Different from legacy LSR lookup, There are 2 types of look up:
   *      -  MPLS Label + VRF
   *      -  MPLS Label + IN-RIF
* Calling sequence:
*   -  Add soc property:
*       - mpls_termination_label_index_enable=1
*       - mpls_context:
*          - VRF context:      mpls_context=vrf
*          - IN-RIF context :  mpls_context=interface
*
*   -  Add ILM (ingress label mapping) entry .
*      - For VRF context:
*        -  set the vpn parameter as VRF value.
*      - For In-RIF context:
*        -  set the flags with BCM_MPLS_SWITCH_LOOKUP_L3_INGRESS_INTF
*        -  set the ingress_if as IN-RIF

*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mpls_lsr_context.c
No license file was found, but licenses were detected in source scan.

```
/****************************************************************************
****************************************************************************
```

```
*  File Name     :  eagle_phy_1_field_access.c                                  *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs to access Serdes IP Registers and Reg fields           *
*  Revision      :  $Id: eagle_phy_1_field_access.c 1374 2016-03-12 01:19:55Z cvazquez $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                   *
*      Broadcom Corporation                                                     *
*      5300 California Avenue                                                   *
*      Irvine, CA  92617                                                        *
*                                                                               *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_drv.c,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON DRV
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_drv.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cpudb.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cpudb.c
* Purpose:     CPU database;
* Requires:
*
```

```
* See the document cpu_database.txt for more information.
*
* The sysid is an application specific number between 0 and number
* of CPUs permitted.  It is independent of the hard index used
* by cpudb.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cpudb/cpudb.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_qos.c,$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file provides switch basic functionality
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtAddress.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEbMvtAddress.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Switch Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/switch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/switch.h

No license file was found, but licenses were detected in source scan.

```
# $Id: Toseef Koliyariwala
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
#File: trall_bcm56868_a0.soc
#Purpose: Tests all memories on BCM56868.
#    tr50 - Memory Fill/Verify
#    tr51 - Memory Random Addr/Data
#    tr52 - Rand Mem Addr, write all
#    tr71 - Table DMA

echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;       $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;                  $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                  $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                  $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                     $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                   $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;              $name; $tr50; $tr51; $tr52;

#n/a - local mem MPLS_ENTRY;              $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;               $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                   $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;               $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                        $name; $tr50;
local mem CPU_PBM_2;                      $name; $tr50;
local mem CPU_TS_MAP;                     $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;              $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem DLB_HGT_FLOWSET;                                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                                    $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;                                    $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_ENABLE;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                         $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_FCOE_CONTROL_1;                    $name; $tr50;
#n/a - local mem EGR_FC_HEADER_TYPE;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;              $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;              $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                        $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                     $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;                      $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;                      $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                           $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                   $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                             $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                                $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                                $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                           $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                              $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                            $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_LPORT_PROFILE;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                        $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                           $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                             $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                      $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51;
$tr52;
local mem EGR_MTU;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                    $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr50;
#local mem EGR_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr50;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr50;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_VLAN_XLATE;                                   $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                               $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                                $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                           $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                  $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                  $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                   $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                   $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                       $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                                  $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                                 $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                                     $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                                 $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                               $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                                    $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                        $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;             $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                             $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;             $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                             $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
```

```
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                     $name; $tr50; $tr51; $tr52;
#n/a - local mem FCOE_HOP_COUNT_FN;                 $name; $tr50; $tr51; $tr52;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                       $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                       $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                     $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                             $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                     $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                         $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                        $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                        $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                           $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                     $name; $tr50;
local mem FP_SLICE_MAP;                             $name; $tr50;
local mem FP_STORM_CONTROL_METERS;                  $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;                $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;                $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                                  $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                          $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;                 $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                           $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                          $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                      $name; $tr50;
local mem IARB_ING_PORT_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                            $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                          $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                          $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                   $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                              $name; $tr50; $tr51; $tr52;
```

```
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                             $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                               $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                      $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                  $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                       $name; $tr50;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;               $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                            $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                      $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                       $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_FC_HEADER_TYPE;                  $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;              $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;            $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;            $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                   $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                      $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr50;
#n/a - local mem ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_MPLS_EXP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr50;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr50;
local mem ING_UNTAGGED_PHB;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VSAN;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem INITIAL_L3_ECMP;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem L2MC;                    $name; $tr50; $tr51; $tr52;
```

```
local mem L2_BULK_MATCH_DATA;                    $name; $tr50;
local mem L2_BULK_MATCH_MASK;                    $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                  $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                  $name; $tr50;
local mem L2_ENDPOINT_ID;                        $name; $tr50; $tr51; $tr52;
local mem L2X;                                   $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                           $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                         $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                     $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                         $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                       $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                       $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                         $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                       $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                       $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;               $name; $tr50;
local mem L2_MOD_FIFO;                           $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                         $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;               $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP;                       $name; $tr50; $tr51; $tr52;
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_ECC';       $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY';  $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X'; $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y'; $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV4';      $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV4_1';    $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_64';   $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_128';  $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_64_1'; $name; $tr50; $tr51; $tr52;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_RAW';       $name; $tr50; $tr51; $tr52;'
#n/a - local mem L3_DEFIP_AUX_HITBIT_UPDATE;     $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_AUX_SCRATCH;           $name; $tr50;
#n/a - local mem L3_DEFIP_AUX_TABLE;             $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_DATA_ONLY;             $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_HIT_ONLY;              $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_HIT_ONLY_X;            $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_HIT_ONLY_Y;            $name; $tr50; $tr51; $tr52;
```

```
#n/a - local mem L3_DEFIP_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128_DATA_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY_X; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_DEFIP_PAIR_128_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ECMP; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ECMP_COUNT; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_HIT_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_HIT_ONLY_X; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_HIT_ONLY_Y; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_IPV4_MULTICAST; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_IPV4_UNICAST; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_IPV6_MULTICAST; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_IPV6_UNICAST; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_LP; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_ENTRY_ONLY_ECC; $name; $tr50; $tr51; $tr52;
local mem L3_IIF; $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE; $name; $tr50; $tr51; $tr52;
local mem L3_IPMC; $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1; $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP; $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_TUNNEL; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_TUNNEL_DATA_ONLY; $name; $tr50; $tr51; $tr52;
#n/a - local mem L3_TUNNEL_ONLY; $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM; $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2; $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR; $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB; $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK; $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL; $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR; $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP; $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0; $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15; $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16; $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData17;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData60;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                     $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;      $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;         $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_UCQDB0;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                                   $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                            $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                            $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                           $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                           $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                         $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                          $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                          $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                              $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                              $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                              $name; $tr50;
$tr51; $tr52;
```

```
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr50;
#local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                    $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem RH_ECMP_DROPS;                    $name; $tr50;
#n/a - local mem RH_ECMP_DROPS_X;                    $name; $tr50;
#n/a - local mem RH_ECMP_DROPS_Y;                    $name; $tr50;
#n/a - local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51;
```

```
$tr52;
#n/a - local mem RH_ECMP_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                    $name; $tr50;
local mem RH_LAG_DROPS_X;                    $name; $tr50;
local mem RH_LAG_DROPS_Y;                    $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                    $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                    $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                    $name; $tr50;
local mem SER_RESULT_1;                    $name; $tr50;
local mem SER_RESULT_DATA_0;                    $name; $tr50;
local mem SER_RESULT_DATA_1;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                    $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                    $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                    $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                    $name; $tr50; $tr51;
$tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                $name; $tr50;
local mem TRILL_DROP_STATS_X;                $name; $tr50;
local mem TRILL_DROP_STATS_Y;                $name; $tr50;
local mem TRUNK_BITMAP;                $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                $name; $tr50; $tr51; $tr52;
local mem VFI;                $name; $tr50; $tr51; $tr52;
local mem VFI_1;                $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;             $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;               $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;           $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                      $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                  $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;        $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;             $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                   $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;               $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                  $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                  $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                 $name; $tr50; $tr51; $tr52;
local mem VRF;                          $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;        $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories----------------------------------------------------------------
#local mem EDB_1DBG_B;                  $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;       $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;       $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;       $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;       $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;   $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;       $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;       $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;         $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                 $name; $tr50; $tr51; $tr52;
#local mem LMEP;                        $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                     $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;              $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                    $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                    $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;             $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;  $name; $tr50; $tr51; $tr52;
#local mem RMEP;                        $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;     $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;        $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;      $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;      $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;            $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;          $name; $tr50; $tr51; $tr52;
```

```
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_GROUP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                   $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FCOE_CONTROL_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FC_HEADER_TYPE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;         $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                              $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_IP_TUNNEL_MPLS;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                               $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_LPORT_PROFILE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                         $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_MPLS_EXP_PRI_MAPPING;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE; $name; $tr71_1;
$tr71_2; $tr71_3;
local mem EGR_MTU;                                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;        $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;          $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;        $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;      $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_TREE_PROFILE;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;           $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_PRI_MAP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_VLAN_STG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GM_FIELDS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem GTP_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE;              $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;              $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_FC_HEADER_TYPE;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem ING_SER_FIFO_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L2_HITDA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a - if $?l3_alpm_enable \
#n/a -     'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'
#n/a -
#n/a - local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_AUX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#n/a - local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_ENTRY_ONLY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_TUNNEL_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem L3_TUNNEL_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData2;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;           $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData63;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                       $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CFAP_BANK9;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                       $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#n/a - local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#n/a - local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SYSTEM_CONFIG_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_PG_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VFI_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem MAID_REDUCTION;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_OPCODE_CONTROL_PROFILE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                                $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                                  $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                                  $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56868_a0.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_eg_filter.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_eg_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: evlog.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       evlog.c
```

```
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/evlog.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_negev_demo.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_negev_demo.c
No license file was found, but licenses were detected in source scan.

```
# $Id: $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Valkyrie Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56620_A0 || $?BCM56620_A1 || $?BCM56620_B0 || $?BCM56620_B1 \
   'local BCM56620 1'
if $?BCM56624_A0 || $?BCM56624_A1 || $?BCM56624_B0 || $?BCM56624_B1 \
   'local BCM56624 1'
if $?BCM56626_A0 || $?BCM56626_A1 || $?BCM56626_B0 || $?BCM56626_B1 \
   'local BCM56626 1'
if $?BCM56628_A0 || $?BCM56628_A1 || $?BCM56628_B0 || $?BCM56628_B1 \
   'local BCM56628 1'
if $?BCM56629_A1 || $?BCM56629_B0 || $?BCM56629_B1 \
   'local BCM56629 1'
if $?BCM56680_A0 || $?BCM56680_A1 || $?BCM56680_B0 || $?BCM56680_B1 \
   'local BCM56680 1'
if $?BCM56684_A0 || $?BCM56684_A1 || $?BCM56684_B0 || $?BCM56684_B1 \
   'local BCM56684 1'
if $?BCM56686_B0 || $?BCM56686_B1 \
   'local BCM56686 1'

if $?BCM56620 || $?BCM56624 || $?BCM56626 || $?BCM56628 || $?BCM56629 \
   'echo "Please use trsanity.soc instead for Triumph!!"; \
    echo " "; \
```

```
    quit'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done
```

```
echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc
set rct=false

echo "Running Switching Memory Tests ..."
echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
echo " EFP_COUNTER_TABLE";
```

```
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
```

```
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
echo " EGR_MOD_MAP";
```

```
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
echo " EGR_VLAN_XLATE";
```

```
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
echo " FP_RANGE_CHECK";
```

```
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
echo " ING_IPFIX_EXPORT_FIFO";
```

```
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
echo " ING_L3_NEXT_HOP_A";
tr 50 M=ING_L3_NEXT_HOP_A;
tr 51 M=ING_L3_NEXT_HOP_A;
tr 52 M=ING_L3_NEXT_HOP_A;
echo " ING_L3_NEXT_HOP_B";
tr 50 M=ING_L3_NEXT_HOP_B;
tr 51 M=ING_L3_NEXT_HOP_B;
tr 52 M=ING_L3_NEXT_HOP_B;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
echo " ING_PRI_CNG_MAP";
```

```
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
echo " ING_PW_TERM_COUNTERS";
tr 50 M=ING_PW_TERM_COUNTERS;
tr 51 M=ING_PW_TERM_COUNTERS;
tr 52 M=ING_PW_TERM_COUNTERS;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
echo " IPV6_PROXY_ENABLE";
tr 50 M=IPV6_PROXY_ENABLE;
tr 51 M=IPV6_PROXY_ENABLE;
tr 52 M=IPV6_PROXY_ENABLE;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
echo " L2_ENTRY";
```

```
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
echo " L3_DEFIP_128_DATA_ONLY";
```

```
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
echo " L3_ECMP_COUNT";
tr 50 M=L3_ECMP_COUNT;
tr 51 M=L3_ECMP_COUNT;
tr 52 M=L3_ECMP_COUNT;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
```

```
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
echo " PORT_MAC_BLOCK";
```

```
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
echo " CBPCELLHEADER";
tr 50 M=CBPCELLHEADER;
tr 51 M=CBPCELLHEADER;
tr 52 M=CBPCELLHEADER;
echo " CBPDATA0";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA0 $entry_cmd;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0 $iter_cmd;
echo " CBPDATA1";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA1 $entry_cmd;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1 $iter_cmd;
echo " CBPDATA2";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA2 $entry_cmd;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2 $iter_cmd;
echo " CBPDATA3";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA3 $entry_cmd;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3 $iter_cmd;
echo " CBPDATA4";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA4 $entry_cmd;
```

```
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4 $iter_cmd;
echo " CBPDATA5";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA5 $entry_cmd;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5 $iter_cmd;
echo " CBPDATA6";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA6 $entry_cmd;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6 $iter_cmd;
echo " CBPDATA7";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA7 $entry_cmd;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7 $iter_cmd;
echo " CBPDATA8";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA8 $entry_cmd;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8 $iter_cmd;
echo " CBPDATA9";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA9 $entry_cmd;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9 $iter_cmd;
echo " CBPDATA10";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA10 $entry_cmd;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10 $iter_cmd;
echo " CBPDATA11";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
```

```
tr 50 M=CBPDATA11 $entry_cmd;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11 $iter_cmd;
echo " CBPDATA12";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA12 $entry_cmd;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12 $iter_cmd;
echo " CBPDATA13";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA13 $entry_cmd;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13 $iter_cmd;
echo " CBPDATA14";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA14 $entry_cmd;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14 $iter_cmd;
echo " CBPDATA15";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA15 $entry_cmd;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15 $iter_cmd;
echo " CBPDATA16";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA16 $entry_cmd;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16 $iter_cmd;
echo " CBPDATA17";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA17 $entry_cmd;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17 $iter_cmd;
echo " CBPDATA18";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
```

```
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA18 $entry_cmd;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18 $iter_cmd;
echo " CBPDATA19";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA19 $entry_cmd;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19 $iter_cmd;
echo " CBPDATA20";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA20 $entry_cmd;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20 $iter_cmd;
echo " CBPDATA21";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA21 $entry_cmd;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21 $iter_cmd;
echo " CBPDATA22";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA22 $entry_cmd;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22 $iter_cmd;
echo " CBPDATA23";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA23 $entry_cmd;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23 $iter_cmd;
echo " CBPDATA24";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA24 $entry_cmd;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24 $iter_cmd;
echo " CBPDATA25";
if !$?full_test \
```

```
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA25 $entry_cmd;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25 $iter_cmd;
echo " CBPDATA26";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA26 $entry_cmd;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26 $iter_cmd;
echo " CBPDATA27";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA27 $entry_cmd;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27 $iter_cmd;
echo " CBPDATA28";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA28 $entry_cmd;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28 $iter_cmd;
echo " CBPDATA29";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA29 $entry_cmd;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29 $iter_cmd;
echo " CBPDATA30";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA30 $entry_cmd;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30 $iter_cmd;
echo " CBPDATA31";
if !$?full_test \
   "local entry_cmd 'IE=1024'; \
    local iter_cmd 'ITER=1' "
tr 50 M=CBPDATA31 $entry_cmd;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31 $iter_cmd;
echo " CBPPKTHEADER2";
```

```
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
echo " CBPPKTHEADERCPU";
tr 50 M=CBPPKTHEADERCPU;
tr 51 M=CBPPKTHEADERCPU;
tr 52 M=CBPPKTHEADERCPU;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
echo " IPMC_GROUP0";
```

```
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
echo " PKTLINK1";
```

```
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
echo " PKTLINK13";
```

```
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
echo " PKTLINK25";
```

```
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
echo " PKTLINK37";
```

```
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
echo " PKTLINK49";
```

```
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
echo " WRED_THD_1_PACKET";
```

```
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
echo " PORT_CBL_TABLE";
```

```
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
echo " TOS_FN";
```

```
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
echo " VLAN_MAC";
```

```
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
echo " VLAN_XLATE";
```

```
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
$done

#Table DMA/Table SLAM
echo "Running Table DMA Tests ..."
echo " ALTERNATE_EMIRROR_BITMAP";
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY S=0 C=0 TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP S=0 C=0 TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 71 M=DSCP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=DSCP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS S=0 C=0 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
```

```
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EFP_TCAM";
tr 71 M=EFP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=EFP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN S=0 C=0 TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
```

```
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_IPMC";
tr 71 M=EGR_IPMC S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IPMC S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 S=0 C=0 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS S=0 C=0 TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF S=0 C=0 TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 71 M=EGRESS_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGRESS_MASK S=0 C=0 TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
```

```
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN";
tr 71 M=EGR_VLAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE S=0 C=0 TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " EM_MTP_INDEX";
```

```
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK S=0 C=0 TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE S=0 C=0 TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM S=0 C=0 TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL S=0 C=0 TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP S=0 C=0 TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK S=0 C=0 TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL S=0 C=0 TSE=T SLTH=F;
echo " FP_SLICE_MAP";
```

```
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP S=0 C=0 TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS S=0 C=0 TSE=T SLTH=F;
echo " FP_TCAM";
tr 71 M=FP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=FP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 71 M=UDF_OFFSET S=0 C=0 TSE=F SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=T;
tr 71 M=UDF_OFFSET S=0 C=0 TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX S=0 C=0 TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
```

```
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP_A";
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_A S=0 C=0 TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP_B";
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP_B S=0 C=0 TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP S=0 C=0 TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING S=0 C=0 TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP S=0 C=0 TSE=T SLTH=F;
echo " ING_PW_TERM_COUNTERS";
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_COUNTERS S=0 C=0 TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
```

```
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM S=0 C=0 TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE S=0 C=0 TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP S=0 C=0 TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 71 M=IPORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH S=0 C=0 TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE";
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE S=0 C=0 TSE=T SLTH=F;
echo " L2MC";
tr 71 M=L2MC S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2MC S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY";
tr 71 M=L2_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
```

```
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW S=0 C=0 TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP";
tr 71 M=L3_DEFIP S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
```

```
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ECMP";
tr 71 M=L3_ECMP S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ECMP S=0 C=0 TSE=T SLTH=F;
echo " L3_ECMP_COUNT";
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ECMP_COUNT S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
```

```
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY S=0 C=0 TSE=T SLTH=F;
echo " L3_IIF";
tr 71 M=L3_IIF S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_IIF S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_IIF S=0 C=0 TSE=T SLTH=F;
echo " L3_IPMC";
tr 71 M=L3_IPMC S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_IPMC S=0 C=0 TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES S=0 C=0 TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 71 M=L3_TUNNEL S=0 C=0 TSE=F SLTH=T;
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=T;
tr 71 M=L3_TUNNEL S=0 C=0 TSE=T SLTH=F;
echo " LPORT";
tr 71 M=LPORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=LPORT S=0 C=0 TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
```

```
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM S=0 C=0 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW S=0 C=0 TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY S=0 C=0 TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM S=0 C=0 TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK S=0 C=0 TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " COS_MAP";
tr 71 M=COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET S=0 C=0 TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 S=0 C=0 TSE=T SLTH=F;
echo " PORT";
tr 71 M=PORT S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT S=0 C=0 TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
```

```
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP S=0 C=0 TSE=T SLTH=F;
echo " SOURCE_VP";
tr 71 M=SOURCE_VP S=0 C=0 TSE=F SLTH=T;
tr 71 M=SOURCE_VP S=0 C=0 TSE=T SLTH=T;
tr 71 M=SOURCE_VP S=0 C=0 TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK S=0 C=0 TSE=T SLTH=F;
echo " VLAN_STG";
tr 71 M=VLAN_STG S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_STG S=0 C=0 TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TCP_FN";
tr 71 M=TCP_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TCP_FN S=0 C=0 TSE=T SLTH=F;
echo " TOS_FN";
tr 71 M=TOS_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TOS_FN S=0 C=0 TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE S=0 C=0 TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS S=0 C=0 TSE=T SLTH=F;
echo " TRUNK_GROUP";
```

```
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP S=0 C=0 TSE=T SLTH=F;
echo " TTL_FN";
tr 71 M=TTL_FN S=0 C=0 TSE=F SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=T;
tr 71 M=TTL_FN S=0 C=0 TSE=T SLTH=F;
echo " VFI";
tr 71 M=VFI S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFI S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFI S=0 C=0 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE S=0 C=0 TSE=T SLTH=F;
echo " VFP_TCAM";
tr 71 M=VFP_TCAM S=0 C=0 TSE=F SLTH=T;
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=T;
tr 71 M=VFP_TCAM S=0 C=0 TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " VLAN_MAC";
tr 71 M=VLAN_MAC S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_MAC S=0 C=0 TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH S=0 C=0 TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT S=0 C=0 TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
```

```
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL S=0 C=0 TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY S=0 C=0 TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY S=0 C=0 TSE=T SLTH=F;
echo " VLAN";
tr 71 M=VLAN S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN S=0 C=0 TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 71 M=VLAN_XLATE S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_XLATE S=0 C=0 TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH S=0 C=0 TSE=T SLTH=F;
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done
```

```
#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
```

```
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
```

```
tr 24
$done

#MAC Loopback
if $?BCM56680 || $?BCM56684 \
  'echo "Testing MAC Loopback - 10 Mb/s all GE ports"; \
   tr 18 pbm=ge speed=10; \
   $done'

if $?BCM56680 || $?BCM56684 \
  'echo "Testing MAC Loopback - 100 Mb/s all GE ports"; \
   tr 18 pbm=ge speed=100; \
   $done'

if $?BCM56680 || $?BCM56684 \
  'echo "Testing MAC Loopback - 1000 Mb/s all GE ports"; \
   tr 18 pbm=ge speed=1000; \
   $done'

if $?BCM56680 || $?BCM56684 \
  'echo "Testing MAC Loopback - 2500 Mb/s all 2.5GE ports"; \
   tr 18 pbm=0xf81f0c0fc0fc speed=2500; \
   $done'

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

#PHY Loopback
if $?BCM56680 || $?BCM56684 \
  'echo "Testing PHY Loopback - 1000 Mb/s all GE ports"; \
   tr 19 pbm=ge speed=1000; \
   $done'

if $?BCM56680 || $?BCM56684 \
  'echo "Testing PHY Loopback - 2500 Mb/s all GE ports"; \
   tr 19 pbm=ge speed=max; \
   $done'

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
```

```
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

# Self External Loopback
#  If you have external self-loopback cables connected
#  before running this script, use:
#       setenv extSelf   1
#
if $?extSelf \
   'echo "Testing EXT Loopback - 2500 Mb/s all 2.5GE ports"; \
    tr 19 pbm=0xf81f0c0fc0fc speed=2500 ExtselfloopPBM=0xf81f0c0fc0fc; \
    $done'

if $?BCM56680 || $?BCM56684 \
   'echo "Running MAC loopback V2 on all ports ..."; \
    tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single; \
    $done'

if $?BCM56680 || $?BCM56684 \
   'echo "Running PHY loopback V2 on all ports ..."; \
    tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007; \
    $done'

#Internal snake Loopback
if $?BCM56680 || $?BCM56684 \
   'echo "Running internal snake on all 2.5GE ports, MAC loopback ..."; \
    tr 39 pbm=0xf81f0c0fc0fc loopbackmode=mac snakepath=two speed=2500 AutoNeg=false; \
    $done'

if $?BCM56680 || $?BCM56684 \
   'echo "Running internal snake on all 2.5GE ports, PHY loopback ..."; \
   tr 39 pbm=0xf81f0c0fc0fc loopbackmode=phy snakepath=two speed=max AutoNeg=false; \
    $done'

if $?BCM56680 \
   'echo "Running internal snake on ports at 1G speed, MAC loopback ..."; \
   tr 39 loopbackmode=mac snakepath=two PBM=0x6 speed=1000 AutoNeg=false;   \
   $done'

if $?BCM56680 \
```

```
   'echo "Running internal snake on ports at 1G speed, PHY loopback ..."; \
   tr 39 loopbackmode=phy snakepath=two PBM=0x6 speed=1000 AutoNeg=false;   \
   $done'

#Traffic Test
if $?BCM56680 || $?BCM56684 \
   'echo "Running Traffic Test in MAC mode ..."; \
    tr 72 pbm=0xf81f0c0fc0fc RM=MAC; \
    $done'

if $?BCM56680 || $?BCM56684 \
   'echo "Running Traffic Test in PHY mode ..."; \
    tr 72 pbm=0xf81f0c0fc0fc RM=PHY; \
    $done'

#External Loopback
# If you have external loopback cables connected as follows
#        2-3   4-5   6-7  18-19 14-15 16-17
#       26-32 33-34 26-32 33-34 41-42 48-49
# Back panel HG ports: 28-29 30-31
#
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
#       setenv ext1000 1
#       setenv ext2500 1
#       setenv extb10G 1
#       setenv extb12G 1
# or
#       setenv extall  1

#External Loopback on GE port
local ge_fwd 0x0
local ge_bwd 0x0
if $?BCM56680 || $?BCM56684 \
   'local ge_fwd 0x00501504054054; \
    local ge_bwd 0x00a80a080a80a8'

#External Loopback on back panel HG port
local hg_fwd 0x50000000
local hg_bwd 0xa0000000

if $?extall \
       "local ext1000 1; local ext2500 1; local extb10G 1"

if $?ext1000 \
   "echo Testing GE ports External Loopback - 1000 MB/s forward; \
    tr 20 tpbm=$ge_fwd di=1 speed=1000 count=10; \
    echo Testing GE ports External Loopback - 1000 MB/s reverse; \
```

```
    tr 20 tpbm=$ge_bwd di=-1 speed=1000 count=10"

if $?ext2500 \
   "echo Testing GE ports External Loopback - 2500 MB/s forward; \
    tr 20 tpbm=$ge_fwd di=1 speed=2500 count=10; \
    echo Testing GE ports External Loopback - 2500 MB/s reverse; \
    tr 20 tpbm=$ge_bwd di=-1 speed=2500 count=10"

if $?extb10G \
   "echo Testing Back Panel 10G ports External Loopback - 10 GB/s forward; \
    tr 20 tpbm=$hg_fwd di=1 speed=10G count=10; \
    echo Testing Back Panel 10G ports External Loopback - 10 GB/s reverse; \
    tr 20 tpbm=$hg_bwd di=-1 speed=10G count=10"

if $?extb12G \
   "echo Testing Back Panel 10G ports External Loopback - 12 GB/s forward; \
    tr 20 tpbm=$hg_fwd di=1 speed=12G count=10; \
    echo Testing Back Panel 10G ports External Loopback - 12 GB/s reverse; \
    tr 20 tpbm=$hg_bwd di=-1 speed=12G count=10"

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/vsanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* SROM format definition.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom_fmt.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmsrom_fmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250DuartSio.h,v 1.3 2011/07/21 16:14:48 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250DuartSio.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phyreg.c,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy5482.c
* Purpose:     PHY driver for BCM5482 and BCM5482S
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phyreg.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_filter.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_sim.c,v 1.18 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PHY Simulator (requires PHYMOD library)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/phymod_sim.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ism.c,v 1.75 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ISM management routines
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/ism.c
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_fe200_chip_consts.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_fe200_chip_consts.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_qax_mgmt.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_ingress_traffic_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/QAX/qax_mgmt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnx/legacy/QAX/qax_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56526sanity.soc,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph2 (BCM56634) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
```

```
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
```

```
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
```

```
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
```

```
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
```

```
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
```

```
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
```

```
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
```

```
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
```

```
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
```

```
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
```

```
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
```

```
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
```

```
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
```

```
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
```

```
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
```

```
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
```

```
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
```

```
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
```

```
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
```

```
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
```

```
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
```

```
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
```

```
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
```

```
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
```

```
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
```

```
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
```

```
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
```

```
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
```

```
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
```

```
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
```

```
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
```

```
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
```

```
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
```

```
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
```

```
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
```

```
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
```

```
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
```

```
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
```

```
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
```

```
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
```

```
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
```

```
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
```

```
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
```

```
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
```

```
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
```

```
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
```

```
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
```

```
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
```

```
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
```

```
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
```

```
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
```

```
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport0";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport0;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport0";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport0;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport0 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_DATA.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_RX_TUNNEL_MASK.gport1";
tr 50 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 51 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 52 M=GPORT_EHG_RX_TUNNEL_MASK.gport1;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_RX_TUNNEL_MASK.gport1 TSE=T SLTH=F;
echo " GPORT_EHG_TX_TUNNEL_DATA.gport1";
tr 50 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 51 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
```

```
tr 52 M=GPORT_EHG_TX_TUNNEL_DATA.gport1;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=F SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=T;
tr 71 M=GPORT_EHG_TX_TUNNEL_DATA.gport1 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
```

```
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
```

```
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge0-ge28 speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge0-ge28 speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge0-ge28 speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done
```

```
echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge0-ge28 speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge0-ge28 speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge0-ge28 speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=ge0-ge28,hg
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=ge0-ge28,hg
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two pbm=ge0-ge28
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two pbm=ge0-ge28
$done
```

```
#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=ge0-ge28,hg
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=ge0-ge28,hg
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56526sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_porting.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_porting.h
* Purpose:     CINT porting interfaces
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_porting.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_initial.c, 2014/07/26 huilizha Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$

* File: cint_qos_initial.c
* Purpose: An example of the initial qos application based on port

* Explanation:
  1. Assign packets to a Traffic class and Drop precedence according to incoming packet header and incoming Port
  2. Most configuration is done in Port and VLAN modules

* Calling up sequence:
* Set up sequence:
  1. create inlif
     - Call bcm_vlan_port_create() with following criterias:
       BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN
  2. create outlif
     - Call bcm_vlan_port_create() with following criteria:
       BCM_VLAN_PORT_MATCH_PORT_VLAN
  3. set the outlif egress action
     - Call bcm_vlan_translate_egress_action_add()
  4. cross connect the 2 LIFs
     - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
  1. Delete the cross connected LIFs
     - Call bcm_vswitch_cross_connect_delete()
  2. Delete inLIF
     - Call bcm_vlan_port_destroy()
  3. Delete outLIF
     - Call bcm_vlan_port_destroy()

* Service Model:
  Port 15   <----------------------Cross Connect----------------------> Port 16
  untagg    <-------------------------------------------------------> vid 200
  vid 100   <-------------------------------------------------------> vid 300

* QoS Map Setting:
  qos_dscp_map_create: Map both TC and DP from the packet TOS
                    including two modes: BCM_PORT_DSCP_MAP_ALL and
BCM_PORT_DSCP_MAP_UNTAGGED_ONLY
                    1. BCM_PORT_DSCP_MAP_ALL: targeted for any type of ip packet (tagged ip packet and untagged
ip packet)
                      - call bcm_port_dscp_map_mode_set to set the map mode as BCM_PORT_DSCP_MAP_ALL
                      - call bcm_port_dscp_map_set to map both TC and DP
                    2. BCM_PORT_DSCP_MAP_UNTAGGED_ONLY: only targeted for untagged ip packet
```

- call bcm_port_dscp_map_mode_set to set the map mode as BCM_PORT_DSCP_MAP_UNTAGGED_ONLY
- call bcm_port_dscp_map_set to map both TC and DP

qos_pcp_map_create: Map TC and DP from the packet PCP (targeted for tagged packet) including three modes:

1. map dei without cfi for s tagged pkt when use_de=0
   - call bcm_switch_control_port_set(unit, port, bcmSwitchColorSelect, BCM_COLOR_PRIORITY) to set the mode as use_de=0
   - call bcm_port_vlan_priority_map_set to map both TC and DP
2. map dei with cfi for s tagged pkt when use_de=1
   - call bcm_switch_control_port_set(0,port,bcmSwitchColorSelect,BCM_COLOR_OUTER_CFI) to set the map mode as use_de=1
   - call bcm_port_vlan_priority_map_set to map TC
   - call bcm_port_cfi_color_set to map DP
3. map up to dp for c tagged pkt
   - call bcm_port_priority_color_set to map DP
   - call bcm_port_vlan_priority_map_set to map TC

qos_dft_map_create. Map TC and DP with the default value by the parameter input

1. Default TC
   - call bcm_port_dscp_map_mode_set to set the mode as BCM_PORT_DSCP_MAP_DEFAULT
   - call bcm_port_untagged_priority_set to map TC for the untagged packet
2. Default DP
   - call bcm_port_control_set(unit, port, bcmPortControlDropPrecedence, dft_color) to set the map mode and map DP for the untagged packet

```
*  Map ingress and egress as follows
*  Map TOS
*  Ingress TOS/TC          INTERNAL          Egress
   *     IPV4/6          TC/DP            PKT_PRI/CFI
   *     0-31            0/0(1)           0/0(1)
   *     32-63           1/0(1)           1/0(1)
   *     64-95           2/0(1)           2/0(1)
   *     96-127          3/0(1)           3/0(1)
   *     128-159         4/0(1)           4/0(1)
   *     160-191         5/0(1)           5/0(1)
   *     192-223         6/0(1)           6/0(1)
   *     224-255         7/0(1)           7/0(1)

*  Map tc from PCP and dp with (and without) dei for s tagged pkt
*  Ingress      INTERNAL            Egress
*  PKT_PRI/CFI   TC/DP              PKT_PRI/CFI
*    0/0        1/0(1)             1/0(1)
*    0/1        1/1(0)             1/1(0)
*    1/0        2/0(1)             2/0(1)
*    1/1        2/1(0)             2/1(0)
*    2/0        3/0(1)             3/0(1)
*    2/1        3/1(0)             3/1(0)
*    3/0        4/0(1)             4/0(1)
```

```
*    3/1        4/1(0)          4/1(0)
*    4/0        5/0(1)          5/0(1)
*    4/1        5/1(0)          5/1(0)
*    5/0        6/0(1)          6/0(1)
*    5/1        6/1(0)          6/1(0)
*    6/0        7/0(1)          7/0(1)
*    6/1        7/1(0)          7/1(0)
*    7/0        7/0(1)          7/0(1)
*    7/1        7/1(0)          7/1(0)

*  Map dft tc and dp for the untagged packet: tc and dp can be set as the inputted parameter
*  Ingress              INTERNAL            Egress
*  PKT_PRI/CFI            TC/DP            PKT_PRI/CFI
*    N/A                 0/0              0/0
*    N/A                 0/1              0/1
*    N/A                 1/0              1/0
*    N/A                 1/1              1/1
*    N/A                 2/0              2/0
*    N/A                 2/1              2/1
*    N/A                 3/0              3/0
*    N/A                 3/1              3/1
*    N/A                 4/0              4/0
*    N/A                 4/1              4/1
*    N/A                 5/0              5/0
*    N/A                 5/1              5/1
*    N/A                 6/0              6/0
*    N/A                 6/1              6/1
*    N/A                 7/0              7/0
*    N/A                 7/1              7/1

*  To Activate Above Settings Run:
  BCM> cd ../../../src/examples/dpp
  BCM> cint cint_qos_initial.c
  BCM> cint
  cint> initial_qos_service_init(unit,port_in,port_out);
  cint> initial_qos_service(unit);
  cint> qos_dscp_map_create(unit,port,color_idx,BCM_PORT_DSCP_MAP_ALL);
      *  color_idx can be 0 or 1. 0 stands for green pakcet, 1 stands for yellow packet
      *  Send Traffic from port 15 and receive it on port 16:
      *  1. In port 15 tos 0   <-----CrossConnect----->  Out port 16 vid 200 prio 0 cfi $color_idx tos 0
      *  2. In port 15 tos 64  <-----CrossConnect----->  Out port 16 vid 200 prio 2 cfi $color_idx tos 64
      *  3. In port 15 tos 128 <-----CrossConnect----->  Out port 16 vid 200 prio 4 cfi $color_idx tos 128
      *  4. In port 15 tos 192 <-----CrossConnect----->  Out port 16 vid 200 prio 6 cfi $color_idx tos 192
      *  5. In port 15 vid 100 tos 0   <-CrossConnect->  Out port 16 vid 300 prio 0 tos 0
      *  6. In port 15 vid 100 tos 64  <-CrossConnect->  Out port 16 vid 300 prio 2 tos 64
      *  7. In port 15 vid 100 tos 128 <-CrossConnect->  Out port 16 vid 300 prio 4 tos 128
      *  8. In port 15 vid 100 tos 192 <-CrossConnect->  Out port 16 vid 300 prio 6 tos 192
  cint> qos_dscp_map_create(unit,port,color_idx,BCM_PORT_DSCP_MAP_UNTAGGED_ONLY);
```

```
     *  color_idx can be 0 or 1. 0 stands for green pakcet, 1 stands for yellow packet
     *  Send Traffic from port 15 and receive it on port 16:
     *  1. In port 15 tos 0   <-----CrossConnect----->  Out port 16 vid 200 prio 0 cfi $color_idx tos 0
     *  2. In port 15 tos 64  <-----CrossConnect----->  Out port 16 vid 200 prio 2 cfi $color_idx tos 64
     *  3. In port 15 tos 128 <-----CrossConnect----->  Out port 16 vid 200 prio 4 cfi $color_idx tos 128
     *  4. In port 15 tos 192 <-----CrossConnect----->  Out port 16 vid 200 prio 6 cfi $color_idx tos 192
 cint> qos_pcp_map_create(unit,port_in,use_de);
     *  use_de can be 0 or 1. 0 stands for not mapping dei without cfi; 1 stands for mapping dei with cfi.
     *  Send Traffic from port 15 and receive it on port 16 when use_de is 0:
     *  1. In port 15 vid 100 prio 0 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 1 cfi 1
     *  2. In port 15 vid 100 prio 1 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 2 cfi 0
     *  3. In port 15 vid 100 prio 2 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 3 cfi 1
     *  4. In port 15 vid 100 prio 3 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 4 cfi 0
     *  5. In port 15 vid 100 prio 4 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 5 cfi 1
     *  6. In port 15 vid 100 prio 5 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 6 cfi 0
     *  7. In port 15 vid 100 prio 6 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 7 cfi 1
     *  8. In port 15 vid 100 prio 7 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 7 cfi 0
     *  Send Traffic from port 15 and receive it on port 16 when use_de is 1:
     *  1. In port 15 vid 100 prio 0 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 1 cfi 0
     *  2. In port 15 vid 100 prio 1 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 2 cfi 1
     *  3. In port 15 vid 100 prio 2 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 3 cfi 0
     *  4. In port 15 vid 100 prio 3 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 4 cfi 1
     *  5. In port 15 vid 100 prio 4 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 5 cfi 0
     *  6. In port 15 vid 100 prio 5 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 6 cfi 1
     *  7. In port 15 vid 100 prio 6 cfi 0  <-----CrossConnect----->  Out port 16 vid 300 prio 7 cfi 0
     *  8. In port 15 vid 100 prio 7 cfi 1  <-----CrossConnect----->  Out port 16 vid 300 prio 7 cfi 1
 cint> qos_dft_map_create(unit,port,dft_color,dft_tc);
     *  dft_color can be from 0 to 1 and dft_tc can be from 0 to 7.
     *  Send Traffic from port 15 and receive it on port 16:
     *  1. In port 15  <-----CrossConnect----->  Out port 16 vid 200 prio $dft_tc cfi $dft_color
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_initial.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: types.h,v 1.33 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/types.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: sws.h,v 1.24.16.4 Broadcom SDK $
*
* sws.h : SWS defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_p.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_p.i
No license file was found, but licenses were detected in source scan.

```
/** \file algo_gpm.h
* $Id$
*
* Internal DNX Gport Managment APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/algo_gpm.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_frwrd_ipv4.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_frwrd_ipv4.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stktask.h,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stktask.h
* Requires:   Definition of disc_pkt_type_get to get type of a disc pkt
*             DISC packet type definitions
*             CPUDB module
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/stktask.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: type24.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type24.h
* Purpose:    Define dma control block (DCB) format for a type24 DCB
*             used by the 56440 (Katana)
*
*             This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type24.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: tdm_th_llist.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip linked list methods
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk/tdm_th_llist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: atptrans_socket.c,v 1.18 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     atptrans_socket.c
*
* Purpose:   ATP over Sockets
*
*          This module provides support for the ATP transport
*          to use sockets as its underlying communication mechanism.
*
*          Currently, this only supported for Linux User mode and VxWorks
*          chassis based systems.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/atptrans_socket.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsLastSentPriAddr.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsLastSentPriAddr.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bsp_drv_flash28f_utils.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/bsp_drv_flash28f_utils.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: igmp.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     igmp.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/igmp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: eav.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/eav.c
No license file was found, but licenses were detected in source scan.

```
# $Id: Toseef Koliyariwala
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
#File: trall_bcm56836_a0.soc
#Purpose: Tests all memories on BCM56836.
#    tr50 - Memory Fill/Verify
#    tr51 - Memory Random Addr/Data
#    tr52 - Rand Mem Addr, write all
#    tr71 - Table DMA

echo 'Running all  tests on the memories'
```

```
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;   $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;         $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                  $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                  $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                  $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;

local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                    $name; $tr50;
local mem CPU_PBM_2;                    $name; $tr50;
local mem CPU_TS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                    $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                    $name; $tr50; $tr51; $tr52;
```

```
local mem DLB_HGT_INST_LOAD;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                                    $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;                                    $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                                    $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_FCOE_CONTROL_1;                                    $name; $tr50;
#n/a - local mem EGR_FC_HEADER_TYPE;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                                    $name; $tr50; $tr51; $tr52;
```

```
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_LPORT_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                    $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr50;
#local mem EGR_SER_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr50;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr50;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_STG;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                    $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EM_MTP_INDEX;                                $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                            $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                          $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                               $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                   $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;        $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;        $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;        $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;              $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                        $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem FCOE_HOP_COUNT_FN;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem FP_COUNTER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                  $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                 $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                 $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                          $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                  $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                 $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                      $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                       $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                     $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                     $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                        $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                  $name; $tr50;
local mem FP_SLICE_MAP;                          $name; $tr50;
local mem FP_STORM_CONTROL_METERS;               $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;             $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;             $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                               $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                       $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;              $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                 $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                        $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                       $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                   $name; $tr50;
local mem IARB_ING_PORT_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                         $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                       $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_Y;                       $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                           $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;               $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                        $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                          $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                 $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;             $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                  $name; $tr50;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;          $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                       $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                         $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                        $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                 $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                  $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_FC_HEADER_TYPE;             $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;         $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;       $name; $tr50; $tr51; $tr52;
```

```
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr50;
local mem ING_L3_NEXT_HOP;                    $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem ING_SER_FIFO;                                    $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                                  $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT;                                  $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_DATA_ONLY;                        $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY;                         $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                       $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                       $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_SNAT_ONLY;                             $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                   $name; $tr50;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;           $name; $tr50;
local mem ING_UNTAGGED_PHB;                                 $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VFT_PRI_MAP;                           $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                                   $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                      $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                          $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                           $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                  $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                  $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                   $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                   $name; $tr50; $tr51; $tr52;
#n/a - local mem ING_VSAN;                                  $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                          $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                                  $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                            $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                         $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                                $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                  $name; $tr50; $tr51; $tr52;
local mem ISBS_PORT_TO_PIPE_MAPPING;                        $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                           $name; $tr50; $tr51; $tr52;
local mem L2MC;                                             $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                               $name; $tr50;
local mem L2_BULK_MATCH_MASK;                               $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                             $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                             $name; $tr50;
local mem L2_ENDPOINT_ID;                                   $name; $tr50; $tr51; $tr52;
local mem L2X;                                              $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                                      $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                                    $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                                $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                                    $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                                  $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                                  $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                                    $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                                  $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                                  $name; $tr50; $tr51; $tr52;
```

```
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr50;
local mem L2_MOD_FIFO;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                    $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr50; $tr51; $tr52;
```

```
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                    $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                    $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                    $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                    $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                    $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData14;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData30;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData58;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                   $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                         $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                     $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK3;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                     $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                         $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                     $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                     $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                         $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                         $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                 $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;               $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;             $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                  $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                   $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;              $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;              $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;        $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_PDB1;                                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                                 $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                               $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                                $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                                $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                                $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                         $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                          $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                          $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                          $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                         $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                            $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                            $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                               $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                                $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                        $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                                $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                           $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                 $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;         $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;                        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;                      $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;                       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                        $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                        $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                      $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                         $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                   $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;            $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                        $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;               $name; $tr50;
#local mem MPLS_ENTRY;                           $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;             $name; $tr50;
local mem MY_STATION_TCAM;                       $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                     $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;           $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;          $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;             $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;            $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;             $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                  $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                          $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                      $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;               $name; $tr50;
local mem PORT_CBL_TABLE;                        $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                 $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                              $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_DROPS;                         $name; $tr50;
local mem RH_ECMP_DROPS_X;                       $name; $tr50;
local mem RH_ECMP_DROPS_Y;                       $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;     $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                       $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                        $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                        $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;      $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                        $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                  $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                          $name; $tr50;
local mem RH_LAG_DROPS_X;                        $name; $tr50;
local mem RH_LAG_DROPS_Y;                        $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;      $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                        $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                         $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                         $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                 $name; $tr50; $tr51; $tr52;
```

```
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                          $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                         $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                        $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                               $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                             $name; $tr50;
local mem SER_RESULT_1;                             $name; $tr50;
local mem SER_RESULT_DATA_0;                        $name; $tr50;
local mem SER_RESULT_DATA_1;                        $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                     $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                   $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                 $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                                $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                              $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                         $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                  $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;              $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;    $name; $tr50; $tr51;
$tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;         $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;              $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                 $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                       $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                  $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                   $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                   $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                    $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                    $name; $tr50;
local mem TRILL_DROP_STATS_X;                    $name; $tr50;
local mem TRILL_DROP_STATS_Y;                    $name; $tr50;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                    $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                    $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                    $name; $tr50; $tr51; $tr52;
local mem VRF;                    $name; $tr50; $tr51; $tr52;
```

```
#local mem XLPORT_WC_UCMEM_DATA;                                $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                                $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                                $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                                $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                                $name; $tr50; $tr51; $tr52;
#local mem LMEP;                                $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                                $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;                                $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                                $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                                $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                                $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;                                $name; $tr50; $tr51; $tr52;
#local mem RMEP;                                $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                                $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                                $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                                $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
```

```
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK; $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_QUALITY_RESULT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                      $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FCOE_CONTROL_1;                 $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_FC_HEADER_TYPE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;            $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;               $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_LPORT_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_STG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
#n/a - local mem EGR_VSAN_INTPRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;      $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;      $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;      $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem FC_MAP_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GM_FIELDS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem GTP_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_1588_INGRESS_CTRL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_DNAT_ADDRESS_TYPE;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_FC_HEADER_TYPE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
#n/a - local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
```

```
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_TUNNEL;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData23;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;                                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData38;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData67;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData81;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;      $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;     $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;          $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;           $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;             $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDM_DB_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                 $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_THDU_YPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;              $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem RTAG7_PORT_BASED_HASH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                  $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;              $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;    $name; $tr71_1;
$tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SYSTEM_CONFIG_TABLE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;                   $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VOQ_MOD_MAP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                        $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-----------------------------------------------------------------------
#local mem EDB_1DBG_B;                          $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                       $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_OPCODE_CONTROL_PROFILE;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                        $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-------------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                        $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                 $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56836_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       link.c
* Purpose:     BCM Linkscan module for Caladan3
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: buser_config.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/buser_config.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: qax_pp_oam.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dpp/QAX/QAX_PP/qax_pp_oam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy545xx.c,v 1.40 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy545xx.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56685sanity.soc,v 1.2.204.3 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Apollo (BCM56524) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
```

```
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
```

```
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
```

```
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM is=0 ie=127;
tr 50 M=EFP_TCAM is=256 ie=383;
tr 50 M=EFP_TCAM is=512 ie=639;
tr 50 M=EFP_TCAM is=768 ie=895;
tr 51 M=EFP_TCAM is=0 ie=127;
tr 51 M=EFP_TCAM is=256 ie=383;
tr 51 M=EFP_TCAM is=512 ie=639;
tr 51 M=EFP_TCAM is=768 ie=895;
tr 52 M=EFP_TCAM is=0 ie=127;
tr 52 M=EFP_TCAM is=256 ie=383;
tr 52 M=EFP_TCAM is=512 ie=639;
tr 52 M=EFP_TCAM is=768 ie=895;
tr 71 S=0 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=T;
```

```
tr 71 S=256 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=EFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=EFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
```

```
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
```

```
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
```

```
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
```

```
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
```

```
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
```

```
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
```

```
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 50 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 50 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 50 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 50 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 50 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 50 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 50 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 50 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 50 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 50 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 51 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
```

```
tr 51 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 51 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 51 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 51 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 51 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 51 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 51 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 51 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 51 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 51 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 52 M=FP_GLOBAL_MASK_TCAM is=0 ie=127;
tr 52 M=FP_GLOBAL_MASK_TCAM is=256 ie=383;
tr 52 M=FP_GLOBAL_MASK_TCAM is=512 ie=639;
tr 52 M=FP_GLOBAL_MASK_TCAM is=768 ie=895;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1024 ie=1151;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1280 ie=1407;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1536 ie=1663;
tr 52 M=FP_GLOBAL_MASK_TCAM is=1792 ie=1919;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2048 ie=2175;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2304 ie=2431;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2560 ie=2687;
tr 52 M=FP_GLOBAL_MASK_TCAM is=2816 ie=2943;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3072 ie=3199;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3328 ie=3455;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3584 ie=3711;
tr 52 M=FP_GLOBAL_MASK_TCAM is=3840 ie=3967;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4096 ie=4223;
```

```
tr 52 M=FP_GLOBAL_MASK_TCAM is=4352 ie=4479;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4608 ie=4735;
tr 52 M=FP_GLOBAL_MASK_TCAM is=4864 ie=4991;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5120 ie=5247;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5376 ie=5503;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5632 ie=5759;
tr 52 M=FP_GLOBAL_MASK_TCAM is=5888 ie=6015;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6144 ie=6271;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6400 ie=6527;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6656 ie=6783;
tr 52 M=FP_GLOBAL_MASK_TCAM is=6912 ie=7039;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7168 ie=7295;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7424 ie=7551;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7680 ie=7807;
tr 52 M=FP_GLOBAL_MASK_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
```

```
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM is=0 ie=127;
tr 50 M=FP_TCAM is=256 ie=383;
tr 50 M=FP_TCAM is=512 ie=639;
tr 50 M=FP_TCAM is=768 ie=895;
tr 50 M=FP_TCAM is=1024 ie=1151;
tr 50 M=FP_TCAM is=1280 ie=1407;
tr 50 M=FP_TCAM is=1536 ie=1663;
tr 50 M=FP_TCAM is=1792 ie=1919;
tr 50 M=FP_TCAM is=2048 ie=2175;
tr 50 M=FP_TCAM is=2304 ie=2431;
tr 50 M=FP_TCAM is=2560 ie=2687;
tr 50 M=FP_TCAM is=2816 ie=2943;
```

```
tr 50 M=FP_TCAM is=3072 ie=3199;
tr 50 M=FP_TCAM is=3328 ie=3455;
tr 50 M=FP_TCAM is=3584 ie=3711;
tr 50 M=FP_TCAM is=3840 ie=3967;
tr 50 M=FP_TCAM is=4096 ie=4223;
tr 50 M=FP_TCAM is=4352 ie=4479;
tr 50 M=FP_TCAM is=4608 ie=4735;
tr 50 M=FP_TCAM is=4864 ie=4991;
tr 50 M=FP_TCAM is=5120 ie=5247;
tr 50 M=FP_TCAM is=5376 ie=5503;
tr 50 M=FP_TCAM is=5632 ie=5759;
tr 50 M=FP_TCAM is=5888 ie=6015;
tr 50 M=FP_TCAM is=6144 ie=6271;
tr 50 M=FP_TCAM is=6400 ie=6527;
tr 50 M=FP_TCAM is=6656 ie=6783;
tr 50 M=FP_TCAM is=6912 ie=7039;
tr 50 M=FP_TCAM is=7168 ie=7295;
tr 50 M=FP_TCAM is=7424 ie=7551;
tr 50 M=FP_TCAM is=7680 ie=7807;
tr 50 M=FP_TCAM is=7936 ie=8063;
tr 51 M=FP_TCAM is=0 ie=127;
tr 51 M=FP_TCAM is=256 ie=383;
tr 51 M=FP_TCAM is=512 ie=639;
tr 51 M=FP_TCAM is=768 ie=895;
tr 51 M=FP_TCAM is=1024 ie=1151;
tr 51 M=FP_TCAM is=1280 ie=1407;
tr 51 M=FP_TCAM is=1536 ie=1663;
tr 51 M=FP_TCAM is=1792 ie=1919;
tr 51 M=FP_TCAM is=2048 ie=2175;
tr 51 M=FP_TCAM is=2304 ie=2431;
tr 51 M=FP_TCAM is=2560 ie=2687;
tr 51 M=FP_TCAM is=2816 ie=2943;
tr 51 M=FP_TCAM is=3072 ie=3199;
tr 51 M=FP_TCAM is=3328 ie=3455;
tr 51 M=FP_TCAM is=3584 ie=3711;
tr 51 M=FP_TCAM is=3840 ie=3967;
tr 51 M=FP_TCAM is=4096 ie=4223;
tr 51 M=FP_TCAM is=4352 ie=4479;
tr 51 M=FP_TCAM is=4608 ie=4735;
tr 51 M=FP_TCAM is=4864 ie=4991;
tr 51 M=FP_TCAM is=5120 ie=5247;
tr 51 M=FP_TCAM is=5376 ie=5503;
tr 51 M=FP_TCAM is=5632 ie=5759;
tr 51 M=FP_TCAM is=5888 ie=6015;
tr 51 M=FP_TCAM is=6144 ie=6271;
tr 51 M=FP_TCAM is=6400 ie=6527;
tr 51 M=FP_TCAM is=6656 ie=6783;
tr 51 M=FP_TCAM is=6912 ie=7039;
```

```
tr 51 M=FP_TCAM is=7168 ie=7295;
tr 51 M=FP_TCAM is=7424 ie=7551;
tr 51 M=FP_TCAM is=7680 ie=7807;
tr 51 M=FP_TCAM is=7936 ie=8063;
tr 52 M=FP_TCAM is=0 ie=127;
tr 52 M=FP_TCAM is=256 ie=383;
tr 52 M=FP_TCAM is=512 ie=639;
tr 52 M=FP_TCAM is=768 ie=895;
tr 52 M=FP_TCAM is=1024 ie=1151;
tr 52 M=FP_TCAM is=1280 ie=1407;
tr 52 M=FP_TCAM is=1536 ie=1663;
tr 52 M=FP_TCAM is=1792 ie=1919;
tr 52 M=FP_TCAM is=2048 ie=2175;
tr 52 M=FP_TCAM is=2304 ie=2431;
tr 52 M=FP_TCAM is=2560 ie=2687;
tr 52 M=FP_TCAM is=2816 ie=2943;
tr 52 M=FP_TCAM is=3072 ie=3199;
tr 52 M=FP_TCAM is=3328 ie=3455;
tr 52 M=FP_TCAM is=3584 ie=3711;
tr 52 M=FP_TCAM is=3840 ie=3967;
tr 52 M=FP_TCAM is=4096 ie=4223;
tr 52 M=FP_TCAM is=4352 ie=4479;
tr 52 M=FP_TCAM is=4608 ie=4735;
tr 52 M=FP_TCAM is=4864 ie=4991;
tr 52 M=FP_TCAM is=5120 ie=5247;
tr 52 M=FP_TCAM is=5376 ie=5503;
tr 52 M=FP_TCAM is=5632 ie=5759;
tr 52 M=FP_TCAM is=5888 ie=6015;
tr 52 M=FP_TCAM is=6144 ie=6271;
tr 52 M=FP_TCAM is=6400 ie=6527;
tr 52 M=FP_TCAM is=6656 ie=6783;
tr 52 M=FP_TCAM is=6912 ie=7039;
tr 52 M=FP_TCAM is=7168 ie=7295;
tr 52 M=FP_TCAM is=7424 ie=7551;
tr 52 M=FP_TCAM is=7680 ie=7807;
tr 52 M=FP_TCAM is=7936 ie=8063;
tr 71 S=0 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=FP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=FP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=FP_TCAM TSE=T SLTH=F;
```

```
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
```

```
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
```

```
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
```

```
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
```

```
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
```

```
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
```

```
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
```

```
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
```

```
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
```

```
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
```

```
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
```

```
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
```

```
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
```

```
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
```

```
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
```

```
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
```

```
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
```

```
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
```

```
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
```

```
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
```

```
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
```

```
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
```

```
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
```

```
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
```

```
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
```

```
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
```

```
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
```

```
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
```

```
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
```

```
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
```

```
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
```

```
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM is=0 ie=127;
tr 50 M=VFP_TCAM is=256 ie=383;
tr 50 M=VFP_TCAM is=512 ie=639;
tr 50 M=VFP_TCAM is=768 ie=895;
tr 50 M=VFP_TCAM is=1024 ie=1151;
tr 50 M=VFP_TCAM is=1280 ie=1407;
tr 50 M=VFP_TCAM is=1536 ie=1663;
tr 50 M=VFP_TCAM is=1792 ie=1919;
tr 51 M=VFP_TCAM is=0 ie=127;
tr 51 M=VFP_TCAM is=256 ie=383;
tr 51 M=VFP_TCAM is=512 ie=639;
tr 51 M=VFP_TCAM is=768 ie=895;
tr 51 M=VFP_TCAM is=1024 ie=1151;
tr 51 M=VFP_TCAM is=1280 ie=1407;
tr 51 M=VFP_TCAM is=1536 ie=1663;
tr 51 M=VFP_TCAM is=1792 ie=1919;
tr 52 M=VFP_TCAM is=0 ie=127;
tr 52 M=VFP_TCAM is=256 ie=383;
```

```
tr 52 M=VFP_TCAM is=512 ie=639;
tr 52 M=VFP_TCAM is=768 ie=895;
tr 52 M=VFP_TCAM is=1024 ie=1151;
tr 52 M=VFP_TCAM is=1280 ie=1407;
tr 52 M=VFP_TCAM is=1536 ie=1663;
tr 52 M=VFP_TCAM is=1792 ie=1919;
tr 71 S=0 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=0 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=0 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=256 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=256 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=256 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=512 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=512 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=512 C=128 M=VFP_TCAM TSE=T SLTH=F;
tr 71 S=768 C=128 M=VFP_TCAM TSE=F SLTH=T;
tr 71 S=768 C=128 M=VFP_TCAM TSE=T SLTH=T;
tr 71 S=768 C=128 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
```

```
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
```

```
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
```

```
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport1";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport1";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1;
```

```
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport1 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
```

```
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport4";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport4";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport4 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
```

```
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done
```

```
echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
```

```
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge speed=1000
$done
```

```
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=ge
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=ge
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

# Show status
date
tl
```

```
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56685sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_ingress_packet_queuing.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_ingress_packet_queuing.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_tcam.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_jer2_jer2_jer2_tmcapi_tcam.h
*
* MODULE PREFIX:  soc_ppc_tcam
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_tcam.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmblackholexpt.c,v 1.1.6.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/nlm3/blackholexpt/nlmblackholexpt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_diag.h,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_diag.h
*
* MODULE PREFIX:  soc_ppc_diag
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*********************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_pmf_low_level_fem_tag.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/tmc/include/soc_tmcapi_pmf_low_level.h
```

```
*
* MODULE PREFIX:  soc_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_pmf_low_level_fem_tag.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: falcon_furia_enum.h 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                           *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: extender.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Purpose: Implements ESW Port Extension APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/extender.c
No license file was found, but licenses were detected in source scan.

```
/*  ************************************************************************
  *  Broadcom Common Firmware Environment (CFE)
  *
  *  Error codes    File: cfe_error.h
  *
  *  CFE's global error code list is here.
  *
  *  Author:  Mitch Lichtenberg
  *
  ************************************************************************
  *
  *  Copyright 2000,2001,2002,2003
  *  Broadcom Corporation. All rights reserved.
  *
  *  This software is furnished under license and may be used and
  *  copied only in accordance with the following terms and
  *  conditions.  Subject to these conditions, you may download,
  *  copy, install, use, modify and distribute modified or unmodified
  *  copies of this software in source and/or binary form.  No title
  *  or ownership is transferred hereby.
  *
  *  1) Any source code used, modified or distributed must reproduce
  *     and retain this copyright notice and list of conditions
  *     as they appear in the source file.
  *
  *  2) No right is granted to use any trade name, trademark, or
  *     logo of Broadcom Corporation.  The "Broadcom Corporation"
  *     name may not be used to endorse or promote products derived
  *     from this software without the prior written permission of
  *     Broadcom Corporation.
  *
  *  3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR
  *     IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED
  *     WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR
  *     PURPOSE, OR NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT
  *     SHALL BROADCOM BE LIABLE FOR ANY DAMAGES WHATSOEVER, AND IN
  *     PARTICULAR, BROADCOM SHALL NOT BE LIABLE FOR DIRECT, INDIRECT,
  *     INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
  *     (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
  *     GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
```

```
 *    BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY
 *    OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
 *    TORT (INCLUDING NEGLIGENCE OR OTHERWISE), EVEN IF ADVISED OF
 *    THE POSSIBILITY OF SUCH DAMAGE.
 ********************************************************************** */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/cfe_error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/cfe_error.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dcmn_mbist.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_mbist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tscmod_extra.h,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wc40_extra.h
* Purpose:     non-register Macro, data structures and function prototypes for WC driver.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_extra.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipfix.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/ipfix.h

No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_metering.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_metering.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tsce.c,v 1.1.2.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tsce.c
* Purpose:     Support Broadcom TSC/Eagle internal SerDes
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tsce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 (BCM83200) SOC Initialization
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2000.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:     PORT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceEBSEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPoliceEBSEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ism.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* The part of PCID that simulates the ism
*
* Requires:
*
* Provides:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/ism.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: t3p1_dummy_ext.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_dummy_ext.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       fabric.h
* Purpose:    FABRIC internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sec.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/sec.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: util.c,v 1.193 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Diagnostic shell support utilities.
* These routines aren't necessary for the driver itself.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric_snake_test.c,v 1.42 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Built-in Self Test for DFE fabric devices (Snake test)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/fabric_snake_test.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	loopback.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/loopback.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_ingress_scheduler.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_ingress_scheduler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: saber2.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	saber2.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm53084lib.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	bcm53084lib.h
* Purpose: BCM53084 remote management library
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/aps/bcm89500lib.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_b.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_b.i
No license file was found, but licenses were detected in source scan.

```
/*
* Broadcom HND chip & on-chip-interconnect-related definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndsoc.h,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndsoc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndsoc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupts_handler.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/appl/dpp/interrupts/interrupt_handler.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: manager.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        manager.h
* Purpose:     driver driver board mananger public interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/board/manager.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000CmuMgr.h,v 1.10 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000CmuMgr.h : FE2000 Counter Management Unit
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000CmuMgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_template.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global template management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_template.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.17 Broadcom SDK $
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Vlan API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/vlan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: vxlan.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW VXLAN API
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/vxlan.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: fe3200_intr_corr_act_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose: Implement Correction action functions for fe3200 interrupts.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_intr_corr_act_func.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: hash.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: hash.c
* Purpose: Trident2 hash table calculation routines
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/esw/trident2/hash.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/qos.c
* Purpose:     BCMX Quality of Service APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/qos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_utils.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_utils.h :
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mos_intr_common.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    mos_intr_common.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mos_intr_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arad_interrupts.h,v 1.9 Broadcom SDK $
*
```

* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ARAD INTERRUPTS H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_interrupts.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mirror.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/mirror.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: api_xlate_port.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM internal port translation functions
*
* This module serves as database for BCM API port mappings as well as
* system port to physical port mappings (when supported by hardware).
*
* Although the two mappings are independent, it does not make much
* sense to have different mappings for the API and system ports. It
* is however possible to turn each mapping on and off independently,
* i.e. BCM API port mapping is not required for system port mapping
* to be active.
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/api_xlate_port.c
No license file was found, but licenses were detected in source scan.

/*

* $Id: wb_engine.c,v 1.20 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/wb_engine.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF MULTICAST
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: i2c24LC128Eeprom.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/i2c24LC128Eeprom.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mcast.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/mcast.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mcast.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_mirror.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_mirror.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: linkscan.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* tr60 - Linkscan MDIO
* Loop reading the MII registers ID0 and ID1(RO registers), verifying
* they never change
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/linkscan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2gre.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ESW L2GRE API
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/l2gre.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.100 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
* Based on Draco/Draco 1.5 code
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmctype.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmctype.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbpcmcia.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM43XX Sonics SiliconBackplane PCMCIA core hardware definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/sbpcmcia.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_scheduler.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_ingress_scheduler.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_cli_files.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_cli_files.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
-----------------------------------------------------------------------------
     Notes on CFAPINIT
   Curt McDowell, Broadcom Corp. 06-20-02
    Last Updated: 06-20-02
-----------------------------------------------------------------------------

1. Overview

The CBP (Cell Buffer Pool) consists of five tables, CBPHEADER and
CBPDATA0-3.  These tables are always addressed in parallel and contain
0x1000 or 0x2000 indexes depending on the chip.

The CFAP (Cell Free Address Pool) is a chip memory that contains a
linked list of free indexes in the CBP.

The CFAP table is initialized automatically by hardware when the chip is
reset by external hardware reset or by software CPS reset (BCM "init
soc" command).

2. CFAP bit errors

In the case where there is a known bad memory location in the CBPHEADER
or CBPDATA0-3 memories, internally-generated CRC errors may result while
switching traffic.
```

If the index of the bad location(s) are known, sometimes they may be mapped out of the CFAP by removing it from the free list before switching begins. Then the chip can switch properly with slightly reduced memory capacity.

Of course, chips with any sort of error should never be used in products. However, during initial chip sampling where yield has been a problem, some chips have no problems other than a few bit errors in the CBP. The goal is to be able to use as many of these chips as possible for software development and hardware debugging.

3. Software CFAPINIT

The BCM command "cfapinit" performs a memory test on the CBP memories and maps out any bad locations that are found. The cfapinit command should normally never be run except under conditions described above.

Bad entries are swapped out for good entries at the end of the table, and the CFAP pool size is decremented accordingly.

4. Running CFAPINIT automatically

The rc.soc will run cfapinit automatically if the "cfap_tests" property is set. This can be done as follows:

```
BCM.0> config add cfap_tests=0x30
BCM.0> config save
BCM.0> reset
```

The value 0x30 in this case indicates that the Checkerboard and Inverse checkerboard memory tests should be run. The value is the logical OR of any of the following:

```
0x1  All zeroes pattern
0x2  All ones pattern
0x4  All 5s pattern
0x8  All As pattern
0x10  Checkerboard pattern
0x20  Inverted checkerboard
0x40  Data=Address pattern
0x80  Pseudo-random pattern
```

Running additional tests may catch more errors, but it may also dramatically slow down the execution of rc.soc since there is a lot of memory to be tested.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/cfapinit.txt

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sat.c,v 1.124 Broadcom SDK $
*
* SAT specific commands.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sat.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  merlin_dino_internal.c                                    *
*  Created On    :  13/02/2014                                                *
*  Created By    :  Justin Gaither                                            *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :  $Id: merlin_dino_internal.c 1346 2016-02-06 00:09:35Z kirand $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without         *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation         *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_internal.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.c,v 1.4.200.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE/BME implementation of Link Scan callbacks for SFI, SCI and SPI ports
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/common/link.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_lif_table.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_lif_table.h
*
* MODULE PREFIX:  soc_ppc_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_lif_table.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_app.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_app.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_frwrd_mact_mgmt.c,v 1.74 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_mact_mgmt.c
No license file was found, but licenses were detected in source scan.

```
#$Id: ktsanity_ecc_off.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Katana2 (BCM56450) ECC config
#
# Script to disable ECC specific to Katana.
#

if $?BCM56450_A0 \
   'local BCM56450 1'

m ING_BYPASS_CTRL ING_SW_ENC_DEC_TCAM=1
m EGR_BYPASS_CTRL EFP_SW_ENC_DEC_TCAM=1

s lls_soft_reset 0
s ctr_ecc_debug 0
s aging_ctr_ecc_control_ext 0
s aging_ctr_ecc_control_int 0
s aging_exp_ecc_control_ext 0
s aging_exp_ecc_control_int 0
s aging_lmt_ecc_control_ext 0
s aging_lmt_ecc_control_int 0
s ccpe_memdebug 0
s ccpi_memdebug 0
s cfape_ecc_debug 0
s cfapi_ecc_debug 0
#s intfi_ecc_debug 0
s rqe_global_config 0
s thdo_miscconfig 0
s lls_l0_ecc_debug 0
s lls_l0_ecc_debug1 0
s lls_l1_ecc_debug1 0
s lls_l2_ecc_debug1 0
s lls_l2_ecc_debug2 0
s lls_l2_ecc_debug3 0
s lls_error_ecc_debug 0
s lls_config0 0
m lls_fc_config fc_cfg_disable_l2_normal_xoff_47_0=0 fc_cfg_disable_l2_cosmask_xoff=1
s DEQ_ECC_DEBUG 0

#if $?BCM56450 \
## 's EMC_ECC_DEBUG 0; \
```

```
#s CELLLINKEMEMDEBUG 0;'
#$done

s CELLLINKIMEMDEBUG 0
s MMU_ENQ_CFG_ECC_DEBUG_0 0
s MMU_ENQ_FAP_ECC_DEBUG_0 0
s TOQ_ECC_DEBUG 0
s MMU_ITE_CFG_ECC_DEBUG_0 0
s QSTRUCT_QENTRY_LOWER_ECC_DEBUG 0
s QSTRUCT_QENTRY_UPPER_ECC_DEBUG 0
s QSTRUCT_QBLOCK_NEXT_ECC_DEBUG 0
s QSTRUCT_FAP_STACK_ECC_DEBUG 0
s QSTRUCT_FAP_BITMAP_ECC_DEBUG 0
s wred_miscconfig 0
s miscconfig 0
m l3_entry_parity_control PARITY_EN=0
m l3_defip_data_parity_control PARITY_EN=0
m  MODPORT_MAP_MIRROR_PARITY_CONTROL PARITY_EN=0
m MY_STATION_DATA_PARITY_CONTROL PARITY_EN=0
s txlp_ecc_parity_control 0
s rxlp_ecc_parity_control 0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/kt2sanity_ecc_off.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_main.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* File:       set_tdm.c
* Purpose:     TDM algorithm
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/set_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_soc.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
```

```
* TDM soc header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/core/tdm_soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_u.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_u.i
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config-sbx-c3-1x100g-ilkn100.bcm,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 100g ILKN to 100g ILKN setup
#

load_firmware=1
lrp_bypass=0

#TDM 1x100G with wdrr
bcm88030_config=29

ucode_num_ports.0=1
ucode_port.port1.0=clport0.ce.0.0-1/0/192/3:il1.il100.0.0-1/64/128/1


#App reserved queue
app_queues_start=123
app_queues_num=2
config_queue123_tdm29=1000,1000,1000,500,200,200
config_queue124_tdm29=1000,1000,1000,500,200,200
```

```
#WDRR Weights
wdrr_weight_queue_49=16
wdrr_weight_queue_64=255
wdrr_weight_queue_65=255
wdrr_weight_queue_66=255
wdrr_weight_queue_67=255
wdrr_weight_queue_68=255
wdrr_weight_queue_69=255
wdrr_weight_queue_70=255
wdrr_weight_queue_71=255
wdrr_weight_queue_72=255
wdrr_weight_queue_73=255
wdrr_weight_queue_74=255
wdrr_weight_queue_75=255
wdrr_weight_queue_123=255
wdrr_weight_queue_124=1



xgxs_rx_lane_map_core0_ce0=0x1230
xgxs_rx_lane_map_core1_ce0=0x1032
xgxs_rx_lane_map_core2_ce0=0x1230

xgxs_tx_lane_map_core0_ce0=0x1032
xgxs_tx_lane_map_core1_ce0=0x3210
xgxs_tx_lane_map_core2_ce0=0x1032

phy_xaui_rx_polarity_flip_ce0=0x0bf9

phy_xaui_tx_polarity_flip_ce0=0x0cf3


#C3 Fabric side in TDM2 lane swap
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

#CXP to WC lane map
mld_lane_swap_lane23_ce0=5
mld_lane_swap_lane22_ce0=4
mld_lane_swap_lane21_ce0=3
mld_lane_swap_lane20_ce0=2
mld_lane_swap_lane19_ce0=1
```

```
mld_lane_swap_lane18_ce0=0
mld_lane_swap_lane17_ce0=23
mld_lane_swap_lane16_ce0=22
mld_lane_swap_lane15_ce0=13
mld_lane_swap_lane14_ce0=12
mld_lane_swap_lane13_ce0=11
mld_lane_swap_lane12_ce0=10
mld_lane_swap_lane11_ce0=9
mld_lane_swap_lane10_ce0=8
mld_lane_swap_lane9_ce0=7
mld_lane_swap_lane8_ce0=6
mld_lane_swap_lane7_ce0=21
mld_lane_swap_lane6_ce0=20
mld_lane_swap_lane5_ce0=19
mld_lane_swap_lane4_ce0=18
mld_lane_swap_lane3_ce0=17
mld_lane_swap_lane2_ce0=16
mld_lane_swap_lane1_ce0=15
mld_lane_swap_lane0_ce0=14

port_init_speed_il0=10312

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1


c3_ucode_path=/tftpboot/caladan3/sv/c3hppc/ucode

ddr3_tune_addrc_ci14=0x000000b0
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci14=0x96969696,0x96969696,0x94949494,0x94949494
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x0000079e
ddr3_tune_rd_dqs_ci14=0x99999494,0x99999b9b
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci14=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00979897,0x009d9e9c
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b2
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x94949494,0x94949494
```

ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x000007df
ddr3_tune_rd_dqs_ci12=0x93939494,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_dq_wl1_rp_ci12=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci12=0x84848484,0x84848484,0x83838383,0x83838383
ddr3_tune_rd_en_ci12=0x009d9c9e,0x00999a99
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000b3
ddr3_tune_wr_dq_wl1_ci10=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci10=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x0000079e
ddr3_tune_rd_dqs_ci10=0x97979999,0x99999494
ddr3_tune_rd_dq_wl1_rn_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rn_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci10=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl0_rp_ci10=0x8a8a8a8a,0x8a8a8a8a,0x89898989,0x89898989
ddr3_tune_rd_en_ci10=0x00a5a4a6,0x00a1a3a0
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x94949494,0x94949494,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci8=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000075d
ddr3_tune_rd_dqs_ci8=0x99999a9a,0x9a9a9a9a
ddr3_tune_rd_dq_wl1_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci8=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci8=0x00999a99,0x009c9d9b
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b4
ddr3_tune_wr_dq_wl1_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci6=0x95959595,0x95959595,0x95959595,0x95959595
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x000007df
ddr3_tune_rd_dqs_ci6=0x9a9a9595,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6=0x8c8c8c8c,0x8c8c8c8c,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci6=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci6=0x009b9c9b,0x00999a98
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b3
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x95959595,0x95959595

```
ddr3_tune_wr_dq_wl0_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x000007df
ddr3_tune_rd_dqs_ci4=0x97979898,0x99999898
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci4=0x009d9d9e,0x009a9b99
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x0000079e
ddr3_tune_rd_dqs_ci2=0x9a9a9595,0x98989898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci2=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009fa09f,0x00a3a5a2
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x97979b9b,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rn_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl0_rp_ci0=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci0=0x00a3a3a3,0x009fa09e
ddr3_tune_rd_data_dly_ci0=0x00000404
ddr3_auto_tune=0
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-nj-1x100g-ilkn100.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_eyescan.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNXF FABRIC H
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/dnxf_eyescan.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_field_bfd_ipv6_single_hop.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_bfd_ipv6_single_hop.c
* Purpose: pmf stage in bfd single hop extended solution.
*   stamp the trap qualifier to be the oam_id
*   stamp the oam offset to be equal to the start of BFD header
*
* Usage:
* Enable soc property bfd_ipv6_mode (together with all other oam soc properties)
*
* Add PMF rule using cint: cint_field_bfd_ipv6_single_hop.c function:bfd_ipv6_single_hop_field_action
*
* Add bfd endpoint by calling bcm_bfd_endpoint_create with:
* type= bcmBFDTunnelTypeUdp
* flags |= BCM_BFD_ENDPOINT_IN_HW
* without BCM_BFD_ENDPOINT_MULTIHOP
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_bfd_ipv6_single_hop.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_ingress_traffic_mgmt.c,v 1.85 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_ingress_traffic_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer_multicast_fabric.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/JER/jer_multicast_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdpll_outputs.c, Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tdpll_outputs.c
*
* Purpose: Telecom DPLL output clock (synthesizer) configuration and management.
*
* Functions:
*     bcm_tdpll_output_clock_init
*     bcm_tdpll_output_clock_enable_get
*     bcm_tdpll_output_clock_enable_set
*     bcm_tdpll_output_clock_synth_frequency_get
*     bcm_tdpll_output_clock_synth_frequency_set
*     bcm_tdpll_output_clock_deriv_frequency_get
*     bcm_tdpll_output_clock_deriv_frequency_set
*     bcm_tdpll_output_clock_holdover_data_get
*     bcm_tdpll_output_clock_holdover_frequency_set
*     bcm_tdpll_output_clock_holdover_mode_get
*     bcm_tdpll_output_clock_holdover_mode_set
*     bcm_tdpll_output_clock_holdover_reset
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/tdpll_outputs.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_dram.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_dram.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
* Bradley supports two additional COS queues for high priority flow
* control (QM queue) and system control (SC queue.) Currently API
* access to these two queues is blocked since they do not participate
* in regular queue scheduling (they are both always using strict
* priority.) Likewise, internal priorities 14 and 15 are reserved
* for use with these two COS queues. This means that the COS mapping
* API will allow mapping of 14 internal priorities to the 8 normal
* COS queues.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bradley/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tqmod_cfg_seq.c,v 1.1.2.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : tqmod_cfg_seq.c
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/tier1/tqmod_cfg_seq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lm75.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM56xx I2C Device Driver for National Semiconductor LM75
* The LM75 is a temperature sensor, Delta-Sigma ADC, and digital
```

```
* over-temp detector with an I2C bus interface. The host can query
* the LM75 at any time to read the temperature. For more information,
* see the National Semiconductor LM75 Datasheet.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/lm75.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_vec.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM vector library for BCM56960
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk/tdm_th_vec.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: configSdkPost.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* Description: This file configure the VxWorks kernel to includes
*          additional components necessary for SDK.
*          Includes this file immediately after configAll.h
*          in your BSP config.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/configSdkPost.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/configSdkPost.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_pmf_low_level_ce.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_pmf_low_level.h
*
```

```
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcpmf
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_pmf_low_level_ce.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpOneBitEntry.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpIpOneBitEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hotswap_to_12x10g.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/hotswap_to_12x10g.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: Make.linux,v 1.18 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Common make targets for Linux user and kernel builds included by top
# level Linux makefiles
#
```

```
# Variables referenced:
#
# LINUX_MAKE_FLAGS
#   Additional flags passed to Make
#
# LINUX_MAKE_USER
#   Defined: user build
#   Undefined: kernel build
#
# LINUX_MAKE_DIR
#   Common makefile location, if it is not ../common
#
#

export DEST_DIR_SUFFIX :=$(subst $(realpath $(SDK))/systems,,$(realpath $(CURDIR)/$(dir ($(firstword
$(MAKEFILE_LIST))))))

ifeq (,$(kernel_version))
kernel_version=2_4
endif

ifndef LINUX_MAKE_SHARED_LIB
LINUX_MAKE_SHARED_LIB=0
endif

ifeq (,$(SHAREDLIBVER))
SHAREDLIBVER=1
endif

ifndef LINUX_MAKE_DIR
ifdef LINUX_MAKE_USER
LINUX_MAKE_DIR := $(SDK)/systems/linux/user/common
else
LINUX_MAKE_DIR := $(SDK)/systems/linux/kernel/common
endif
endif

ifdef LINUX_MAKE_USER
 CMD = $(LINUX_MAKE_FLAGS) -C $(LINUX_MAKE_DIR) \
      platform=$(platform) bldroot_suffix=/$(platform) kernel_version=$(kernel_version) \
      LINUX_MAKE_SHARED_LIB=$(LINUX_MAKE_SHARED_LIB)
SHAREDLIBVER=$(SHAREDLIBVER)
else
 export LINUX_MAKE_KERNEL := 1
 CMD = $(LINUX_MAKE_FLAGS) -C $(LINUX_MAKE_DIR) \
      platform=$(platform) kernel_version=$(kernel_version)
endif
```

```
ifneq (,$(MIPS_TOOLS_DIR))
 CMD += MIPS_TOOLS_DIR=$(MIPS_TOOLS_DIR)
endif

ifneq (,$(MIPS_CROSS_COMPILE))
 CMD += MIPS_CROSS_COMPILE=$(MIPS_CROSS_COMPILE)
endif

ifneq (,$(LINUX_INCLUDE))
 CMD += LINUX_INCLUDE=$(LINUX_INCLUDE)
endif

# gmake does not understand $(CMD) to be a submake
# options are to +$(CMD) or $(MAKE) $(CMD)
# trying the latter
build:
 $(MAKE) $(CMD)

DELIVER clean C_COMPILER CXX_COMPILER variable mod bcm user:
 $(MAKE) $(CMD) $@

clean_d: clean

distclean:
 $(MAKE) $(CMD) $@

.PHONY: build clean distclean clean_d DELIVER variable mod bcm user
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.linux
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 942 2015-03-02 22:28:21Z jgaither $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                 *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without       *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                            *
*  All information contained in this document is Broadcom Corporation       *
*  company private proprietary, and trade secret.                           *
```

```
*                                                                      *
*************************************************************************
*************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_drv.h,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_drv.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy8703.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8703.c
* Purpose:    Phys driver support for Broadcom Serial 10Gig
*             transceiver with XAUI interface.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy8703.c
No license file was found, but licenses were detected in source scan.

```
/*************************************************************************************
*************************************************************************************
*  File Name     :  eagle2_tsc2pll_internal.c                                      *
*  Created On    :  13/02/2014                                                     *
*  Created By    :  Justin Gaither                                                 *
*  Description   :  APIs for Serdes IPs                                            *
*  Revision      :  $Id: eagle2_tsc2pll_internal.c 1490 2016-08-11 22:26:06Z cvazquez $ *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                        *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_internal_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy522xcdiag.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy522x.c
* Purpose: Broadcom 522x phy driver
*     Supports 5218, 5220/5221, 5226, 5228, 5238, 5248
*      and phy5324(8 ports 10/100 PHY, bcm5324 built-in)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy522xcdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: cmdlist.h,v 1.178 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cmdlist.h
* Purpose: Extern declarations for command functions and
*      their associated usage strings.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/cmdlist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: allocator.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allocator.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/allocator.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE3200 INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe3200/fe3200_intr_db.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_qos_l3.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Cint VPLS QOS Setup example code
```

```
*
*
* This CINT example try to provide a specific examples of VPLS QOS application:
*  1. In case of VPLS termination, map EXP to PCP Ethernet header.
*     a. Have In-PWE COS-profile settings TC = MPLS.EXP
*     b. Set EVE to take TC to PCP.
*  2. In case of VPLS encapsulation, map PCP to EXP
*     a. At the ingress: Map PCP -> Ingress TC
*     b. At the egress: Out-DSCP-EXP = TC (by HW)
*     c. Set PWE.Encapsulation = Out-DSCP-EXP (uniform)
*
* In the specific example we map PCP 1:1 EXP values
* Note: Application works from ARAD-B and above.
*
* copy to /usr/local/sbin location, run bcm.user
* Run script:
*
* cint /src/examples/dpp/utility/cint_utils_global.c
* cint /src/examples/dpp/utility/cint_utils_multicast.c
* cint /src/examples/dpp/utility/cint_utils_vlan.c
* cint /src/examples/dpp/utility/cint_utils_l3.c
* cint /src/examples/dpp/utility/cint_utils_mpls.c
* cint /src/examples/dpp/utility/cint_utils_mpls_port.c
* cint /src/examples/dpp/cint_port_tpid.c
* cint /src/examples/dpp/cint_advanced_vlan_translation_mode.c
* cint /src/examples/dpp/cint_vswitch_metro_mp.c
* cint /src/examples/dpp/cint_multi_device_utils.c
* cint /src/examples/dpp/cint_vswitch_cross_connect_p2p_multi_device.c
* cint /src/examples/dpp/cint_qos_vpls.c

* c
* int nof_units = 1;
* int units[2] = {0, 0};
* int sysport1, sysport2;
* print port_to_system_port(units[0], 13, &sysport1);
* print port_to_system_port(units[0], 14, &sysport2);
* qos_cross_connect_enable(units[0]);
* qos_map_vpls(units[0]);
* run(units,1,sysport1,2,0,0,sysport2,1,0,0,0);
* bcm_qos_port_map_set(units[0], cross_connect_info.vlan_port_2, qos_map_id_vpls_ingress_get(units[0]),
qos_map_id_vpls_pcp_egress_get(units[0]));
* bcm_qos_port_map_set(units[0], cross_connect_info.mpls_port_1.mpls_port_id,
qos_map_id_vpls_ingress_get(units[0]), -1);
*
* For Uniform configuration set:
* cross_connect_info.is_uniform=1;
*
* Traffic example:
```

```
*  Send AC to PWE:
*  Ethernet DA1 , SA1 , VLAN: TPID 0x8100 , VID 100, PCP X
*  Expect:
*  Ethernet DA1 , SA1
*  PWE LABEL 40 EXP X
*  MPLS LABEL 20, EXP 2
*  MPLS LABEL 40, EXP 4
*  Ethernet DA 00:00:00:00:00:22, SA 00:00:00:00:00:11
*
*  Send PWE to AC:
*  Ethernet DA 00:00:00:00:00:11 SA2, VID 10
*  PWE LABEL 20 EXP X
*  Ethernet DA1, SA1, VID 10
*
*  tx 1 psrc=201
data=0x000000000110000201f82478100000a8847003e744000014740000007fc595b0000ef6dab158100000a0899
c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5
*
*  Expect:
*  Ethernet DA1, SA1, VID 1000, PCP X
*  0x000007fc595b0000ef6dab15810043e80899c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5c5
*
*  In case of Uniform model expect MPLS EXP on the packet.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_qos_vpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_status.c,v 1.9.48.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON WARM BOOT
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_warm_boot.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_stat_if.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

```
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_stat_if.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcstat
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_stat_if.h
No license file was found, but licenses were detected in source scan.

```
/* ----------------------------------------------------------------------
**
** $Id: sbPayloadMgr.h,v 1.7 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbPayloadMgr.h: payload memory manager interface
**
** ----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbPayloadMgr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pe_mode.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/pe_mode.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.h,v 1.2.10.11.2.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.h
* Purpose:     PORT internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnxf/port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dfe/port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_res_bitmap.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_res_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_diag.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ppd/ui_ppd_api_diag.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fmf.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dpp/UserInterface/ui_fmf.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_frwrd_ilm.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ARAD/ARAD_PP/src/arad_pp_api_frwrd_ilm.c
*
* MODULE PREFIX:  arad_pp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_frwrd_ilm.c
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: ocm_c.stg,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/t3p1/t3p1_defs.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ddr.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwFetchDataEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwFetchDataEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	rx.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/rx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/rx.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod_cfg_seq.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
```

```
*----------------------------------------------------------------------
* File       : tqmod_cfg_seq.h
* Description: c functions implementing Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/qsgmiie/tier1/tqmod_cfg_seq.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_lif_table.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_lif_table.c
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# ARAD (BCM88650) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*

#Clear test statistics
tc *

#Display some useful information
date
##########################################################################
```

```
#Start Test
echo "Running tr 141"
tr 141 r=1
$done

echo 'Running tr 141 NoAttach=1';
tr 141 NoAttach=1;
echo '   Done';date


echo 'Running tr 141 ErrorOnLeak=1';
tr 141 ErrorOnLeak=1;
echo '   Done';date

echo 'Running: tr 141 NoInit=1 , than: tr 141 NoDenit=1';
tr 141 NoInit=1 NoAttach=1;
tr 141 NoDeinit=1 NoAttach=1;
echo '   Done';date

echo "Running tr 141 (warmboot)"
tr 141 repeat=1 Warmboot=1
$done

### CPU Packet (tr 40)
# Dont use fabric
tr 141; \
s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1

# Port 0 -> static forwarding to port 0exit
mod IHP_PINFO_LLR 0 1 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7; \
mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x40063
FWD_ACT_DESTINATION_OVERWRITE=1; \
s CMIC_CMC0_CH1_COS_CTRL_RX_0 0xffffffff; \
s CMIC_CMC0_CH1_COS_CTRL_RX_1 0xffffffff

echo 'Send packet (tr 40)...'; \
tr 40 Tagged=true LengthStart=128 LengthEnd=164 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:0c:00:01:00:00 MacSrc=00:00:00:e3:00:00 UseFile=false; \
echo '   Done';date;

echo 'Running PCI Compliance (tr 2)...'; \
tr 2; \
echo '   Done';date;

echo 'Running PCI S-Channel Buf (tr 4)...'; \
tr 4; \
echo '   Done';date;
```

```
echo 'Running Register read/write (tr 3)...'; \
tr 3 ; \
echo '   Done';date;

echo 'TR 30 ...'; \
tr 30; \
echo '   Done';date;

echo 'TR 31 ...'; \
tr 31; \
echo '   Done';date;


echo 'tr 60 ...'; \
tr 60; \
echo '   Done';date;

echo 'tr 50 m=MMU_IDF, EGQ_DSP_PTR_MAP ...'; \
tr 50 m=MMU_IDF; \
tr 50 m=EGQ_DSP_PTR_MAP; \
echo '   Done';date;

echo 'tr 51 m=MMU_IDF, IHB_FWD_ACT_PROFILE, EGQ_PCT...'; \
tr 51 m=MMU_IDF; \
tr 51 m=IHB_FWD_ACT_PROFILE; \
tr 51 m=EGQ_PCT; \
echo '   Done';date;

echo 'tr 52 m=MMU_IDF, IPS_QTYPE...'; \
tr 52 m=MMU_IDF; \
tr 52 m=IPS_QTYPE; \
echo '   Done';date;

echo 'tr 71 m=IDR_OCB_BUFFER_TYPE, EGQ_PPCT...'; \
tr 71 m=IDR_OCB_BUFFER_TYPE; \
tr 71 m=EGQ_PPCT; \
echo '   Done';date;

echo 'Memory R/W first & last test (tr 7)...'; \
tr 7; \
echo '   Done';date;

echo 'Memory flip flop test (tr 8)...'; \
tr 8; \
echo '   Done';date;

echo 'Running Register reset defaults (tr 1) ...'; \
```

```
tr 1; \
echo '   Done';date;

tr 141 NoPktRx=1; \
echo 'TX reload test(tr 90)...'; \
tr 90; \
echo '   Done';date;

echo 'RX reload test(tr 91)...'; \
tr 91; \
echo '   Done';date;

echo 'Packet receive test(tr 41)...'; \
tr 41; \
echo '   Done';date;

echo 'Dram bist test (tr 140)...';
tr 140 DramNdx=0xff AllAdress=1;
echo '   Done';date


#### Temporary Remove ####
# Skipped TR 152 on Jericho until SDK-77698 is fixed.
#Start Cache Mem Test
#echo "Running Cache Mem Tests "
#tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0
#tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0

if $?BCM88650_A0 || $?BCM88650_B0 || $?BCM88660_A0 " \
  echo 'Running Cache Mem Tests (tr 152) '; \
  tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0; \
  tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0; \
  echo '   Done';date; "

#Test ac-mp lif and tunnel termination lif learning information encoding
echo 'ac-mp lif and tunnel termination lif learning info encoding (tr 155)...'; \
tr 155; \
echo '   Done';date;

#ser test for all memories
echo 'ser test for all memories (tr 153)...'; \
tr 153 RunAll=1; \
echo '   Done';date;

##########################################################################

date
tl
```

```
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88650sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*  Firmware Version : falcon2_madura_D10B_13
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/slave_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer_mgmt.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_fe200.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_fe200.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* File: jer_egr_queuing.c
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_egr_queuing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_nif.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_sch.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: shmoo_and28_rl3.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* 28nm RL3 PHY Support
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shmoo_and28_rl3.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaEgMemShapingEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemShapingEntryConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: esmif.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: tcam.c
* Purpose: Initialize serial link to external TCAM
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/esw/triumph3/esmif.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* This software simulator can emulate basic register access for the
* TSC/Merlin16 SerDes PHY.
*
* The simulator suppor both IEEE clause 22/45 access and Broadcom
* proprietary SBUS access.
*
* Clause 22 address format:
*   Bits [4:0]   : Clause 22 register address
*   Bits [31:5]  : Unused
*
* Clause 45 address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [20:16] : Clause 45 DEVAD
*   Bits [23:21] : Clause 45 indicator (001b)
*   Bits [31:24] : Unused
*
* SBUS address format:
*   Bits [15:0]  : Clause 45 register address
*   Bits [18:16] : Lane control
*   Bits [26:19] : Lane multicast (old format)
*   Bits [31:27] : Clause 45 DEVAD
*
* The upper 16 bits if the SBUS address format is identical to the
* Broadcom Address Extension Register (AER) format.
*
* The clause 45 indicator serves two purposes which is to ensure that
* the upper 16 bits are never zero for a clause 45 address, but it
* also makes it possible for the PHY bus driver to distinguish
* between a clause 45 DEVAD and the old AER multicast format.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/sim/chip/tsce16_sim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_llp_vid_assign.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_llp_vid_assign.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_h.stg,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* t3p1_tmu.h: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_tmu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_intr_init.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement soc interrupt handler.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_intr_init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_cell_snake_test.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC CELL SNAKE TEST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_fabric_cell_snake_test.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Property Names (Autogenerated)
*
* DO NOT EDIT THIS FILE. Your changes will be lost
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/soc_property_vars.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/property.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54684.c,v 1.67 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54684.c
* Purpose:     PHY driver for BCM54684
*
* Supported BCM546X Family of PHY devices:
*
*     Device  Ports   Media                        MAC Interface
*     54684   8       Copper, Serdes               SGMII
*
* Workarounds:
*
* References:
* 54684-DS00-RDS.pdf        BCM54684 Data Sheet
* MCS54684-ES100-RDS.pdf    Octal 1000/100/10BASE-T Gigabit Ethernet Transceiver
*
*    +----------+   +---------------------------+
*    |         |  |           +->Copper      |<--> Magnetic
*    |  SGMII   |<->| SGMII    <-+             |
*    | (SerDes) |  |           |             |
*    |         |  |           +->SGMII/      |<--> (PHY)SFP (10/100/1000)
*    +----------+   |              1000BASE-X/ |<--> 1000BASE-X SFP
```

```
*       MAC       |             100BASE-FX  |<--> 100BASE-FX SFP
*               |                   |
*               |                   |
*               +--------------------------+
*                       54684
*
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54684.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashFsLib.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/flashFsLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupts_handler.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/interrupts/interrupts_handler.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_diag.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_diag.c
*
* MODULE PREFIX:  ppc
*
* FILE DESCRIPTION:
```

```
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_diag.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 4x10g+2xhg10+16x1g setup
#

## TBD: what's the laneswap and polarity for ge ports?
##

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

#
# ucode ports definition
# - how to define hg10 ports and channels on it
#
ucode_num_port_override.0=1
ucode_num_ports.0=40
ucode_port.port1.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port2.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port3.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port4.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port5.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port6.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port7.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port8.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port9.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port10.0=clport0.hg10.0.0-1:il1.il50n.0.0-1
ucode_port.port11.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port12.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port13.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port14.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
```

```
ucode_port.port15.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port16.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port17.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port18.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port19.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port20.0=clport0.hg10.0.1-1:il1.il50n.0.1-1
ucode_port.port21.0=clport0.xe.0.2:il1.il50n.0.2
ucode_port.port22.0=clport0.xe.0.3:il1.il50n.0.3
ucode_port.port23.0=clport0.xe.1.0:il1.il50n.0.4
ucode_port.port24.0=clport0.xe.1.1:il1.il50n.0.5
ucode_port.port25.0=xtport1.ge.0.8:il1.il50n.0.6
ucode_port.port26.0=xtport1.ge.0.9:il1.il50n.0.7
ucode_port.port27.0=xtport1.ge.0.10:il1.il50n.0.8
ucode_port.port28.0=xtport1.ge.0.11:il1.il50n.0.9
ucode_port.port29.0=xtport2.ge.0.0:il1.il50n.0.10
ucode_port.port30.0=xtport2.ge.0.1:il1.il50n.0.11
ucode_port.port31.0=xtport2.ge.0.2:il1.il50n.0.12
ucode_port.port32.0=xtport2.ge.0.3:il1.il50n.0.13
ucode_port.port33.0=xtport2.ge.0.4:il1.il50n.0.14
ucode_port.port34.0=xtport2.ge.0.5:il1.il50n.0.15
ucode_port.port35.0=xtport2.ge.0.6:il1.il50n.0.16
ucode_port.port36.0=xtport2.ge.0.7:il1.il50n.0.17
ucode_port.port37.0=xtport2.ge.0.8:il1.il50n.0.18
ucode_port.port38.0=xtport2.ge.0.9:il1.il50n.0.19
ucode_port.port39.0=xtport2.ge.0.10:il1.il50n.0.20
ucode_port.port40.0=xtport2.ge.0.11:il1.il50n.0.21

diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1

#lane mapping for wc0
xgxs_rx_lane_map_hg0=0x1230
xgxs_tx_lane_map_hg0=0x1032

#lane mapping for wc1
xgxs_rx_lane_map_xe2=0x1032
xgxs_tx_lane_map_xe2=0x3210

#lane mapping for wc2
xgxs_rx_lane_map_ge0=0x1032
xgxs_tx_lane_map_ge0=0x3210

#polarity flip for 10G ports
phy_xaui_rx_polarity_flip_hg0=0x0001
phy_xaui_rx_polarity_flip_hg10=0x0000
phy_xaui_rx_polarity_flip_xe0=0x0000
phy_xaui_rx_polarity_flip_xe1=0x0001
```

```
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001

phy_xaui_tx_polarity_flip_hg0=0x0001
phy_xaui_tx_polarity_flip_hg10=0x0001
phy_xaui_tx_polarity_flip_xe0=0x0000
phy_xaui_tx_polarity_flip_xe1=0x0000
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001

phy_xaui_rx_polarity_flip_ge=0x0001

phy_port_primary_and_offset_ge0=0x2000
phy_port_primary_and_offset_ge1=0x2001
phy_port_primary_and_offset_ge2=0x2002
phy_port_primary_and_offset_ge3=0x2003
phy_port_primary_and_offset_ge4=0x2004
phy_port_primary_and_offset_ge5=0x2005
phy_port_primary_and_offset_ge6=0x2006
phy_port_primary_and_offset_ge7=0x2007
phy_port_primary_and_offset_ge8=0x2800
phy_port_primary_and_offset_ge9=0x2801
phy_port_primary_and_offset_ge10=0x2802
phy_port_primary_and_offset_ge11=0x2803
phy_port_primary_and_offset_ge12=0x2804
phy_port_primary_and_offset_ge13=0x2805
phy_port_primary_and_offset_ge14=0x2806
phy_port_primary_and_offset_ge15=0x2807
phy_fiber_pref_ge=1
phy_automedium_ge=1

#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312
higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg10=1

# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
```

```
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0

#
# ddr tuning result, auto-generated then saved
#
ddr3_tune_addrc_ci14=0x000000ae
ddr3_tune_wr_dq_wl1_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci14=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci14=0x80808080
ddr3_tune_vref_ci14=0x00000820
ddr3_tune_rd_dqs_ci14=0x99999494,0x96969999
ddr3_tune_rd_dq_wl1_rn_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci14=0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci14=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci14=0x00989997,0x009a9b9a
ddr3_tune_rd_data_dly_ci14=0x00000404
ddr3_tune_addrc_ci12=0x000000b1
ddr3_tune_wr_dq_wl1_ci12=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci12=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci12=0x80808080
ddr3_tune_vref_ci12=0x0000079e
ddr3_tune_rd_dqs_ci12=0x98989999,0x98989494
ddr3_tune_rd_dq_wl1_rn_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rp_ci12=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci12=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci12=0x009b9b9c,0x00979996
ddr3_tune_rd_data_dly_ci12=0x00000404
ddr3_tune_addrc_ci10=0x000000af
ddr3_tune_wr_dq_wl1_ci10=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci10=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci10=0x80808080
ddr3_tune_vref_ci10=0x000007df
ddr3_tune_rd_dqs_ci10=0x98989797,0x98989292
ddr3_tune_rd_dq_wl1_rn_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_rd_dq_wl1_rp_ci10=0x83838383,0x83838383,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci10=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci10=0x00a2a3a2,0x009fa19d
ddr3_tune_rd_data_dly_ci10=0x00000404
ddr3_tune_addrc_ci8=0x000000b1
ddr3_tune_wr_dq_wl1_ci8=0x93939393,0x93939393,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci8=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci8=0x80808080
ddr3_tune_vref_ci8=0x0000079e
ddr3_tune_rd_dqs_ci8=0x9a9a9999,0x99999797
ddr3_tune_rd_dq_wl1_rn_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl1_rp_ci8=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci8=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_en_ci8=0x00969796,0x00999b98
ddr3_tune_rd_data_dly_ci8=0x00000404
ddr3_tune_addrc_ci6=0x000000b3
ddr3_tune_wr_dq_wl1_ci6=0x93939393,0x93939393,0x95959595,0x95959595
ddr3_tune_wr_dq_wl0_ci6=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci6=0x80808080
ddr3_tune_vref_ci6=0x0000079e
ddr3_tune_rd_dqs_ci6=0x93939292,0x98989999
ddr3_tune_rd_dq_wl1_rn_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rn_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci6=0x89898989,0x89898989,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl0_rp_ci6=0x82828282,0x82828282,0x84848484,0x84848484
ddr3_tune_rd_en_ci6=0x00999a99,0x00979896
ddr3_tune_rd_data_dly_ci6=0x00000404
ddr3_tune_addrc_ci4=0x000000b2
ddr3_tune_wr_dq_wl1_ci4=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci4=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_wr_dq_ci4=0x80808080
ddr3_tune_vref_ci4=0x0000079e
ddr3_tune_rd_dqs_ci4=0x9a9a9595,0x9a9a9999
ddr3_tune_rd_dq_wl1_rn_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rn_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_dq_wl1_rp_ci4=0x8a8a8a8a,0x8a8a8a8a,0x8d8d8d8d,0x8d8d8d8d
ddr3_tune_rd_dq_wl0_rp_ci4=0x84848484,0x84848484,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_rd_en_ci4=0x009c9d9c,0x00999a98
ddr3_tune_rd_data_dly_ci4=0x00000404
ddr3_tune_addrc_ci2=0x000000b2
ddr3_tune_wr_dq_wl1_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_wl0_ci2=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_wr_dq_ci2=0x80808080
ddr3_tune_vref_ci2=0x000007df
ddr3_tune_rd_dqs_ci2=0x97979797,0x97979898
ddr3_tune_rd_dq_wl1_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

```
ddr3_tune_rd_dq_wl1_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rp_ci2=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_en_ci2=0x009e9e9f,0x00a3a3a3
ddr3_tune_rd_data_dly_ci2=0x00000404
ddr3_tune_addrc_ci0=0x000000b2
ddr3_tune_wr_dq_wl1_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_wl0_ci0=0x94949494,0x94949494,0x94949494,0x94949494
ddr3_tune_wr_dq_ci0=0x80808080
ddr3_tune_vref_ci0=0x000007df
ddr3_tune_rd_dqs_ci0=0x94949393,0x92929595
ddr3_tune_rd_dq_wl1_rn_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rn_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci0=0x89898989,0x89898989,0x83838383,0x83838383
ddr3_tune_rd_dq_wl0_rp_ci0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_en_ci0=0x00a1a1a1,0x009c9d9c
ddr3_tune_rd_data_dly_ci0=0x00000404
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_2xhg10_16x1g-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  Revision      :  $Id: falcon_tsc_enum.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                             *
*  Description   :  Enum types used by Serdes API functions                  *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: ramon_intr_db.c, v1 16/06/2014 09:55:39 azarrin $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC RAMON INTERRUPT DATABASE
* Auto Generated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_intr_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
```

2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224080a093281f4c03fd8000
224080a093281f4d03fda000
224080a093281f4e03fdc000
224080a093281f4f03fde000

224080a093281f4803fd0000
224080a093281f4903fd2000
224080a093281f4a03fd4000
224080a093281f4b03fd6000
224080a093281f4403fc8000
224080a093281f4503fca000
224080a093281f4603fcc000
224080a093281f4703fce000
224080a093281f4003fc0000
224080a093281f4103fc2000
224080a093281f4203fc4000
224080a093281f4303fc6000
224080a2ffe81330027f8000
24c4007dffe0000000000000
22408061ffe81f5403fe8000
22408061ffe81f5503fea000
22408061ffe81f5603fec000
22408061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22408068fff01ff400000000
22408068fff01ff500000000
22408068fff01ff600000000
22408068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
2240806fffe81f5003fe0000
2240806fffe81f5103fe2000
2240806fffe81f5203fe4000
2240806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22408076fff01ff000000000
22408076fff01ff100000000
22408076fff01ff200000000
22408076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
224080a6ffe81f2d03ff6000
224080a6ffe81f2c03ff4000
224080a6ffe81f2b03ff2000

224080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000
224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241015093281f4c03fd8000
4241015093281f4d03fda000
4241015093281f4e03fdc000
4241015093281f4f03fde000
4241015093281f4803fd0000
4241015093281f4903fd2000
4241015093281f4a03fd4000
4241015093281f4b03fd6000
4241015093281f4403fc8000
4241015093281f4503fca000
4241015093281f4603fcc000
4241015093281f4703fce000
4241015093281f4003fc0000
4241015093281f4103fc2000
4241015093281f4203fc4000
4241015093281f4303fc6000
42410152ffe81330027f8000
42410154ffe81f5403fe8000
42410154ffe81f5503fea000
42410154ffe81f5603fec000

42410154ffe81f5703fee000
42410154ffe81f5003fe0000
42410154ffe81f5103fe2000
42410154ffe81f5203fe4000
42410154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42410156ffe81f2d03ff6000
42410156ffe81f2c03ff4000
42410156ffe81f2b03ff2000
42410156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000
42410158ffe81f5803e30000
42410158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000
2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000
2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 1
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101

27fc0036ffe81f3403e10001
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c171c38ffe0003000000000
281e10b893381f0700000000
ff800000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
224088a6ffe81f2d03ff6000
224088a6ffe81f2c03ff4000
224088a6ffe81f2b03ff2000
224088a6ffe81f2a03ff0000
253f03a2fff100a200000001
224088a093281f4c03fd8000
224088a093281f4d03fda000
224088a093281f4e03fdc000
224088a093281f4f03fde000
224088a093281f4803fd0000
224088a093281f4903fd2000
224088a093281f4a03fd4000
224088a093281f4b03fd6000
224088a093281f4403fc8000
224088a093281f4503fca000

224088a093281f4603fcc000
224088a093281f4703fce000
224088a093281f4003fc0000
224088a093281f4103fc2000
224088a093281f4203fc4000
224088a093281f4303fc6000
224088a2ffe81330027f8000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
224088a4ffe81f5403fe8000
224088a4ffe81f5503fea000
224088a4ffe81f5603fec000
224088a4ffe81f5703fee000
224088a4ffe81f5003fe0000
224088a4ffe81f5103fe2000
224088a4ffe81f5203fe4000
224088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000

24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000
224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000
228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000

44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b8fff81f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000

44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42410950ffe81f4c03fd8000
42410950ffe81f4d03fda000
42410950ffe81f4e03fdc000
42410950ffe81f4f03fde000
42410950ffe81f4803fd0000
42410950ffe81f4903fd2000
42410950ffe81f4a03fd4000
42410950ffe81f4b03fd6000
42410950ffe81f4403fc8000
42410950ffe81f4503fca000
42410950ffe81f4603fcc000
42410950ffe81f4703fce000
42410950ffe81f4003fc0000
42410950ffe81f4103fc2000
42410950ffe81f4203fc4000
42410950ffe81f4303fc6000
42410952ffe81330027f8000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000

44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42410954ffe81f5403fe8000
42410954ffe81f5503fea000
42410954ffe81f5603fec000
42410954ffe81f5703fee000
42410954ffe81f5003fe0000
42410954ffe81f5103fe2000
42410954ffe81f5203fe4000
42410954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410956ffe81f2d03ff6000
42410956ffe81f2c03ff4000
42410956ffe81f2b03ff2000
42410956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000

2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42410958ffe81f6003e40000
42410958ffe81f6103e42000
42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000
42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000

2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000
24c41f58fff01f0dee110000
2240899dffe81f5803e30000
24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000
2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000
2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000

```
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 2
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff108aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff208aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
```

ff8000000000000000000000
2280902e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228090aaffe0000000000000
2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
224090a093281f4803fd0000
224090a093281f4903fd2000
224090a093281f4a03fd4000
224090a093281f4b03fd6000
224090a093281f4403fc8000
224090a093281f4503fca000
224090a093281f4603fcc000
224090a093281f4703fce000
224090a2ffe81330027f8000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000

24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
224090a4ffe81f5403fe8000
224090a4ffe81f5503fea000
224090a4ffe81f5603fec000
224090a4ffe81f5703fee000
224090a4ffe81f5003fe0000
224090a4ffe81f5103fe2000
224090a4ffe81f5203fe4000
224090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a6ffe81f2d03ff6000
224090a6ffe81f2c03ff4000
224090a6ffe81f2b03ff2000
224090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000
228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241115093281f4c03fd8000
4241115093281f4d03fda000
4241115093281f4e03fdc000
4241115093281f4f03fde000
4241115093281f4803fd0000
4241115093281f4903fd2000
4241115093281f4a03fd4000
4241115093281f4b03fd6000
4241115093281f4403fc8000
4241115093281f4503fca000
4241115093281f4603fcc000
4241115093281f4703fce000
4241115093281f4003fc0000
4241115093281f4103fc2000
4241115093281f4203fc4000
4241115093281f4303fc6000
42411152ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411156ffe81f2d03ff6000
42411156ffe81f2c03ff4000
42411156ffe81f2b03ff2000
42411156ffe81f2a03ff0000
44c41f50fff3070a11100000

44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42411154ffe81f5403fe8000
42411154ffe81f5503fea000
42411154ffe81f5603fec000
42411154ffe81f5703fee000
42411154ffe81f5003fe0000
42411154ffe81f5103fe2000
42411154ffe81f5203fe4000
42411154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000

453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42411158ffe81f6603e4c000
42411158ffe81f6703e4e000
000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000
4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000

2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000
24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000
2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 3
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000030000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff8000000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
```

24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224098a093281f4c03fd8000
224098a093281f4d03fda000
224098a093281f4e03fdc000
224098a093281f4f03fde000
224098a093281f4803fd0000
224098a093281f4903fd2000
224098a093281f4a03fd4000
224098a093281f4b03fd6000
224098a093281f4403fc8000
224098a093281f4503fca000
224098a093281f4603fcc000
224098a093281f4703fce000
224098a093281f4003fc0000
224098a093281f4103fc2000
224098a093281f4203fc4000
224098a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22409861ffe81f5403fe8000
22409861ffe81f5503fea000
22409861ffe81f5603fec000
22409861ffe81f5703fee000

24c440a2ffe0000000000001
22809869ffe0000000000000
22409868fff01ff400000000
22409868fff01ff500000000
22409868fff01ff600000000
22409868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
2240986fffe81f5003fe0000
2240986fffe81f5103fe2000
2240986fffe81f5203fe4000
2240986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22409876fff01ff000000000
22409876fff01ff100000000
22409876fff01ff200000000
22409876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
224098a8ffe81330027f8000
224098a4ffe81f2d03ff6000
224098a4ffe81f2c03ff4000
224098a4ffe81f2b03ff2000
224098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000

224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000
224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000
245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000
245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000

44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
481204b8fff81f0400000000
481608b8fff81f0500000000
481a0cb8fff81f0600000000
4c930c38ffe0003800000000
481e10b8fff81f0700000000
ff8000000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000

44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42411950ffe81f4c03fd8000
42411950ffe81f4d03fda000
42411950ffe81f4e03fdc000
42411950ffe81f4f03fde000
42411950ffe81f4803fd0000
42411950ffe81f4903fd2000
42411950ffe81f4a03fd4000
42411950ffe81f4b03fd6000
42411950ffe81f4403fc8000
42411950ffe81f4503fca000
42411950ffe81f4603fcc000
42411950ffe81f4703fce000
42411950ffe81f4003fc0000
42411950ffe81f4103fc2000
42411950ffe81f4203fc4000
42411950ffe81f4303fc6000
42411952ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411956ffe81f2d03ff6000
42411956ffe81f2c03ff4000
42411956ffe81f2b03ff2000
42411956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000

44c50b53fff00b0a00000000
42411954ffe81f5403fe8000
42411954ffe81f5503fea000
42411954ffe81f5603fec000
42411954ffe81f5703fee000
42411954ffe81f5003fe0000
42411954ffe81f5103fe2000
42411954ffe81f5203fe4000
42411954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000

42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000
44c41f15fff01f1540000000
4281195dffe0000000000000
44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000

2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240999dffe81f6003e40000
24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000
2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000

2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f06fff28baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281214b893381f0400000000
29141820fff81f1100000000
281a18b893381f0600000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000

24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000
24c41f46fff01f0633360000
24c41f47fff01f0644460000
24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
2240a0a093281f4c03fd8000
2240a0a093281f4d03fda000
2240a0a093281f4e03fdc000
2240a0a093281f4f03fde000
2240a0a093281f4803fd0000
2240a0a093281f4903fd2000
2240a0a093281f4a03fd4000
2240a0a093281f4b03fd6000
2240a0a093281f4403fc8000
2240a0a093281f4503fca000
2240a0a093281f4603fcc000
2240a0a093281f4703fce000
2240a0a093281f4003fc0000
2240a0a093281f4103fc2000
2240a0a093281f4203fc4000
2240a0a093281f4303fc6000
2240a0a2ffe81330027f8000
24c4007dffe0000000000000
2240a061ffe81f5403fe8000
2240a061ffe81f5503fea000
2240a061ffe81f5603fec000
2240a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
2240a068fff01ff400000000
2240a068fff01ff500000000
2240a068fff01ff600000000
2240a068fff01ff700000000

24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000
24c4007dffe0000000000001
2240a06fffe81f5003fe0000
2240a06fffe81f5103fe2000
2240a06fffe81f5203fe4000
2240a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
2240a076fff01ff000000000
2240a076fff01ff100000000
2240a076fff01ff200000000
2240a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
2240a0a6ffe81f2d03ff6000
2240a0a6ffe81f2c03ff4000
2240a0a6ffe81f2b03ff2000
2240a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000

000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555

4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000

44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241215093281f4c03fd8000
4241215093281f4d03fda000
4241215093281f4e03fdc000
4241215093281f4f03fde000
4241215093281f4803fd0000
4241215093281f4903fd2000
4241215093281f4a03fd4000
4241215093281f4b03fd6000
4241215093281f4403fc8000
4241215093281f4503fca000
4241215093281f4603fcc000
4241215093281f4703fce000
4241215093281f4003fc0000
4241215093281f4103fc2000
4241215093281f4203fc4000
4241215093281f4303fc6000
42412152ffe81330027f8000
42412154ffe81f5403fe8000
42412154ffe81f5503fea000
42412154ffe81f5603fec000
42412154ffe81f5703fee000
42412154ffe81f5003fe0000
42412154ffe81f5103fe2000
42412154ffe81f5203fe4000
42412154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42412156ffe81f2d03ff6000
42412156ffe81f2c03ff4000
42412156ffe81f2b03ff2000
42412156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff

4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
4c991122ffe0003000000000
4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000

4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000
44c41f15fff01f1504000000
4281215dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000

2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000
24c41f63fff01f12ff660000
2240a19dffe81f6303e46000
24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000
2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c130c38ffe0003400000000
281e10b893381f0700000000
ff8000000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000

24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c41f54fff00f28888c0000
24c41f55fff00f28007c0000
24c41f56ffe0000000000000
24c41f57ffe0000000000000
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe0000000000000
24c41f53ffe0000000000000
245900a2fff01f3911223344
253f03a2fff100a200000001
245900a2fff01f3855667788
2240a8a093281f4c03fd8000
2240a8a093281f4d03fda000
2240a8a093281f4e03fdc000
2240a8a093281f4f03fde000
2240a8a093281f4803fd0000
2240a8a093281f4903fd2000
2240a8a093281f4a03fd4000
2240a8a093281f4b03fd6000
2240a8a093281f4403fc8000
2240a8a093281f4503fca000
2240a8a093281f4603fcc000
2240a8a093281f4703fce000
2240a8a093281f4003fc0000
2240a8a093281f4103fc2000
2240a8a093281f4203fc4000
2240a8a093281f4303fc6000
2240a8a2ffe81330027f8000
2240a8a4ffe81f5403fe8000
2240a8a4ffe81f5503fea000
2240a8a4ffe81f5603fec000
2240a8a4ffe81f5703fee000
2240a8a4ffe81f5003fe0000
2240a8a4ffe81f5103fe2000
2240a8a4ffe81f5203fe4000
2240a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000

2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001
245900a2fff01f3900003344
253f03a2fff100a200000001
245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc
253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001

253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000
2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000
24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000
2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000

49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
4c171c38ffe0005000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481204b893381f0400000000
481624b893381f0500000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000
44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241295093281f4c03fd8000
4241295093281f4d03fda000

4241295093281f4e03fdc000
4241295093281f4f03fde000
4241295093281f4803fd0000
4241295093281f4903fd2000
4241295093281f4a03fd4000
4241295093281f4b03fd6000
4241295093281f4403fc8000
4241295093281f4503fca000
4241295093281f4603fcc000
4241295093281f4703fce000
4241295093281f4003fc0000
4241295093281f4103fc2000
4241295093281f4203fc4000
4241295093281f4303fc6000
42412952ffe81330027f8000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42412954ffe81f5403fe8000
42412954ffe81f5503fea000
42412954ffe81f5603fec000
42412954ffe81f5703fee000
42412954ffe81f5003fe0000
42412954ffe81f5103fe2000
42412954ffe81f5203fe4000
42412954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42412956ffe81f2d03ff6000

42412956ffe81f2c03ff4000
42412956ffe81f2b03ff2000
42412956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000
42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000

44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428129a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000
2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000

2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 6
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000

29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000

24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240b0a093281f4803fd0000
2240b0a093281f4903fd2000
2240b0a093281f4a03fd4000
2240b0a093281f4b03fd6000
2240b0a093281f4403fc8000
2240b0a093281f4503fca000
2240b0a093281f4603fcc000
2240b0a093281f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a2ffe81330027f8000
24c4007dffe0000000000000
2240b061ffe81f5403fe8000
2240b061ffe81f5503fea000
2240b061ffe81f5603fec000
2240b061ffe81f5703fee000
24c440a2ffe0000000000001
2280b069ffe0000000000000
2240b068fff01ff400000000
2240b068fff01ff500000000
2240b068fff01ff600000000
2240b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
2240b06fffe81f5003fe0000
2240b06fffe81f5103fe2000
2240b06fffe81f5203fe4000
2240b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
2240b076fff01ff000000000
2240b076fff01ff100000000

2240b076fff01ff200000000
2240b076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b077ffe0000000000000
24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
2240b0a6ffe81f2d03ff6000
2240b0a6ffe81f2c03ff4000
2240b0a6ffe81f2b03ff2000
2240b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000
2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000

2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000
24c41f15fff01f1520000000
2280b0adffe0000000000000
24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309

47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241315093281f4c03fd8000
4241315093281f4d03fda000
4241315093281f4e03fdc000
4241315093281f4f03fde000
4241315093281f4803fd0000
4241315093281f4903fd2000
4241315093281f4a03fd4000
4241315093281f4b03fd6000

4241315093281f4403fc8000
4241315093281f4503fca000
4241315093281f4603fcc000
4241315093281f4703fce000
4241315093281f4003fc0000
4241315093281f4103fc2000
4241315093281f4203fc4000
4241315093281f4303fc6000
42413152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413156ffe81f2d03ff6000
42413156ffe81f2c03ff4000
42413156ffe81f2b03ff2000
42413156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42413154ffe81f5403fe8000
42413154ffe81f5503fea000
42413154ffe81f5603fec000
42413154ffe81f5703fee000
42413154ffe81f5003fe0000
42413154ffe81f5103fe2000
42413154ffe81f5203fe4000
42413154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000

44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000

24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000

2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000

24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff8000000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000

24c41f53fff20f0b00700000
2c171c38ffe0005000000000
2240b8a093281f4c03fd8000
2240b8a093281f4d03fda000
2240b8a093281f4e03fdc000
2240b8a093281f4f03fde000
2240b8a093281f4803fd0000
2240b8a093281f4903fd2000
2240b8a093281f4a03fd4000
2240b8a093281f4b03fd6000
2240b8a093281f4403fc8000
2240b8a093281f4503fca000
2240b8a093281f4603fcc000
2240b8a093281f4703fce000
2240b8a093281f4003fc0000
2240b8a093281f4103fc2000
2240b8a093281f4203fc4000
2240b8a093281f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
2240b861ffe81f5403fe8000
2240b861ffe81f5503fea000
2240b861ffe81f5603fec000
2240b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
2240b868fff01ff400000000
2240b868fff01ff500000000
2240b868fff01ff600000000
2240b868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
2240b86fffe81f5003fe0000
2240b86fffe81f5103fe2000
2240b86fffe81f5203fe4000
2240b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
2240b876fff01ff000000000
2240b876fff01ff100000000
2240b876fff01ff200000000
2240b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001

2240b8a2fff8007d00000000
2c171c76ffe0006000000000
2240b8a8ffe81330027f8000
2240b8a4ffe81f2d03ff6000
2240b8a4ffe81f2c03ff4000
2240b8a4ffe81f2b03ff2000
2240b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001
253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000

2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000

000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428138de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241395093281f4c03fd8000
4241395093281f4d03fda000
4241395093281f4e03fdc000
4241395093281f4f03fde000
4241395093281f4803fd0000
4241395093281f4903fd2000
4241395093281f4a03fd4000
4241395093281f4b03fd6000
4241395093281f4403fc8000
4241395093281f4503fca000
4241395093281f4603fcc000
4241395093281f4703fce000
4241395093281f4003fc0000
4241395093281f4103fc2000

4241395093281f4203fc4000
4241395093281f4303fc6000
42413952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413956ffe81f2d03ff6000
42413956ffe81f2c03ff4000
42413956ffe81f2b03ff2000
42413956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42413954ffe81f5403fe8000
42413954ffe81f5503fea000
42413954ffe81f5603fec000
42413954ffe81f5703fee000
42413954ffe81f5003fe0000
42413954ffe81f5103fe2000
42413954ffe81f5203fe4000
42413954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000

4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000
2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000
4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000

24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000
2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000

2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000

2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
2240c0a093281f4c03fd8000
2240c0a093281f4d03fda000
2240c0a093281f4e03fdc000
2240c0a093281f4f03fde000

2240c0a093281f4803fd0000
2240c0a093281f4903fd2000
2240c0a093281f4a03fd4000
2240c0a093281f4b03fd6000
2240c0a093281f4403fc8000
2240c0a093281f4503fca000
2240c0a093281f4603fcc000
2240c0a093281f4703fce000
2240c0a093281f4003fc0000
2240c0a093281f4103fc2000
2240c0a093281f4203fc4000
2240c0a093281f4303fc6000
2240c0a2ffe81330027f8000
24c4007dffe0000000000000
2240c061ffe81f5403fe8000
2240c061ffe81f5503fea000
2240c061ffe81f5603fec000
2240c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
2240c068fff01ff400000000
2240c068fff01ff500000000
2240c068fff01ff600000000
2240c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
2240c06fffe81f5003fe0000
2240c06fffe81f5103fe2000
2240c06fffe81f5203fe4000
2240c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
2240c076fff01ff000000000
2240c076fff01ff100000000
2240c076fff01ff200000000
2240c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
2240c0a6ffe81f2d03ff6000
2240c0a6ffe81f2c03ff4000
2240c0a6ffe81f2b03ff2000

2240c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000
2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000

290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000

4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241415093281f4c03fd8000
4241415093281f4d03fda000
4241415093281f4e03fdc000
4241415093281f4f03fde000
4241415093281f4803fd0000
4241415093281f4903fd2000
4241415093281f4a03fd4000
4241415093281f4b03fd6000
4241415093281f4403fc8000
4241415093281f4503fca000
4241415093281f4603fcc000
4241415093281f4703fce000
4241415093281f4003fc0000
4241415093281f4103fc2000
4241415093281f4203fc4000
4241415093281f4303fc6000
42414152ffe81330027f8000
42414154ffe81f5403fe8000
42414154ffe81f5503fea000
42414154ffe81f5603fec000

42414154ffe81f5703fee000
42414154ffe81f5003fe0000
42414154ffe81f5103fe2000
42414154ffe81f5203fe4000
42414154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42414156ffe81f2d03ff6000
42414156ffe81f2c03ff4000
42414156ffe81f2b03ff2000
42414156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000

44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000
42414158ffe81f5803e30000
42414158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000

29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000
2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000
2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000

24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 9
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff108aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff208aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106

27fc0036ffe81f3403e10006
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555
2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2240c8a093281f4c03fd8000
2240c8a093281f4d03fda000
2240c8a093281f4e03fdc000
2240c8a093281f4f03fde000
2240c8a093281f4803fd0000
2240c8a093281f4903fd2000
2240c8a093281f4a03fd4000
2240c8a093281f4b03fd6000
2240c8a093281f4403fc8000
2240c8a093281f4503fca000
2240c8a093281f4603fcc000
2240c8a093281f4703fce000

2240c8a093281f4003fc0000
2240c8a093281f4103fc2000
2240c8a093281f4203fc4000
2240c8a093281f4303fc6000
2240c8a2ffe81330027f8000
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
2240c8a4ffe81f5403fe8000
2240c8a4ffe81f5503fea000
2240c8a4ffe81f5603fec000
2240c8a4ffe81f5703fee000
2240c8a4ffe81f5003fe0000
2240c8a4ffe81f5103fe2000
2240c8a4ffe81f5203fe4000
2240c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000

24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000
2c130c79ffe0005800000000
2c130c78ffe0005c00000000
2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000
2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000
2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000

44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b893381f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000

44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000
44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241495093281f4c03fd8000
4241495093281f4d03fda000
4241495093281f4e03fdc000
4241495093281f4f03fde000
4241495093281f4803fd0000
4241495093281f4903fd2000
4241495093281f4a03fd4000
4241495093281f4b03fd6000
4241495093281f4403fc8000
4241495093281f4503fca000
4241495093281f4603fcc000
4241495093281f4703fce000
4241495093281f4003fc0000
4241495093281f4103fc2000
4241495093281f4203fc4000
4241495093281f4303fc6000
42414952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000

44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42414954ffe81f5403fe8000
42414954ffe81f5503fea000
42414954ffe81f5603fec000
42414954ffe81f5703fee000
42414954ffe81f5003fe0000
42414954ffe81f5103fe2000
42414954ffe81f5203fe4000
42414954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414956ffe81f2d03ff6000
42414956ffe81f2c03ff4000
42414956ffe81f2b03ff2000
42414956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000

2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42414958ffe81f6003e40000
42414958ffe81f6103e42000
42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000

2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c99dffe81f5803e30000
24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000

2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 10
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000

ff8000000000000000000000
2280d02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d0aaffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d0a093281f4803fd0000
2240d0a093281f4903fd2000
2240d0a093281f4a03fd4000
2240d0a093281f4b03fd6000
2240d0a093281f4403fc8000
2240d0a093281f4503fca000
2240d0a093281f4603fcc000
2240d0a093281f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001

2240d0a2ffe81330027f8000
24c4007dffe0000000000000
2240d061ffe81f5403fe8000
2240d061ffe81f5503fea000
2240d061ffe81f5603fec000
2240d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
2240d068fff01ff400000000
2240d068fff01ff500000000
2240d068fff01ff600000000
2240d068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
2240d06fffe81f5003fe0000
2240d06fffe81f5103fe2000
2240d06fffe81f5203fe4000
2240d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
2240d076fff01ff000000000
2240d076fff01ff100000000
2240d076fff01ff200000000
2240d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001
22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
2240d0a6ffe81f2d03ff6000
2240d0a6ffe81f2c03ff4000
2240d0a6ffe81f2b03ff2000
2240d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000

24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000
2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000

44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000

44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241515093281f4c03fd8000
4241515093281f4d03fda000
4241515093281f4e03fdc000
4241515093281f4f03fde000
4241515093281f4803fd0000
4241515093281f4903fd2000
4241515093281f4a03fd4000
4241515093281f4b03fd6000
4241515093281f4403fc8000
4241515093281f4503fca000
4241515093281f4603fcc000
4241515093281f4703fce000
4241515093281f4003fc0000
4241515093281f4103fc2000
4241515093281f4203fc4000
4241515093281f4303fc6000
42415152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415156ffe81f2d03ff6000
42415156ffe81f2c03ff4000
42415156ffe81f2b03ff2000
42415156ffe81f2a03ff0000
44c41f50fff3070a11100000

44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42415154ffe81f5403fe8000
42415154ffe81f5503fea000
42415154ffe81f5603fec000
42415154ffe81f5703fee000
42415154ffe81f5003fe0000
42415154ffe81f5103fe2000
42415154ffe81f5203fe4000
42415154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000

4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415158ffe81f6603e4c000
42415158ffe81f6703e4e000
42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000
4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000

2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000
2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 11
ff800000000000000000000
24c660a2ffe0000000000001
24c620a2ffe0000000000000
24c41f40ffe000003fff003f
2cd30c40ffe0002000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2803343effe0000100000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
22c0d9a0fff81f3e00000000
24801f3efff01f3e00007fff
44c41f08ffe0000000000000

44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f0affe0000000000000
44c41f14fff00baa00000000
44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
49081816fff81f0c00000000
49041818fff81f0d00000000
28032c00ffe0000000000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000

44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
22c0d8cdfff81f0000000000
000000000000000000000000
4241595093281f4c03fd8000
4241595093281f4d03fda000
4241595093281f4e03fdc000
4241595093281f4f03fde000
4241595093281f4803fd0000
4241595093281f4903fd2000
4241595093281f4a03fd4000
4241595093281f4b03fd6000
4241595093281f4403fc8000
4241595093281f4503fca000
4241595093281f4603fcc000
4241595093281f4703fce000
4241595093281f4003fc0000
4241595093281f4103fc2000
4241595093281f4203fc4000
4241595093281f4303fc6000
42415952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415956ffe81f2d03ff6000
42415956ffe81f2c03ff4000
42415956ffe81f2b03ff2000
42415956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000

44c50b53fff00b0a00000000
42415954ffe81f5403fe8000
42415954ffe81f5503fea000
42415954ffe81f5603fec000
42415954ffe81f5703fee000
42415954ffe81f5003fe0000
42415954ffe81f5103fe2000
42415954ffe81f5203fe4000
42415954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
29288000ffe81f4003e7c000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000

000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000
44c41f15fff01f1540000000
4281595dffe0000000000000
44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f08ffe0000000000054
24c41f09ffe0000000000000
24c41f34ffe0000080000000
24c41f35ffe0000000000088
24c41f36ffe0000080000111
24c41f37ffe0000080000199
24c41f4effe0000000000003
24c56f08fff00f0000000000
24c56f34fff00f0000000000
24c56f35fff00f0000000000
24c56f36fff00f0000000000
24c56f37fff00f0000000000
27fc00b0ffe81fb003e0430e
27fc0056ffe81f0a03e5c20e
27fc0052ffe81f2803e9c10e
27fc0036ffe81f3403e1000e
24c41f15fff00f0000000000
ffc00000000000000000000
2280d9761540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d99cffe0000000000000
000000000000000000000000
24c41f08ffe0000000000000
24c41f09ffe0000000000000
24c41f34ffe0000000000000
24c41f35ffe0000000000000
24c41f36ffe0000000000000
24c41f37ffe0000000000009
24c41f4effe0000000000000
000000000000000000000000

2280d81dffe0000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c703a2ffe0000000000001
290e007efff81f1500000000
000000000000000000000000
000000000000000000000000
24c620a2ffe0000000000001
24c6a1a2ffe0000000000003
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff8000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

//taskmap

```
00
00
00
00
00
00
00
00
00
00
00
```

00
00
00
00
00
00
00
00
00
00
00
ff
cf
ff
df
ff
ff
ff
ff
3f
fe
ff
ff
ff
ff
ff
ff
c3
ff
f3
ff
ff
ef
00
00
00
00
00
00
00
00
00

//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1_lrplearn.oasm
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_flow_control.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BM9600 Fabric Control API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/bm9600/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.30.20.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:    PORT CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: stat.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

* File:	stat.h
* Purpose:	stat internal definitions specific to FE2000 BCM library
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/stat.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: shr_res_bitmap.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_res_bitmap.h
No license file was found, but licenses were detected in source scan.

/* $Id: multicast_imp.h,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/multicast_imp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/multicast_imp.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: recovery.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* OAM Warm boot module
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/oam/recovery.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: ports_manager.c,v 1.38 Broadcom SDK $

```
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC PORTS MANAGER
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/NIF/ports_manager.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_ppd_api_eg_mirror.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_ppd_api_eg_mirror.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_furia_functions.c                                    *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  APIs for Serdes IPs                                         *
*  Revision      :  $Id: falcon_furia_functions.c 1017 2015-04-24 22:07:57Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without           *
*  the written permission of:                                                   *
*      Broadcom Corporation                                                     *
*      5300 California Avenue                                                   *
*      Irvine, CA  92617                                                        *
*                                                                               *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/furia/tier1/falcon_furia_src/falcon_furia_functions.c

No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_ing_protection.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_ing_protection.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: packet.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       packet.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/packet.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_os_interface.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_os_interface.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_os_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: etc_robo.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM53xx RoboSwitch utility functions
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/etc_robo.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_mem_access.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_mem_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_mem_access.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56960_a0.c
* Purpose:    bcm56960_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56960_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: serdes.c,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       serdes.c
* Purpose:    Defines common PHY driver routines for Broadcom SerDes core.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/serdes.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_madura_pll_config.c                                  *
*  Created On    :  2015-01-20                                                   *
*  Created By    :  Eric Roesinger                                               *
*  Description   :  Falcon2 Madura PLL Configuration API                         *
*  Revision      :  $Id: falcon2_madura_pll_config.c 1340 2016-02-04 22:50:01Z kirand $          *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                  *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*      Broadcom Corporation                                                      *
*      5300 California Avenue                                                    *
*      Irvine, CA  92617                                                         *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE FABRIC H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm-pcp-dma.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/bcm-pcp-dma/bcm-pcp-dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: draco.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       draco.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/draco.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_utils_l2.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file provides L2 basic functionality and defines L2 global variables
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/utility/cint_utils_l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpIpTwoBitEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaEpIpTwoBitEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/bcm_int/sbx/fe2000/oam/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_op_entry.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_op_entry.h
* Purpose:     CINT operator entries
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_op_entry.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* JER INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_intr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ledasm.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This is a simple assembler for the embedded processor used in the
* SM-Lite LED controller.  The particulars of the instruction set
* are documented elsewhere.
*
* As the programs for this processor will only be a few dozen bytes
* long, this assembler is not feature rich.  It does not support
* any type of modular assembly or linking.  It is assumed that the
* user will just use their favorite preprocess of macros are desired.
*
* The assembler operates in two passes.  The first pass builds symbol
* values, while the second pass actually does the assembly.
*
```

```
* Each line is of the form:
*
* <optlabel><tab><opcode><optargs><optcomment>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/tools/led/tools/ledasm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_pon_mact_limit.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_mact_limit.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: counter.h,v 1.53 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       counter.h
* Purpose:    Defines map of counter register addresses, as well
*             as structures and routines for driver management of
*             packet statistics counters.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/counter.h
No license file was found, but licenses were detected in source scan.

```
/**
*
* $Id: ocm_h.stg,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_defs.h: Guadalupe2k V1.3 microcode access routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
```

* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_defs.h
No license file was found, but licenses were detected in source scan.

/* $Id: utils_char_queue.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_char_queue.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: dfe_defs.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE DEFS H
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_defs.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: api_xlate_port.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM internal port translation functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/api_xlate_port.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_policer.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: POLICER APIs
*
* Purpose:
*     POLICER API for Packet Processor devices
*     Warm boot support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_policer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Utility routines for Bond Options Init & De-Init
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/bondoptions.c
No license file was found, but licenses were detected in source scan.

```
# $Id: th_traffic_tests.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Tomahawk Sanity - traffic tests
#
# Script to run traffic tests. Will be invoked by nightly regression
# infrastructure to verify various TH port configurations.

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
```

```
ts -*

echo "testsuite: started: sanity"
time 'rcload rc.soc'

# We need to print out port status since any cabling effects results.
*:ps

#Display some useful information
date
ver
soc

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off
memscan off

#MAC Loopback
echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 PortBitMap=xe
$done

echo "Testing MAC Loopback - 100 Gb/s all CE ports"
tr 18 PortBitMap=ce
$done

echo "Testing MAC Loopback - 106 Gb/s all HG ports"
tr 18 PortBitMap=hg
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 PortBitMap=xe
$done

echo "Testing PHY Loopback - 100 Gb/s all CE ports"
tr 19 PortBitMap=ce
$done

echo "Testing PHY Loopback - 106 Gb/s all HG ports"
tr 19 PortBitMap=hg
$done

echo "Running MAC loopback V2 on all ports ..."
```

```
tr 48 PortBitMap=ce,xe
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 PortBitMap=ce,xe
$done

#Internal snake Loopback
if !$?BCM56968_A0 && !$?BCM56968_B0 \
'echo "Running internal snake on all ports, MAC loopback ..."; tr 39 LoopbackMode=MAC snakepath=TWOways;
$done'

if !$?BCM56968_A0 && !$?BCM56968_B0 \
'echo "Running internal snake on all ports, PHY loopback ..."; tr 39 LoopbackMode=PHY snakepath=TWOways;
$done'

#Due to the profile management limitation Only support maximum 127 ports for the test;
#When there are 128 ports for the TH/TH+. PortSelectMode are uese to choose the 127 ports
#PortSelectMode=0(default):use 127 ports begin with firt port in ascending order for the new snake test
#PortSelectMode=1: use 127 ports begin with last port in descending order for the new snake test
#other PortSelectMode execpt 0 and 1 are invalid
if !$?BCM56968_A0 && !$?BCM56968_B0 \
'echo "Running internal snake on all ports, MAC loopback PortSelectMode=1 ..."; tr 39 LoopbackMode=MAC
snakepath=TWOways PortSelectMode=1; $done'

if !$?BCM56968_A0 && !$?BCM56968_B0 \
'echo "Running internal snake on all ports, PHY loopback PortSelectMode=1 ..."; tr 39 LoopbackMode=PHY
snakepath=TWOways PortSelectMode=1; $done'


if $?BCM56968_A0 || $?BCM56968_B0 \
'echo "Running internal snake on all XE ports, MAC loopback ..."; tr 39 LoopbackMode=MAC
snakepath=TWOways PortBitMap=xe; $done'

if $?BCM56968_A0 || $?BCM56968_B0 \
'echo "Running internal snake on all XE ports, PHY loopback ..."; tr 39 LoopbackMode=PHY
snakepath=TWOways PortBitMap=xe; $done'

#Traffic Test
echo "Running Traffic Test in MAC mode on XE ports..."
tr 72 RunMode=MAC PortBitMap=xe
$done

echo "Running Traffic Test in PHY mode on XE ports..."
tr 72 RunMode=PHY PortBitMap=xe
$done

echo "Running Traffic Test in MAC mode on CE ports..."
```

```
tr 72 RunMode=MAC PortBitMap=ce
$done

echo "Running Traffic Test in PHY mode on CE ports..."
tr 72 RunMode=PHY PortBitMap=ce
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/th_traffic_tests.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600LinkFailureInfoConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600LinkFailureInfoConsole.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56644sanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56640 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
```

```
# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x3c3ffffffffe

if $?BCM56644_A0 \
   'local pbmport $pbmge'
if $?BCM56644_A1 || $?BCM56644_B0 \
   'local pbmhg 0x3c000000000000; local pbmport 0x3fc3ffffffffe'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

tr3_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

echo "Testing CPU DMA loopback ..."
#tr 17
$done
```

```
#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

if !"expr $pbmxe + 0" \
      'echo "Testing MAC Loopback - 10 Gb/s all XE ports"; \
       tr 18 PortBitMap=$pbmxe Speed=10G; $done'

if !"expr $pbmhg + 0" \
      'echo "Testing MAC Loopback - 30 Gb/s all HG ports"; \
       tr 18 PortBitMap=$pbmhg Speed=30G; $done'

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

if !"expr $pbmxe + 0" \
      'echo "Testing PHY Loopback - 10 Gb/s all XE ports"; \
       tr 19 PortBitMap=$pbmxe Speed=10G; $done'

if !"expr $pbmhg + 0" \
      'echo "Testing PHY Loopback - 30 Gb/s all HG ports"; \
       tr 19 PortBitMap=$pbmhg Speed=30G; $done'

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
```

```
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

if !"expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, MAC loopback ..."; \
       tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe; $done'

if !"expr $pbmxe + 0" \
      'echo "Running internal snake on XE ports, PHY loopback ..."; \
       tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe; $done'

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done

if !"expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G; $done'

if !"expr $pbmxe + 0" \
      'echo "Running Traffic Test on XE ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G; $done'

if !"expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=30G; $done'

if !"expr $pbmhg + 0" \
      'echo "Running Traffic Test on HG ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=30G; $done'

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
```

```
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56644sanity.soc

No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_l3_src_bind.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_l3_src_bind.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ulink_pack.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ulink_pack.c
* Purpose:     ULINK pack and unpack routines for:
*              - ukernel link module
*
*
* ULINK control messages
*
* ULINK messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The ULINK control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/ulink_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy8806x_pe_api.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/phy8806x/phy8806x_pe_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: taps_util.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    taps_util.c
* Purpose: Caladan3 TAPS utility functions
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/tmu/taps/taps_util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_riot.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_riot.c
* Purpose: This file implements techsupport utility for
*          riot.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/riot/techsupport_riot.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon_tsc_functions.c                                    *
*  Created On    :  29/04/2013                                                *
*  Created By    :  Kiran Divakar                                             *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :  $Id: falcon_tsc_functions.c 1334 2016-01-28 01:06:11Z kirand $ *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
```

```
*     Irvine, CA  92617                                    *
*                                                          *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                          *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon/tier1/falcon_tsc_functions.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chip_sim_task.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_task.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: idxres_afl.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Indexed resource management, using banked lists
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/idxres_afl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ttcp.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/ttcp.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines MPLS constants
*
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to share  MPLS constants.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/mpls.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structures and functions declarations for
* In-band cell configuration and Source Routed Cell.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/regs_filter.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_multicast_imp.h,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_multicast_imp.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_r.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_r.i
No license file was found, but licenses were detected in source scan.

```
/*! \file simple_bitmap_wrap.h
*
* Internal DNX resource manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/res_mngr/simple_bitmap_wrap.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_dino_field_access.c                                          *
*  Created On    :  29/04/2013                                                           *
*  Created By    :  Kiran Divakar                                                        *
*  Description   :  APIs to access Serdes IP Registers and Reg fields                    *
*  Revision      :  $Id: falcon2_dino_field_access.c 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                        *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                           *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                            *
*      Broadcom Corporation                                                              *
*      5300 California Avenue                                                            *
*      Irvine, CA  92617                                                                 *
*                                                                                        *
*  All information contained in this document is Broadcom Corporation                    *
```

```
*  company private proprietary, and trade secret.                          *
*                                                                          *
****************************************************************************
****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_field_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbx_ddr_cmds.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sbx_ddr_cmds.c
* Purpose:     Handles DDR commands for SBX devices
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/sbx_ddr_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: FileTransTk.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     FileTransTk.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/FileTransTk.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dump.c,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag dump command
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/dump.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ipmc.c
* Purpose:     Tomahawk multicast replication implementation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNX FABRIC DIAG
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dfe/fabric.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQmQueueStateEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmQueueStateEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tunnel.h,v 1.5 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tunnel.h
* Purpose:     tunnel internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/tunnel.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_ingress_traffic_mgmt.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/jer_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************************
*****
*****************************************************************************************************
*****
*                                                                                                   *
*  Revision      :  $Id: eagle_merlin_api_uc_vars_rdwr_defns_public.h 947 2015-03-06 21:11:44Z kirand $ *
*                                                                                                   *
*  Description   :  Read/Write macros to Eagle/Merlin IP's uC RAM's User variables                  *
*                                                                                                   *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                      *
*  No portions of this material may be reproduced in any form without                               *
*  the written permission of:                                                                       *
*      Broadcom Corporation                                                                         *
*      5300 California Avenue                                                                       *
*      Irvine, CA  92617                                                                            *
*                                                                                                   *
*  All information contained in this document is Broadcom Corporation                               *
*  company private proprietary, and trade secret.                                                   *
*                                                                                                   *
*****************************************************************************************************
*****
*****************************************************************************************************
*****/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/public/eagle_merlin_api_uc_vars_rdwr_defns_public.h
No license file was found, but licenses were detected in source scan.

```
/*
* SROM format definition.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: bcmsrom_fmt.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmsrom_fmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibVITConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibVITConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.h
* Purpose:     Multiplexing of the bcm layer - For fabric element functions
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
* This code allows to use the same MBCM_DFE_DRIVER_CALL API independently of the chip type
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
```

```
*    MBCM is the multiplexed bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/mbcm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qe2000_scoreboard.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        qe2000_scoreboard.c
* Purpose:     ZScoreboard and Free Buffer Management module.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2000_scoreboard.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcmi2c.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmi2c.c
* Purpose: BCM I2C API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bcmi2c.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_eg_mirror.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_mirror.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_frwrd_fcf.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_fcf.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_extend_p2p.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sec.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/sec.c
No license file was found, but licenses were detected in source scan.

/* $Id: ui_pure_defi_swp_petra.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_swp_petra.h
No license file was found, but licenses were detected in source scan.

/* ----------
**
** $Id: sbPaylMgr.h,v 1.6 Broadcom SDK $
**
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** sbPaylMgr.h: payload memory manager public API
**
** ----------*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbPaylMgr.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pvtmon.c $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pvtmon.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/saber2/pvtmon.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allregs_d.i
* Purpose:     Independent register descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allregs_d.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/cosq.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: ci.h,v 1.4.6.2 Broadcom SDK $
*
* TMU CI defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/tmu/ci.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_fabric_flow_control.c,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 FABRIC FLOW CONTROL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_fabric_flow_control.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer2_jer2_tmc_api_flow_control.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_flow_control.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: arl.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: arl.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/arl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_td2p_proc.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip operations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/trident2p/tdm_td2p_proc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    rx.c
*
* Purpose:
*
* Functions:
*     _bcm_ptp_rx_init
*     _bcm_ptp_rx_stack_create
*     _bcm_ptp_rx_clock_create
*     _bcm_ptp_external_rx_response_free
*     _bcm_ptp_internal_rx_response_free
*     _bcm_ptp_rx_response_flush
*     _bcm_ptp_rx_response_get
*     _bcm_ptp_rx_thread
*     _bcm_ptp_rx_callback
*     _bcm_ptp_rx_message_destination_port_get
*     _bcm_ptp_rx_message_source_clock_identity_get
*     _bcm_ptp_rx_message_length_get
*     _bcm_ptp_register_management_callback
*     _bcm_ptp_register_event_callback
*     _bcm_ptp_register_signal_callback
```

```
*      _bcm_ptp_register_peers_callback
*      _bcm_ptp_register_fault_callback
*      _bcm_ptp_unregister_management_callback
*      _bcm_ptp_unregister_event_callback
*      _bcm_ptp_unregister_signal_callback
*      _bcm_ptp_unregister_peers_callback
*      _bcm_ptp_event_message_monitor
*      _bcm_ptp_signal_handler_default
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/vlan.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: test.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     test.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ea/test.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_mgmt.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_api_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_arad_pp_frwrd_ipv4_test.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ppd/ui_arad_pp_frwrd_ipv4_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bhh_pack.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bhh_pack.c
* Purpose:     BHH pack and unpack routines for:
*             - BHH Control messages
*             - Network Packet headers (PDUs)
*
*
* BHH control messages
*
* BHH messages between the Host CPU and uController are sent
* using the uc_message module which allows short messages
* to be passed (see include/soc/shared/mos_msg_common.h)
*
* Additional information for a given message (a long message) is passed
* using DMA.  The BHH control message types defines the format
* for these long messages.
*
* This file is shared between SDK and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/shared/bhh_pack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                 DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:           Generated on         Tue Dec  6 15:19:23 2011
*               MD5 Checksum         84dde632045f866a8fab58fb0f667b68
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  DDR40_PHY_ADDR_CTL   3
*               DDR40_PHY_WORD_LANE  04
*
* RDB Files:  /projects/ntsw-sw2/home/mbasoglu/sdk/src/soc/phy/regs/ddr40/ddr40_phy_top_blockdef.rdb
*           /projects/ntsw-sw2/home/mbasoglu/sdk/src/soc/phy/regs/ddr40/ddr40_phy_addr_ctl.rdb
*           /projects/ntsw-sw2/home/mbasoglu/sdk/src/soc/phy/regs/ddr40/ddr40_phy_word_lane.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/ddr40.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_property.c,v 1.68.6.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_property.c
No license file was found, but licenses were detected in source scan.

/*
* $Id:dnxf_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* This file is auto-generated by autoCoder
* DO NOT EDIT THIS FILE!
*
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/cmn/dnxf_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/ramon/ramon_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_config_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/cmn/dnxf_config_defs.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_config_defs.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: physim.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	simul.h
* Purpose:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/physim.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: mmuerr.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mmuerr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qux_intr.h, v1 16/06/2014 09:55:39 azarrin Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QUX INTERRUPTS H
* Auto jenerated by create_regs.pl
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QUX/qux_intr.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: acl.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Access Control Lists (ACL) related CLI commands.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/acl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Katana L3 function implementations
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana/l3.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: config.bcm,v 1.124 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Sample Properties file used for Broadcom StrataSwitch.
# Each entry in the file consists of a single line of the form:
# <Parameter>=<Value>
#
# See the file $SDK/doc/properties.txt for more documentation about how
# to use properties.
#
# To allow different properties for different units or chips,
# each property is looked up with the following suffixes in order:
# .<unit-num>  (e.g. "foo.0")
# .<CHIP_TYPE>  (e.g. foo.BCM5680_B0)
# .<CHIP_GROUP>  (e.g. foo.BCM5680)
# <nothing>  (e.g. foo)
#
# The per-port properties are looked up with various port related
# suffixes in the following order:
# _<port_name>  phy_null_fe0
# _<port_type>  phy_null_fe
# _port<port_number> phy_null_port1
# _<bcm_port_number>      phy_null_1
# <nothing>  phy_null
#
# <port_number> is counted from 1 up to the number of enabled ports on
# the chip (deprecated).
#
# <bcm_port_number> is the (untranslated) port number used in the BCM
# API. If port translation is enabled (INCLUDE_BCM_API_XLATE_PORT),
# then this port number should match the port number used on the
# driver side of the BCM dispatch layer.
#
# In order to support devices where the switch port number (as used in
# the BCM API) does not map directly to the physical port number (as
# described in the Programmer's Reference Guide), a special format
# exists to specify a physical port number:
# {<phys_port>}           phy_null{1}
#
# For PHY configuration parameters, the physical port format is
# extensible to support a specific PHY in a chain of multiple external
# PHYs:
```

```
# {<phys_port>.<phy_num>} phy_null{1.1}
#
# The <phy_num> parameter counts from the innermost PHY and outwards,
# such that the internal PHY (if present) is PHY number 0, the
# innermost external PHY is 1, and so forth.
#
# The PHY configuration format can be extended further to specify a
# PHY port (line side or system side) and optionally a specific lane:
# {<phys_port>[.<phy_num>[.<phy_port>[.<phy_lane]]]}
#
# For the <phy_port> parameter, use 0 for the line side and 1 for the
# system side.
#
# All the per-port properties also have the unit or chip based
# suffixes described above added as well.
#
# White space is NOT ignored, but blank lines are ignored.
# Lines starting with '#' are comments and are ignored.
#
# All properties not specified have default values.  Our convention
# here is to comment out properties that are best left at their
# default, and to show the default value in the comment when feasible.
#
# In the Broadcom Command Monitor, the 'config' command may be used to
# add and delete properties and manage them in non-volatile storage.
#

# Station mac address used for management through the switch ports
# itself. If using the CPU network interface, the NVRAM setting is used
# for MAC address assignment.

#station_mac_address=00:00:00:00:01:00

# Station IP address used for management through the switch ports
# itself. If using the CPU network interface, the NVRAM setting is used
# for IP address assignment.

#station_ip_address=192.168.1.0

# Station IP netmast used for management through the switch ports
# itself. If using the CPU network interface, the NVRAM setting is used
# for netmask assignment.

#station_ip_netmask=255.255.255.0

# Station host name used for management through the switch ports
# itself. If using the CPU network interface, the NVRAM setting is used
# for host name assignment.
```

```
#station_hostname=StrataSwitch

# Define default OS / SAL
#os=vxworks

# Enable polled IRQ mode (useful for board bringup and debugging).
# IRQs will be polled from a dedicated thread and hardware interrupts
# will remain disabled.
#polled_irq_mode=0

# The priority of the IRQ poll thread as well as the minimum delay
# between IRQ polls can be configured if needed.
#polled_irq_delay=0
#polled_irq_priority=100

#
# Board Configuration Properties
#
# These are not per-unit and are not used by the driver.
# They are used by scripts such as rc.soc and sanity.
#

# Black Knight
#black_knight=1

# White Knight (SDK5690P24S)
#white_knight=1

# Galahad (SDK5690R24)
#galahad=1

# Merlin (SDK5690R24S)
#merlin=1

# Lancelot (SDK5690R48S)
#lancelot=1

# Guenevere (BCM95695P24SX)
#guenevere=1

# Hercules 8-port (SDK5670K8)
#herc8=1

#
# Driver Configuration Properties
#
```

```
#Allow PLL bypass mode to be configured.
#pll_bypass.<unit-num>=0

# debug can be set to initial DK_XXX mask to use on booting.

#debug=0x10000

# If reload support is compiled in, the buffer size must be large enough
# for the platform.  Our worst-case platform is Herculynx with eight
# BCM5673s at nearly 300k apiece.

#reload_buffer_size=3145728
#reload_file_name=flash:reload.dat

# Allow filtering to be disabled in hardware if not being used.
# Also, tables will not be cleared which can save time in simulation.

#filter_enable=1

# MMU SDRAM configuration

#mmu_sdram_enable=1
#mmu_sdram_width=128

# For BCM5605, DLL values may need tuning.
#mmu_sdram_dll0=4
#mmu_sdram_dll1=0xd
#mmu_sdram_dll2=7

# For all other chips, DLL values should be 0.
#mmu_sdram_dll0=0
#mmu_sdram_dll1=0
#mmu_sdram_dll2=0

# Control 5615 MISCCONFIG2.SDCLK_133MHZ_EN (external vs internal SDRAM clock)
#mmu_sdram_clock_external=1

# HOLBLOCKINGMARKER and INGRESSBACKPRESSURE configuration.
# These can be used to set the initial value of these registers in
# StrataSwitch and G-Switch devices based on port type.

#mmu_hbm_fe=
#mmu_hbm_ge=
#mmu_hbm_cpu=
#mmu_ibp_fe=
#mmu_ibp_ge=
#mmu_ibp_cpu=
```

```
# L3 switching enable

#l3_enable=1
#ipmc_enable=1
#ipmc_do_vlan=1

# Trunk extension control
# For BCM5695, enables 128 trunk groups (affects HiGig header format).
# Currently, this property must be commented out (or =0) if non-BCM5695
# switch devices are connected via the HiGig port (fabric devices OK).
#trunk_extend=1

# Multicast ranges

# The Higig2 header format concatenates the broadcast, multicast, and
# IP multicast indices into one generic multicast index.  The mapping
# between the individual indices and the combined index is specified by
# these.  The default values are indicated.

# higig2_multicast_vlan_range=4096
# higig2_multicast_l2_range=4096
# higig2_multicast_l3_range=4096

# In BCM568xx and BCM567xx devices, the some L2 and L3 multicast
# information is stored in a shared resource.  These specify the
# division of this resource.

# multicast_l2_range=4096
# multicast_l3_range=4096

# pbmp_valid allows assigning a port bitmap of valid ports.
# Any port not in the bitmap is assumed to not exist.
# Default value is PBMP_ALL(unit), all ports including CPU.
# The cpu port cannot be disabled.
# For BCM5671 this now defaults to 0x14b automatically (ports 1,3,6,8,CPU).
#
#pbmp_valid.0=0x14b

# higig2_hdr_mode_<port> allows a HG port to default to HiGig2
# encapsulation, instead of HiGig.  This is only available on devices
# which support HiGig2.
#higig2_hdr_mode_hg0=1
# Uncomment the following line to make all HG ports default to HiGig2.
#higig2_hdr_mode=1


# pbmp_xport_xe is used to specify if a XPORT block is configured as xe port
# By default, an XPORT block is treated as HG port.
```

```
#pbmp_xport_xe.0=0x00000000
# Uncomment the following line instead to set all XPORTs to XE ports.
#pbmp_xport_xe.0=0x0f000000
# On 568xx devices, the XPORT block defaults to XE ports.  Uncomment the
# following line to change all ports to HG ports.  A specific bitmap
# may be provided to select some XE and some HG ports, with the set
# bits initialized to HG ports.  Note that HG and XE ports may be
# exchanged through the bcm_port_encap_set API.
#pbmp_xport_xe.0=0x00000000

# pbmp_gport_stack is used to specify if a stack capable GE port is
# configured as stack port
# By default, a stack capable GE port is configured as stack port.
#pbmp_gport_stack.0=0x00000006
# Uncomment the following line instead to set all GE ports as regular
# front panel Ethernet ports.
#pbmp_gport_stack.0=0x00000000

# pbmp_loopback is used to specify if a HIGIG/HIGIG-LITE port is
# configured as loopback port
# Uncomment the following line instead to set all HIGIG/HIGIG-LITE ports as regular
# front panel Ethernet ports.
#pbmp_loopback.0=0x3c000000

# If phy_enable is set to 0, all ports will use the null PHY driver.
# This is useful for simulations on Quickturn.

#phy_enable=1

# Override the MDIO bus address to access a phy for a particular port
#port_phy_addr_xe0.0=24

# If phy_null_<port> is set to 1, the port will use the null PHY driver.
# This is useful for configuring direct-connect GMII links such as the
# chip-to-chip links on a 48-port board (example shown for 48 port board).

#phy_null_ge0.0=1
#phy_null_ge1.1=1

# If phy_simul_<port> is set to 1, the port will use the simulation
# PHY driver.

#phy_simul_ge0.0=1
#phy_simul_ge1.1=1

# Turbo port configuration (example shown for 48 port board)
# Drive strength and phase control may be overridden from defaults.
# All are controllable on a per-port basis.
```

```
#turbo_ge0.0=1
#turbo_ge1.1=1
#turbo_drv=0
#turbo_phase=0

# I/O Voltage selection. (per-port controllable)
# BCM5645B0 and later default turbo_iov to 1 for 2.5V
# board design may require that gig_iov be 1 for 2.5V

#turbo_iov=0
#gig_iov=0

# TBI vs. GMII configuration

#if_tbi_ge0.0=1
#if_tbi_ge1.1=1

# Serdes Autonegotiation configuration
# This per-port parameter specifies what will happen if autonegotiation is
# on but the remote partner is not autonegotiating.  If the value is zero,
# we will not link.  If the value is non-zero, we will link.

#phy_serdes_autos=0

# Per-port parameter indicating the only PHY is 5690 SERDES directly
# connected to a fiber module.  This is needed on 24-port 5690 SDKs
# which have resistors configuration to bypass external 5434/5464.
# SERDES is used automatically if no PHY is detected on the MDIO.

#phy_5690_ge10=0
#phy_5690_ge11=0

# Per-port parameter indicating the only PHY is 56XXX SERDES directly
# connected to a fiber module.  This is needed on boards which have
# which have resistors configuration to bypass external 5434/5464.
# SERDES is used automatically if no PHY is detected on the MDIO.

#phy_56xxx_ge10=0
#phy_56xxx_ge11=0

# The per-port parameter phy_5464S must be set if a BCM5464S or 5464SR
# is used.  This is needed because the PHY device ID is the same for all
# of 5464/5464R/5464S/5464SR.

#phy_5464S_ge8=0
#phy_5464S_ge9=0
#phy_5464S_ge10=0
```

```
#phy_5464S_ge11=0

# The per-port parameter phy_8706 must be set if a BCM8706 or BCM8726
# is used. This is needed because the PHY device ID is the same for
# 8704/8706/8726.
#phy_8706_xe0=0

# Fiber vs. copper autodetection enable
#
# This property defaults to 1 for the 5421S and 5464S.
# This property defaults to 0 for the 5464.

#phy_automedium_ge0.0=1
#phy_automedium_ge1.1=1

# Fiber vs. copper preference
#
# When automedium is enabled, phy_fiber_pref indicates which medium to
# prefer if BOTH are active.  Selects fiber (1) or copper (0).
#
# When automedium is disabled, phy_fiber_pref indicates which medium to
# use.  Selects fiber (1) or copper (0).

#phy_fiber_pref_ge0.0=1
#phy_fiber_pref_ge1.1=1

# This parameter can be used to skip probing for an external PHY connected
# to a 5673 and just use the internal phy.
#phy_5673_xe0=0

# Per-port parameter on maximum time to wait for PHY autoneg busy condition.
#phy_autoneg_timeout=250000

# Per-port phy LED control values (currently only used by 546x phy driver)
# see 546x phy data sheets:
# ledN_mode are LED selector values from phy reg 0x1x[011101, 01110]
# led_ctrl is phy reg 0x1x[01001]
#phy_led1_mode=0
#phy_led2_mode=1
#phy_led3_mode=3
#phy_led4_mode=6
#phy_led_ctrl=0x8

# Per-port control of fiber signal detection (for 546x phys)
# 0 use the phy's default as signal detect
# 1 use PECL SD as signal detect (default on 5461)
# 4 use LED4 as signal detect (default on 5464)
# 10 use EN_10B as signal detect
```

```
# Negating value treats signal detect as loss of signal without
# needing an external inverter on the board
#
# In ROBO devices all fiber port through external GE PHY in SDK/SVK board were
#  designed as active low on the SD pin. Thus this property definition is
#  advised to set to 'phy_fiber_detect=-4' for the ROBO SDK/SVK board or
#  reference board of fiber medium through external PHY(546x and
#  5482 phys)
#phy_fiber_detect=1

# phy53115_a0 sw-workaround for the link issue at AN+100TX mode
# 0 disable this SW workaround.
# 1 enable this SW workaround.
#phy_53115_an100tx_war=0

# phy53115_b0 sw-workaround for the interoperability issue.
# 0 disable this SW workaround.
# 1 enable this SW workaround.
# --- This SW-WAR also active for fixing bcm53118_a0 at IOP problem.
#phy_53115_b0_iop_war=0

# Initial number of COS queues bcm_init() configures the chip for.
#bcm_num_cos=4

# XQ distribution weighting (relative) for each COSQ.
#
# Some SOC devices allow weighted distribution of XQs among the COSQs.
# The portion of a port's XQs allocated to any one COSQ is defined
# by that COSQ's weight value divided by the sum of all applicable
# weight values.
#
# A weight of 0 disables that COSQ. Non-zero weights must start at COSQ0
# and occupy contiguous COSQs.
#
# Ideally, the sum of all weight values should add up to the smallest
# power of 2 possible.

#mmu_xq_weight_cos0=1
#mmu_xq_weight_cos1=1
#mmu_xq_weight_cos2=1
#mmu_xq_weight_cos3=1
#mmu_xq_weight_cos4=1
#mmu_xq_weight_cos5=1
#mmu_xq_weight_cos6=1
#mmu_xq_weight_cos7=1

# Per-XQ packet aging.
#
```

```
# Some SOC devices allow independent packet aging behavior among the COSQs.
#
# An aging value of 0 disables packet aging for that COSQ. Non-zero values
# define the maximum age of a packet (for a COSQ), in milliseconds.
#
# The underlying hardware determines the supported granularity, as well
# as the maximum ratio of the longest aging value to the smallest
# (nonzero) aging value.

#mmu_xq_aging_cos0=1000
#mmu_xq_aging_cos1=1000
#mmu_xq_aging_cos2=1000
#mmu_xq_aging_cos3=1000
#mmu_xq_aging_cos4=1000
#mmu_xq_aging_cos5=1000
#mmu_xq_aging_cos6=1000
#mmu_xq_aging_cos7=1000

# MMU Configuration for 56500 style memory managers.
# Includes 56100, 56300, 56200, 53700 familes of devices.
#
# Default MMU xq (packet) controls allow for 8 queues to be used
# even less than 8 are currently configured.  If less than 8 queues
# will ever be used then the remaining queues mmu_xq_weight_cosN
# values should be set to 0.  A 4 queue configuration should set
# mmu_xq_weight_cosN=0 for N=4, 5, 6, 7.
#
# The defaults are indicated here.
#
#mmu_flow_percent=90
#    percentage of per-port cells useable
#    before flow control starts
#mmu_flow_fanin=4
#    number of simulteneous senders to each
#    port for flow control purposes
#mmu_red_drop_percent=60
#mmu_yellow_drop_percent=80
#    percentage of per-port/per-cos packets
#    used before red or yellow packets will
#    be dropped
#mmu_static_bytes=1536
#    per-port/per-cos static reserved limit.
#    Rounded up from bytes to next cell size.
#    Remaining cells are put in dynamic pool.
#    If 0, then mmu_static_percent is used.
#mmu_static_percent=50
#    Percentage of per-port/per-cos cells to
#    use as static reserved limit.
```

```
#    Remaining cells are put in dynamic pool.
#    Only used if mmu_static_bytes is 0.
#mmu_reset_bytes=3072
#    (1536 * 2)
#    offset from dynamic cell set limits for
#    reset (enable) limits.
#    Rounded up from bytes to next cell size.
#mmu_overcommit=1
#    non-stack port overcommit factor for
#    dynamic pool
#mmu_overcommit_stack=2
#    stack port overcommit factor for
#    dynamic pool.  If 0, then use the
#    mmu_overcommit value for stack ports

#
# Linkscan
#

# Specify ports on which bcm_init will run linkscan (default all).
#bcm_linkscan_pbmp=

# If non-zero, bcm_init() will start linkscan
#bcm_linkscan_interval=250000

# If linkscan detects more than bcm_linkscan_maxerr consecutive errors,
# then it disables scanning of that port for bcm_linkscan_errtime usec.
# This is mainly to prevent infinite error messages from scrolling by.
# Use bcm_linkscan_maxerr=0 to disable this feature.
#bcm_linkscan_maxerr=5
#bcm_linkscan_errdelay=10000000

#
# BCM Statistics Collection
#
# Set bitmap of ports on which stat collection will be enabled.
# Default is all ports.

#bcm_stat_pbmp=

# Set interval on which stat collection will be performed.
# Setting this to 0 will prevent counters from being started.
#bcm_stat_interval=1000000

# Flag values to be ORd together:
#   0x0 indicates that counter DMA should NOT be used
#   0x1 indicates that counter DMA should be used (default).
#bcm_stat_flags=0x1
```

```
# Threshold value for oversize (*OVR) frame size.
# Values over 1518 affect the *OVR statistics computation
#bcm_stat_jumbo=1518

# Size of ARL DMA buffer

#arldma_size=1024

# Timeout for hardware-accelerated ARL delete operations including:
# delete by port, delete by port+modid, delete by VLAN, delete by trunk.
#arl_clean_timeout_usec=5000000

# L2 table is DMAed into memory to search for entries to delete
# when no hardware assists are available.  DMA is done in smaller
# parts to minimize memory use.  Must be power of 2.
#l2delete_chunks=64

# Enable L2X shadowing into AVL tree.
#l2xmsg_avl=1

# Synchronize the L2X table in chunks to spread out the work over
# time and save memory on size of DMA buffer.  Must be power of 2.
#l2xmsg_chunks=8

# Period between synchronizations of the software L2X shadow table
# with the hardware (5690 only).  The thread actually runs every
# l2xmsg_thread_usec/l2xmsg_chunks microseconds.

#l2xmsg_thread_usec=3000000

# The l2xmsg thread will call back to the user any time an L2X address
# is added, removed, or changed.  However, if only the hit bit changes,
# it will not call back unless l2x_msg_shadow_hit_bits is set to 1.
#l2xmsg_shadow_hit_bits=0

# Mode control to select L2 Table DMA mode aka L2MODE_POLL (0) or
# L2MOD_FIFO mechanism aka L2MODE_FIFO (1) for L2 table change notification.
#l2xmsg_mode=0

# Enable L2X address grouping
#l2_group_enable=0

# Run s/w based L2 aging
#run_l2_sw_aging=1

# Set default maximum number of entry moves for dual hash tables
#dual_hash_recurse_depth=1
```

```
# Set default maximum number of entry moves for multi hash tables
#multi_hash_recurse_depth=1

# Memory Built-In-Self-Test (BIST) timeout in milliseconds

#bist_timeout_msec=1000

# Normally, the system will use polling for register/memory S-Channel
# operations and interrupts for time-consuming operations such as ARL
# insert/delete.  If this schan_intr_enable is set to 0, polling will be
# used for ALL operations.

#schan_intr_enable=1

# Length of time to block the S-Channel error interrupt after one occurs.
# Prevents monopolizing the CPU (use 0 to disable any blocking).
#schan_error_block_usec=250000

# S-Channel operation timeout in microseconds.  Note that ARL
# insert/delete messages can take a while if the ARL is highly active.

#schan_timeout_usec=300000

# If miim_intr_enable variable is set to 1, the system will use
# interrupts for MII operations since they take a while (70 usec or so).
# If this variable is set to 0, polling will be used for all MII
# operations.

#miim_intr_enable=1

# MIIM operation timeout in microseconds

#miim_timeout_usec=100000

# Diagnostics loopback (tr 17 through tr 24) timeout in seconds for
# link up

#diag_lb_link_timeout=15

# Diagnostics loopback (tr 17 through tr 24) timeout in seconds for
# loopback packet reception

#diag_lb_packet_timeout=5

# Diagnostics loopback - if set to TRUE, all receive buffers are filled
# with 0xdeadbeef before DMAing into them.  It is slow, but then you will
# know if loopback miscompares are due to skipped PCI writes.
```

```
#diag_lb_fill_rx=0

# Packet watcher thread priority
#diag_pw_thread_pri=100

# Tab width for diagnostics (especially 'show counters')
#diag_tabs=8

# ASCII comma character for show counters
# Use 44 for comma, 46 for period, 0 for none
#diag_comma=44

# arl_static_ff indicates that a static entry of VLAN TAG 0xfff must be
# made in the ARL for proper operation, on chips where applicable.

#arl_static_ff=1

# The ARL lookup command (on chips supporting it) may fail and require
# retry in the event the ARL is extra busy.

#arl_lookup_tries=100

# Limit the number of ARL messages/sec the software will process, to
# keep it from hogging the CPU.  Set to 0 to disable.
# Does not apply to L2X shadow table (see l2xmsg_thread_usec instead).

#arl_rate_limit=3000

# Delay this long after an ARL message overrun before a lengthy ARL-
# resync process.  Setting to 0 to disables resync, in peril of getting
# an inconsistent ARL message stream and/or corrupt L2 shadow table.

#arl_resync_delay=3000000

# Maximum number of consecutive S-channel errors the counter collection
# code will tolerate before the counter thread gives up and exits.

#soc_ctr_maxerr=5

# Skip hardware reset (CMIC_CONFIG.RESET_CPS) when calling soc_reset().
# This means that e.g. 'init soc' will NOT perform a hard reset.

#soc_skip_reset=1

# Packet DMA abort timeout

#pdma_timeout_usec=500000
```

```
# Counter DMA collection pass timeout in microseconds

#cdma_timeout_usec=100000

# Table DMA operation timeout in microseconds

#tdma_timeout_usec=1000000

# Table DMA operation should use interrupt rather than poll for completion

#tdma_intr_enable=1

# Table SLAM DMA operation timeout in microseconds

#tslam_timeout_usec=1000000

# Table SLAM DMA operation should use interrupt rather than poll for completion

#tslam_intr_enable=1

# Enable/Disable SLAM DMA
#tslam_dma_enable=1

# Enable/Disable TABLE DMA
#table_dma_enable=1

# gbpfull_warn_enable enables a warning message to be printed on GBPFULL
# interrupt.  gbpfull_warn_time sets the minimum number of seconds
# between successive GBPFULL messages, to avoid flooding the terminal.
# These variables take affect only after the "init" command is run.

#gbpfull_warn_enable=1
#gbpfull_warn_time=5

# Select memory tests run by cfapinit (default MT_PAT_FIVES and MT_PAT_AS)
#cfap_tests=12

# Memory scan: max errors, and max DMA buffer size in entries
#mem_scan_maxerr=8
#mem_scan_chunk_size=256

# Miscellaneous thread priorities; 0 is highest and 255 is lowest

#counter_thread_pri=50
#arlmsg_thread_pri=50
#l2xmsg_thread_pri=50
#mem_scan_thread_pri=50
#linkscan_thread_pri=50
```

```
#bcm_tx_thread_pri=50
#bcm_rx_thread_pri=200
#l2age_thread_pri=150
#error_thread_pri=50

# When a link goes down for any reason, the driver waits for all packets
# to that port to drain from the MMU before continuing.  There is a
# timeout in case the packet count is non-zero AND non-decrementing.

#lccdrain_timeout_usec=250000

# PCI device/rev ID override allows you to pretend you are running
# on a different chip (e.g. force 5605 driver to run on 5615)
# NOTE: this one is actually in sysconf.c, not the driver.

#pci_override_dev=0x5605
#pci_override_rev=1

# Generic SOC configuration registers located at reserved addresses in
# PCI configuration space (usually address 0x44 and 0x48). Any arbitrary
# 32-bit hex value may be specified.
# NOTE: these settings only work with the VxWorks driver and are provided
# for debugging purposes only.

#pci_conf_soccfg0=0x0
#pci_conf_soccfg1=0x0

# Use crytal input for LCPLL
#xgxs_lcpll_xtal_refclk=0

# Fusion core reference clock selection
# External Clock = 0, Internal LCPLL = 1
#xgxs_lcpll=1

# Fusion core LCPLL clock speed selection - 10Gbps = 0, 12Gbps = 1
#xgxs_lcpll_12gbps=0

# Unicore 10G parallel detect (10/12 Gbps legacy speed detection)
#xgxs_pdetect_10g=1

# Fusion/Uni core preemphasis, driver current and  pre-driver current
# values 0-15 (can be changed per-port)
#xgxs_preemphasis=1
#xgxs_driver_current=1
#xgxs_pre_driver_current=1

# Fusion PLL lock range value 0-15 (can be changed per-port)
#xgxs_plllock=15
```

```
# Remap XGXS rx and tx lanes to desired mapping. Four bits were used for
# specifying each lane in the format of Lane 0 (bit 15-12), Lane 1 (bit 11-8),
# lane 2 (bit 7-4), and lane 3 (bit 3-0).
# For example, to reverse the tx lane mapping in 3, 2, 1, 0 order,
# set xgxs_tx_lane_map=0x3210.
# efault setting is.
#xgxs_tx_lane_map=0x0123
#xgxs_rx_lane_map=0x0123

# Serdes reference clock selection
# External Clock = 0, Internal LCPLL = 1
#serdes_lcpll=0

# Combo Serdes core preemhasis, driver current and pre-driver current
# values 0-15 (can be changed per-port)
# serdes_preemphasis=1
# serdes_driver_current=1
# serdes_pre_driver_current=1

# switch serdes SGMII master/slave mode configuration.  Default is slave.
# serdes_sgmii_master=0

# 10G PHY core preemphasis, driver current and pre-driver current
# values 0-15 (can be changed per-port) for SFP+ application.
#phy_preemphasis=1
#phy_driver_current=1
#phy_pre_driver_current=1

# Unicore Serdes SGMII/fiber auto-detect (can be changed per-port)
# Note that auto-detect only works when auto-negotiation is enabled.
# If auto-detect or auto-negotiation is off then fiber_pref=0 will
# select SGMII and fiber_pref=1 (default) will select fiber.
#serdes_automedium=1
#serdes_fiber_pref=1

# Enable SGMII autonegotiation between the SOC and PHY if the
# SOC supports SGMII autonegotiation. This feature is not enabled by
# default.
#phy_sgmii_autoneg_ge0.0=1

# By default, 5670 will be configured to accept the maximum number of
# packets per port, but may drop them if resources are oversubscribed due
# to activity from other ports.  If lossless mode is enabled, 5670 will
# instead be configured to accept packets only if sufficient processing
# resources are guaranteed for all ports.  This may decrease overall
# throughput, but no accepted packets will be dropped.
```

```
#lossless_mode=0

#24c64 EEPROM and XFP share the same I2C slave address. Set this to
#1 to treat the #device found at this slave address as XFP.
#i2c_nvram_skip=0

#PCF8574 lpt2 and LTC4258 poe3 share the same I2C slave address. Set
#this to 1 to treat the device found at this slave address as POE.
#i2c_hclk_skip=0

#PD63000 init power setting. Set this to 1 for 100W; otherwise
#default of 37W is used.
#i2c_poe_power=0

#Set this to 1 for 189 MHz core, 25 MHz reference used for 12G in 5675.
#core_clock_12G=0

#Set this to 1 for 5670 compatiable mirror behavior in 5675.
#mirror_5670_mode=0

#BCM5675 HOL blocking avoidance mode (jitter and hysteresis)
#Set this to 1 to enable jitter for comparing low cell/packet count thresholds
#mmu_hol_jitter=0
#Set this to 1 to enable hysteresis with recommended default low thresholds
#mmu_hol_hysteresis=0

#Swap XAUI lanes between phy8703/BCM5670 and BCM5673(lynxalot board)
#phy_xaui_rx_lane_swap=0

#Flip PHY lane TX polarity 8706 (all Lanes) and XGXS16G serdes
#Format: phy_xaui_tx_polarity_flip_logicalPort = VALUE
#VALUE:  1 - Flip TX polarity
#       0 - Do not flip TX polarity
#       Each bit represents one lane
#       Logical lane 0 is the right most bit
#       For TSCe12, which has 3 quads for a logical port, the right most nibble represents
#       the first TSCe4 quad while middle nibble represents the second (middle) TSCe4 quad
#phy_xaui_tx_polarity_flip=0

#Flip PHY lane TX polarity on applicable ext PHY devices
#Format: phy_tx_polarity_logicalPort = VALUE
#VALUE: 1 - Flip TX polarity.
#      0 - Do not flip TX polarity.
#      Each bit represents one lane.
#phy_tx_polarity_flip=0

#Flip PHY lane RX polarity on applicable ext PHY devices
#See detail above (TX polarity)
```

```
#phy_rx_polarity_flip=0

#Flip PHY lane TX polarity on applicable PHY devices
#Format: phy_chain_tx_polarity_flip_physical[{<phys_port>.<phy:num>}] = VALUE
#<phys_port>: Physical port number which is corresponding to a physical lane within a Serdes or an external phy.
#<phy_num>:   Serdes or phy number.
#           0 = internal Serdes.
#           1 = the external phy directly attached to Serdes.
#           2 = the external phy attached to phy1.
#           3 = the external phy attached to phy2.
#           etc.
#VALUE:      1 - Flip TX polarity.
#           0 - Do not flip TX polarity.
#           Should be a 1-bit VALUE.
#phy_chain_tx_polarity_flip_physical{0.0} = 0

#Flip PHY lane RX polarity on applicable PHY devices
#See detail above (TX polarity)
#phy_chain_rx_polarity_flip_physical{0.0} = 0

#Invert PCS TX output to PMD. Supported only on BCM8705 PHY.
#phy_tx_invert_ge0.0=0
#phy_rx_invert_ge0.0=0

#phy_port_primary_and_offset specifies the base port and phy index of a multi slice phy chip.
#phy_port_primary_and_offset_<port>=0xPPOO 0xPP=primary port number 0xOO=offset of the slice
#For example, for ports ge0-ge3 Primary Port number is 02 (address of base/first port)
#phy_port_primary_and_offset_ge0=0x0200 primary port number=0x02 offset=00
#phy_port_primary_and_offset_ge1=0x0201 primary port number=0x02 offset=01
#phy_port_primary_and_offset_ge2=0x0202 primary port number=0x02 offset=02
#phy_port_primary_and_offset_ge3=0x0203 primary port number=0x02 offset=03

#Port property to set BCM5488 family PHY to operate in class A half amplitude
#mode.
#phy_half_pwr_mode_ge0.0=10    Enable half amplitude for all speed.
#phy_half_pwr_mode_ge0.0=100   Enable half amplitude for all speed.
#phy_half_pwr_mode_ge0.0=1000  Enable half amplitude for Giga speed.

#Port property to set BCM5488 family PHY to operate in class A/B low power
#mode. Accept value 0(lowest power) to 7(highest power).
#phy_low_power_mode_ge0.0=0

#Port Property to transform CX4 pinout to Higig pinout on 5650x/5660x
#cx4_to_higig=0

# 8704 and 8705 XFP clock
# 8704 and 8705 can provide the clock for the XFPs (thus eliminating the need
# for an external clock. By default we enable it, but if you are not using it,
```

```
# it should be disabled.
#phy_xfp_clock=1

# 8705 WAN support
# 8705 PHY driver can support both LAN and WAN mode. The default setting
# is LAN mode.
#phy_wan_mode_xe0=1

# The following optical controls manage to force various PHY signal on
# BCM8703/4/5
# Control Active Optical Enable output level.
#force_opttxenblvl=0

# Control Active Optical Reset output level.
#force_opttxrstlvl=0

# Control Active Laser Bias Fault level.
#force_optbiasfltlvl=0

# Control Active Temperature level.
#force_opttempfltlvl=0

# Control Active Laser Power Fault level.
#force_optprfltlvl=0

# Control Active TX fault level.
#force_opttxfltlvl=0

# Control Active Laser Loss of light level.
#force_optrxloslvl=0

# Control Active RX fault level.
#force_optrxfltlvl=0

# Control Active TX on level.
#force_opttxonlvl=0

# BCM5665L and BCM5666L support
# The BCM5665L and BCM5666L device IDs are 0x5665, same as the BCM5665.
# However, these devices do not support the upper 24 FE ports.
# The following property must be used to invalidate them.
#pbmp_valid.BCM5665=0x010000001ffffff

# BCM5665 family debug mode - bypass MCU, allows diagnostics such as
# loopback to be run without initializing the MCU (but requires small
# packet sizes and counts).
#bypass_mcu=1
```

```
# BCM5665 MCU configuration
# See bcm5665 DDR bring up flow chart for MCU tuning procedure
# These are the default values:

# These are valid for BCM5650/55/65:
#mcu_drv_str0_ch0=1
#mcu_drv_str1_ch0=0
#mcu_pad_data_class2_ch0=1
#mcu_pad_data_drive_ch0=3
#mcu_pad_data_slew_ch0=3
#mcu_pad_addr_class2_ch0=0
#mcu_pad_addr_drive_ch0=3
#mcu_pad_addr_slew_ch0=3
#mcu_delay_dqi_adj_dir_ch0=1
#mcu_delay_dqi_adj_val_ch0=3
#mcu_delay_addr_adj_dir_ch0=1
#mcu_delay_addr_adj_val_ch0=0

#mcu_drv_str0_ch1=1
#mcu_drv_str1_ch1=0
#mcu_pad_data_class2_ch1=1
#mcu_pad_data_drive_ch1=3
#mcu_pad_data_slew_ch1=3
#mcu_pad_addr_class2_ch1=0
#mcu_pad_addr_drive_ch1=3
#mcu_pad_addr_slew_ch1=3
#mcu_delay_dqi_adj_dir_ch1=1
#mcu_delay_dqi_adj_val_ch1=3
#mcu_delay_addr_adj_dir_ch1=1
#mcu_delay_addr_adj_val_ch1=0

# These following are only for BCM5665:
#mcu_drv_str0_ch2=1
#mcu_drv_str1_ch2=0
#mcu_pad_data_class2_ch2=1
#mcu_pad_data_drive_ch2=3
#mcu_pad_data_slew_ch2=3
#mcu_pad_addr_class2_ch2=0
#mcu_pad_addr_drive_ch2=3
#mcu_pad_addr_slew_ch2=3
#mcu_delay_dqi_adj_dir_ch2=1
#mcu_delay_dqi_adj_val_ch2=3
#mcu_delay_addr_adj_dir_ch2=1
#mcu_delay_addr_adj_val_ch2=0

#mcu_drv_str0_ch3=1
#mcu_drv_str1_ch3=0
#mcu_pad_data_class2_ch3=1
```

```
#mcu_pad_data_drive_ch3=3
#mcu_pad_data_slew_ch3=3
#mcu_pad_addr_class2_ch3=0
#mcu_pad_addr_drive_ch3=3
#mcu_pad_addr_slew_ch3=3
#mcu_delay_dqi_adj_dir_ch3=1
#mcu_delay_dqi_adj_val_ch3=3
#mcu_delay_addr_adj_dir_ch3=1
#mcu_delay_addr_adj_val_ch3=0

# The values may be set for all channels (though a channel-specific setting
# will override these):
#mcu_drv_str0=1
#mcu_drv_str1=0
#mcu_pad_data_class2=1
#mcu_pad_data_drive=3
#mcu_pad_data_slew=3
#mcu_pad_addr_class2=0
#mcu_pad_addr_drive=3
#mcu_pad_addr_slew=3
#mcu_delay_dqi_adj_dir=1
#mcu_delay_dqi_adj_val=3
#mcu_delay_addr_adj_dir=1
#mcu_delay_addr_adj_val=0

# BCM5665 MCU 16bit DDR configuration
#mcu_16bit_ddr=1

# BCM5665 family filter sizes
# The FE port filters on 5665/50/55 may be configured for two mask/rule sizes
# 256 rules and 16 masks (default)
# 128 rules and 24 masks
# Use this to select the 128/24 configuation for the chip.
#filter_resize=1

#
# Stacking related defines; see stk.soc for board related defines
#
#stkvlan=4092
#stkcos=7
#stkports="(0,24) (0,25)"
#
# Bitmap to indicate reserved modid's system wide
#stk_rsvd_modids=0

# Command memory controls
#memcmd_timeout_usec=10000000
#memcmd_intr_enable=1
```

```
# Timeout value in microseconds for BCM5660x search engine initialization
#seer_init_timeout_usec=50000

# Control to disable parity messages
#parity_enable=0

# Control to disable parity correction
#parity_correction=0

# Set BCM5660x external packet buffer to 500 MHz instead of 600 MHz
#pll600_slowclk=1

# For MCU Channel 0 only (0x2 for Channel 1 only)
#mcu_channel_bitmap=0x1

# MCU tuning parameters (Default values)
#mcu_tcrd=7
#mcu_tcwd=8
#mcu_twl=6
#mcu_dll90_offset_tx=3
#mcu_dll90_offset3=1
#mcu_dll90_offset2=1
#mcu_dll90_offset1=1
#mcu_dll90_offset0_qk=1
#mcu_dll90_offset_qkb=1
#mcu_sel_early2_3=0
#mcu_sel_early2_2=0
#mcu_sel_early2_1=0
#mcu_sel_early2_0=0
#mcu_sel_early1_3=1
#mcu_sel_early1_2=1
#mcu_sel_early1_1=1
#mcu_sel_early1_0=1
#mcu_odt_imp_enable=1

# Channel 0 only
#mcu_tcrd_ch0=7
#mcu_tcwd_ch0=8
#mcu_twl_ch0=6
#mcu_dll90_offset_tx_ch0=3
#mcu_dll90_offset3_ch0=1
#mcu_dll90_offset2_ch0=1
#mcu_dll90_offset1_ch0=1
#mcu_dll90_offset0_qk_ch0=1
#mcu_dll90_offset_qkb_ch0=1
#mcu_sel_early2_3_ch0=0
#mcu_sel_early2_2_ch0=0
```

```
#mcu_sel_early2_1_ch0=0
#mcu_sel_early2_0_ch0=0
#mcu_sel_early1_3_ch0=1
#mcu_sel_early1_2_ch0=1
#mcu_sel_early1_1_ch0=1
#mcu_sel_early1_0_ch0=1
#mcu_odt_imp_enable_ch0=1
#mcu_ovrd_sm_en_ch0=0
#mcu_phase_sel_ch0=0

# Channel 1 only
#mcu_tcrd_ch1=7
#mcu_tcwd_ch1=8
#mcu_twl_ch1=6
#mcu_dll90_offset_tx_ch1=3
#mcu_dll90_offset3_ch1=1
#mcu_dll90_offset2_ch1=1
#mcu_dll90_offset1_ch1=1
#mcu_dll90_offset0_qk_ch1=1
#mcu_dll90_offset_qkb_ch1=1
#mcu_sel_early2_3_ch1=0
#mcu_sel_early2_2_ch1=0
#mcu_sel_early2_1_ch1=0
#mcu_sel_early2_0_ch1=0
#mcu_sel_early1_3_ch1=1
#mcu_sel_early1_2_ch1=1
#mcu_sel_early1_1_ch1=1
#mcu_sel_early1_0_ch1=1
#mcu_odt_imp_enable_ch1=1
#mcu_ovrd_sm_en_ch1=0
#mcu_phase_sel_ch1=0

# DDR72 tuning parameters (Default values)
#ddr72_dll90_offset_tx=4
#ddr72_dll90_offset3=4
#ddr72_dll90_offset2=4
#ddr72_dll90_offset1=4
#ddr72_dll90_offset0_qk=4
#ddr72_dll90_offset_qkb=4
#ddr72_sel_early2_3=0
#ddr72_sel_early2_2=0
#ddr72_sel_early2_1=0
#ddr72_sel_early2_0=0
#ddr72_sel_early1_3=1
#ddr72_sel_early1_2=1
#ddr72_sel_early1_1=1
#ddr72_sel_early1_0=1
#ddr72_ovrd_sm_en=0
```

```
#ddr72_phase_sel=0

# QDR36 tuning parameters (Default values)
#qdr36_dll90_offset_tx=4
#qdr36_dll90_offset_qk=4
#qdr36_dll90_offset_qkb=4
#qdr36_sel_early2_1=0
#qdr36_sel_early2_0=0
#qdr36_sel_early1_1=1
#qdr36_sel_early1_0=1
#qdr36_ovrd_sm_en=0
#qdr36_phase_sel=0

#BCAM tuning
#seer_tunnel_sam=2

# Memory configuration

# No external mem (Default)
#seer_ext_table_cfg=0

# 512K L2
#seer_ext_table_cfg=1

# 256K LPM
#seer_ext_table_cfg=2

# 192K L4
#seer_ext_table_cfg=3

# 96K L4
#seer_ext_table_cfg=4

# 256K LPM 128K L4
#seer_ext_table_cfg=5

# 384K LPM 64K L4
#seer_ext_table_cfg=6

# 128K LPM 64K L4 (QDR testing)
#seer_ext_table_cfg=7

# 192K LPM 32K L4
#seer_ext_table_cfg=8

# 448K LPM
#seer_ext_table_cfg=9
```

```
# 896K LPM
#seer_ext_table_cfg=10

# No TCAM
#seer_ext_tcam_select=0

# Type 1 TCAM
#seer_ext_tcam_select=1

# Type 2 TCAM
#seer_ext_tcam_select=2

# All L2
#seer_host_hash_table_cfg=0

# Half L2, Half V4
#seer_host_hash_table_cfg=1

# Half L2, Quarter V4, Quarter V6 (Default)
#seer_host_hash_table_cfg=2

# Half L2, Half V6
#seer_host_hash_table_cfg=3

# Quarter L2, Half V4, Quarter V6
#seer_host_hash_table_cfg=4

# Quarter L2, Quarter V4, Half V6
#seer_host_hash_table_cfg=5

# All V4
#seer_host_hash_table_cfg=6

# Half V4, Half V6
#seer_host_hash_table_cfg=7

# All V6
#seer_host_hash_table_cfg=8

# All MAC_VLAN
#seer_mvl_hash_table_cfg=0

# Half MAC_VLAN, Half MYSTATION (Default)
#seer_mvl_hash_table_cfg=1

# All MYSTATION
#seer_mvl_hash_table_cfg=2
```

```
# External memory timing
#seer_hse_em_latency7=0

#seer_cse_em_latency7=0

# This setting may be used to change the number of LPM entries caches
# when performing traversals of the tables.  Increasing this number
# uses more memory for increased speed.
#seer_lpm_traverse_entries=100

# On BCM5662x devices, enable external TCAM lookup on XPORT block
# (back-panel ports) instead of XGPORT block (front-panel ports)
#ext_lookup_on_xport=1

# 72-bit external L2 forward table
#ext_l2_fwd_table_size=0

# 72-bit external IPv4 forward table
#ext_ip4_fwd_table_size=0

# 72-bit external IPv6 64-bit prefix length forward table
#ext_ip6u_fwd_table_size=0

# 144-bit external IPv6 128-bit prefix length forward table
#ext_ip6_fwd_table_size=0

# 288-bit external L2 ACL table
#ext_l2_acl_table_size=0

# 288-bit external IPv4 ACL table
#ext_ip4_acl_table_size=0

# 360-bit external IPv6 ACL table
#ext_ip6s_acl_table_size=0

# 432-bit external IPv6 ACL table
#ext_ip6f_acl_table_size=0

# 144-bit external L2 ACL table
#ext_l2c_acl_table_size=0

# 144-bit external IPv4 ACL table
#ext_ip4c_acl_table_size=0

# 144-bit external IPv6 ACL table
#ext_ip6c_acl_table_size=0
```

```
# 432-bit external L2 + IPv4 ACL table
#ext_l2ip4_acl_table_size=0

# 432-bit external L2 + IPv6 ACL table
#ext_l2ip6_acl_table_size=0

# External TCAM PLL frequency
#ext_tcam_mode=500

# External SRAM PLL frequency
#ext_sram_mode=334

# External TCAM mode, 0 for 6 cycles per pakcet, 1 for 4 cycles per packet
#ext_tcam_mode=0

# External SRAM mode, 0 for 1.5 clock latency, 1 for 2 clock latency
#ext_sram_mode=1

# External associated data mode:
# 1: 250 MHz, L2 table in ES0
# 2: 250 MHz, L2 table in ES1
# 3: 250 MHz, L3 table in ES0
# 4: 250 MHz, L3 table in ES1
# 5: 250 MHz, L2 and L3 table in ES0
# 6: 250 MHz, L2 and L3 table in ES1
# 7: 334 MHz, ACL table in ES0
# 8: 334 MHz, ACL table in ES1
# 9: 250 MHz, ACL table in both ES0 and ES1
# 10: 250 MHz, L2 and ACL table in both ES0 and ES1
# 11: 250 MHz, L3 and ACL table in both ES0 and ES1
# 12: 334 MHz, L2 and L3 and ACL table in both ES0 and ES1
#ext_ad_mode=12

# External IPv6 forwarding search key selection
# 0 for 72-bit, 1 for 144-bit
#ext_ip6_fwd_key=0

# External ACL search key selection for L2 packet
# 0 for disable, 1 for 288-bit, 2 for 144-bit
#ext_l2_acl_key=1

# External ACL search key selection for IPv4 packet
# 0 for disable, 1 for 288-bit, 2 for 144-bit, 3 for using both L2 and IP4 key,
# 4 for using L2 key
#ext_ip4_acl_key=1

# External ACL search key selection for IPV6 packet
# 0 for disable, 1 for 360-bit, 2 for 432-bit, 3 for 144-bit,
```

```
# 4 for using both L2 and IP6 key, 5 for using L2 key
#ext_ip6_acl_key=1

# RCPU master unit. This is unit which is used to inject pkts to slave rcpu device.
#rcpu_master_unit=0

# switch port connected to slave RCPU device.
#rcpu_port=3

# RCPU vlanid
#rcpu_vlan=1

# Use OOB (out of band) channel for sending/receiving rcpu packets
#rcpu_use_oob=1

# Mac driver/unit to use
#rcpu_oob_channel

# Valid ports on which RCPU packets can be receied by slave device.
#rcpu_rx_pbmp=0x4

# Enable diag shell port mapping. Port names will be assigned in
# dport order, and the BCM shell will list multiple ports in
# dport order regardless of the internal port numbering.
#dport_map_enable=1

# Port names for each port type (fe, ge, etc.) will increment
# by one starting at zero, e.g. if a switch has four xe ports
# with dport numbers 24, 25, 26, and 27, they will be named
# xe0, xe1, xe2, and xe3. In non-indexed mode the ports would
# be named xe24, xe25, xe26, and xe27.
#dport_map_indexed=1

# Traditionally, specifying a raw number instead of a port name
# in the diag shell will be parsed as if port numbers are counted
# from 1 up to the number of enabled ports. Typically this would
# mean that for a gigabit switch, port 1 would correspond to ge0,
# and so forth. Setting this flag causes raw port numbers to be
# parsed as internal port numbers.
#dport_map_direct=0

# Map dport number <dport> to internal port number <port>.
#dport_map_port_<port>=<dport>

# Port number and bandwidth assignment.
# For example:
# portmap_5=9:40:EQ assigns physical port 9 as port 5, the
# maximum bandwidth is 40Gb, the port is expected to support extended queueing.
```

```
# portmap_2=1:40:2 assigns physical port 1 as port 2, mapping to 2 lanes.
# The maximum bandwidth is 40Gb.
# portmap_3=1:100:244 assigns physical port 1 as port 3 with 100Gb maximum bandwidth.
# The port maps to the first 2 lanes in TSCe0, and 4 lanes in TSCe1 and in TSCe2.
#portmap_<port>=<physical port number>:<bandwidth in Gb>[:EQ]
#portmap_<port>=<physical port number>:<bandwidth in Gb>[:1/2/4]
#portmap_<port>=<physical port number>:<bandwidth in Gb>[:343/442/244]

# Flex port config per port group in terms of number of lanes per port in the group.
# This can be used to configure the flex ports in any mode at system init time.
# For example portgroup_0=1 creates 4 ports with single lane each in port group 0.
# Valid values for num_lanes are 1, 2, 4.
#portgroup_<group_no>=<num_lanes>

# Indicates the maximum speed that any port can be set to in a device.
# This is used to determine the maximum number of logical numbers
# for the device.
#port_flex_speed_max=42000
#
# For BCM56860 devices, indicates the maximum speed that a port on a pipe.
# These fields are optional but if one is defined, the other MUST be as well.
# If defined, these two fields take precedence over port_flex_speed_max. If
# neither is defined, port_flex_speed_max is used for the device; these fields
# DO NOT have a default value since they are optional.
#port_flex_speed_max_x=42000
#port_flex_speed_max_y=42000
#
# Indicates that the port module (macro) on which the given physical
# port resides is flex capable (or flex enabled). Users always have
# to give the first physical port residing on the port macro in
# this config property.
#
# For BCM56860 based devices, enabling flex on port macros
# consisting of smaller port macros enables flex on the entire
# subset of smaller port macros. For example, in this device
# a TSC-12 is comprised of three TSC-4. Enabling flex on the TSC-12
# will enable flex on each of the three individual TSC-4.
#
#port_flex_enable{physical port number}=1
#port_flex_enable=1
# Valid values are 0 (disable) or 1 (enable)
# Default value is 0
# If given without physical port number as in the example above,
# the config applies to all ports. Of course, if there is a more specific
# config (with physical port) present, that takes precedence.

# Indicates the maximum number of ports that the core could flex to.
# Valid values are 1, 2 or 4. Default value is 4.
```

```
# port_flex_enable must be enabled on that core to enable flex port.
# The value of port_flex_max_ports must be equal or greater than the number of ports
# that have been mapped to the core by property "portmap"
# If given without index, the config applies to all cores.
#port_flex_max_ports{physical port number}=4
#port_flex_max_ports_core<core number>=2
#port_flex_max_ports=1

# Enable translation of physical port numbers within the BCM layer.
# This feature allows a new device to emulate an older similar
# device even if the physical port map is different. Note that
# translation support must be compiled in as well.
#bcm_xlate_api_port_enable=1

# Specify a BCM port translation map.
#bcm_xlate_port_map=bcm56524_to_bcm56504
#bcm_xlate_port_map=bcm56620_to_bcm56504
#bcm_xlate_port_map=bcm56630_to_bcm56504
#bcm_xlate_port_map=bcm56524_single_modid
#bcm_xlate_port_map=bcm56636_single_modid
#bcm_xlate_port_map=bcm56636_single_modid_alt

# Allow customized BCM translation maps. The example below will
# map physical port 2 to BCM port 0.
#bcm_xlate_port_2=0

# Enable translation of system port numbers to physical port numbers
# in hardware (if supported by the switch device). This feature may
# be used to complement the BCM API translation feature, but can
# also be used to limit the use of module IDs on devices with 32 or
# fewer ports in case some physical port numbers reside beyond 31.
#bcm_xlate_sysport_enable=0

# Convenience variable that can be used to turn off both physical
# and system port mapping. This variable overrides the dedicated
# variables described above.
#bcm_xlate_port_enable=1

# Interval (in usecs) at which the port monitor thread will run.
# The port monitor can be used to handle workarounds which are
# required only with specific equipment configurations.
#portmon_interval=0

# Select whether to always attach the corresponding Serdes shadow
# driver for Raptor and Raven devices. Note that when deciding
# which driver to attach, MDIO accesses are also verified indepedently
# and checked for corruption. If corruption is detected, the
# shadow driver is attached regardless of this property.
```

```
# To always attach the shadow driver for a port:
#serdes_shadow_driver_<port>=1

################################################################################
#  BCM5321 / BCM5320 Selection
################################################################################
# Select either BCM5321 or BCM5320(16 / 8 ports of BCM5324 family)
################################################################################

# It is BCM5321
# bcm5321=1

# It is BCM5320
# bcm5320=1

#  BCM5321 / BCM5320 Selection

#MACSEC PHY properties
#The following proporties are effective on MACSEC capable PHYs. Currently
#BCM54580 family based PHYs are MACSEC capable.

#Enable MACSEC feature on the MACSEC phys.
#macsec_enable

#MACSEC device address. MACSEC devices address, used to adress MACSEC core.
#This is MDIO address that is being assigned to MACSEC core. The MDIO address
#gets programmed to MACSEC PHY during initialization if MACSEC is enabled.
#macsec_dev_addr

#A MACSEC phy could be an integrated PHYs with multiple ports. This property
#is needed to identify the index of each PHY port.
#macsec_port_index

#Define port bitmap of FE ports that use 100-FX mode.
#pbmp_fe_100fx=0xffffff

#
# CES Properties
#
# ces_port_tdm_proto - This property selects the TDM protocol to be used for the TDM ports.
# Valid values are T1 and E1, default is T1.
#ces_port_tdm_proto=E1

#
# RX COS queues (5644x)
#
# Queues assignment to share across host CPU and uControllers.
# By default, all 48 queues are assigned to the host CPU.  The sum
```

```
# of all queues must be equal to 48.
#
#num_queues_pci=48
#num_queues_uc0=0
#num_queues_uc1=0
#

#
# BFD
#
# BFD COS queue.  Default is highest available queue assigned to the uC
# where the BFD application is running on.
#bfd_cosq=
#
# Maximum number of BFD sessions
#bfd_num_sessions=256
#
# Maximum number of Simple Password and SHA1 keys
#bfd_simple_password_keys=0
#bfd_sha1_keys=0
#

#
# Triumph3 ESM
#
# Specifying MDIO port addresses for the external tcams. tcam0 default is 1
# tcam1 default is 2 for broadcom boards.
# port_phy_addr_ext_tcam0
# port_phy_addr_ext_tcam1
#

# Memory table size configs in terms of the widest entry type.
#l2_mem_entries=<>
#l3_mem_entries=<>
#vlan_xlate_mem_entries=<>
#egr_vlan_xlate_mem_entries=<>
#mpls_mem_entries=<>

#
# Accelerated Linkscan
#
# Enables accelerated linkscan mode on given port.
# This feature is not enabled by default.
# This is a per-port property.
# rx_fast_los_link_<port>
# rx_fast_los_link_xe=1
# rx_fast_los_link=1
#
```

```
# Indicates the time interval in usecs when linkscan is in accelerated mode.
# rx_fast_los_usec=100000
#
# Indicates the maximum number of times Linkscan will poll in
# accelerated mode without a status change in any accelerated mode ports.
# rx_fast_los_poll_count_max=10
#
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config.bcm
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_cmic.c,v 1.0 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DCMN IPROC
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dcmn/dcmn_cmic.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       init.h
* Purpose:     Extern declarations for DPP init routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_field.c,v Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: FIELD APIs
*
* Purpose:
```

* Warm boot support for FIELD API for Caladan3 Packet Processor devices
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/wb_db_field.c
No license file was found, but licenses were detected in source scan.

$Id: README,v 1.2 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

Broadcom StrataSwitch
I2C Device Driver API

Introduction

This document descrives the I2C bus-master driver for the CPU
Management Interface Controller (CMIC). This module provides common
I2C Bus driver routines for using the the I2C bus controller (internal
to the CMIC) as a bus-master. This is useful when using the I2C bus to
control auxiliary I2C slave devices connected to the SDA,SCL pins of a
StrataSwitch device.

Overview

The I2C Device Driver API allows for programming of I2C devices
connected to a Broadcom StrataSwitch through the CMIC I2C controller
(accessible via PCI).

The I2C bus is a 2-wire bus originally developed by Phillips
Semiconductor for bi-directional data I/O between two interconnected
integrated circuits (hence the name Inter-IC, IIC or I2C). The I2C bus
uses the 2-wires SDA (Serial Data) and SCL (Serial Clock) and each
device connected to the bus is addressable through a unique slave or
device address while simple master/slave relationships exist at all
times. Serial, 8-bit oriented, bi-directional data transfers can be
made at up to 400Kbits/sec in fast mode, with 100Kbits/s being the
norm. The number of IC's connected to this bus is limited only by a
maximum bus capacitance of 400pF.

Modules and Theory of Operation

A layering architecture is employed for the I2C drivers, this
layering and their source modules is described below.

+--------------------------------+

```
| I2C read/write/ioctl API       |   src/bcm/bcmi2c.c
+--------------------------------+
| I2C Device Drivers             |   src/drv/i2c/{lm75.c,max127.c,24c64.c}
+--------------------------------+
| Server Management Bus Driver   |   src/drv/i2c/smbus.c
+---------------+----------------+
| I2C Bus Driver| Device Manager |   src/drv/i2c/{bus.c,devs.c}
+---------------+----------------+
|  PCI          |                src/drv/cmic.c
+---------------+
```

The I2C driver is started by the system entry point soc_i2c_attach() in bus.c which takes a PCI device number, flags, and an optional bus speed. Both PIO and Interrupt driven modes of operation are supported. Speed, if non-zero is used if a speed which is >= the provided speed can be found. For most cases, the defaults for FLAGS and speed can be used. The attach routine will initialize the bus-controller, and then attempt to perform discovery by calling the probe routine (soc_i2c_probe). Note: This routine can be invoked by typeing "i2c probe" from the BCM CLI.

The I2C device discovery entry point is soc_i2c_probe() in devs.c which will iterate over every device in the I2C device table and attempt to acknowledge-poll the device by generating START,SLAVE_ADDR and waiting for an acknowledgment. When an acknowledgement is received, the associated driver for the device is loaded. General call addresses are NOT used and only devices added to the device descriptor table are probed.

The core driver (bus.c) only deals with generating the bus conditions and states required for I2C message processing. These routines are low-level routines which assume that locking will occur at a higher-level. For many devices, this will occur in the driver definitions for a particular device or for those routines which use the SMB protocol, locking is provided in the SMB module instead (smbus.c). The file bus.c contains the core driver routines used for generating START, STOP, REPSTART, and DATA conditions, along with state dependent processing, and bus error handling.

I2C Devices which communicate via the SMB (Server Management Bus) protocol can use the higher-level protocol operations defined in this module (smbus.c). Note that support is provided for 8-bit and 16-bit SMB r/w operations and all locking is provided in this module so every module which uses it is MT-safe. For more advanced SMB features (block read/write), see the implementation of the 24c64 EEPROM driver.

An I2C driver is used to communicate with an external slave device. I2C drivers are used for every device which supports r/w operations. Devices which use non-standard mechanisms for IO need only support the IO control

(ioctl) interface. The I2C device driver interface is defined in the
i2c_driver_t type, this driver is associated with the device type in
the i2c_device_t struct. For example drivers, see 24c64.c and lm75.c

When one or more drivers are added to the device driver association
table, devices are probed by the device layer (devs.c) which is responsible
for finding I2C devices, looking up a driver for a given slave address,
and associating a device with a driver callout. Users should implement their
driver, and then add the associated device entry to the i2c_devices[]
table in devs.c to make the device available to the system.

Finally, a high-level user API is provided for open/read/write/ioctl
style programming. Use of this API is dependent upon a driver for the
named device to be loaded into the system via the device probe layer.
This can be used to provide generic programmability of a wide variety
of devices while hiding the implementation details in the driver itself
and separating the device level interface from implementation.

In practice, a CLI or external management program will typically call
the API routines directly. See the file bcmi2c.c for more details,
also, see the CLI command implementation (diag/system/i2c_cmds.c) for
its use.

I2C Bus Driver API

The bus driver API (bus.c) allows for generating the bus conditions
and states required for I2C message processing. These routines are
low-level routines which assume that locking will occur at a
higher-level. In addition, they make various assumptions about
state-specific processing which will need to occur within higher level
routines. This documentation covers the general sequencing interface
which a higher-level driver will use to perform tasks such as I2C
attach, start, stop, read data, write data, detach, etc. It covers
user-serviceable routines only as internals are documented within
the source code.

Function: int soc_i2c_attach(int unit, int ena, uint32 flags, int speed)
Purpose: I2C Bus attach routine, main entry point for I2C startup.
    Initialize the I2C controller configuration for the specified
    device. Default is to disable the device, if ena is specified,
    the default frequency is 100Khz. Flags currently allows
    selection of Interrupt driven mode, PIO mode, or force
    configuration.
Parameters:

  unit - StrataSwitch device number or I2C bus number
  enable - if non-zero, turn on and configure the bus

flags - bitmap (logical OR) of one or more of the following:
SOC_I2C_FORCE -force configuration
SOC_I2C_MODE_INTR - interrupt driven mode
SOC_I2C_MODE_PIO - programmed I/O mode

Returns:

SOC_E_NONE - operation succeeed, I2C bus ready for IO
SOC_E_MEMORY - memory allocation error

Notes: Default is Interrupt mode, if both are selected Interrupt is chosen.

Function:int soc_i2c_start(int unit, uint8 slave_addr)
Purpose: Issue an I2C start command to the provided slave_addr.
For Transmit functions, the LSB should be cleared.
For Receive functions the LSB should be set.

Parameters:
unit - StrataSwitch device number or I2C bus number
slave_addr - I2C slave device address (LSB set for function).

Returns: SOC_E_NONE if the device was contacted and ready for I/O.
SOC_E_TIMEOUT if the device is not present.

If SOC_E_NONE is returned, you need to call soc_i2c_stop() to release the bus when finished performing I/O.

See also: SOC_I2C_TX_ADDR(), SOC_I2C_RX_ADDR()

Notes: 10-bit addressing currently not supported.

Function: int soc_i2c_write_data(int unit, uint8 data)
Purpose: Write data to the last addressed slave device.
Parameters:
unit - StrataSwitch device number or I2C bus number
data - data byte to transmit

Returns:
SOC_E_NONE if the device was contacted and the operation succeeded.
SOC_E_BUSY if the device timed out or is busy.

Notes:
Before this routine can be used, one must issue a START condition on the bus along with the slave address used to write to the device (e.g. a write address)

Function:int soc_i2c_read_data(int unit, uint8* data, int tx_ack)
Purpose: Read some data from the last addressed slave device.

Parameters:

unit - StrataSwitch device number or I2C bus number
data - address to place data byte received from slave
tx_ack - if set, an ACK will automatically be sent by the
controller when a slave sends data. If not set,
a NAK is pulsed when the byte has been received.
This is used for read operations where a master would
like to signify the last byte is being sent.

Returns:

SOC_E_NONE if the device was contacted and the operation
succeeded.
SOC_E_TIMEOUT if the device timed out.

Notes:

Before this routine can be used, one must issue a START
condition on the bus along with the slave address used to
read from the device (e.g. a write address). This means
for example, that bit0 must be set in the slave address.
We always transmit an ACK when tx_ack is non-zero.

Function: int soc_i2c_stop(int unit)
Purpose: Generate stop condition on the I2C bus. This routine is
used to signal the end of a data transfer and releases
the bus according to the I2C protocol.

Parameters:
unit - StrataSwitch device number or I2C bus number

Returns:
SOC_E_NONE - no error, one can always issue stop.

Notes:
none

Function: int soc_i2c_rep_start(int unit, uint8 slave_addr)
Purpose: Generate a repeated start to the specified slave address.
Typically, this is done in the middle of an operation in order
to delimit a new command sequence without releasing the I2C
bus.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  slave_addr - device address, with r/w bit set for data direction.

Returns:
  SOC_E_TIMEOUT - the device cannot be contacted or is offline
  SOC_E_NONE - no error, device ready for IO.

Notes:
  none

Function: int soc_i2c_ack_poll(int unit, uint8 io_addr, int maxpolls)
Purpose: Many devices will require a polling acknowledge cycle to
    determine if the device is available for IO. Usually, this
    means that a START condition is generated, along with a read
    or write form of the slave device address, and then we wait
    until the device responds with an ACK. When this occurs, we
    issue a STOP, to free the bus, and return since the device
    is ready for IO.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  io_addr - device address, with r/w bit set for data direction.
  max_polls - number of times to attempt the operation.

Returns:
   Number of Poll operations required to contact device, or
   maxpolls if the device is not online or responding.

Notes: Typically, we poll a specified IO address with the read/write bit
    set to determine if the device is ready for reading or writing.
    When we receive an ACK for that function (Read/Write), the device
    is ready for IO. The data direction (or function) is determined
    by the address bits (see SOC_I2C_TX_ADDR/SOC_I2C_RX_ADDR) macros.

Function: int soc_i2c_detach(int unit)
Purpose: I2C detach routine: free resources used by I2C bus driver.
Parameters:
  unit - StrataSwitch device number or I2C bus number

Returns:
  SOC_E_NONE - no error

Notes:
  none

Function: soc_i2c_status_t soc_i2c_stat(int unit)

Purpose: Return bus status code in enumerated type format.
Parameters:
  unit - StrataSwitch device number or I2C bus number

Returns:
  bus status code as enumerated type definition

Notes:
  This routine should be used in conjunction with
  soc_i2c_status_message

Function:char* soc_i2c_status_message(soc_i2c_status_t status)
Purpose: This routine decodes the current I2C bus status code and
  return human-readable bus status for last I2C operation
Returns: human readable character string telling what the
  current status of the I2C bus is, NULL on invalid status code.
Notes:
  See also: soc_i2c_stat (for getting current status value).

Server Management Bus (SMB) API Interface

The majority of I2C devices communicate using some form of SMB commands.
These commands consist of various protocol interactions between a host
chip and master I2C processor (the StrataSwitch family of switch chips).

Most devices use the SMBus (System Management Bus) protocol, which is
a subset of commands from the I2C protocol. Fortunately, many devices
use the same subset, which makes it possible to derive the following
SMBus operations/commands.

This module provides for SMB r/w byte and word commands based on
top of the bus driver module. Note that locking is performed in
this module, such that all drivers which use SMB commands are
automatically MT-safe.

When possible, please use the SMB commands for developing your I2C
device driver, as this will simplify debugging and development.

Below is a list of SMBus commands, all of the commands are based
on I2C protocol concepts.

Key to symbols
==========

S (1 bit) : Start bit
P (1 bit) : Stop bit

Rd/Wr (1 bit) : Read/Write bit. Rd equals 1, Wr equals 0.
A, NA (1 bit) : Accept and reverse accept (ACK and Not ACK (NACK)) bit.
Addr (7 bits): I2C 7 bit address. Note that this can be expanded
as usual to get a 10 bit I2C address.
Comm (8 bits): Command byte, a data byte which often selects a
register on the device.
Data (8 bits): A plain data byte. Sometimes, I write DataLow, DataHigh
for 16 bit data.
Count (8 bits): A data byte containing the length of a block operation.

[..]: Data sent by I2C device, as opposed to data sent by the host
adapter.

Function: int soc_i2c_read_byte(int unit, uint8 saddr, uint8* data)

Purpose: SMBus Read Quick/Byte

This Reads a single byte from the device

Algorithm: A Addr Rd [A] [Data] NA P

Parameters:
unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
data - 8 bit device-specific data value to read into.

Returns:
SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_write_byte(int unit, uint8 saddr, uint8 data)

Purpose: SMBus Write Quick/Byte

This sends a single byte to the device, at the place of the Rd/Wr bit.
There is no equivalent Read Quick command.

Algorithm: A Addr Rd/Wr [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
data - 8 bit device-specific data value

Returns:
SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_read_word(int unit, uint8 saddr, uint16* value)

Purpose: SMBus Read Word

This reads a single word from the device. Some devices like to
perform split bus transaction; where a write byte command is
followed by a 16-bit read operation to fetch the last data
word from an action or state change which was performed by the
chip or device.

Algorithm: A Addr Rd [A] [Data] [A] [Data] NA P

Parameters:
unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
value - 16 bit device-specific data value to read.

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_write_word(int unit, uint8 saddr, uint16 value)

Purpose: SMBus Write Word

This command writes a single word to an I2C device.

Algorithm: S Addr Wr [A] DataHigh [A] DataLow [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
value - 16 bit data value to write

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function:int soc_i2c_read_byte_data(int unit, uint8 saddr,
uint8 com, uint8* value)
Purpose: SMBus read byte

This reads a single byte from a device, from a designated register.
The register is specified through the Comm byte.

Algorithm: S Addr Wr [A] Comm [A] S Addr Rd [A] [Data] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - address of where data byte should be stored

Returns: data byte in value parameter and one of the following:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function: int soc_i2c_write_byte_data(int unit, uint8 saddr,
uint8 com, uint8 value)
Purpose: SMBus write byte

This writes a single byte to a device, to a designated register. The register is specified through the Comm byte. This is the opposite of the Read Byte Data command.

Algorithm: S Addr Wr [A] Comm [A] Data [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - data value to write

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
none

Function:int soc_i2c_read_word_data(int unit, uint8 saddr,
uint8 com, uint16* value)
Purpose: SMBus Read Word Data

This command is very like Read Byte Data; again, data is read from a device, from a designated register that is specified through the Comm byte. But this time, the data is a complete word (16 bits).

Algorithm:
S Addr Wr [A] Comm [A] S Addr Rd [A] [DataLow] A [DataHigh] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - address where 16bit data value should be stored.

Returns: 16bit data value on success, and one of the following :

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function:int soc_i2c_write_word_data(int unit, uint8 saddr,
uint8 com, uint16 value)

Purpose: SMBus Write Word Data

This is the opposite operation of the Read Word Data command. 16 bits of data is read from a device, from a designated register that is specified through the Comm byte.

Algorithm: S Addr Wr [A] Comm [A] DataLow [A] DataHigh [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
value - 16 bit data value to write

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is offline.
SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function: int soc_i2c_block_read(int unit, uint8 saddr,
uint8 com, uint8* count, uint8* data)

Purpose: SMBus Block Read

This command reads a block of upto 32 bytes from a device, from a designated register that is specified through the Comm byte. The amount of data is specified by the device in the Count byte.

Algorithm: S Addr Wr [A] Comm [A]
S Addr Rd [A] [Count] A [Data] A [Data] A ... A [Data] NA P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port

count - address where number of bytes read into data buff is stored.
data - address where data buffer should be stored.

Returns:
count - updated with the number of bytes successfullly read.

SOC_E_TIMEOUT - the device can not be contacted or is
offline, or the number of bytes specified
could not be read from the device.

SOC_E_NONE - no error, operation succeeded.

Notes:
None

Function: int soc_i2c_block_write(int unit, uint8 saddr,
uint8 com, uint8 count, uint8* data)

Purpose: SMBus Block Write

The opposite of the Block Read command, this writes upto 32 bytes to
a device, to a designated register that is specified through the
Comm byte. The amount of data is specified in the Count byte.

Algorithm: S Addr Wr [A] Comm [A]
Count [A] Data [A] Data [A] ... [A] Data [A] P

Parameters:

unit - StrataSwitch device number or I2C bus number
saddr - device base address, r bit should not be set.
com - 8 bit device address or com port
count - number of bytes to write from data buff.
data - address of data to write (data buffer).

Returns:

SOC_E_TIMEOUT - the device can not be contacted or is
offline, or the specified number of bytes
could not be written to the device.

SOC_E_NONE - no error, operation succeeded.

Notes:

None

I2C Device Driver Interface

I2C Device drivers are used by the system to identify a particular device and provide for a high-level read/write or bulk data-transfer capability. An I2C driver is a function vector with entry points for initialization of the slave device, read, write, and ioctl operations.

```
typedef int (*i2c_read_func_t)(int unit, int devno,
        uint16 addr, uint8* data, uint32* len);
typedef int (*i2c_write_func_t)(int unit, int devno,
   uint16 addr, uint8* data, uint32 len);
typedef int (*i2c_ioc_func_t)(int unit, int devno, int opcode,
       void* data, int len);
typedef int (*i2c_dev_init_func_t)(int unit, int devno,
      void* data, int len);
/*
* I2C Driver structure: definitions for managed device operations.
*/
typedef struct i2c_driver_s{
  uint8 flags;              /* Device flags */
  int devno;                /* Index into device descriptor table */
  uint32 id;                /* Device Serial No, or ID (unique)*/
  i2c_read_func_t     read;  /* Read routine */
  i2c_write_func_t    write; /* Write routine */
  i2c_ioc_func_t      ioctl; /* io control routine */
  i2c_dev_init_func_t load;  /* called once at startup */
} i2c_driver_t;

/*
* I2C Device Descriptor: One for every known device on the bus
*/
typedef struct i2c_dev_s{
  char devname[12];    /* Device name, eg. "eeprom0" */
  unsigned char saddr; /* Slave address */
  char desc[64];       /* Description */
  i2c_driver_t *driver;/* Driver routines */
  void* testdata;      /* Test data */
  int testlen;         /* Size of test data */
  uint32 tbyte;        /* Bytes transmitted */
  uint32 rbyte;        /* Bytes received */
  soc_i2c_bus_t *bus;  /* Bus device attached to */
} i2c_device_t;
```

Function: int soc_i2c_probe(int unit)
Purpose: Probe I2C devices on bus, report devices found.
This routine will walk through our internal I2C device driver tables, attempt to find the device on the I2C bus, and if successful, register a device driver for that device.

This allows for the device to be used in an API context as when the devices are found, the device driver table is filled with the correct entries for that device (r/w function, etc).

Parameters:
unit - StrataSwitch device number or I2C bus number

Return:
SOC_E_NONE - always returns with no errors.

Function:int soc_i2c_device_count(int unit)
Purpose: Report the number of devices registered in the system. For now, this is the total number of devices we have added to the statically defined device descriptor array above.

Parameters:
unit - StrataSwitch device number or I2C bus number

Returns:
number of devices register in the system device table.

Notes: Currently, we do not support dynamic device loading. Later, one will be able add a driver to the device table, without the STATIC attribute.

Function: void soc_i2c_show(int unit)
Purpose: Show all valid devices and their attributes and statistics.
Parameters:
unit - StrataSwitch device number or I2C bus number
Returns:
none
Notes:
none

Function: uint8 soc_i2c_addr(int unit, int devid)

Purpose: Return slave address of specified device.
Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  8-bit slave address of device

Notes:
  none

Function: const char* soc_i2c_devname(int unit, int devid)
Purpose: Return device name of specified device.
Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  character string name of device

Notes:
  none

Function: i2c_device_t* soc_i2c_device(int unit, int devid)
Purpose: Returns the device structure associated with the bus and
    device identifier.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  I2C device descriptor

Notes:
  none

Function: int soc_i2c_devtype(int unit, int devid)
Purpose: Return the device driver type, this is an integer value
    associated with the driver to determine ownership of the
    device.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  devid - I2C device id returned from soc_i2c_devopen

Returns:
  I2C device type code (from driver)

Notes:
  Every device should have a unique Device type indentifier.

I2C Device Driver Registration

I2C devices are added to the I2C device driver table (i2c_devices),
along with their slave address, a string description, and their driver
(if available).

```
COMPILER_STATIC i2c_device_t
i2c_devices[] = {
   {"nvram0", 0xa0, "Atmel 24C64 (64Kbit) Serial EEPROM #0",
    &eep24c64_driver, eep24c64_test_data, eep24c64_test_data_len,0,0},
   {"nvram1", 0xa8, "Atmel 24C64 (64Kbit) Serial EEPROM #1",
    &eep24c64_driver, eep24c64_test_data, eep24c64_test_data_len,0,0},
   {"lm75a", 0x90, "National LM75 Temperature Sensor A",
    &lm75_driver, NULL, 0,0,0},
   {"lm75b", 0x98, "National LM75 Temperature Sensor B",
    &lm75_driver, NULL, 0,0,0},
   {"adc0", 0x50, "Maxim MAX127 A/D Converter #0",
    &max127_driver, NULL, 0,0,0},
   {"pll0", 0xd2, "Cypress W229B Clock Chip #0",
    &w229b_driver, NULL, 0,0,0},
};
```

Add your device entry to this table, recompile, and attempt to probe for
your device.

I2C API Interface

Applications should attempt to separate interface from implementation
as much as possible and use the API calls to access their device; this
will allow vendor-specific I2C device drivers to work with newer versions
of the bus driver and I2C application framework.

Function: int bcm_i2c_open(int unit, char *devname,
                uint32 flags, int speed)

Purpose: Open device, return valid file descriptor or -1 on error.

Parameters:
  unit - StrataSwitch device number or I2C bus number
  devname - I2C device name string
  flags - arguments to pass to attach, default value should be zero
  speed - I2C bus speed, if non-zero, this speed is configured,
        normally this argument should be zero unless a speed
        is desired.
Returns:
   device identifier for all I2C operations

Notes:
   This routine should be called before attempting to communicate
   with an I2C device which has a registered driver.
   A valid driver with this device name must be installed in the
   system.

Function: int bcm_i2c_write(int unit, int fd, uint32 addr,
                uint8 *data, uint32 nbytes)
Purpose: Write to a device
Parameters:
  unit - StrataSwitch device number or I2C bus number
  fd - I2C device ID
  addr - device register or memory address
  data - data byte buffer
  nbytes - number of bytes of data

Returns:
   Number of bytes written on success, -1 otherwise.

Notes:
   This routine requires a driver.

Function: int bcm_i2c_read(int unit, int fd,
                uint32 addr, uint8 *data, uint32nbytes)
Purpose: Read from a device
Parameters:
  unit - StrataSwitch device number or I2C bus number
  fd - I2C device ID
  addr - device register or memory address
  data - data byte buffer to read into
  nbytes - number of bytes of data, updated on success.

Returns:

On success, number of bytes read; nbytes updated with number
of bytes read from device, -1 otherwise.

Notes:
This routine requires a driver.

Function: int bcm_i2c_ioctl(int unit, int fd, int opcode,
void *data, int len)
Purpose: Device specific I/O control
Parameters:
unit - StrataSwitch device number or I2C bus number
fd - I2C device ID
opcode - device command code (device-specific).
data - data byte buffer for command
nbytes - number of bytes of data

Returns:
On success, application specific value greater than zero,
-1 otherwise.

Notes:
This routine requires a driver.

Example I2C Driver: MAXIM MAX127

The MAX127 is a multi-range 12-bit D-A converter chip which provides for eight (8) analog input channels that are independently software programmable via I2C bus. On BCM956xx system boards, this device is used to measure the voltages on the board. The device uses a split transaction cycle where a bytes are written to the device and then a word is read back for the A/D conversion cycle. A byte conversion table for the operations is used to write to the device; each word value read back is interpreted and displayed.

The initialization routine simply prints out that it found the device.

```
COMPILER_STATIC int
max127_init(int unit, int devno,
    void* data, int len)

{
  soc_cm_print("unit %d i2c 0x%x %s: MAX127 A/D Converter\n",
  unit, soc_i2c_addr(unit, devno),
  soc_i2c_devname(unit,devno));

  return SOC_E_NONE;
```

```
}
```

Since the A/D values are read-only, an ioctl style interface is chosen
for the driver, whereby it's invocation will print the output of the
A/D channels. Note that definition is static to preserve namespace
and the the transmit and receive stats are incremented after each
SMB transaction so that the "i2c show" command can report accurate stats
for this device.

```
COMPILER_STATIC int
max127_ioctl(int unit, int devno,
     int opcode, void* data, int len)
{
  int i;
  uint16 val ;
  uint8 saddr = soc_i2c_addr(unit, devno);
  for(i = 0; i < N_MAX127_CHAN; i++){
 /* CHi start conversion, read back data */
 if(soc_i2c_write_byte(unit, saddr, max127_vals[i].cv) < 0){
    soc_cm_print("unit %d i2c %s: could not configure channel %d\n",
   unit, soc_i2c_devname(unit,devno), i);
 }
 soc_i2c_device(unit, devno)->tbyte++;

 /* Read back CHi conversion value */
 if(soc_i2c_read_word(unit, saddr, &val) < 0){
    soc_cm_print("unit %d i2c %s: could not read channel %d\n",
   unit, soc_i2c_devname(unit,devno), i);
 }
 soc_i2c_device(unit, devno)->rbyte += 2;

 soc_cm_print("\tCH%d=0x%2x/%.2f\n",
      i, val,
      max127_unipolar_value(val,max127_vals[i].r) );
  }
}
```

Define the MAX127 A-D converter driver callout. NOTE: both read and
write routines are stubs which return SOC_E_NONE when invocated.

```
i2c_driver_t max127_driver = {
  0x0, 0x0, /* System assigned bytes */
  MAX127_DEVICE_TYPE,
  max127_read,
  max127_write,
  max127_ioctl,
  max127_init
```

```
};
```

Add the device to the i2c_devices[] array in devs.c:

```
  {"adc0", 0x50, "Maxim MAX127 A/D Converter #0",
   &max127_driver, NULL, 0,0,0},
```

In your program, open the device and perform ioctl operation.

```
  if ( (fd = bcm_i2c_open(unit, "adc0",0,0)) < 0) {
 printk("Could not open adc0: %s\n", bcm_errmsg(fd));
 return CMD_FAIL;
  }

  if ( (bcm_i2c_ioctl(unit, fd, 0, NULL, 0) < 0)) {
 printk("Error: failed to perform A/D conversions.\n");
  }
```

In BCM, this command can be invoked from the CLI via the ADC command:

```
BCM.0> adc show
 CH0=0x55/3.32
 CH1=0xc3/7.62
 CH2=0xec/4.61
 CH3=0x7f/2.48
 CH4=0xf1/4.71
 CH5=0x70/2.19
 CH6=0xb2/3.48
 CH7=0xbe/3.71
BCM.0>
```

BCM I2C Test Commands

A number of commands are provided in the file src/diag/i2c_cmds.c; these commands allow for communication with I2C slave devices and for configuration and testing of the I2C bus. These commands are shown here for exemplary purposes:

```
BCM.0> i2c ?
Usages:
        i2c probe [pio|intr]
           - probe devices on I2C bus and build device tree.
```

```
            If "intr" or "pio" is specified, use that bus mode.
        i2c retries [count]
            - set number of handshake attempts.
        i2c show
            - show devices found and their attributes.
```

The "i2c" command is used to probe the I2C bus, find all chips and load their drivers if available, and show devices and their statistics. It can also be used to change the I2C clock speed and I2C ack retry count for finicky devices. Note that speed is an undocumented setting at this point in time and when configured, the driver will emit M/N clock divider values.

```
BCM.0> i2c probe intr 75
unit 0 i2c 0x60 bus: mode INTR, speed 67Kbps
unit 0 i2c 0xa0 nvram0: 24C64 Serial EEPROM, 65524 bytes
unit 0 i2c 0x50 adc0: MAX127 A/D Converter
unit 0 i2c 0xd2 pll0: Cypress W229B/W311 Clock Chip
BCM.0> adc show
    CH0=0x55/3.32
    CH1=0xc3/7.62
    CH2=0xec/4.61
    CH3=0x7f/2.48
    CH4=0xf1/4.71
    CH5=0x70/2.19
    CH6=0xb2/3.48
    CH7=0xbe/3.71
BCM.0>
```

```
BCM.0> nvram ?
Usages:
        nvram r [off] [nbytes]
            - show specified number of NVRAM bytes starting at offset.
        nvram w [off] [data]
            - write data byte to specified NVRAM offset.
```

The "nvram" command will use the BCM I2C API calls to open the device named "nvram" and allow reading and writing of bytes over I2C to the device. Note that the EEPROM driver will test all of NVRAM memory (64K) when it first sees the device and does not see a valid checksum in the first bytes of the NVRAM chip.

The 24C64 chip can be used to test the I2C bus, by writing a 0 value to the checksum offset of the NVRAM, and then re-attaching to the I2C bus with a specified speed until the device starts issuing too many retries and becomes unresponsive and essentially falls off the bus.

One can test the bus with the eeprom and a variety of speeds and limit the number of timeouts before we giveup on trying to talk to the device by setting the retries threshold.

```
BCM.0> i2c ?
Usages:
        i2c probe [pio|intr]
          - probe devices on I2C bus and build device tree.
            If "intr" or "pio" is specified, use that bus mode.
        i2c retries [count]
          - set number of handshake attempts.
        i2c show
          - show devices found and their attributes.

BCM.0> i2c retries
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x80]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, ACK Received]
eep24c64_write(0,0,a200,128,24032): failed to gen start
64KB write took 10.13 sec 6.31KB/sec
    EEPROM error: write failed: I2C device timed out
    Reading 65536 bytes ...
64KB read took 6.72 sec 9.52KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> i2c retries 5
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM 65524 bytes cksum=0x71b7
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x0]
64KB write took 16.01 sec 4.00KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
```

```
64KB read took 6.72 sec 9.52KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> nv w 1 0
Using NVRAM device: nvram0
BCM.0> i2c p p 150
soc_i2c_set_freq: i2c0 speed=150.00KHz (153600)
soc_i2c_set_freq: i2c0: just set M=8 N=0: 138.89KHz
BCM5680_A0/i2c0: mode=PIO speed=150Kbps slave_addr=0x44
BCM.0> nv w 1 0
Using NVRAM device: nvram0
eep24c64_write(0,0,1,0,-30): failed to gen start
Error: write of byte at 0x1 failed:I2C device timed out
BCM.0> i2c p p 150
soc_i2c_set_freq: i2c0 speed=150.00KHz (153600)
soc_i2c_set_freq: i2c0: just set M=8 N=0: 138.89KHz
BCM5680_A0/i2c0: mode=PIO speed=150Kbps slave_addr=0x44
BCM.0> nv w 1 0
Using NVRAM device: nvram0
eep24c64_write(0,0,1,0,-30): failed to gen start
Error: write of byte at 0x1 failed:I2C device timed out
BCM.0> i2c p p 100
soc_i2c_set_freq: i2c0 speed=100.00KHz (102400)
soc_i2c_set_freq: i2c0: just set M=12 N=0: 96.15KHz
BCM5680_A0/i2c0: mode=PIO speed=100Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x80]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
64KB write took 18.38 sec 3.48KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
64KB read took 8.64 sec 7.40KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0> i2c
BCM5680_A0/i2c0/nvram0 @0xa0 [Atmel 24C64 (64Kbit) Serial EEPROM #0]
nvram0: driver attached
    172684 bytes transmitted
    196668 bytes received
    Read@0x17ec74
    Write@0x17ec78
    Ioctl@0x17ec7c
    Load@0x17ec80
BCM.0> i2c retries 100
BCM.0> i2c p p 2000
soc_i2c_set_freq: i2c0 speed=1.95MHz (2048000)
```

```
soc_i2c_set_freq: i2c0: just set M=0 N=0: 1.25MHz
BCM5680_A0/i2c0: mode=PIO speed=2000Kbps slave_addr=0x44
BCM.0> nv w 0 1
Using NVRAM device: nvram0
eep24c64_write(0,0,0,1,1): failed to gen start
Error: write of byte at 0x0 failed:I2C device timed out
BCM.0> i2c p p 120
soc_i2c_set_freq: i2c0 speed=120.00KHz (122880)
soc_i2c_set_freq: i2c0: just set M=10 N=0: 113.64KHz
BCM5680_A0/i2c0: mode=PIO speed=120Kbps slave_addr=0x44
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM 65524 bytes cksum=0x71b7
BCM.0> nv w 0 1
Using NVRAM device: nvram0
BCM.0> i2c p p 120
soc_i2c_set_freq: i2c0 speed=120.00KHz (122880)
soc_i2c_set_freq: i2c0: just set M=10 N=0: 113.64KHz
BCM5680_A0/i2c0: mode=PIO speed=120Kbps slave_addr=0x44
NOTICE: EEPROM contents invalid or bad checksum.
BCM5680_A0/i2c0/nvram0: 24C64 Serial EEPROM
BCM5680_A0/i2c0/nvram0: testing data integrity data=0x178924,len=65536bytes
    Writing 65536 bytes [pattern=0x0]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
BCM5680_A0/i2c0:STATUS:[Data Byte Transmitted, NO ACK Received]
64KB write took 11.52 sec 5.55KB/sec
    65536 bytes written OK
    Reading 65536 bytes ...
64KB read took 2.87 sec 22.30KB/sec
    65536 bytes read OK
    EEPROM test passed (65536 bytes verified).
BCM.0>
```

From the data above, it looks like 120Khz is the fastest setting we can use with MPC8240 and the 24C64 in PIO mode. Note that since the driver is performing a lot of retries at this speed, 100Khz is probably optimal. Similar strategies can be employeed for debugging and tuning other devices.

Known Issues

This driver supports master-mode only at this time. Currently, slave
mode is supported only in HW.

When soc_i2c_attach is invoked, the bus driver programs every PCI
chip with a new slave address based on the algorithm: addr = 0x60 (Default) *
pci_devid * 4, hence each I2C bus will have a unique slave address at
a multiple of 4, and multiple PCI bus-controller chips is possible in
multi-switch systems.

Note: The I2C controller will automatically enter slave transmit mode
if it receives it's own Slave address with the read bit set.
Similarly, the I2C controller will automatically enter slave receive
mode if it receives it's own slave address and the write bit, or the
general call address. The implication is that, at the time of this
writing, you cannot have two masters with the same slave address or
use the General call address while one of the chips is an I2C master.

References

* StrataSwitch Register Reference (BCM56xx), Broadcom Corporation
  http:/www.broadcom.com/
* The I2C Bus Specification : Version 2.1, Phillips Semiconductor
  http://www.semiconductors.philips.com/i2c/
* LM75 Databook, National Semiconductor
  http://www.national.com/
* 24C64 64K I2C EEPROM Data Sheet, Atmel Corporation
  http://www.atmel.com/
* MAX127 A/D Converter, Dallas/MAXIM Semiconductor
  http://www.maxim-ic.com/
* W229b Clock Generator Databook, Cypress Semiconductor
  http://www.cypress.com/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/i2c/README
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*                                                                            *
*  Revision      :  $Id: falcon_api_uc_common.h 661 2014-08-14 23:20:49Z kirand $  *
*                                                                            *
*  Description   :  Defines and Enumerations required by Falcon ucode        *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                        *
*                                                        *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/sesto_serdes/falcon_furia_sesto_src/falcon_sesto_api_uc_common.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon_madura_src/falcon_madura_api_uc_common.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcmx/ipmc.c
* Purpose: BCMX IP Multicast APIs
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/ipmc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmd_cint.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cmd_cint.h
* Purpose:     Interfaces to diag shell CINT functions
*
* Note - this file needs to be includable by cint_yy.h, so cannot include any
* SDK interfaces directly.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/cmd_cint.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id:dfe_config_defs.csv,v 1.1.2.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* DO NOT EDIT THIS FILE!
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/dfe_defines_cint_data.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm_export.h
* Purpose: BCM API routines export symbols
* Generator: mkdispatch 1.54
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/bcm_export.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_lif_table.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_lif_table.h
*
* MODULE PREFIX:  soc_ppd_lif
*
* FILE DESCRIPTION:
*
* REMARKS:
```

* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_lif_table.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mstp.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/mstp.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsPriLutEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsPriLutEntryConsole.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: northstar_service.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/northstar_service.h
No license file was found, but licenses were detected in source scan.

/*

```
* $Id: linux_dma.c,v 1.414 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Linux Kernel BDE DMA memory allocation
*
*
* DMA memory allocation modes
* ===========================
*
* 1. Using private pool in kernel memory
* --------------------------------------
* In this mode the BDE module will try to assemble a physically contiguous
* of memory using the kernel page allocator. This memory block is then
* administered by the mpool allocation functions. Note that once a system
* has been running for a while, the memory fragmentation may prevent the
* allocator from assembling a contiguous memory block, however, if the
* module is loaded shortly after system startup, it is very unlikely to
* fail.
*
* This allocation method is used by default.
*
* 2. Using private pool in high memory
* ------------------------------------
* In this mode the BDE module will assume that unused physical memory is
* present at the high_memory address, i.e. memory not managed by the Linux
* memory manager. This memory block is mapped into kernel space and
* administered by the mpool allocation functions. High memory must be
* reserved using either the mem=xxx kernel parameter (recommended), or by
* hardcoding the memory limit in the kernel image.
*
* The module parameter himem=1 enables this allocation mode.
*
* 3. Using kernel allocators (kmalloc, __get_free_pages)
* ------------------------------------------------------
* In this mode all DMA memory is allocated from the kernel on the fly, i.e.
* no private DMA memory pool will be created. If large memory blocks are
* only allocated at system startup (or not at all), this allocation method
* is the most flexible and memory-efficient, however, it is not recommended
* for non-coherent memory platforms due to an overall system performance
* degradation arising from the use of cache flush/invalidate instructions.
*
* The module parameter dmasize=0M enables this allocation mode, however if
* DMA memory is requested from a user mode application, a private memory
* pool will be created and used irrespectively.
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/bde/linux/kernel/linux_dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_mac_ctrl.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_mac_ctrl.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassPortEnablesEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbClassPortEnablesEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topology.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topology.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/stktask/topology.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mim.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* Mac-in-Mac initializers
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/mim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwWdtEntry.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwWdtEntry.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200BwWdtEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnx_shr_template.c,v 1.21 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Global template management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/dnx_shr_template.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rcpu.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This header file defines RCPU packet formats and soc layer API.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/rcpu.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*  $Id$
*  Firmware Version : 0xD017
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/sesto/tier1/merlin_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_eval_asts.c,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_eval_asts.c
* Purpose:     CINT AST evaluators
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_eval_asts.c
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56542sanity.soc,v 1.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56543 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x2
local pbmhg 0x1ffe00000
```

```
local pbmport 0x1ffe00002

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn
```

```
rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

fb4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests
tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
```

```
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

echo "Testing MAC Loopback - 11 Gb/s HG ports"
tr 18 PortBitMap=hg2,hg3 Speed=11G
$done

echo "Testing MAC Loopback - 11 Gb/s HG ports"
tr 18 PortBitMap=hg0,hg1 Speed=11G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
tr 19 PortBitMap=$pbmge Speed=1000
$done

echo "Testing PHY Loopback - 11 Gb/s all HG21 ports"
tr 19 PortBitMap=hg2,hg3 speed=11G; $done'

echo "Testing PHY Loopback - 11 Gb/s all HG42 ports"
tr 19 PortBitMap=hg0,hg1 Speed=11G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmhg
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmhg
$done

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
```

```
$done

echo "Running Traffic Test on HG21 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=hg0,hg1 c=10 sp=21G
$done

echo "Running Traffic Test on HG21 ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=hg0,hg1 c=10 sp=21G
$done

echo "Running Traffic Test on HG42 ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=hg0,hg1 c=10 sp=42G
$done

echo "Running Traffic Test on HG42 ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=hg0,hg1 c=10 sp=42G
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
```

```
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56543sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysNvRam.c,v 1.2 2011/07/21 16:14:38 yshtil Exp $
*****************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
*****************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/sysNvRam.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    flashDrvLib.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56150/flashDrvLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_n.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_n.i
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: async_server.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Asynchronous BCM API Server
*
* Most of the support routines and header definitions for async api
* routines are generated by mkdispatch:
*
* User access:
* include/bcm/async.h  user declarations of bcm_*_async routines
* src/bcm/async.c  bcm_*_async routines
* include/bcmx/async.h  user declarations of bcmx_*_async routines
* src/bcmx/async.c  bcmx_*_async routines
*
* Internal async server support:
* include/bcm_int/async_req.h bcm async request definition
* include/bcm_int/xasync_req.h bcmx async request definition
* src/bcm/async_run.c  execution of bcm async request
* src/bcmx/async_run.c  execution of bcmx async request
```

```
*
* bcmx and bcm async requests share a common header format that is used
* by the routines in this file.
*
* This file provides the actual async execution server thread and
* the queueing routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/async_server.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: quadra28_ucode.c $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_ucode.c
No license file was found, but licenses were detected in source scan.

```
echo "testsuite: started: sanity"
# $Id: bcm88650sanity.soc,v 1.30 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Jericho (BCM88670) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#
local done 'echo "   Done";date'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
#ts -*
```

```
#Clear test statistics
tc *

#Display some useful information
date

##########################################################################

#Start Test
echo "Running tr 141"
tr 141 r=1
$done

echo 'Running tr 141 NoAttach=1';
tr 141 NoAttach=1;
echo '   Done';date


echo 'Running tr 141 ErrorOnLeak=1';
tr 141 ErrorOnLeak=1;
echo '   Done';date

echo 'Running: tr 141 NoInit=1 , than: tr 141 NoDenit=1';
tr 141 NoInit=1 NoAttach=1;
tr 141 NoDeinit=1 NoAttach=1;
echo '   Done';date

echo "Running tr 141 (warmboot)"
tr 141 repeat=1 Warmboot=1
$done

### CPU Packet (tr 40)
# Dont use fabric
tr 141; \
s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1

# Port 0 -> static forwarding to port 0exit
mod IHP_PINFO_LLR 0 1 DEFAULT_CPU_TRAP_CODE=200 DEFAULT_ACTION_PROFILE_FWD=7; \
mod IHB_FWD_ACT_PROFILE 200 1 FWD_ACT_DESTINATION=0x40063
FWD_ACT_DESTINATION_OVERWRITE=1; \
s CMIC_CMC0_CH1_COS_CTRL_RX_0 0xffffffff; \
s CMIC_CMC0_CH1_COS_CTRL_RX_1 0xffffffff

echo 'Send packet (tr 40)...'; \
tr 40 Tagged=true LengthStart=128 LengthEnd=164 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:0c:00:01:00:00 MacSrc=00:00:00:e3:00:00 UseFile=false; \
echo '   Done';date;
```

```
echo 'Running PCI Compliance (tr 2)...'; \
tr 2; \
echo '   Done';date;

echo 'Running PCI S-Channel Buf (tr 4)...'; \
tr 4; \
echo '   Done';date;


echo 'Running Register read/write (tr 3)...'; \
tr 3 ; \
echo '   Done';date;

echo 'TR 30 ...'; \
tr 30; \
echo '   Done';date;

echo 'TR 31 ...'; \
tr 31; \
echo '   Done';date;


echo 'tr 60 ...'; \
tr 60; \
echo '   Done';date;

echo 'tr 50 m=IDR_CONTEXT_MRU, EGQ_DSP_PTR_MAP ...'; \
tr 50 m=IDR_CONTEXT_MRU; \
tr 50 m=EGQ_DSP_PTR_MAP; \
echo '   Done';date;

echo 'tr 51 m=IDR_CONTEXT_MRU, IHB_FWD_ACT_PROFILE, EGQ_PCT...'; \
tr 51 m=IDR_CONTEXT_MRU; \
tr 51 m=IHB_FWD_ACT_PROFILE; \
tr 51 m=EGQ_PCT; \
echo '   Done';date;

echo 'tr 52 m=IDR_CONTEXT_MRU, IPS_QTYPE...'; \
tr 52 m=IDR_CONTEXT_MRU; \
tr 52 m=IPS_QTYPE; \
echo '   Done';date;

echo 'tr 71 m=IDR_CONTEXT_MRU, EGQ_PPCT...'; \
tr 71 m=IDR_CONTEXT_MRU; \
tr 71 m=EGQ_PPCT; \
echo '   Done';date;
```

```
echo 'Memory R/W first & last test (tr 7)...'; \
tr 7; \
echo '   Done';date;

echo 'Memory flip flop test (tr 8)...'; \
tr 8; \
echo '   Done';date;

echo 'Running Register reset defaults (tr 1) ...'; \
tr 1; \
echo '   Done';date;

tr 141 NoPktRx=1; \
echo 'TX reload test(tr 90)...'; \
tr 90; \
echo '   Done';date;

echo 'RX reload test(tr 91)...'; \
tr 91; \
echo '   Done';date;

echo 'Packet receive test(tr 41)...'; \
tr 41; \
echo '   Done';date;

echo 'Dram bist test (tr 140)...';
tr 140 DramNdx=0xff AllAdress=1;
echo '   Done';date

#Start Cache Mem Test
echo "Running Cache Mem Tests "
tr 152 test_type=1 write_type=0 pattern=3 part=0 mem_id=0
tr 152 test_type=1 write_type=1 pattern=3 part=0 mem_id=0

#Test ac-mp lif and tunnel termination lif learning information encoding
echo 'ac-mp lif and tunnel termination lif learning info encoding (tr 155)...'; \
tr 155; \
echo '   Done';date;

#ser test for all memories
echo 'ser test for all memories (tr 153)...'; \
tr 153 RunAll=1; \
echo '   Done';date;

#Test export dump
#echo 'export dump (tr 156)...'; \
#tr 156; \
#echo '   Done';date;
```

```
##########################################################################

date
tl
local returnCode $?
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88680sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socintf.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Requires:
*     Socket library
*
*
* Provides:
*     setup_socket
*     wait_for_cnxn
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/bcm-diag-proxy/socintf.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: tscmod_defines.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators and tscmod_st
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/include/tscmod_defines.h
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_command.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_command.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer_pp_kaps_diag.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
****
Copyright 2009-2014 Broadcom Corporation

This program is the proprietary software of Broadcom Corporation and/or its licensors,
and may only be used, duplicated, modified or distributed pursuant to the terms and
conditions of a separate, written license agreement executed between you and
Broadcom (an "Authorized License").Except as set forth in an Authorized License,
Broadcom grants no license (express or implied),right to use, or waiver of any kind
with respect to the Software, and Broadcom expressly reserves all rights in and to
the Software and all intellectual property rights therein.
IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY
WAY,AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE OF THE SOFTWARE.

Except as expressly set forth in the Authorized License,

1. This program, including its structure, sequence and organization, constitutes the
   valuable trade secrets of Broadcom, and you shall use all reasonable efforts to
   protect the confidentiality thereof,and to use this information only in connection
   with your use of Broadcom integrated circuit products.

2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED "AS IS" AND WITH
   ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS OR WARRANTIES, EITHER
   EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT TO THE SOFTWARE. BROADCOM

SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES, ACCURACY OR
COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR CORRESPONDENCE TO
DESCRIPTION.
YOU ASSUME THE ENTIRE RISK ARISING OUT OF USE OR PERFORMANCE OF THE SOFTWARE.

3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM OR ITS
LICENSORS
BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR EXEMPLARY
DAMAGES
WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO YOUR USE OF OR INABILITY TO
USE
THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGES;
OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE ITSELF
OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING
ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY.
****
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/include/soc/dpp/JER/JER_PP/jer_pp_kaps_diag.h
No license file was found, but licenses were detected in source scan.

```
/*********************************************************************************************
*                                                                                            *
*  Revision      :  $Id: phy8806x_tsc_debug_functions.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                                            *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                 *
*  the written permission of:                                                        *
*      Broadcom Corporation                                                           *
*      5300 California Avenue                                                         *
*      Irvine, CA  92617                                                             *
*                                                                                            *
*  All information contained in this document is Broadcom Corporation                 *
*  company private proprietary, and trade secret.                                    *
*                                                                                            *
*********************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/phy8806x/tier1/phy8806x_tsc_debug_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbPoliceCfgCtrlEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaRbPoliceCfgCtrlEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: soc_tmcapi_header_parsing_utils.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_header_parsing_utils.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pcicfg.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* pcicfg.h: PCI configuration  constants and structures.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/pcicfg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_appl_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for fe3200 interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_intr_cb_func.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk2/switch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/greyhound/switch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane3/switch.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_frwrd_mact_mgmt.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_frwrd_mact_mgmt.c
*
* MODULE PREFIX:  soc_ppc_frwrd
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_frwrd_mact_mgmt.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: saber2.h,v 1.34 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       saber2.h
```

* Purpose: Function declarations for Saber2 bcm functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/saber2.h
No license file was found, but licenses were detected in source scan.

/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm56450_a0.c
* Purpose: bcm56450_a0 chip specific information (register, memories, etc)
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56450_a0.c
No license file was found, but licenses were detected in source scan.

/* $Id: jer_pp_kaps.h, hagayco Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/JER/JER_PP/jer_pp_kaps.h
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

****
* Events & their arguments *
****

This document comes to describe the events and the meaning of their arguments
to a callback function registered by the application to be notified when one of
these events occurs.
In order to be notified when one of the events described bellow has happened,
application should use bcm_esw_switch_event_register API to register a callback
function together with a userdata. Same call back function with different
userdata is allowed to be registered.

The events chip could generate
****

BCM_SWITCH_EVENT_IO_ERROR - Error caused by accesing PCI bus.
BCM_SWITCH_EVENT_PARITY_ERROR - Parity or ECC error during internal memory access.
BCM_SWITCH_EVENT_THREAD_ERROR - Critical error after witch thread must end its life.
BCM_SWITCH_EVENT_ACCESS_ERROR - Illegal acces to any of internal registers or schan operations.
BCM_SWITCH_EVENT_ASSERT_ERROR - Any time an assert has happened application should be notified.
BCM_SWITCH_EVENT_AUTONEG_SPEED_ERROR - Auto negotiated speed is not supported.

Recommended actions
****
Registered callback function will take an event type and 3 arguments as parameters
that mostly should be used by the application to log them and report to Broadcom.

Event - BCM_SWITCH_EVENT_IO_ERROR
BCM_SWITCH_EVENT_PARITY_ERROR
BCM_SWITCH_EVENT_THREAD_ERROR
BCM_SWITCH_EVENT_ACCESS_ERROR
BCM_SWITCH_EVENT_ASSERT_ERROR

If the registered callback for these types of event been called it is mostly recommended
to reset the chip, otherwise none of any expected behavior can not be guaranteed.

Event - BCM_SWITCH_EVENT_AUTONEG_SPEED_ERROR

If the registered callback for this type of event been called, it is
recommended to:
Remove the unsupported speed from AN Advertisement ability and re-start AN,
so port could auto negotiate into a new speed.
Or, disable the Serdes/PHY so the peer could be notified link down.

Arguments meaning for each type of events

****

Event - BCM_SWITCH_EVENT_THREAD_ERROR
---
arg1 - A thread ID, local enum of thread identifier defined in include\soc\error.h file
arg2 - A line number this event was generated from. (__LINE__)
arg3 - An error return code of operation that triggered the event.

Event - BCM_SWITCH_EVENT_ASSERT_ERROR
---
arg1 - A pointer to a file in which the assert took place. (__FILE__)
arg2 - A line number this event was generated from. (__LINE__)
arg3 - 0 if 32 bit build is used and upper 32 bits of a pointer to a file in case of 64 bits build.

Event - BCM_SWITCH_EVENT_ACCESS_ERROR
---
arg1 - SCHAN command, word 0 of schan_op
arg2 - Address bit of schan_op. (w1 of schan_op)
arg3 - Failure code. (error info word)

Event - BCM_SWITCH_EVENT_IO_ERROR
---
arg1 - Internal identifier DMA or CPU
arg2 - PCI address that triggered the error. (0xfff if N/A)
arg3 - Type of IO error parity or fail

Event - BCM_SWITCH_EVENT_PARITY_ERROR
---
arg1 - Parity or ECC error identifier (soc_switch_data_error_t).
arg2 - Memory offset.
arg3 - Device-specific unique instance identifier.

Event - BCM_SWITCH_EVENT_AUTONEG_SPEED_ERROR
---
arg1 - Port number
arg2 - Auto negotiated speed
arg3 - Failure return code

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/events.txt
No license file was found, but licenses were detected in source scan.

```
/* $Id: ramon_fe1600_mbist.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxf/fe1600/fe1600_mbist.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: m24lv128Eeprom.c,v 1.2 2011/07/21 16:14:37 yshtil Exp $
*****************************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
******************************************************************************
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/metrocore/vxworks6x/bcm1125/m24lv128Eeprom.c
No license file was found, but licenses were detected in source scan.

```
/**
* $Id: ocm_diags_c.stg,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_diags.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_flow_control.c,v 1.59 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/jer_flow_control.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_flow_control.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQmWredParamEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQmWredParamEntry.hx
No license file was found, but licenses were detected in source scan.

/*
* $Id: tdm_filter.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core filtering functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_filter.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: link.c,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* Hardware Linkscan module
*
* Hardware linkscan is available, but its use is not recommended
* because a software linkscan task is very low overhead and much more
* flexible.
*
* If hardware linkscan is used, each MII operation must temporarily
* disable it and wait for the current scan to complete, increasing the
* latency.  PHY status register 1 may contain clear-on-read bits that
* will be cleared by hardware linkscan and not seen later.  Special
* support is provided for the Serdes MAC.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_1x100g_1xil100.h,v 1.2.24.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_4cos_1x100g_1xil100.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/socdiag.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alloc.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  alloc.h
* Purpose:  Memory allocation
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/core/alloc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi3Selected_1Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaHi3Selected_1Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dfe/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: polar_service.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo/polar_service.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_oam_acc.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_oam_acc.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: port.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/hurricane/port.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_eg_encap.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_encap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_eg_encap.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_eg_filter.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: trunk.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* IPMC Internal header
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/trunk.h
No license file was found, but licenses were detected in source scan.

/**********

```
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon2_madura_dependencies.h 1340 2016-02-04 22:50:01Z kirand $ *
*                                                                                       *
*  Description   :  API Dependencies to be provided by IP user                          *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/madura/tier1/madura_serdes/falcon2_madura_src/falcon2_madura_dependencies.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id: negev_rpc_slave.soc,v 1.2 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

local master_mac 00:10:18:7F:F2:68
local master_ip 10.184.6.50
local slave1_mac 00:10:18:7F:F1:50
local slave1_ip 10.184.6.44

local delay 4

echo This unit: Slave
echo slave1_mac=$slave1_mac
echo slave1_ip=$slave1_ip
echo Other unit: Master
echo master_mac=$master_mac
echo master_ip=$master_ip
echo ********************

cpudb newdb
```

```
cpudb add key=$slave1_mac local=t
cpudb add key=$master_mac
cts atp trans sock server start

sleep $delay

cts atp trans sock inst dk=$master_mac dip=$master_ip

sleep $delay

cts atp cos=0 vlan=1
rpc nonexthop
rpc start
cte reg mode=atp

sleep $delay

echo Testing CPU-to-CPU ATP connection.
cte echo string="hello there" mode=atp dk=$master_mac
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/negev_rpc_slave.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ccmdma.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ccmdma.h
* Purpose:    Maps out structures used for CCMDMA operations and
*             exports routines.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ccmdma.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  srds_api_err_code.h                                    *
*  Created On    :  18/09/2013                                             *
*  Created By    :  Kiran Divakar                                          *
*  Description   :  Header file with Error Code enums                      *
*  Revision      :  $Id: srds_api_err_code.h 1078 2015-07-07 23:43:37Z kirand $ *
*                                                                          *
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                        *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                  *
*      Broadcom Corporation                                     *
*      5300 California Avenue                                   *
*      Irvine, CA  92617                                       *
*                                                    *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                        *
*                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/chip/koi/merlin_koi_src/common/srds_api_err_code.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       gport.c
* Purpose:     Device gport commands.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/gport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius.h,v 1.98 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SIRIUS Internal header
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/sirius.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashSVlanIPv6Console.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashSVlanIPv6Console.hx
No license file was found, but licenses were detected in source scan.

```
/*
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbconfig.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/pciConfigLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/vx_osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/cacheLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmendian.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/pciConfigLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bcmendian.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/ethernet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmdevs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/cacheALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/vx_osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_priv.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/trxhdr.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/vx_osl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/sysALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/cacheALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bitfuncs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbpci.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/ethernet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bitfuncs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbpcmcia.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmdevs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbsdram.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/et_dbg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_export.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/bcmdevs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/etsockio.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/hnddma.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_vx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/sysALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmenetmib.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/proto/iline.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/et_dbg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmenet47xx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/etc.c

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbmemc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/vx_osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/sbmemc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sysALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/hnddma.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/etc47xx.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sbextif.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/ethernet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/vx_osl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/bitfuncs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/sbmemc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/bcmendian.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/osl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/proto/ilcp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/bcmenetrxh.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/cacheLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/proto/ethernet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/cacheALib.s
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/vx_osl.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/cacheLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/hnbutypedefs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/et_dbg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/etc.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: greyhound.c,v 1.1.8.56 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       greyhound.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sirius_cmds.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       sirius_cmds.h
* Purpose:     SIRIUS diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/sirius_cmds.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_doc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/all_doc.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_sa_auth.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
```

```
*
* FILENAME:       DuneDriver/ppc/src/soc_ppc_api_llp_sa_auth.c
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPC/ppc_api_llp_sa_auth.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: loopback.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Loopback Test definitions.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/loopback.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jerp_appl_intr_cb_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement CallBacks function for JER interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JERP/jerp_intr_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmu_hash_ut.c,v 1.23 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/tmu_hash_ut.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEbMvtAddress.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEbMvtAddress.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: dune.soc,v 1.5 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Configure fap device mode (TM/PP/TDM_OPTIMIZED/TDM_STANDARD)
# and ftmh outlif extension depending on config variables 'packet_processing' and 'tdm' variables
if $?tdm "\
 echo '*** TDM MODE ***'; \
 config add diag_cosq_disable=1; \
 if !$?fap_device_mode 'config add fap_device_mode=TDM_STANDARD'; \
 config add fabric_ftmh_outlif_extension=ALWAYS; \
 config ext_qdr_type=NONE; \
 config ext_ram_present=0"
if !$?tdm && $?packet_processing "\
 echo '*** PACKET PROCESSING MODE ***'; \
 config add fabric_ftmh_outlif_extension=ALWAYS; \
 config add fap_device_mode=PP; \
 config add egress_encap_ip_tunnel_range_min=4095; \
 config add egress_encap_ip_tunnel_range_max=4095; \
 config add mpls_tunnel_term_label_range_min_0=1000; \
 config add mpls_tunnel_term_label_range_max_0=1001; \
 config add mpls_tunnel_term_label_range_min_1=1002; \
 config add mpls_tunnel_term_label_range_max_1=1003; \
 config add mpls_tunnel_term_label_range_min_2=1004; \
 config add mpls_tunnel_term_label_range_max_2=1005; \
 if !$?diag_cosq_disable 'config add diag_cosq_disable=0';"
```

```
if !$?tdm && !$?packet_processing "\
 echo '*** TM ONLY MODE ***'; \
 config add fap_device_mode=TM; \
 config add fabric_ftmh_outlif_extension=IF_MC; \
 if !$?diag_cosq_disable 'config add diag_cosq_disable=0'"

# When more than a single device, set connect mode to FE and modid
# to the slot id. For a single device, set connect mode to SINGLE_FAP
# and modid to 0. Note that when using single_fap, all fabric-facing serdes
# lanes are set in loopback, for fabric multicast to work.
# All options for fabric_connect_mode are FE/BACK2BACK/MESH/MULTI_STAGE_FE/SINGLE_FAP

if !$?diag_cosq_disable "config add diag_cosq_disable=0"
if !$?slot || !$?diag_chassis "local slot 0"
if !$?board_type_GFA_BI "local board_type_GFA_BI 1"
if !$?board_type_GFA_BI_2 "local board_type_GFA_BI_2 0"

if $?diag_chassis " \
 local nof_devices 2; \
 config add fabric_connect_mode=FE" \
else "\
 local nof_devices 1; \
 if !$?fabric_connect_mode 'config add fabric_connect_mode=SINGLE_FAP'"

#Enable all quartets. Can be done per quartet using _N suffix
config add pb_serdes_qrtt_active=1

local lane_rate_nif 6250000
local lane_rate_com_a 6250000
if $board_type_GFA_BI "\
   local lane_rate_fbr 5000000; \
   local lane_rate_com_b 3125000; \
   config add fabric_ref_clock=250000; \
   config add combo_nif_0=1; \
   config add combo_nif_1=1" \
else "\
   local lane_rate_fbr 6250000; \
   local lane_rate_com_b 6250000; \
   config add fabric_ref_clock=312500; \
   config add combo_nif_0=0; \
   config add combo_nif_1=0; \
   for i=32,59 \'config add pb_serdes_lane_tx_phys_media_type_$i=CHIP2CHIP\"

# Nif serdes quartets
for i=0,2 'config add pb_serdes_qrtt_max_expected_rate_$i=$lane_rate_nif'
for i=4,6 'config add pb_serdes_qrtt_max_expected_rate_$i=$lane_rate_nif'

# Nif serdes quartet (combo-a)
```

```
config add pb_serdes_qrtt_max_expected_rate_3=$lane_rate_com_a

# Nif serdes quartet (combo-b)
config add pb_serdes_qrtt_max_expected_rate_7=$lane_rate_com_b

# Fabric serdes quartets
for i=8,14 'config add pb_serdes_qrtt_max_expected_rate_$i=$lane_rate_fbr'

# set default rate to nif rate. Override fabric lanes.
config add pb_serdes_lane_rate=$lane_rate_nif
for i=12,15 'config add pb_serdes_lane_rate_$i=$lane_rate_com_a'
for i=28,31 'config add pb_serdes_lane_rate_$i=$lane_rate_com_b'
for i=32,59 'config add pb_serdes_lane_rate_$i=$lane_rate_fbr'

# Board Type configuration.

if $board_type_GFA_BI "\
  echo Configure GFA_BI Port/Interfcae/Nif/SerDes parameters; \
  config add ucode_port_1=RXAUI7; \
  config add ucode_port_2=RXAUI6; \
  config add ucode_port_3=XAUI7; \
  config add ucode_port_4=RXAUI0; \
  config add ucode_port_5=RXAUI2; \
  config add ucode_port_6=RXAUI4; \
  config add ucode_port_7=RXAUI12; \
  config add ucode_port_8=RXAUI10; \
  config add ucode_port_9=RXAUI8; \
  config add pb_serdes_lane_swap_polarity_tx_9=1; \
  config add pb_serdes_lane_swap_polarity_tx_29=1; \
  config add pb_serdes_lane_swap_polarity_rx_13=1; \
  config add pb_serdes_lane_swap_polarity_rx_18=1; \
  config add pb_serdes_lane_swap_polarity_rx_22=1; \
  config add pb_serdes_lane_swap_polarity_rx_30=1; \
  config add pb_serdes_lane_swap_polarity_rx_31=1; \
  config add pb_serdes_lane_rx_phys_zcnt=23; \
  config add pb_serdes_lane_rx_phys_z1cnt=1; \
  config add pb_serdes_lane_rx_phys_dfelth=20; \
  config add pb_serdes_lane_rx_phys_tlth=20; \
  config add pb_serdes_lane_rx_phys_g1cnt=1; \
  config add pb_serdes_lane_tx_phys_amp_12=30; \
  config add pb_serdes_lane_tx_phys_main_12=18; \
  config add pb_serdes_lane_tx_phys_pre_12=3; \
  config add pb_serdes_lane_tx_phys_post_12=13; \
  config add pb_serdes_lane_tx_phys_amp_13=30; \
  config add pb_serdes_lane_tx_phys_main_13=18; \
  config add pb_serdes_lane_tx_phys_pre_13=3; \
  config add pb_serdes_lane_tx_phys_post_13=13; \
  config add pb_serdes_lane_tx_phys_amp_14=30; \
```

```
    config add pb_serdes_lane_tx_phys_main_14=18; \
    config add pb_serdes_lane_tx_phys_pre_14=3; \
    config add pb_serdes_lane_tx_phys_post_14=13; \
    config add pb_serdes_lane_tx_phys_amp_15=30; \
    config add pb_serdes_lane_tx_phys_main_15=18; \
    config add pb_serdes_lane_tx_phys_pre_15=3; \
    config add pb_serdes_lane_tx_phys_post_15=13;"

  if $board_type_GFA_BI "\
    config add pb_serdes_lane_rx_phys_zcnt_3=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_3=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_3=15;  \
    config add pb_serdes_lane_rx_phys_tlth_3=18;  \
    config add pb_serdes_lane_rx_phys_g1cnt_3=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_12=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_12=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_12=1;  \
    config add pb_serdes_lane_rx_phys_tlth_12=8;  \
    config add pb_serdes_lane_rx_phys_g1cnt_12=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_13=18;  \
    config add pb_serdes_lane_rx_phys_z1cnt_13=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_13=0;  \
    config add pb_serdes_lane_rx_phys_tlth_13=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_13=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_14=17;  \
    config add pb_serdes_lane_rx_phys_z1cnt_14=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_14=2;  \
    config add pb_serdes_lane_rx_phys_tlth_14=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_14=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_15=19;  \
    config add pb_serdes_lane_rx_phys_z1cnt_15=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_15=0;  \
    config add pb_serdes_lane_rx_phys_tlth_15=0;  \
    config add pb_serdes_lane_rx_phys_g1cnt_15=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_28=12;  \
    config add pb_serdes_lane_rx_phys_z1cnt_28=0;  \
    config add pb_serdes_lane_rx_phys_dfelth_28=0;  \
    config add pb_serdes_lane_rx_phys_tlth_28=0;  \
    config add pb_serdes_lane_rx_phys_g1cnt_28=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_29=12;  \
    config add pb_serdes_lane_rx_phys_z1cnt_29=0;  \
    config add pb_serdes_lane_rx_phys_dfelth_29=0;  \
    config add pb_serdes_lane_rx_phys_tlth_29=0;  \
    config add pb_serdes_lane_rx_phys_g1cnt_29=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_30=12;  \
    config add pb_serdes_lane_rx_phys_z1cnt_30=0;  \
    config add pb_serdes_lane_rx_phys_dfelth_30=0;  \
    config add pb_serdes_lane_rx_phys_tlth_30=0;  \
```

```
   config add pb_serdes_lane_rx_phys_g1cnt_30=1;  \
   config add pb_serdes_lane_rx_phys_zcnt_31=12;  \
   config add pb_serdes_lane_rx_phys_z1cnt_31=0;  \
   config add pb_serdes_lane_rx_phys_dfelth_31=0;  \
   config add pb_serdes_lane_rx_phys_tlth_31=0;  \
   config add pb_serdes_lane_rx_phys_g1cnt_31=1;"

# TX params for fabric rate of 5000 mbps (Negev system).
# Overrides media type configuration.
if $board_type_GFA_BI "\
   config add pb_serdes_lane_tx_phys_amp_32=31; \
   config add pb_serdes_lane_tx_phys_main_32=24; \
   config add pb_serdes_lane_tx_phys_pre_32=0; \
   config add pb_serdes_lane_tx_phys_post_32=0; \
   config add pb_serdes_lane_tx_phys_amp_33=31; \
   config add pb_serdes_lane_tx_phys_main_33=24; \
   config add pb_serdes_lane_tx_phys_pre_33=0; \
   config add pb_serdes_lane_tx_phys_post_33=0; \
   config add pb_serdes_lane_tx_phys_amp_34=31; \
   config add pb_serdes_lane_tx_phys_main_34=24; \
   config add pb_serdes_lane_tx_phys_pre_34=0; \
   config add pb_serdes_lane_tx_phys_post_34=0; \
   config add pb_serdes_lane_tx_phys_amp_35=31; \
   config add pb_serdes_lane_tx_phys_main_35=24; \
   config add pb_serdes_lane_tx_phys_pre_35=0; \
   config add pb_serdes_lane_tx_phys_post_35=0; \
   config add pb_serdes_lane_tx_phys_amp_36=31; \
   config add pb_serdes_lane_tx_phys_main_36=24; \
   config add pb_serdes_lane_tx_phys_pre_36=0; \
   config add pb_serdes_lane_tx_phys_post_36=0; \
   config add pb_serdes_lane_tx_phys_amp_37=31; \
   config add pb_serdes_lane_tx_phys_main_37=24; \
   config add pb_serdes_lane_tx_phys_pre_37=0; \
   config add pb_serdes_lane_tx_phys_post_37=0; \
   config add pb_serdes_lane_tx_phys_amp_38=31; \
   config add pb_serdes_lane_tx_phys_main_38=24; \
   config add pb_serdes_lane_tx_phys_pre_38=0; \
   config add pb_serdes_lane_tx_phys_post_38=0; \
   config add pb_serdes_lane_tx_phys_amp_39=31; \
   config add pb_serdes_lane_tx_phys_main_39=24; \
   config add pb_serdes_lane_tx_phys_pre_39=0; \
   config add pb_serdes_lane_tx_phys_post_39=0; \
   config add pb_serdes_lane_tx_phys_amp_40=31; \
   config add pb_serdes_lane_tx_phys_main_40=24; \
   config add pb_serdes_lane_tx_phys_pre_40=0; \
   config add pb_serdes_lane_tx_phys_post_40=0; \
   config add pb_serdes_lane_tx_phys_amp_41=31; \
   config add pb_serdes_lane_tx_phys_main_41=24; \
```

```
    config add pb_serdes_lane_tx_phys_pre_41=0; \
    config add pb_serdes_lane_tx_phys_post_41=0; \
    config add pb_serdes_lane_tx_phys_amp_42=31; \
    config add pb_serdes_lane_tx_phys_main_42=24; \
    config add pb_serdes_lane_tx_phys_pre_42=0; \
    config add pb_serdes_lane_tx_phys_post_42=0"
  if $board_type_GFA_BI "\
    config add pb_serdes_lane_tx_phys_amp_43=31; \
    config add pb_serdes_lane_tx_phys_main_43=24; \
    config add pb_serdes_lane_tx_phys_pre_43=0; \
    config add pb_serdes_lane_tx_phys_post_43=0; \
    config add pb_serdes_lane_tx_phys_amp_44=31; \
    config add pb_serdes_lane_tx_phys_main_44=24; \
    config add pb_serdes_lane_tx_phys_pre_44=0; \
    config add pb_serdes_lane_tx_phys_post_44=0; \
    config add pb_serdes_lane_tx_phys_amp_45=31; \
    config add pb_serdes_lane_tx_phys_main_45=24; \
    config add pb_serdes_lane_tx_phys_pre_45=0; \
    config add pb_serdes_lane_tx_phys_post_45=0; \
    config add pb_serdes_lane_tx_phys_amp_46=31; \
    config add pb_serdes_lane_tx_phys_main_46=24; \
    config add pb_serdes_lane_tx_phys_pre_46=0; \
    config add pb_serdes_lane_tx_phys_post_46=0; \
    config add pb_serdes_lane_tx_phys_amp_47=31; \
    config add pb_serdes_lane_tx_phys_main_47=24; \
    config add pb_serdes_lane_tx_phys_pre_47=0; \
    config add pb_serdes_lane_tx_phys_post_47=0; \
    config add pb_serdes_lane_tx_phys_amp_48=31; \
    config add pb_serdes_lane_tx_phys_main_48=24; \
    config add pb_serdes_lane_tx_phys_pre_48=0; \
    config add pb_serdes_lane_tx_phys_post_48=0; \
    config add pb_serdes_lane_tx_phys_amp_49=31; \
    config add pb_serdes_lane_tx_phys_main_49=24; \
    config add pb_serdes_lane_tx_phys_pre_49=0; \
    config add pb_serdes_lane_tx_phys_post_49=0; \
    config add pb_serdes_lane_tx_phys_amp_50=31; \
    config add pb_serdes_lane_tx_phys_main_50=24; \
    config add pb_serdes_lane_tx_phys_pre_50=0; \
    config add pb_serdes_lane_tx_phys_post_50=0; \
    config add pb_serdes_lane_tx_phys_amp_51=31; \
    config add pb_serdes_lane_tx_phys_main_51=24; \
    config add pb_serdes_lane_tx_phys_pre_51=0; \
    config add pb_serdes_lane_tx_phys_post_51=0; \
    config add pb_serdes_lane_tx_phys_amp_52=31; \
    config add pb_serdes_lane_tx_phys_main_52=24; \
    config add pb_serdes_lane_tx_phys_pre_52=0; \
    config add pb_serdes_lane_tx_phys_post_52=0; \
    config add pb_serdes_lane_tx_phys_amp_53=31; \
```

```
  config add pb_serdes_lane_tx_phys_main_53=24; \
  config add pb_serdes_lane_tx_phys_pre_53=0; \
  config add pb_serdes_lane_tx_phys_post_53=0; \
  config add pb_serdes_lane_tx_phys_amp_54=31; \
  config add pb_serdes_lane_tx_phys_main_54=24; \
  config add pb_serdes_lane_tx_phys_pre_54=0; \
  config add pb_serdes_lane_tx_phys_post_54=0; \
  config add pb_serdes_lane_tx_phys_amp_55=31; \
  config add pb_serdes_lane_tx_phys_main_55=24; \
  config add pb_serdes_lane_tx_phys_pre_55=0; \
  config add pb_serdes_lane_tx_phys_post_55=0; \
  config add pb_serdes_lane_tx_phys_amp_56=31; \
  config add pb_serdes_lane_tx_phys_main_56=24; \
  config add pb_serdes_lane_tx_phys_pre_56=0; \
  config add pb_serdes_lane_tx_phys_post_56=0; \
  config add pb_serdes_lane_tx_phys_amp_57=31; \
  config add pb_serdes_lane_tx_phys_main_57=24; \
  config add pb_serdes_lane_tx_phys_pre_57=0; \
  config add pb_serdes_lane_tx_phys_post_57=0; \
  config add pb_serdes_lane_tx_phys_amp_58=31; \
  config add pb_serdes_lane_tx_phys_main_58=24; \
  config add pb_serdes_lane_tx_phys_pre_58=0; \
  config add pb_serdes_lane_tx_phys_post_58=0; \
  config add pb_serdes_lane_tx_phys_amp_59=31; \
  config add pb_serdes_lane_tx_phys_main_59=24; \
  config add pb_serdes_lane_tx_phys_pre_59=0; \
  config add pb_serdes_lane_tx_phys_post_59=0;"

# RX params for fabric rate of 5000 mbps (Negev system)
if $board_type_GFA_BI "\
  config add pb_serdes_lane_rx_phys_zcnt_32=24; \
  config add pb_serdes_lane_rx_phys_z1cnt_32=2; \
  config add pb_serdes_lane_rx_phys_dfelth_32=21; \
  config add pb_serdes_lane_rx_phys_tlth_32=35; \
  config add pb_serdes_lane_rx_phys_g1cnt_32=1; \
  config add pb_serdes_lane_rx_phys_zcnt_33=24; \
  config add pb_serdes_lane_rx_phys_z1cnt_33=1; \
  config add pb_serdes_lane_rx_phys_dfelth_33=28; \
  config add pb_serdes_lane_rx_phys_tlth_33=16; \
  config add pb_serdes_lane_rx_phys_g1cnt_33=1; \
  config add pb_serdes_lane_rx_phys_zcnt_34=24; \
  config add pb_serdes_lane_rx_phys_z1cnt_34=1; \
  config add pb_serdes_lane_rx_phys_dfelth_34=18; \
  config add pb_serdes_lane_rx_phys_tlth_34=26; \
  config add pb_serdes_lane_rx_phys_g1cnt_34=1; \
  config add pb_serdes_lane_rx_phys_zcnt_35=23; \
  config add pb_serdes_lane_rx_phys_z1cnt_35=2; \
  config add pb_serdes_lane_rx_phys_dfelth_35=23; \
```

```
    config add pb_serdes_lane_rx_phys_tlth_35=14; \
    config add pb_serdes_lane_rx_phys_g1cnt_35=1; \
    config add pb_serdes_lane_rx_phys_zcnt_36=22; \
    config add pb_serdes_lane_rx_phys_z1cnt_36=1; \
    config add pb_serdes_lane_rx_phys_dfelth_36=22; \
    config add pb_serdes_lane_rx_phys_tlth_36=30; \
    config add pb_serdes_lane_rx_phys_g1cnt_36=1; \
    config add pb_serdes_lane_rx_phys_zcnt_37=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_37=1; \
    config add pb_serdes_lane_rx_phys_dfelth_37=20; \
    config add pb_serdes_lane_rx_phys_tlth_37=14; \
    config add pb_serdes_lane_rx_phys_g1cnt_37=1; \
    config add pb_serdes_lane_rx_phys_zcnt_38=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_38=1; \
    config add pb_serdes_lane_rx_phys_dfelth_38=23; \
    config add pb_serdes_lane_rx_phys_tlth_38=29; \
    config add pb_serdes_lane_rx_phys_g1cnt_38=1; \
    config add pb_serdes_lane_rx_phys_zcnt_39=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_39=1; \
    config add pb_serdes_lane_rx_phys_dfelth_39=24; \
    config add pb_serdes_lane_rx_phys_tlth_39=30; \
    config add pb_serdes_lane_rx_phys_g1cnt_39=1; \
    config add pb_serdes_lane_rx_phys_zcnt_40=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_40=1; \
    config add pb_serdes_lane_rx_phys_dfelth_40=21; \
    config add pb_serdes_lane_rx_phys_tlth_40=33; \
    config add pb_serdes_lane_rx_phys_g1cnt_40=1; \
    config add pb_serdes_lane_rx_phys_zcnt_41=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_41=1; \
    config add pb_serdes_lane_rx_phys_dfelth_41=20; \
    config add pb_serdes_lane_rx_phys_tlth_41=6; \
    config add pb_serdes_lane_rx_phys_g1cnt_41=1;"
  if $board_type_GFA_BI "\
    config add pb_serdes_lane_rx_phys_zcnt_42=20; \
    config add pb_serdes_lane_rx_phys_z1cnt_42=3; \
    config add pb_serdes_lane_rx_phys_dfelth_42=18; \
    config add pb_serdes_lane_rx_phys_tlth_42=33; \
    config add pb_serdes_lane_rx_phys_g1cnt_42=1; \
    config add pb_serdes_lane_rx_phys_zcnt_43=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_43=1; \
    config add pb_serdes_lane_rx_phys_dfelth_43=26; \
    config add pb_serdes_lane_rx_phys_tlth_43=33; \
    config add pb_serdes_lane_rx_phys_g1cnt_43=1; \
    config add pb_serdes_lane_rx_phys_zcnt_44=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_44=1; \
    config add pb_serdes_lane_rx_phys_dfelth_44=22; \
    config add pb_serdes_lane_rx_phys_tlth_44=34; \
    config add pb_serdes_lane_rx_phys_g1cnt_44=1; \
```

```
    config add pb_serdes_lane_rx_phys_zcnt_45=22; \
    config add pb_serdes_lane_rx_phys_z1cnt_45=1; \
    config add pb_serdes_lane_rx_phys_dfelth_45=18; \
    config add pb_serdes_lane_rx_phys_tlth_45=16; \
    config add pb_serdes_lane_rx_phys_g1cnt_45=1; \
    config add pb_serdes_lane_rx_phys_zcnt_46=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_46=1; \
    config add pb_serdes_lane_rx_phys_dfelth_46=21; \
    config add pb_serdes_lane_rx_phys_tlth_46=28; \
    config add pb_serdes_lane_rx_phys_g1cnt_46=1; \
    config add pb_serdes_lane_rx_phys_zcnt_47=20; \
    config add pb_serdes_lane_rx_phys_z1cnt_47=2; \
    config add pb_serdes_lane_rx_phys_dfelth_47=16; \
    config add pb_serdes_lane_rx_phys_tlth_47=9; \
    config add pb_serdes_lane_rx_phys_g1cnt_47=1; \
    config add pb_serdes_lane_rx_phys_zcnt_48=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_48=1; \
    config add pb_serdes_lane_rx_phys_dfelth_48=23; \
    config add pb_serdes_lane_rx_phys_tlth_48=33; \
    config add pb_serdes_lane_rx_phys_g1cnt_48=1; \
    config add pb_serdes_lane_rx_phys_zcnt_49=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_49=1; \
    config add pb_serdes_lane_rx_phys_dfelth_49=28; \
    config add pb_serdes_lane_rx_phys_tlth_49=12; \
    config add pb_serdes_lane_rx_phys_g1cnt_49=1; \
    config add pb_serdes_lane_rx_phys_zcnt_50=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_50=1; \
    config add pb_serdes_lane_rx_phys_dfelth_50=24;"
  if $board_type_GFA_BI "\
    config add pb_serdes_lane_rx_phys_tlth_50=19; \
    config add pb_serdes_lane_rx_phys_g1cnt_50=1; \
    config add pb_serdes_lane_rx_phys_zcnt_51=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_51=1; \
    config add pb_serdes_lane_rx_phys_dfelth_51=22; \
    config add pb_serdes_lane_rx_phys_tlth_51=20; \
    config add pb_serdes_lane_rx_phys_g1cnt_51=1; \
    config add pb_serdes_lane_rx_phys_zcnt_52=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_52=1; \
    config add pb_serdes_lane_rx_phys_dfelth_52=24; \
    config add pb_serdes_lane_rx_phys_tlth_52=33; \
    config add pb_serdes_lane_rx_phys_g1cnt_52=1; \
    config add pb_serdes_lane_rx_phys_zcnt_53=20; \
    config add pb_serdes_lane_rx_phys_z1cnt_53=4; \
    config add pb_serdes_lane_rx_phys_dfelth_53=10; \
    config add pb_serdes_lane_rx_phys_tlth_53=5; \
    config add pb_serdes_lane_rx_phys_g1cnt_53=1; \
    config add pb_serdes_lane_rx_phys_zcnt_54=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_54=1; \
```

```
    config add pb_serdes_lane_rx_phys_dfelth_54=29; \
    config add pb_serdes_lane_rx_phys_tlth_54=25; \
    config add pb_serdes_lane_rx_phys_g1cnt_54=1; \
    config add pb_serdes_lane_rx_phys_zcnt_55=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_55=1; \
    config add pb_serdes_lane_rx_phys_dfelth_55=24; \
    config add pb_serdes_lane_rx_phys_tlth_55=22; \
    config add pb_serdes_lane_rx_phys_g1cnt_55=1; \
    config add pb_serdes_lane_rx_phys_zcnt_56=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_56=1; \
    config add pb_serdes_lane_rx_phys_dfelth_56=22; \
    config add pb_serdes_lane_rx_phys_tlth_56=31; \
    config add pb_serdes_lane_rx_phys_g1cnt_56=1; \
    config add pb_serdes_lane_rx_phys_zcnt_57=24; \
    config add pb_serdes_lane_rx_phys_z1cnt_57=1; \
    config add pb_serdes_lane_rx_phys_dfelth_57=22; \
    config add pb_serdes_lane_rx_phys_tlth_57=25; \
    config add pb_serdes_lane_rx_phys_g1cnt_57=1;"

  if $board_type_GFA_BI "\
    config add pb_serdes_lane_rx_phys_zcnt_58=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_58=1; \
    config add pb_serdes_lane_rx_phys_dfelth_58=23; \
    config add pb_serdes_lane_rx_phys_tlth_58=26; \
    config add pb_serdes_lane_rx_phys_g1cnt_58=1; \
    config add pb_serdes_lane_rx_phys_zcnt_59=23; \
    config add pb_serdes_lane_rx_phys_z1cnt_59=2; \
    config add pb_serdes_lane_rx_phys_dfelth_59=21; \
    config add pb_serdes_lane_rx_phys_tlth_59=25; \
    config add pb_serdes_lane_rx_phys_g1cnt_59=1;"

  if $board_type_GFA_BI_2 "\
    echo Configure GFA_BI_2 Port/Interfcae/Nif/SerDes parameters; \
    config add ucode_port_1=RXAUI3; \
    config add ucode_port_2=RXAUI2; \
    config add ucode_port_3=RXAUI1; \
    config add ucode_port_4=RXAUI0; \
    config add ucode_port_5=RXAUI8; \
    config add ucode_port_6=RXAUI9; \
    config add ucode_port_7=RXAUI5; \
    config add ucode_port_8=RXAUI4; \
    config add ucode_port_9=RXAUI12; \
    config add ucode_port_10=RXAUI13; \
    config add ucode_port_11=RXAUI10; \
    config add ucode_port_12=RXAUI11; \
    config add lanes_swap_6=1; \
    config add lanes_swap_10=1; \
    config add lanes_swap_11=1; \
```

```
    config add lanes_swap_12=1; \
    config add pb_serdes_lane_swap_polarity_tx_12=1; \
    config add pb_serdes_lane_swap_polarity_tx_14=1; \
    config add pb_serdes_lane_swap_polarity_tx_28=1; \
    config add pb_serdes_lane_swap_polarity_tx_31=1; \
    config add pb_serdes_lane_swap_polarity_tx_32=1; \
    config add pb_serdes_lane_swap_polarity_tx_34=1; \
    config add pb_serdes_lane_swap_polarity_tx_41=1; \
    config add pb_serdes_lane_swap_polarity_rx_48=1; \
    config add pb_serdes_lane_swap_polarity_rx_50=1; \
    config add pb_serdes_lane_swap_polarity_rx_52=1; \
    config add pb_serdes_lane_swap_polarity_rx_55=1; \
    config add pb_serdes_lane_swap_polarity_rx_56=1; \
    config add pb_serdes_lane_swap_polarity_rx_58=1;"

  if $board_type_GFA_BI_2 && !$system_is_fe600_in_system "\
    config add pb_serdes_lane_rx_phys_zcnt=21; \
    config add pb_serdes_lane_rx_phys_z1cnt=1; \
    config add pb_serdes_lane_rx_phys_dfelth=1; \
    config add pb_serdes_lane_rx_phys_tlth=8; \
    config add pb_serdes_lane_rx_phys_g1cnt=1; \
    config add pb_serdes_lane_tx_phys_amp=30;  \
    config add pb_serdes_lane_tx_phys_main=18;  \
    config add pb_serdes_lane_tx_phys_pre=3;  \
    config add pb_serdes_lane_tx_phys_post=13;"

  #GFA-BI2, with fe600, slot 0
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && !$slot "\
    config add pb_serdes_lane_rx_phys_zcnt_12=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_12=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_12=11;  \
    config add pb_serdes_lane_rx_phys_tlth_12=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_12=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_13=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_13=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_13=17;  \
    config add pb_serdes_lane_rx_phys_tlth_13=7;  \
    config add pb_serdes_lane_rx_phys_g1cnt_13=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_14=18;  \
    config add pb_serdes_lane_rx_phys_z1cnt_14=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_14=7;  \
    config add pb_serdes_lane_rx_phys_tlth_14=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_14=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_15=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_15=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_15=21;  \
    config add pb_serdes_lane_rx_phys_tlth_15=21;  \
    config add pb_serdes_lane_rx_phys_g1cnt_15=1;  \
```

```
    config add pb_serdes_lane_rx_phys_zcnt_28=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_28=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_28=18;  \
    config add pb_serdes_lane_rx_phys_tlth_28=8;  \
    config add pb_serdes_lane_rx_phys_g1cnt_28=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_29=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_29=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_29=9;  \
    config add pb_serdes_lane_rx_phys_tlth_29=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_29=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_30=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_30=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_30=18;  \
    config add pb_serdes_lane_rx_phys_tlth_30=12;  \
    config add pb_serdes_lane_rx_phys_g1cnt_30=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_31=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_31=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_31=10;  \
    config add pb_serdes_lane_rx_phys_tlth_31=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_31=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_32=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_32=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_32=22;  \
    config add pb_serdes_lane_rx_phys_tlth_32=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_32=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && !$slot "\
    config add pb_serdes_lane_rx_phys_zcnt_33=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_33=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_33=13;  \
    config add pb_serdes_lane_rx_phys_tlth_33=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_33=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_34=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_34=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_34=20;  \
    config add pb_serdes_lane_rx_phys_tlth_34=30;  \
    config add pb_serdes_lane_rx_phys_g1cnt_34=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_35=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_35=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_35=11;  \
    config add pb_serdes_lane_rx_phys_tlth_35=5;  \
    config add pb_serdes_lane_rx_phys_g1cnt_35=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_36=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_36=0;  \
    config add pb_serdes_lane_rx_phys_dfelth_36=11;  \
    config add pb_serdes_lane_rx_phys_tlth_36=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_36=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_37=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_37=1;  \
```

```
    config add pb_serdes_lane_rx_phys_dfelth_37=10;  \
    config add pb_serdes_lane_rx_phys_tlth_37=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_37=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_38=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_38=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_38=20;  \
    config add pb_serdes_lane_rx_phys_tlth_38=11;  \
    config add pb_serdes_lane_rx_phys_g1cnt_38=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_39=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_39=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_39=9;  \
    config add pb_serdes_lane_rx_phys_tlth_39=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_39=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_40=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_40=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_40=24;  \
    config add pb_serdes_lane_rx_phys_tlth_40=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_40=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_41=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_41=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_41=9;  \
    config add pb_serdes_lane_rx_phys_tlth_41=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_41=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && !$slot "\
    config add pb_serdes_lane_rx_phys_zcnt_42=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_42=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_42=10;  \
    config add pb_serdes_lane_rx_phys_tlth_42=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_42=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_43=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_43=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_43=25;  \
    config add pb_serdes_lane_rx_phys_tlth_43=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_43=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_44=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_44=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_44=9;  \
    config add pb_serdes_lane_rx_phys_tlth_44=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_44=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_45=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_45=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_45=18;  \
    config add pb_serdes_lane_rx_phys_tlth_45=16;  \
    config add pb_serdes_lane_rx_phys_g1cnt_45=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_46=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_46=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_46=9;  \
    config add pb_serdes_lane_rx_phys_tlth_46=1;  \
```

```
    config add pb_serdes_lane_rx_phys_g1cnt_46=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_47=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_47=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_47=11;  \
    config add pb_serdes_lane_rx_phys_tlth_47=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_47=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_48=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_48=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_48=8;  \
    config add pb_serdes_lane_rx_phys_tlth_48=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_48=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_49=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_49=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_49=15;  \
    config add pb_serdes_lane_rx_phys_tlth_49=13;  \
    config add pb_serdes_lane_rx_phys_g1cnt_49=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_50=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_50=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_50=17;  \
    config add pb_serdes_lane_rx_phys_tlth_50=3;  \
    config add pb_serdes_lane_rx_phys_g1cnt_50=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && !$slot "\
    config add pb_serdes_lane_rx_phys_zcnt_51=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_51=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_51=8;  \
    config add pb_serdes_lane_rx_phys_tlth_51=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_51=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_52=17;  \
    config add pb_serdes_lane_rx_phys_z1cnt_52=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_52=6;  \
    config add pb_serdes_lane_rx_phys_tlth_52=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_52=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_53=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_53=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_53=11;  \
    config add pb_serdes_lane_rx_phys_tlth_53=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_53=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_54=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_54=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_54=5;  \
    config add pb_serdes_lane_rx_phys_tlth_54=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_54=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_55=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_55=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_55=14;  \
    config add pb_serdes_lane_rx_phys_tlth_55=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_55=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_56=24;  \
```

```
    config add pb_serdes_lane_rx_phys_z1cnt_56=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_56=20;  \
    config add pb_serdes_lane_rx_phys_tlth_56=21;  \
    config add pb_serdes_lane_rx_phys_g1cnt_56=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_57=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_57=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_57=14;  \
    config add pb_serdes_lane_rx_phys_tlth_57=7;  \
    config add pb_serdes_lane_rx_phys_g1cnt_57=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_58=19;  \
    config add pb_serdes_lane_rx_phys_z1cnt_58=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_58=11;  \
    config add pb_serdes_lane_rx_phys_tlth_58=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_58=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_59=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_59=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_59=12;  \
    config add pb_serdes_lane_rx_phys_tlth_59=3;  \
    config add pb_serdes_lane_rx_phys_g1cnt_59=1"

  #GFA-BI2, with fe600, slot 1
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && $slot "\
    config add pb_serdes_lane_rx_phys_zcnt_12=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_12=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_12=9;  \
    config add pb_serdes_lane_rx_phys_tlth_12=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_12=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_13=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_13=4;  \
    config add pb_serdes_lane_rx_phys_dfelth_13=20;  \
    config add pb_serdes_lane_rx_phys_tlth_13=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_13=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_14=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_14=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_14=9;  \
    config add pb_serdes_lane_rx_phys_tlth_14=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_14=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_15=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_15=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_15=10;  \
    config add pb_serdes_lane_rx_phys_tlth_15=9;  \
    config add pb_serdes_lane_rx_phys_g1cnt_15=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_28=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_28=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_28=14;  \
    config add pb_serdes_lane_rx_phys_tlth_28=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_28=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_29=23;  \
```

```
    config add pb_serdes_lane_rx_phys_z1cnt_29=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_29=9;  \
    config add pb_serdes_lane_rx_phys_tlth_29=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_29=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_30=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_30=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_30=6;  \
    config add pb_serdes_lane_rx_phys_tlth_30=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_30=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_31=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_31=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_31=14;  \
    config add pb_serdes_lane_rx_phys_tlth_31=8;  \
    config add pb_serdes_lane_rx_phys_g1cnt_31=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_32=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_32=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_32=19;  \
    config add pb_serdes_lane_rx_phys_tlth_32=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_32=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && $slot "\
    config add pb_serdes_lane_rx_phys_zcnt_33=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_33=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_33=11;  \
    config add pb_serdes_lane_rx_phys_tlth_33=10;  \
    config add pb_serdes_lane_rx_phys_g1cnt_33=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_34=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_34=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_34=17;  \
    config add pb_serdes_lane_rx_phys_tlth_34=20;  \
    config add pb_serdes_lane_rx_phys_g1cnt_34=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_35=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_35=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_35=12;  \
    config add pb_serdes_lane_rx_phys_tlth_35=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_35=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_36=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_36=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_36=10;  \
    config add pb_serdes_lane_rx_phys_tlth_36=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_36=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_37=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_37=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_37=10;  \
    config add pb_serdes_lane_rx_phys_tlth_37=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_37=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_38=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_38=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_38=20;  \
```

```
    config add pb_serdes_lane_rx_phys_tlth_38=14;  \
    config add pb_serdes_lane_rx_phys_g1cnt_38=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_39=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_39=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_39=11;  \
    config add pb_serdes_lane_rx_phys_tlth_39=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_39=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_40=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_40=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_40=24;  \
    config add pb_serdes_lane_rx_phys_tlth_40=18;  \
    config add pb_serdes_lane_rx_phys_g1cnt_40=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_41=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_41=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_41=11;  \
    config add pb_serdes_lane_rx_phys_tlth_41=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_41=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && $slot "\
    config add pb_serdes_lane_rx_phys_zcnt_42=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_42=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_42=10;  \
    config add pb_serdes_lane_rx_phys_tlth_42=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_42=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_43=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_43=4;  \
    config add pb_serdes_lane_rx_phys_dfelth_43=22;  \
    config add pb_serdes_lane_rx_phys_tlth_43=4;  \
    config add pb_serdes_lane_rx_phys_g1cnt_43=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_44=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_44=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_44=7;  \
    config add pb_serdes_lane_rx_phys_tlth_44=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_44=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_45=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_45=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_45=18;  \
    config add pb_serdes_lane_rx_phys_tlth_45=16;  \
    config add pb_serdes_lane_rx_phys_g1cnt_45=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_46=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_46=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_46=9;  \
    config add pb_serdes_lane_rx_phys_tlth_46=3;  \
    config add pb_serdes_lane_rx_phys_g1cnt_46=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_47=22;  \
    config add pb_serdes_lane_rx_phys_z1cnt_47=1;  \
    config add pb_serdes_lane_rx_phys_dfelth_47=9;  \
    config add pb_serdes_lane_rx_phys_tlth_47=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_47=1;  \
```

```
    config add pb_serdes_lane_rx_phys_zcnt_48=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_48=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_48=8;  \
    config add pb_serdes_lane_rx_phys_tlth_48=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_48=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_49=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_49=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_49=12;  \
    config add pb_serdes_lane_rx_phys_tlth_49=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_49=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_50=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_50=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_50=18;  \
    config add pb_serdes_lane_rx_phys_tlth_50=11;  \
    config add pb_serdes_lane_rx_phys_g1cnt_50=1"
  if $board_type_GFA_BI_2 && $system_is_fe600_in_system && $slot "\
    config add pb_serdes_lane_rx_phys_zcnt_51=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_51=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_51=7;  \
    config add pb_serdes_lane_rx_phys_tlth_51=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_51=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_52=21;  \
    config add pb_serdes_lane_rx_phys_z1cnt_52=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_52=8;  \
    config add pb_serdes_lane_rx_phys_tlth_52=2;  \
    config add pb_serdes_lane_rx_phys_g1cnt_52=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_53=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_53=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_53=12;  \
    config add pb_serdes_lane_rx_phys_tlth_53=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_53=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_54=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_54=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_54=7;  \
    config add pb_serdes_lane_rx_phys_tlth_54=3;  \
    config add pb_serdes_lane_rx_phys_g1cnt_54=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_55=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_55=2;  \
    config add pb_serdes_lane_rx_phys_dfelth_55=12;  \
    config add pb_serdes_lane_rx_phys_tlth_55=1;  \
    config add pb_serdes_lane_rx_phys_g1cnt_55=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_56=24;  \
    config add pb_serdes_lane_rx_phys_z1cnt_56=3;  \
    config add pb_serdes_lane_rx_phys_dfelth_56=21;  \
    config add pb_serdes_lane_rx_phys_tlth_56=16;  \
    config add pb_serdes_lane_rx_phys_g1cnt_56=1;  \
    config add pb_serdes_lane_rx_phys_zcnt_57=23;  \
    config add pb_serdes_lane_rx_phys_z1cnt_57=2;  \
```

```
   config add pb_serdes_lane_rx_phys_dfelth_57=8;  \
   config add pb_serdes_lane_rx_phys_tlth_57=4;  \
   config add pb_serdes_lane_rx_phys_g1cnt_57=1;  \
   config add pb_serdes_lane_rx_phys_zcnt_58=17;  \
   config add pb_serdes_lane_rx_phys_z1cnt_58=3;  \
   config add pb_serdes_lane_rx_phys_dfelth_58=8;  \
   config add pb_serdes_lane_rx_phys_tlth_58=1;  \
   config add pb_serdes_lane_rx_phys_g1cnt_58=1;  \
   config add pb_serdes_lane_rx_phys_zcnt_59=21;  \
   config add pb_serdes_lane_rx_phys_z1cnt_59=2;  \
   config add pb_serdes_lane_rx_phys_dfelth_59=14;  \
   config add pb_serdes_lane_rx_phys_tlth_59=12;  \
   config add pb_serdes_lane_rx_phys_g1cnt_59=1"

# DRAM pre-configurations according to config variables which defines
# the dram type.

#DDR3
if $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333 || \
  $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600 || \
  $?dram_type_DDR3_MICRON_MT41J64M16_15E || \
  $?dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G "\
   config add ext_ram_type=DDR3; \
   config add ext_ram_columns=1024; \
   config add ext_ram_banks=8"
if $?dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G "\
 config add ext_ram_total_size=3072"
if $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333 || \
  $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600 || \
  $?dram_type_DDR3_MICRON_MT41J64M16_15E "\
   config add ext_ram_total_size=1536"

#GDDR3
if $?dram_type_GDDR3_SAMSUNG_K4J52324QE \
 "config add ext_ram_type=GDDR3" \
 "config add ext_ram_columns=512" \
 "config add ext_ram_banks=8" \
 "config add ext_ram_total_size=384"

#DDR2
if $?dram_type_DDR2_MICRON_K4T51163QE_ZC_LF7 \
 "config add ext_ram_type=DDR2" \
 "config add ext_ram_columns=1024" \
 "config add ext_ram_banks=4" \
 "config add ext_ram_total_size=768"

if $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1600 \
 "config add ext_ram_ap_bit_pos=10" \
```

```
 "config add ext_ram_burst_size=32" \
 "config add ext_ram_c_cas_latency=11" \
 "config add ext_ram_c_wr_latency=8" \
 "config add ext_ram_t_rc=48750" \
 "config add ext_ram_t_rfc=110000" \
 "config add ext_ram_t_ras=35000" \
 "config add ext_ram_t_faw=40000" \
 "config add ext_ram_t_rcd_rd=13750" \
 "config add ext_ram_t_rcd_wr=13750" \
 "config add ext_ram_t_rrd=7500" \
 "config add ext_ram_t_ref=3900" \
 "config add ext_ram_t_rp=13750" \
 "config add ext_ram_t_wr=15000" \
 "config add ext_ram_t_wtr=7500" \
 "config add ext_ram_t_rtp=7500"

if $?dram_type_DDR3_SAMSUNG_K4B1G1646E_HCK0_1333 \
 "config add ext_ram_ap_bit_pos=10" \
 "config add ext_ram_burst_size=32" \
 "config add ext_ram_c_cas_latency=9" \
 "config add ext_ram_c_wr_latency=8" \
 "config add ext_ram_t_rc=50000" \
 "config add ext_ram_t_rfc=110000" \
 "config add ext_ram_t_ras=36666" \
 "config add ext_ram_t_faw=45000" \
 "config add ext_ram_t_rcd_rd=15000" \
 "config add ext_ram_t_rcd_wr=15000" \
 "config add ext_ram_t_rrd=8333" \
 "config add ext_ram_t_ref=3900" \
 "config add ext_ram_t_rp=15000" \
 "config add ext_ram_t_wr=15000" \
 "config add ext_ram_t_wtr=8333" \
 "config add ext_ram_t_rtp=6666"

if $?dram_type_DDR3_MICRON_MT41J64M16_15E ||
$?dram_type_DDR3_MICRON_MT41J128M16HA_15E_2G \
 "config add ext_ram_ap_bit_pos=10" \
 "config add ext_ram_burst_size=32" \
 "config add ext_ram_c_cas_latency=9" \
 "config add ext_ram_c_wr_latency=7" \
 "config add ext_ram_t_rc=49500" \
 "config add ext_ram_t_rfc=110000" \
 "config add ext_ram_t_ras=36000" \
 "config add ext_ram_t_faw=50000" \
 "config add ext_ram_t_rcd_rd=13500" \
 "config add ext_ram_t_rcd_wr=13500" \
 "config add ext_ram_t_rrd=7500" \
 "config add ext_ram_t_ref=3900c" \
```

```
 "config add ext_ram_t_rp=13500" \
 "config add ext_ram_t_wr=15000" \
 "config add ext_ram_t_wtr=7500" \
 "config add ext_ram_t_rtp=7500"

# Samsung (K4J52324QE)
# The following parameters correspond to BC-16 dash, and were tested in
# dune's lab with BC-14 dash dram working in frequency of 533MHz.
if $?dram_type_GDDR3_SAMSUNG_K4J52324QE \
 "config add ext_ram_ap_bit_pos=8" \
 "config add ext_ram_burst_size=16" \
 "config add ext_ram_gddr3_mrs0_wr1=0x00000312" \
 "config add ext_ram_gddr3_emr0_wr1=0x0000109d" \
 "config add ext_ram_c_cas_latency=9" \
 "config add ext_ram_c_wr_latency=1" \
 "config add ext_ram_t_rc_clk=24" \
 "config add ext_ram_t_rfc_clk=29" \
 "config add ext_ram_t_ras_clk=16" \
 "config add ext_ram_t_faw_clk=5" \
 "config add ext_ram_t_rcd_rd_clk=9" \
 "config add ext_ram_t_rcd_wr_clk=6" \
 "config add ext_ram_t_rrd_clk=7" \
 "config add ext_ram_t_ref=1450" \
 "config add ext_ram_t_rp_clk=8" \
 "config add ext_ram_t_wr_clk=8" \
 "config add ext_ram_t_wtr_clk=4" \
 "config add ext_ram_t_rtp_clk=4"

if $?dram_type_DDR2_MICRON_K4T51163QE_ZC_LF7 \
 "config add ext_ram_ap_bit_pos=10" \
 "config add ext_ram_burst_size=16" \
 "config add ext_ram_auto_mode=TRUE" \
 "config add ext_ram_c_cas_latency=6" \
 "config add ext_ram_c_wr_latency=5" \
 "config add ext_ram_t_rc=60000" \
 "config add ext_ram_t_rfc=105000" \
 "config add ext_ram_t_ras=45000" \
 "config add ext_ram_t_faw=45000" \
 "config add ext_ram_t_rcd_rd=15000" \
 "config add ext_ram_t_rcd_wr=15000" \
 "config add ext_ram_t_rrd=10000" \
 "config add ext_ram_t_ref=3900)" \
 "config add ext_ram_t_rp=15000" \
 "config add ext_ram_t_wr=15000" \
 "config add ext_ram_t_wtr=7500" \
 "config add ext_ram_t_rtp=7500"
```

```
# If using elk, override relevant parameters:
if $?pcp_elk "\
 echo *** OVERRIDING DEFAULT CONFIG WITH ELK CONFIG ***; \
 config combo_ref_clock=125000; \
 config pb_serdes_qrtt_max_expected_rate_7=3750000; \
 config pb_serdes_lane_rate_28=3750000; \
 config pb_serdes_lane_rate_29=3750000; \
 config pb_serdes_lane_rate_30=3750000; \
 config pb_serdes_lane_rate_31=3750000; \
 config add external_lookup_mal=14; \
 config add spaui_ipg_dic_mode=MIN; \
 config add spaui_ipg_size=1; \
 config add spaui_crc_mode=32b; \
 config add spaui_preamble_size=0; \
 config add spaui_preamble_skip_sop=1; \
 config add spaui_is_double_size_sop_even_only=1; \
 config add spaui_link_partner_double_size_bus=1"

if $?pcp_elk || $?pcp_oam || $?pcp_dma "\
 config add streaming_if_multi_port_mode=1; \
 config add streaming_if_discard_pkt_streaming=0; \
 config add fabric_ftmh_outlif_extension=IF_MC" \
else "\
 config add streaming_if_multi_port_mode=0; \
 config add streaming_if_discard_pkt_streaming=1;"

# Run sweep pcp on real HW
if !$?plisim && !$?warmboot "   \
 sweep pcp"

# Set synts according to reference clocks
expr $nif_ref_clock*1000; local synt_nif $?
expr $combo_ref_clock*1000; local synt_combo $?
expr $fabric_ref_clock*1000; local synt_fabric $?

# Real HW: Take petra out of reset
if !$?plisim && !$?warmboot " \
 gfa_bi utils petra_reset 1; \
 echo Configure synthesizers:; \
 echo Fabric: $synt_fabric; gfa_bi utils synt_set 1 $synt_fabric $synt_over; \
 echo Combo:  $synt_combo;  gfa_bi utils synt_set 2 $synt_combo $synt_over; \
 echo Nif:    $synt_nif;    gfa_bi utils synt_set 3 $synt_nif $synt_over; \
 echo Core:   $synt_core;   gfa_bi utils synt_set 4 $synt_core $synt_over; \
 echo DDR:    $synt_ddr;    gfa_bi utils synt_set 5 $synt_ddr $synt_over; \
 echo Phy:    $synt_phy;    gfa_bi utils synt_set 10 $synt_phy $synt_over; \
 gfa_bi utils petra_reset 0"

dbm soc error
```

```
dbm bcm error

echo "$unit:init soc"
init soc
echo "$unit:init soc - Done"

echo "$unit:init bcm"
init bcm

echo "$unit:init bcm - Done"

if $?warmboot "\
 echo 'Warmboot: init done'; \
 echo 'dune.soc: Done.'; \
 exit"

# Real HW + non using sweep: Init phys
if !$?plisim " \
 gfa_bi utils phys"

if !$?no_bcm && !$?diag_disable "\
 init appl_dpp $slot $nof_devices $diag_cosq_disable;" \
else "\
 echo 'Skipping diag_init. In order to run traffic, extra configuration must be performed.'"

# If running BCM library:
# Start linkscan task and set port linkscan mode.
if !$?no_bcm && !$?pcp_elk "\
 linkscan 250000; \
 linkscan spbm=xe"

# If using elk, configure  bsp:
if $?pcp_elk "\
 echo *** BSP ELK CONFIGURATIONS ***; \
 gfa_bi elk_init;"

# If using pcp dma then init dma
if !$?plisim && $?pcp_dma " \
 echo *** PCP DMA CONFIGURATIONS ***; \
 gfa_bi dma_init"

#if $?diag_chassis && !$slot "rcload rc/negev_rpc_master.soc.assi" # Master on slot 0
#if $?diag_chassis && $slot "rcload rc/negev_rpc_slave.soc.assi"   # Slave on slot 1

echo "dune.soc: Done."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/dune.soc

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: register.h,v 1.36 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       register.h
* Purpose:     Base definitions for register types
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/register.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_ipv6_acl.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_ipv6_acl.c
*
* Purpose: examples of IPv6 classificaiton and ACLs.
*
* Test case:
*     IPv6 classification based on IPv6 SIP and DIP.
*     1. Map SR IP FE80::01:01:04 to queue 7, COS 7 and VLAN 700.
*     2. Map SR IP FE80::01:01:03 to queue 5, COS 5 and VLAN 500.
*     3. Map DA IP FE80::01:01:02 to queue 3, COS 3 and VLAN 300.
*     4. Map DA IP FE80::01:01:01 to queue 1, COS 1 and VLAN 100.
*
* ACL Service Test cases:
*     1. Drop Tunnel 100, DA 00:00:00:00:00:01, SA 00:00:00:00:00:02, VLANID 3000, UDP, SIP
0xFE80::0001:0101 from pon_port
*     2. Drop Tunnel 101, DA [00:00:00:00:00:01, 00:00:00:FF:FF:FF] from pon_port
*     3. Drop Tunnel 102, SA [00:00:00:00:00:01, 00:00:00:FF:FF:FF] from pon_port
*     3. Drop Tunnel 103, L4SrcPort [2, 0x3FF] from pon_port
*     3. Drop Tunnel 104, L4DstPort [2, 0x3FF] from pon_port
*
* PP Model: N:1 Service.
*     PON Port 4              <------------------> NNI Port 128
*     Tunnel-ID 100 CVLAN 10   <--------|
*     Tunnel-ID 100 CVLAN 3000 <--------|
*     Tunnel-ID 101 CVLAN 20   <--------|--------> CVLAN 100
*     Tunnel-ID 102 CVLAN 30   <--------|
*     Tunnel-ID 103 CVLAN 40   <--------|
*     Tunnel-ID 104 CVLAN 50   <--------|
*
```

```
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_up_scheduler.c
*     BCM> cint examples/dpp/pon/cint_pon_ipv6_acl.c
*     BCM> cint
* To Activate PON service models:
*     cint> pon_ipv6_acl_service_init(0, 4, 128);
*     cint> pon_ipv6_acl_service_setup(0);
* To Activate ACL Classification Run:
*     cint> pon_up_scheduler_init(0);
*     cint> pon_up_scheduler_setup(0);
*     cint> pon_ipv6_acl_classification_setup(0);
* To Deactivate ACL Classification Run:
*     cint> pon_ipv6_acl_classification_cleanup(0);
*     cint> pon_up_scheduler_cleanup(0);
* To Activate ACL Service Run:
*     cint> pon_ipv6_acl_init(4);
*     cint> pon_ipv6_acl_setup(0);
* To Deactivate ACL Service Run:
*     cint> pon_ipv6_acl_cleanup(0);
* To Dectivate PON service models:
*     cint> pon_ipv6_acl_service_cleanup(0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_ipv6_acl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3.c,v 1.78.8.1.6.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Implementation of Caladan3 SOC Initialization
*
* NOTE:
* SOC driver infrastructure cleanup pending.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_framework.c,v 1.4 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_jer2_tmcapi_framework.c
*
* MODULE PREFIX:  soc_jer2_tmcapi_framework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_framework.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcOamFwUpgradeApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcOamFwUpgradeApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcOamFwUpgradeApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_field_small_banks.c v 1.0 02/06/2016 skoparan Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_field_small_banks.c
* Purpose: Example creation of DBs in the TCAM small banks.
*          The entry qualifies on SrcPort and applies action Drop.
```

```
*         Can be applied with different group ID and priority
*         to create several groups, up to the small banks limit.
*
* Fuctions:
* Main function:
*     field_config()
*
* Cleanup function:
*     field_destroy()
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_field_small_banks.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_dino_dv_functions.c                                  *
*  Created On    :  22/05/2014                                                   *
*  Created By    :  Kiran Divakar                                                *
*  Description   :  APIs for Serdes IPs ported over from DV                      *
*  Revision      :  $Id: falcon2_dino_dv_functions.c 1356 2016-02-12 23:27:16Z cvazquez $ *
*                                                                                *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                    *
*     Broadcom Corporation                                                       *
*     5300 California Avenue                                                     *
*     Irvine, CA  92617                                                          *
*                                                                                *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                                *
*                                                                                *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_dv_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_decls_drv.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* All Rights Reserved.$
*
* TDM function prototypes for BCM56860
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/apache/tdm_ap_methods.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: TkTypes.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       name.h
* Purpose:    Purpose of the file
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/TkTypes.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: export.c, 2015/03/30 idanu Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DNX Export
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/export.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ctrans.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       ctecho.c
* Purpose:    CPU transport setup and echo routines
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/ctrans.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_dino_field_access.h                                  *
*  Created On    :  29/04/2013                                                  *
*  Created By    :  Kiran Divakar                                               *
*  Description   :  Serdes IP Register and Field access APIs                    *
*  Revision      :  $Id: merlin_dino_field_access.h 1337 2016-02-04 00:15:32Z kirand $ *
*                                                                               *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without           *
*  the written permission of:                                                   *
*     Broadcom Corporation                                                      *
*     5300 California Avenue                                                    *
*     Irvine, CA  92617                                                         *
*                                                                               *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                               *
*                                                                               *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/merlin_dino_src/merlin_dino_field_access.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_callback.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_callback.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmccallback
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
```

```
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_callback.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_mpls.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_mpls.c
* Purpose: This file implements techsupport utility for
*          mpls.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/mpls/techsupport_mpls.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: tmc_api_framework.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       soc_tmcapi_framework.c
*
* MODULE PREFIX:  soc_tmcapi_framework
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/TMC/tmc_api_framework.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.16 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     field.c
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/ea/common/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_dino8.h,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dino8/robo_dino8.h
No license file was found, but licenses were detected in source scan.

```
/*! \file template_mngr_types.h
*
* Internal DNX template manager APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/algo/template_mngr/template_mngr_types.h
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: huracan_reg_access.h 2014/04/02 aman Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/huracan/tier1/huracan_reg_access.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cmu_ut.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/cmu_ut.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DFE MULTICAST H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* MMU/Cosq soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/katana2/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_spi.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* BCM5301X RoboSwitch utility functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/et/robo_spi.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.c,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  dma.c
* Purpose:  Commands for low-level DMA-able memory control
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwWredDropNPart2Entry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwWredDropNPart2Entry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* Hardware-specific Receive Data Header for the
* Broadcom Home Networking Division
* BCM47XX GbE cores.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: bcmgmacrxh.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/bcmgmacrxh.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe3200_port.h,v 1.10.110.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE3200 PORT H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe3200/fe3200_port.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cmice_dma.c,v 1.05 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     CMICE interface drvier for SOC DMA
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/cmice_dma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_dhrp_api.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_dhrp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_48x1g_2xhg25.h,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_20x1g_1xhg42.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_48x1g_2xhg25.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_8x1g_4xhg10_ilkn50n.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for ramon interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_intr_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_debug.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_debug.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: sws_params.h,v 1.3.18.4 Broadcom SDK $
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_params.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains IPMC definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/ipmc.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: eagle_tsc_interface.h 1075 2015-07-02 22:59:52Z kirand $   *
*                                                                           *
*  Description :  Interface functions targeted to IP user                   *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                               *
*      Broadcom Corporation                                                 *
*      5300 California Avenue                                               *
*      Irvine, CA  92617                                                    *
*                                                                           *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                           *
*                                                                           *
*****************************************************************************
*****************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/eagle_tsc/SerDes%20Documents/PMD_Methodology/Serdes%20External%20Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* eagle_tsc_interface.h - provides the primary functionality.
```

```
*
* eagle_tsc_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dos.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Field Processor related CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/dos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem_avl.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic Memory Manager using AVL Tree
*
* NOTE: These routines are NOT thread-safe.  If multiple threads could
* access an AVL tree, external locks must be used to mutually exclude
* each call to the shr_avl routines, including shr_avl_traverse().
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/mem_avl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_cos.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* File:    trident2_cos.c
* Purpose: Maintains all the debug information for cos
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/cos/trident2_cos.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.38 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: tscf_diagnostics.c,v 1.1.2.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tscf/tier2/tscf_diagnostics.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*
* $Id: bfcmap84756_a0.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the bcm84756_a0.
* This file provides all basic definitions required to program the bcm84756_a0.
```

```
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bfcmap84756_a0.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_pon_dml_fec_app.c,  xfei Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* PON FEC example for DPoE IP-HSD:
* In the following CINT we will try to provide an example of use forward group AC for DPoE application.
*    The focus of the CINT is on AC-LIFs (bcm_vlan_port_t object in BCM API)
*    and HOW TO use PMF to update L2 lookup destination.
*
* DPoE IP-HSD backgroud
* Upstream:
*     ONU implements upstream packet classification matching on L2/3/4 header fields and mapping frames to LLIDs.
* Downstream:
*     ARAD performs an L2 lookup to map frames to a destination.(i.e., group of LLIDs on an ONU).
*     ARAD implements downstream packet classification matching on L2/3/4 header field and mapping frames to PON LIFs.
*
* DPoE IP-HSD example - VOIP
*     ONU configuration uses multiple LLIDs to provide service to a single CPE
*     Use case is a DPoE VOIP application.
*     IP/HSD service (untagged) configuration using three LLIDS:
*        LLID0: VOIP signaling (UDP port 5060; SIP signaling)
*        LLID1: VOIP bearer (TOS/DSCP value 0xB8; UDP RTP)
*        LLID2: default flow, Internet traffic
*    The VOIP signaling and bearer traffic originate from the same CPE device MAC address
*
* How to run:
* cint cint_port_tpid.c
* cint pon/cint_pon_utils.c
* cint pon/cint_pon_dml_fec_app.c
* c
* verbose=1;
* print pon_dml_fec_app(unit, pon_port, nni_port);
* exit;
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_dml_fec_app.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: failover.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Failover initializers
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/failover.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains DPP DRC main structure and routine declarations for the Dram operation using PHY Combo28.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/DRC/drc_combo28_bist.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: pbsmh.h,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pbsmh.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/pbsmh.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tscmod_ucode.c,v 1.23 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* Broadcom Corporation
* Proprietary and Confidential information
* $Copyright: (c) 2012 Broadcom Corp.
* All Rights Reserved.$
*
* File:       tscmod_ucode.c
* Purpose:    Firmware used by TSC micro-Controller. Revision A0
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/tscmod/src/tscmod_ucode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tlv_msg.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       tlv_msg.c
* Purpose:    TLV Message Utility
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/tlv_msg.c
No license file was found, but licenses were detected in source scan.

```
/*
* Misc utility routines for accessing chip-specific features
* of the SiliconBackplane-based Broadcom chips.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbutils.c,v 1.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbutils.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
```

```
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88754_a0.c
* Purpose:     bcm88754_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88754_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsAgeEntry.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_tdm.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_tdm.c
*
* MODULE PREFIX:  jer2_tmc
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_tdm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.41 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Stack API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/stack.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_fdr.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_fap21v_acc_fdr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: spl.c,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  spl.c
* Purpose: Interrupt Blocking
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/sal/core/unix/spl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_operators.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_operators.h
* Purpose:     CINT operator interfaces
```

```
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_operators.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmc_api_flow_control.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_flow_control.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsAgeEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaQsAgeEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wc40.c,v 1.226 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       wc40.c
* Purpose:     Broadcom 10M/100M/1G/2.5G/10G/12G/13G/16G/20G/25G/30G/40G SerDes
*              (Warpcore 40nm with x1 and x4 lane support)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/wc40.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_cmu.c,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: c3hppc_cmu.c
* Purpose: Caladan3 CMU test driver
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_cmu.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: subport.c,v 1.44 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: subport.c
* Purpose: Manages SUBPORT functions
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/subport.c
No license file was found, but licenses were detected in source scan.

/*
*
* $Id: ppe_h.stg,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_pp_rule_encode.h: Guadalupe3k V1.0 PPE rule encoding functions
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_ppe_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
* File generated from ppe_config.cfg
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g3p1/g3p1_ppe_rule_encode.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: mpls.c,v 1.19 Broadcom SDK $

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mpls.c
* Purpose:     mpls vpn CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/mpls.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_ports.c,v 1.22 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_ports.c
*
* MODULE PREFIX:  soc_jer2_tmcports
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_ports.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: alpm_128.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* File:    alpm_128.c
* Purpose: Primitives for LPM management in ALPM - Mode for IPv6-128.
* Requires:
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/alpm_128.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1BagEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1BagEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2plus_vxlan.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_vxlan.c
* Purpose: Maintains all the debug information for vxlan
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vxlan/trident2plus_vxlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2.h
* Purpose:     L2 internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/l2.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* $File:  tomahawk2_tdm_flexport.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk2/flexport/tomahawk2_tdm_flexport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mpls.c,v 1.119 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Mpls
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/mpls.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/cosq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/mcast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/vlan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/shadow_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/rate.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/lport.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/txbeacon.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/rx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/mim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/range.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/l3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/mirror.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/link.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/mcast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/subport.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/link.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/ipmc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/lplist.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/tx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/tunnel.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/petra_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/error.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/ipmc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/proxy.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/oob.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/multicast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/stack.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/oam.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/sat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/proxy.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/ecn.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/init.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/bcmi2c.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo_stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/loop_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/pstats.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/field.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/stg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/vlan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnxf_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/qos.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/robo_fp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/subport.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/custom.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/failover.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/l3.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/client_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/drv_if.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dfe_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/mim.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/auth.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/field.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/mpls.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/vxlan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/rx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/cosq.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/tk371x_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/bfd.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/wlan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/pkt.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/rate.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/niv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/l2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/ipsec.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/multicast.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/fcmap.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/trill.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/tx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/l2gre.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/custom.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/mirror.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/wlan.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/lb.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/macsec.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/stg.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/vswitch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/eav.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/trunk.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/policer.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/cint/bcm_cint_data.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/caladan3_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/trill.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/policer.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/ipfix.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/fabric.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/topo.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/bregex.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/bcmx.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx_dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/niv.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/stat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/tunnel.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/ipfix.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/qos.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/bslenum.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/time.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/extender.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/auth.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/ptp.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/mpls.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/l2.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dispatch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/udf.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/switch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/nat.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/fcoe.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/port.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/oam.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/failover.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/tsn.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/module.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/knet.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm/trunk.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcmx/switch.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_reg_access.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_reg_access.h
No license file was found, but licenses were detected in source scan.

```
# $Id:Venkata Kancharla
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
echo 'Running all  tests on the memories'
local name 'echo $mem ';
local tr50 'tr 50 Memory=$mem IndexStart=min IndexEnd=max';
local tr51 'tr 51 Memory=$mem IndexStart=min IndexEnd=max';
local tr52 'tr 52 Memory=$mem IndexStart=min IndexEnd=max';

counter off
l2mode off
linkscan off
memscan off
config add parity_enable=0
init soc;
init misc;

# VALID memories

local mem DLB_HGT_FLOWSET;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;       $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_X;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_FLOWSET_Y;                  $name; $tr50; $tr51; $tr52;

local mem EGR_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;

local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;

local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;

local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem BCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem PORT_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem COS_MAP_SEL;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_COS_MAP_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem CPU_PBM;                    $name; $tr50;
```

```
local mem CPU_PBM_2;                                    $name; $tr50;
local mem CPU_TS_MAP;                                   $name; $tr50; $tr51; $tr52;
local mem DEST_TRUNK_BITMAP;                            $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;            $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET;                             $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;              $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;            $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;            $name; $tr50; $tr51;
$tr52;
#local mem DLB_HGT_FLOWSET_X;                           $name; $tr50; $tr51; $tr52;
#local mem DLB_HGT_FLOWSET_Y;                           $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_CONTROL;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_MEMBERSHIP;                     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS;                          $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_X;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_GROUP_STATS_Y;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_HIST_LOAD;                            $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_INST_LOAD;                            $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                     $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_STATUS;                        $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_MEMBER_SW_STATE;                      $name; $tr50;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                    $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;                  $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;               $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_PORT_MEMBER_MAP;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_CONTROL;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_MAPPING;                      $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_QUALITY_RESULT;                       $name; $tr50; $tr51; $tr52;
local mem DLB_HGT_RR_SELECTION_POINTER;                 $name; $tr50; $tr51; $tr52;
local mem DSCP_TABLE;                                   $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS;                               $name; $tr50; $tr51; $tr52;
local mem E2E_HOL_STATUS_1;                             $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE;                            $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_X;                          $name; $tr50; $tr51; $tr52;
local mem EFP_COUNTER_TABLE_Y;                          $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE;                              $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_X;                            $name; $tr50; $tr51; $tr52;
local mem EFP_METER_TABLE_Y;                            $name; $tr50; $tr51; $tr52;
local mem EFP_POLICY_TABLE;                             $name; $tr50; $tr51; $tr52;
local mem EFP_TCAM;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_1588_SA;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_COUNTER_CONTROL;                          $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI;                              $name; $tr50; $tr51; $tr52;
local mem EGR_DGPP_TO_NHI_MODBASE;                      $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_ECN_MAP;                             $name; $tr50; $tr51; $tr52;
local mem EGR_DSCP_TABLE;                               $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_DVP_ATTRIBUTE;                    $name; $tr50; $tr51; $tr52;
local mem EGR_DVP_ATTRIBUTE_1;                  $name; $tr50; $tr51; $tr52;
local mem EGR_EDB_XMIT_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_EM_MTP_INDEX;                     $name; $tr50; $tr51; $tr52;
local mem EGR_ENABLE;                           $name; $tr50; $tr51; $tr52;
local mem EGR_ETAG_PCP_MAPPING;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FCOE_CONTROL_1;                   $name; $tr50;
local mem EGR_FC_HEADER_TYPE;                   $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0;        $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1;        $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2;        $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3;        $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;      $name; $tr50; $tr51; $tr52;
#local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;      $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;          $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;             $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PKT_RES_MAP;             $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PORT_MAP;                $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;             $name; $tr50; $tr51; $tr52;
local mem EGR_FLEX_CTR_TOS_MAP;                 $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE;                $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_X;              $name; $tr50; $tr51; $tr52;
local mem EGR_FRAGMENT_ID_TABLE_Y;              $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES;                   $name; $tr50; $tr51; $tr52;
local mem EGR_GPP_ATTRIBUTES_MODBASE;           $name; $tr50; $tr51; $tr52;
local mem EGR_IM_MTP_INDEX;                     $name; $tr50; $tr51; $tr52;
local mem EGR_ING_PORT;                         $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC;                             $name; $tr50; $tr51; $tr52;
local mem EGR_IPMC_CFG2;                        $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL;                        $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_IPV6;                   $name; $tr50; $tr51; $tr52;
local mem EGR_IP_TUNNEL_MPLS;                   $name; $tr50; $tr51; $tr52;
local mem EGR_L3_INTF;                          $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP;                      $name; $tr50; $tr51; $tr52;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_LPORT_PROFILE;             $name; $tr50; $tr51; $tr52;
local mem EGR_MACDA_OUI_PROFILE;                $name; $tr50; $tr51; $tr52;
local mem EGR_MAC_DA_PROFILE;                   $name; $tr50; $tr51; $tr52;
local mem EGR_MAP_MH;                           $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_MASK;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_MASK_MODBASE;                            $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_1;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MIRROR_ENCAP_DATA_2;                     $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT;                        $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_X;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MMU_CREDIT_LIMIT_Y;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MOD_MAP_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_1;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_MAPPING_2;                      $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_PRI_MAPPING;                        $name; $tr50; $tr51; $tr52;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;            $name; $tr50; $tr51; $tr52;
local mem EGR_MTU;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_CONFIG;                              $name; $tr50;
local mem EGR_OLP_DGPP_CONFIG;                         $name; $tr50; $tr51; $tr52;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                 $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS;                       $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_X;                     $name; $tr50; $tr51; $tr52;
local mem EGR_PERQ_XMT_COUNTERS_Y;                     $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                $name; $tr50; $tr51; $tr52;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;               $name; $tr50; $tr51; $tr52;
local mem EGR_PFC_CONTROL;                             $name; $tr50; $tr51; $tr52;
local mem EGR_PORT;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_1;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_PORT_CREDIT_RESET;                       $name; $tr50; $tr51; $tr52;
local mem EGR_PRI_CNG_MAP;                             $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS;                        $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_X;                      $name; $tr50; $tr51; $tr52;
local mem EGR_PW_INIT_COUNTERS_Y;                      $name; $tr50; $tr51; $tr52;
local mem EGR_QCN_CNM_CONTROL_TABLE;                   $name; $tr50;
#local mem EGR_SER_FIFO;                               $name; $tr50; $tr51; $tr52;
local mem EGR_SHAPING_CONTROL;                         $name; $tr50; $tr51; $tr52;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;            $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_PARSE_CONTROL;                     $name; $tr50;
local mem EGR_TRILL_PARSE_CONTROL_2;                   $name; $tr50;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                 $name; $tr50; $tr51; $tr52;
local mem EGR_TRILL_TREE_PROFILE;                      $name; $tr50; $tr51; $tr52;
local mem EGR_TX_PROT_GROUP_TABLE;                     $name; $tr50; $tr51; $tr52;
local mem EGR_VFI;                                     $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_FIELDS_PROFILE;                      $name; $tr50; $tr51; $tr52;
local mem EGR_VFT_PRI_MAP;                             $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_1;                          $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_2;                          $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_CONTROL_3;                          $name; $tr50; $tr51; $tr52;
```

```
local mem EGR_VLAN_STG;                                    $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                     $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_VFI_MEMBERSHIP;                         $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE;                                  $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_ECC;                              $name; $tr50; $tr51; $tr52;
local mem EGR_VLAN_XLATE_LP;                               $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_GROUP;                                 $name; $tr50; $tr51; $tr52;
local mem EGR_VPLAG_MEMBER;                                $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP;                          $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                 $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                  $name; $tr50; $tr51; $tr52;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                  $name; $tr50; $tr51; $tr52;
local mem EGR_VSAN_INTPRI_MAP;                             $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL;                                 $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL1;                                $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL2;                                $name; $tr50; $tr51; $tr52;
local mem EMIRROR_CONTROL3;                                $name; $tr50; $tr51; $tr52;
local mem EM_MTP_INDEX;                                    $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_COS_MAP;                                $name; $tr50; $tr51; $tr52;
local mem ENDPOINT_QUEUE_MAP;                              $name; $tr50; $tr51; $tr52;
local mem EPC_LINK_BMAP;                                   $name; $tr50;
local mem ESBS_PORT_TO_PIPE_MAPPING;                       $name; $tr50;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;            $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L0_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L0_XOFF;                            $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;            $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L1_ERROR;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                     $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                        $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L1_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE0_LLS_L2_ERROR;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_PARENT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_L2_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                 $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                  $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_0;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE0_TDM_TABLE_1;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;           $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L0_ERROR;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L0_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;               $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;           $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L1_ERROR;                          $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                       $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT;                         $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                   $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                      $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L1_XOFF;                           $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                   $name; $tr50; $tr51; $tr52;
```

```
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr50; $tr51;
$tr52;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem FCOE_HOP_COUNT_FN;                    $name; $tr50; $tr51; $tr52;
local mem FC_MAP_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr50; $tr51; $tr52;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_GM_FIELDS;                    $name; $tr50; $tr51; $tr52;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_CONTROL;                    $name; $tr50; $tr51; $tr52;
local mem FP_METER_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_FIELD_SEL;                    $name; $tr50; $tr51; $tr52;
local mem FP_PORT_METER_MAP;                    $name; $tr50; $tr51; $tr52;
local mem FP_RANGE_CHECK;                    $name; $tr50; $tr51; $tr52;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr50;
local mem FP_SLICE_MAP;                    $name; $tr50;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr50; $tr51; $tr52;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr50; $tr51; $tr52;
local mem FP_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem GTP_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_FAILOVER_ENABLE;                    $name; $tr50;
local mem HG_TRUNK_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem HG_TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem HIGIG_TRUNK_CONTROL;                    $name; $tr50;
local mem IARB_ING_PORT_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM;                    $name; $tr50; $tr51; $tr52;
local mem IARB_MAIN_TDM_X;                    $name; $tr50; $tr51; $tr52;
```

```
local mem IARB_MAIN_TDM_Y;                    $name; $tr50; $tr51; $tr52;
local mem ICONTROL_OPCODE_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem IFP_REDIRECTION_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem IMIRROR_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem IM_MTP_INDEX;                    $name; $tr50; $tr51; $tr52;
local mem ING_1588_INGRESS_CTRL;                    $name; $tr50; $tr51; $tr52;
local mem ING_ACTIVE_L3_IIF_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DEST_PORT_ENABLE;                    $name; $tr50;
local mem ING_DNAT_ADDRESS_TYPE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_2_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_DVP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem ING_EGRMSKBMAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_EN_EFILTER_BITMAP;                    $name; $tr50;
local mem ING_ETAG_PCP_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem ING_FC_HEADER_TYPE;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr50; $tr51; $tr52;
#local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr50; $tr51; $tr52;
```

```
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PORT_MAP;                       $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr50; $tr51; $tr52;
local mem ING_FLEX_CTR_TOS_MAP;                        $name; $tr50; $tr51; $tr52;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                $name; $tr50;
local mem ING_L3_NEXT_HOP;                             $name; $tr50; $tr51; $tr52;
local mem ING_MOD_MAP_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem ING_MPLS_EXP_MAPPING;                        $name; $tr50; $tr51; $tr52;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;               $name; $tr50; $tr51; $tr52;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr50; $tr51; $tr52;
local mem ING_PRI_CNG_MAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM;                         $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_X;                       $name; $tr50; $tr51; $tr52;
local mem ING_PW_TERM_SEQ_NUM_Y;                       $name; $tr50; $tr51; $tr52;
local mem ING_ROUTED_INT_PRI_MAPPING;                  $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO;                               $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_X;                             $name; $tr50; $tr51; $tr52;
#local mem ING_SER_FIFO_Y;                             $name; $tr50; $tr51; $tr52;
local mem ING_SNAT;                                    $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_DATA_ONLY;                          $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY;                           $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY_X;                         $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_HIT_ONLY_Y;                         $name; $tr50; $tr51; $tr52;
local mem ING_SNAT_ONLY;                               $name; $tr50; $tr51; $tr52;
local mem ING_TRILL_PARSE_CONTROL;                     $name; $tr50;
local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;             $name; $tr50;
local mem ING_UNTAGGED_PHB;                            $name; $tr50; $tr51; $tr52;
local mem ING_VFT_PRI_MAP;                             $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_RANGE;                              $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_TAG_ACTION_PROFILE;                 $name; $tr50; $tr51; $tr52;
local mem ING_VLAN_VFI_MEMBERSHIP;                     $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP;                      $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;             $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;             $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;              $name; $tr50; $tr51; $tr52;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;              $name; $tr50; $tr51; $tr52;
local mem ING_VSAN;                                    $name; $tr50; $tr51; $tr52;
local mem INITIAL_ING_L3_NEXT_HOP;                     $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP;                             $name; $tr50; $tr51; $tr52;
local mem INITIAL_L3_ECMP_GROUP;                       $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE;                      $name; $tr50; $tr51; $tr52;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;             $name; $tr50; $tr51; $tr52;
local mem IP_MULTICAST_TCAM;                           $name; $tr50; $tr51; $tr52;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;             $name; $tr50; $tr51; $tr52;
```

```
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr50;
local mem KNOWN_MCAST_BLOCK_MASK;                       $name; $tr50; $tr51; $tr52;
local mem L2MC;                         $name; $tr50; $tr51; $tr52;
local mem L2_BULK_MATCH_DATA;                           $name; $tr50;
local mem L2_BULK_MATCH_MASK;                           $name; $tr50;
local mem L2_BULK_REPLACE_DATA;                         $name; $tr50;
local mem L2_BULK_REPLACE_MASK;                         $name; $tr50;
local mem L2_ENDPOINT_ID;                       $name; $tr50; $tr51; $tr52;
local mem L2X;                          $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_LP;                          $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L2_ENTRY_ONLY_ECC;                            $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_X;                      $name; $tr50; $tr51; $tr52;
local mem L2_HITDA_ONLY_Y;                      $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_X;                      $name; $tr50; $tr51; $tr52;
local mem L2_HITSA_ONLY_Y;                      $name; $tr50; $tr51; $tr52;
local mem L2_LEARN_INSERT_FAILURE;                      $name; $tr50;
local mem L2_MOD_FIFO;                          $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY;                        $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_DATA_ONLY;                      $name; $tr50; $tr51; $tr52;
local mem L2_USER_ENTRY_ONLY;                           $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP;                     $name; $tr50; $tr51; $tr52;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                       $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                  $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                      $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                   $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                  $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                 $name; $tr50; $tr51; $tr52;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                       $name; $tr50; $tr51; $tr52;'
local mem L3_DEFIP_AUX_HITBIT_UPDATE;                   $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_AUX_SCRATCH;                         $name; $tr50;
local mem L3_DEFIP_AUX_TABLE;                           $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_DATA_ONLY;                           $name; $tr50; $tr51; $tr52;
```

```
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_X;                  $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_HIT_ONLY_Y;                  $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128;                    $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;          $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;           $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;         $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;         $name; $tr50; $tr51; $tr52;
local mem L3_DEFIP_PAIR_128_ONLY;               $name; $tr50; $tr51; $tr52;
local mem L3_ECMP;                              $name; $tr50; $tr51; $tr52;
local mem L3_ECMP_COUNT;                        $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_X;                  $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_HIT_ONLY_Y;                  $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_MULTICAST;              $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV4_UNICAST;                $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_MULTICAST;              $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_IPV6_UNICAST;                $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_LP;                          $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY;                        $name; $tr50; $tr51; $tr52;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr50; $tr51; $tr52;
local mem L3_IIF;                               $name; $tr50; $tr51; $tr52;
local mem L3_IIF_PROFILE;                       $name; $tr50; $tr51; $tr52;
local mem L3_IPMC;                              $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_1;                            $name; $tr50; $tr51; $tr52;
local mem L3_IPMC_REMAP;                        $name; $tr50; $tr51; $tr52;
local mem L3_MTU_VALUES;                        $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL;                            $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_DATA_ONLY;                  $name; $tr50; $tr51; $tr52;
local mem L3_TUNNEL_ONLY;                       $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;         $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;       $name; $tr50; $tr51; $tr52;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;    $name; $tr50; $tr51;
$tr52;
local mem LPORT_TAB;                            $name; $tr50; $tr51; $tr52;
local mem MAC_BLOCK;                            $name; $tr50; $tr51; $tr52;
local mem MIRROR_CONTROL;                       $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_CTR;                        $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_EXP;                        $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE0;             $name; $tr50; $tr51; $tr52;
local mem MMU_AGING_MASK_TBL_PIPE1;             $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData0;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData1;                         $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData10;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData11;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData12;                        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData13;                        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData14;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData15;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData16;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData17;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData18;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData19;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData2;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData20;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData21;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData22;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData23;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData24;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData25;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData26;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData27;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData28;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData29;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData3;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData30;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData31;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData32;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData33;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData34;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData35;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData36;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData37;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData38;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData39;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData4;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData40;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData41;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData42;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData43;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData44;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData45;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData46;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData47;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData48;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData49;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData5;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData50;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData51;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData52;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData53;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData54;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData55;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData56;        $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData57;        $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CBPData58;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData59;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData60;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData61;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData62;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData63;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData64;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData65;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData66;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData67;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData68;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData69;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData70;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData71;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData72;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData73;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData74;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData75;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData76;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData77;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData78;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData79;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData80;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData81;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData82;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData83;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CBPData9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP0_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CCP1_RESEQ_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CCP_MEM;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_CELL_LINK;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK10;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK11;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK12;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK13;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK14;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK15;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK16;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK17;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK18;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK19;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK20;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_CFAP_BANK3;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK4;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK5;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK6;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK7;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK8;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CFAP_BANK9;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CHFC_SYSPORT_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_COLOR_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_ING_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_MTRI_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_CTR_UC_DROP_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_ENQ_PBI_DB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_EPRG_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_BASE_INDEX_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_MERGE_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_OFFSET_MAP_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_PORT_COEFC_TB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_ST_TRANS_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TBID_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_QCN_TOV_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_INTFO_TC2PRI_MAPPING;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCFP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MCQN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
```

```
$tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PDB1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKTHDR;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PKT_LINK;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_PORTCNT;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE0_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_PQE1_MEM;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_ENABLE_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QFBTB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_QCN_SITB;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr50; $tr51; $tr52;
#local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_0;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_BST_1;                     $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                 $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                  $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                   $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;               $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;               $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_BST_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_PORT;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_PORT;              $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QGROUP;            $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_BST_QUEUE;             $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_PORT;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;        $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;          $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;         $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;       $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT;           $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;         $name; $tr50; $tr51; $tr52;
```

```
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                    $name; $tr50; $tr51; $tr52;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                     $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB0;                    $name; $tr50; $tr51; $tr52;
local mem MMU_UCQDB1;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_CONFIG_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                    $name; $tr50; $tr51; $tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                    $name; $tr50;
```

```
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr50;
$tr51; $tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr50; $tr51;
$tr52;
local mem MODID_BASE_PTR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr50; $tr51; $tr52;
local mem MODPORT_MAP_SW;                    $name; $tr50; $tr51; $tr52;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr50;
#local mem MPLS_ENTRY;                    $name; $tr50; $tr51; $tr52;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr50;
local mem MY_STATION_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr50; $tr51; $tr52;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr50; $tr51; $tr52;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem PHB2_COS_MAP;                    $name; $tr50; $tr51; $tr52;
local mem PORT_BRIDGE_BMAP;                    $name; $tr50;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr50;
local mem PORT_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr50; $tr51; $tr52;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr50; $tr51; $tr52;
local mem PORT_TAB;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr50; $tr51; $tr52;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_DROPS;                    $name; $tr50;
```

```
local mem RH_ECMP_DROPS_X;                          $name; $tr50;
local mem RH_ECMP_DROPS_Y;                          $name; $tr50;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                          $name; $tr50; $tr51; $tr52;
local mem RH_ECMP_FLOWSET;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_X;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_DROPS_Y;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_FLOWSET;                          $name; $tr50; $tr51; $tr52;
local mem RH_HGT_GROUP_CONTROL;                          $name; $tr50; $tr51; $tr52;
local mem RH_LAG_DROPS;                          $name; $tr50;
local mem RH_LAG_DROPS_X;                          $name; $tr50;
local mem RH_LAG_DROPS_Y;                          $name; $tr50;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                          $name; $tr50; $tr51; $tr52;
local mem RH_LAG_FLOWSET;                          $name; $tr50; $tr51; $tr52;
local mem RQE_FREE_LIST;                          $name; $tr50; $tr51; $tr52;
local mem RQE_LINK_LIST;                          $name; $tr50; $tr51; $tr52;
local mem RTAG7_FLOW_BASED_HASH;                          $name; $tr50; $tr51; $tr52;
local mem RTAG7_PORT_BASED_HASH;                          $name; $tr50; $tr51; $tr52;
local mem RX_PROT_GROUP_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SERVICE_COS_MAP;                          $name; $tr50; $tr51; $tr52;
local mem SERVICE_PORT_MAP;                          $name; $tr50; $tr51; $tr52;
local mem SERVICE_QUEUE_MAP;                          $name; $tr50; $tr51; $tr52;
local mem SER_MEMORY;                          $name; $tr50; $tr51; $tr52;
local mem SER_RESULT_0;                          $name; $tr50;
local mem SER_RESULT_1;                          $name; $tr50;
local mem SER_RESULT_DATA_0;                          $name; $tr50;
local mem SER_RESULT_DATA_1;                          $name; $tr50;
local mem SER_RESULT_EXPECTED_0;                          $name; $tr50;
local mem SER_RESULT_EXPECTED_1;                          $name; $tr50;
local mem SGPP_TO_PIPE_MAPPING;                          $name; $tr50; $tr51; $tr52;
local mem SOURCE_MOD_PROXY_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SOURCE_TRUNK_MAP_MODBASE;                          $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP;                          $name; $tr50; $tr51; $tr52;
local mem SOURCE_VP_2;                          $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_EGRESS;                          $name; $tr50; $tr51; $tr52;
local mem SRC_MODID_INGRESS_BLOCK;                          $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;                          $name; $tr50; $tr51; $tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                          $name; $tr50; $tr51;
$tr52;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;                          $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE;                          $name; $tr50; $tr51; $tr52;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                          $name; $tr50; $tr51; $tr52;
local mem TCP_FN;                          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_X;                          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_BST_Y;                          $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT1_X;                          $name; $tr50; $tr51; $tr52;
```

```
local mem THDI_PORT_PG_CNTRS_RT1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_PG_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_BST_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_RT_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CNTRS_SH_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG0_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG1_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG2_Y;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_X;                    $name; $tr50; $tr51; $tr52;
local mem THDI_PORT_SP_CONFIG_Y;                    $name; $tr50; $tr51; $tr52;
local mem TOS_FN;                    $name; $tr50; $tr51; $tr52;
local mem TRILL_DROP_STATS;                    $name; $tr50;
local mem TRILL_DROP_STATS_X;                    $name; $tr50;
local mem TRILL_DROP_STATS_Y;                    $name; $tr50;
local mem TRUNK_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_CBL_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_GROUP;                    $name; $tr50; $tr51; $tr52;
local mem TRUNK_MEMBER;                    $name; $tr50; $tr51; $tr52;
local mem TTL_FN;                    $name; $tr50; $tr51; $tr52;
local mem TX_INITIAL_PROT_GROUP_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                    $name; $tr50; $tr51; $tr52;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_OFFSET;                    $name; $tr50; $tr51; $tr52;
local mem FP_UDF_TCAM;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_HGI_BITMAP;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_MCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem UNKNOWN_UCAST_BLOCK_MASK;                    $name; $tr50; $tr51; $tr52;
local mem VFI;                    $name; $tr50; $tr51; $tr52;
local mem VFI_1;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE;                    $name; $tr50; $tr51; $tr52;
local mem VFI_PROFILE_2;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                    $name; $tr50; $tr51; $tr52;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                    $name; $tr50; $tr51; $tr52;
local mem VFP_POLICY_TABLE;                    $name; $tr50; $tr51; $tr52;
local mem VFP_TCAM;                    $name; $tr50; $tr51; $tr52;
```

```
local mem VLAN_TAB;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_MAC;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_MPLS;                               $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_TAB;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_PROFILE_2;                                  $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL;                                   $name; $tr50; $tr51; $tr52;
local mem VLAN_PROTOCOL_DATA;                                      $name; $tr50; $tr51; $tr52;
local mem STG_TAB;                                 $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET;                                     $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_DATA_ONLY;                                   $name; $tr50; $tr51; $tr52;
local mem VLAN_SUBNET_ONLY;                                $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE;                                      $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_ECC;                                  $name; $tr50; $tr51; $tr52;
local mem VLAN_XLATE_LP;                                   $name; $tr50; $tr51; $tr52;
local mem VOQ_COS_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem VOQ_MOD_MAP;                                     $name; $tr50; $tr51; $tr52;
local mem VOQ_PORT_MAP;                                    $name; $tr50; $tr51; $tr52;
local mem VRF;                                     $name; $tr50; $tr51; $tr52;
#local mem XLPORT_WC_UCMEM_DATA;                                   $name; $tr50; $tr51; $tr52;
#----------------------------NOTEST memories-----------------------------------------------------------------
#local mem EDB_1DBG_B;                                     $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;                              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;                              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;                              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;                              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;                          $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;                              $name; $tr50; $tr51; $tr52;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;                              $name; $tr50; $tr51; $tr52;
#local mem ING_SERVICE_PRI_MAP;                                    $name; $tr50; $tr51; $tr52;
#local mem LINK_STATUS;                                    $name; $tr50; $tr51; $tr52;
#local mem LMEP;                                   $name; $tr50; $tr51; $tr52;
#local mem LMEP_DA;                                $name; $tr50; $tr51; $tr52;
#local mem MAID_REDUCTION;                                 $name; $tr50; $tr51; $tr52;
#local mem MA_INDEX;                               $name; $tr50; $tr51; $tr52;
#local mem MA_STATE;                               $name; $tr50; $tr51; $tr52;
#local mem OAM_LM_COUNTERS;                                $name; $tr50; $tr51; $tr52;
#local mem OAM_OPCODE_CONTROL_PROFILE;                             $name; $tr50; $tr51; $tr52;
#local mem RMEP;                                   $name; $tr50; $tr51; $tr52;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                                $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES;                                   $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_X;                                 $name; $tr50; $tr51; $tr52;
#local mem EGR_MAX_USED_ENTRIES_Y;                                 $name; $tr50; $tr51; $tr52;
```

```
#local mem EGR_MMU_REQUESTS;                    $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_X;                  $name; $tr50; $tr51; $tr52;
#local mem EGR_MMU_REQUESTS_Y;                  $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS;                   $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_X;                 $name; $tr50; $tr51; $tr52;
#local mem EGR_PORT_REQUESTS_Y;                 $name; $tr50; $tr51; $tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr50; $tr51;
$tr52;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr50; $tr51;
$tr52;
echo "done";

echo "Table DMA/Table SLAM (Count=0 means get and use max automatically)";

echo "Running Table DMA Tests ..."
local name 'echo $mem ';
local tr71_1 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=f SlamLowToHigh=t';
local tr71_2 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=t';
local tr71_3 'tr 71 Mem=$mem Start=0 Count=0 TSlamEnable=t SlamLowToHigh=f';
local tr71_4 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=f SlamLowToHigh=t';
local tr71_5 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=t';
local tr71_6 'tr 71 Mem=$mem Start=0 Count=260000 TSlamEnable=t SlamLowToHigh=f';


# VALID memories

local mem ALTERNATE_EMIRROR_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem BCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem COS_MAP_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_COS_MAP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_PBM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem CPU_TS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DEST_TRUNK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_TIMESTAMP_PAGE_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_FLOWSET_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_FLOWSET_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem DLB_HGT_GROUP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_MEMBERSHIP;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_GROUP_STATS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_HIST_LOAD;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_INST_LOAD;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_ATTRIBUTE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_STATUS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_MEMBER_SW_STATE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_X;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_OPTIMAL_CANDIDATE_Y;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_PLA_QUANTIZE_THRESHOLD;           $name; $tr71_1; $tr71_2;
$tr71_3;
local mem DLB_HGT_PORT_MEMBER_MAP;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_CONTROL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_MAPPING;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_QUALITY_RESULT;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem DLB_HGT_RR_SELECTION_POINTER;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem DSCP_TABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem E2E_HOL_STATUS_1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_X;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_COUNTER_TABLE_Y;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_X;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_METER_TABLE_Y;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_POLICY_TABLE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EFP_TCAM;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_1588_SA;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_COUNTER_CONTROL;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DGPP_TO_NHI_MODBASE;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_ECN_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DSCP_TABLE;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_DVP_ATTRIBUTE_1;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EDB_XMIT_CTRL;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_EM_MTP_INDEX;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ENABLE;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ETAG_PCP_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FCOE_CONTROL_1;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FC_HEADER_TYPE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_X;           $name; $tr71_1; $tr71_2;
$tr71_3;
```

```
local mem EGR_FLEX_CTR_COUNTER_TABLE_0_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_1_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_2_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_COUNTER_TABLE_3_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_FRAGMENT_ID_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_GPP_ATTRIBUTES_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IM_MTP_INDEX;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_ING_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IPMC_CFG2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_IPV6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_IP_TUNNEL_MPLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_INTF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_L3_NEXT_HOP_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_LPORT_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MACDA_OUI_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAC_DA_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MAP_MH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MASK_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_MIRROR_ENCAP_DATA_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MIRROR_ENCAP_DATA_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MMU_CREDIT_LIMIT_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_MAPPING_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_EXP_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_MTU;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_NAT_PACKET_EDIT_INFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_DGPP_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_OLP_HEADER_TYPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PERQ_XMT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PER_PORT_BUFFER_OVERFLOW;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_PER_PORT_BUFFER_SFT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PFC_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PORT_CREDIT_RESET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_PW_INIT_COUNTERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_QCN_CNM_CONTROL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_SHAPING_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem EGR_SUBPORT_TAG_DOT1P_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_PARSE_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_RBRIDGE_NICKNAMES;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TRILL_TREE_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_TX_PROT_GROUP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFI;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_FIELDS_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_CONTROL_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem EGR_VLAN_STG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_TAG_ACTION_PROFILE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_VFI_MEMBERSHIP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_ECC;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VLAN_XLATE_LP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_GROUP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VPLAG_MEMBER;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_A;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_ACTION_B;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_A;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VP_VLAN_MEMBERSHIP_REMAP_B;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem EGR_VSAN_INTPRI_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL2;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EMIRROR_CONTROL3;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EM_MTP_INDEX;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_COS_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ENDPOINT_QUEUE_MAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem EPC_LINK_BMAP;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ESBS_PORT_TO_PIPE_MAPPING;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_STATE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_CFG;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L0_CHILD_WEIGHT_WORKING;                                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_ERROR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_HEADS_TAILS;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMA_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MEMB_CONFIG;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_MIN_NEXT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_PARENT_STATE;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_MAX_SC;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_WERR_NEXT;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L0_XOFF;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_STATE1;                                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_CFG;                                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L1_CHILD_WEIGHT_WORKING;                                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_ERROR;                                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE0_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L1_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE0_LLS_L2_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_L2_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_HEADS_TAILS;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMA_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_MEMB_CONFIG;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_PARENT_STATE;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_LLS_PORT_WERR_MAX_SC;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE0_TDM_TABLE_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L0_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_MIN_NEXT;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_PARENT_STATE;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_WERR_NEXT;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L0_XOFF;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_STATE1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_CFG;               $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L1_CHILD_WEIGHT_WORKING;           $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_ERROR;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem ES_PIPE1_LLS_L1_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L1_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_STATE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_CFG;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ES_PIPE1_LLS_L2_CHILD_WEIGHT_WORKING;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_ERROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_MIN_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_PARENT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_WERR_NEXT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_L2_XOFF;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_HEADS_TAILS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMA_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_MEMB_CONFIG;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_PARENT_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_LLS_PORT_WERR_MAX_SC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ES_PIPE1_TDM_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FCOE_HOP_COUNT_FN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FC_MAP_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_COUNTER_TABLE_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem FP_GLOBAL_MASK_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GLOBAL_MASK_TCAM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_GM_FIELDS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_HG_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_I2E_CLASSID_SELECT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_METER_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_POLICY_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_FIELD_SEL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_PORT_METER_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_RANGE_CHECK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_KEY_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_SLICE_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_STORM_CONTROL_METERS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem GTP_PORT_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_ENABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_FAILOVER_SET; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_GROUP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HG_TRUNK_MEMBER; $name; $tr71_1; $tr71_2; $tr71_3;
local mem HIGIG_TRUNK_CONTROL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_ING_PORT_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_X; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IARB_MAIN_TDM_Y; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ICONTROL_OPCODE_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_COS_MAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IFP_REDIRECTION_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IMIRROR_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem IM_MTP_INDEX; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_1588_INGRESS_CTRL; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ACTIVE_L3_IIF_PROFILE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DEST_PORT_ENABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DNAT_ADDRESS_TYPE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_2_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_DVP_TABLE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EGRMSKBMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_EN_EFILTER_BITMAP; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ETAG_PCP_MAPPING; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FC_HEADER_TYPE; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_0_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_1_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_2_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_X; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_3_Y; $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4; $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_X; $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_4_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_5_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_6_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_X;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_COUNTER_TABLE_7_Y;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_4;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_5;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_6;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_OFFSET_TABLE_7;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PKT_RES_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PORT_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_FLEX_CTR_TOS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_HIGIG_TRUNK_OVERRIDE_PROFILE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_IPV6_MC_RESERVED_ADDRESS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MOD_MAP_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_MPLS_EXP_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_OUTER_DOT1P_MAPPING_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_PHYSICAL_TO_LOGICAL_PORT_NUMBER_MAPPING_TABLE;
$name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PRI_CNG_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_PW_TERM_SEQ_NUM_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_ROUTED_INT_PRI_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SER_FIFO_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem ING_SER_FIFO_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_SNAT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TRILL_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_TRILL_PAYLOAD_PARSE_CONTROL;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_UNTAGGED_PHB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VFT_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_RANGE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_TAG_ACTION_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VLAN_VFI_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_ACTION_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VP_VLAN_MEMBERSHIP_REMAP_B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ING_VSAN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_ING_L3_NEXT_HOP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_L3_ECMP_GROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem INITIAL_PROT_NHI_TABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IPV4_IN_IPV6_PREFIX_MATCH_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem IP_MULTICAST_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem IP_OPTION_CONTROL_PROFILE_TABLE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem ISBS_PORT_TO_PIPE_MAPPING;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem KNOWN_MCAST_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2MC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_MATCH_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_BULK_REPLACE_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENDPOINT_ID;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2X;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_LP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_ENTRY_ONLY;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_ENTRY_ONLY_ECC;                    $name; $tr71_4; $tr71_5; $tr71_6;
local mem L2_HITDA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L2_HITDA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITDA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_HITSA_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_LEARN_INSERT_FAILURE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_MOD_FIFO;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L2_USER_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP;                    $name; $tr71_1; $tr71_2; $tr71_3;
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_ECC';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_X';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_HIT_ONLY_Y';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV4_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_128';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_IPV6_64_1';                    $name; $tr71_1; $tr71_2; $tr71_3;'
if $?l3_alpm_enable \
  'local mem 'L3_DEFIP_ALPM_RAW';                    $name; $tr71_1; $tr71_2; $tr71_3;'

local mem L3_DEFIP_AUX_HITBIT_UPDATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_SCRATCH;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_AUX_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_HIT_ONLY_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_DEFIP_PAIR_128_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ECMP_COUNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem L3_ENTRY_HIT_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_X;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_HIT_ONLY_Y;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_MULTICAST;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV4_UNICAST;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_MULTICAST;              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_IPV6_UNICAST;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_LP;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_ENTRY_ONLY_ECC;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IIF_PROFILE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_1;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_IPMC_REMAP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_MTU_VALUES;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_DATA_ONLY;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem L3_TUNNEL_ONLY;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM;         $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_2;       $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem LPORT_TAB;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MAC_BLOCK;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MIRROR_CONTROL;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_CTR;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_EXP;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_AGING_MASK_TBL_PIPE1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData0;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData1;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData10;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData11;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData12;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData13;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData14;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData15;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData16;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData17;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData18;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData19;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData2;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData20;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData21;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData22;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData23;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData24;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData25;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData26;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData27;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData28;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData29;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData3;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData30;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData31;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData32;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData33;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData34;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData35;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData36;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData37;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData38;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData39;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData4;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData40;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData41;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData42;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData43;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData44;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData45;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData46;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData47;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData48;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData49;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData5;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData50;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData51;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData52;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData53;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData54;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData55;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData56;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData57;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData58;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData59;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData6;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData60;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData61;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData62;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData63;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData64;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData65;        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData66;        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CBPData67;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData68;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData69;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData7;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData70;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData71;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData72;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData73;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData74;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData75;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData76;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData77;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData78;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData79;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData8;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData80;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData81;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData82;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData83;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CBPData9;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP0_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP1_RESEQ_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CCP_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CELL_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK10;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK11;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK12;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK13;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK14;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK15;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK16;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK17;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK18;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK19;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK2;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK20;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK3;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK4;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK5;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK6;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK7;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK8;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CFAP_BANK9;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CHFC_SYSPORT_MAPPING;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_COLOR_DROP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_ING_DROP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem MMU_CTR_MC_DROP_MEM0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MC_DROP_MEM1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_MTRI_DROP_MEM;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_CTR_UC_DROP_MEM;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_ENQ_PBI_DB;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_EPRG_MEM;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_BASE_INDEX_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_FC_ST_TBL2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_MERGE_ST_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_OFFSET_MAP_TBL;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PFC_ST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_PORT_COEFC_TB;                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_ST_TRANS_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_XPIPE_FC_MAP_TBL2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL0;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL1;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFI_YPIPE_FC_MAP_TBL2;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_RVD_TBL;               $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_CNM_TIMER_TBL;             $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TBID_TBL;                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_QCN_TOV_TBL;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_INTFO_TC2PRI_MAPPING;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCFP;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB0;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQDB1;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MCQN;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGBUCKET_MEM_1;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRI_BKPMETERINGCONFIG_MEM_1;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L0_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L1_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_0;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_BUCKET_L2_MEM_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_0;        $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_MTRO_EGRMETERINGCONFIG_MEM_1;        $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_MTRO_L0_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L0_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L1_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_MTRO_L2_MEM_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PDB1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKTHDR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PKT_LINK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PORTCNT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE0_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_PQE1_MEM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_COUNTER;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CNM_QUEUE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_QLEN;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_CPQST_TSSLS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_ENABLE_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QFBTB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_QLEN_SHADOW1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_QCN_SITB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INFO1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_GROUP_INITIAL_COPY_COUNT;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_REPL_HEAD_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_HEAD_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_LIST_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_REPL_STATE_TBL_PIPE1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_PORTSP_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_0C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_CONFIG_1C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_DB_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_PORTSP_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_BST_1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0B;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_CONFIG_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_COUNT_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_0C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1A;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1B;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_OFFSET_1C;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_0;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDM_MCQE_QUEUE_RESUME_1;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_BST_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QGROUP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_BST_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QGROUP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_COUNTER_QUEUE;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QGROUP;                    $name; $tr71_1; $tr71_2;
```

```
$tr71_3;
local mem MMU_THDU_XPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_0;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_Q_TO_QGRP_MAP_1;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_PORT_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_XPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_PORT;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QGROUP;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_BST_QUEUE;                       $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_CONFIG_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_PORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QGROUP;                  $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_COUNTER_QUEUE;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_OFFSET_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_0;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_Q_TO_QGRP_MAP_1;                 $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_0;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_PORT_1;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QGROUP;                   $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_THDU_YPIPE_RESUME_QUEUE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB0;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_UCQDB1;                     $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_X_PIPE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_AVG_QSIZE_Y_PIPE;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_X_PIPE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_CONFIG_Y_PIPE;                         $name; $tr71_1; $tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_X_PIPE;                    $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_0_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_1_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_2_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_3_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_4_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_DROP_CURVE_PROFILE_5_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_X_PIPE;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_DROP_THD_Y_PIPE;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_PORT_SP_SHARED_COUNT_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_X_PIPE;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_DROP_THD_Y_PIPE;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_X_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_QGROUP_SHARED_COUNT_Y_PIPE;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_X_PIPE_0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_DEQ_Y_PIPE_1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_0;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_X_PIPE_1;                $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_0;                $name; $tr71_1;
```

```
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_DROP_THD_ENQ_Y_PIPE_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_X_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MMU_WRED_UC_QUEUE_TOTAL_COUNT_Y_PIPE;                    $name; $tr71_1;
$tr71_2; $tr71_3;
local mem MODID_BASE_PTR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_M3;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SUBPORT_MIRROR;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MODPORT_MAP_SW;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTROPY_LABEL_DATA;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MPLS_ENTRY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MULTIPASS_LOOPBACK_BITMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_2_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem MY_STATION_TCAM_DATA_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem MY_STATION_TCAM_ENTRY_ONLY;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NONUCAST_TRUNK_BLOCK_MASK;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem NUM_QCN_CNM_RECEIVED;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PFS_PACKET_TYPE_OFFSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PHB2_COS_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_BRIDGE_MIRROR_BMAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_CBL_TABLE_MODBASE;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_LAG_FAILOVER_SET;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem PORT_TAB;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK0;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem REPLICATION_FIFO_BANK1;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_DROPS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_ECMP_ETHERTYPE_ELIGIBILITY_MAP;                    $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_ECMP_FLOWSET;                    $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem RH_HGT_DROPS;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_X;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_DROPS_Y;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_ETHERTYPE_ELIGIBILITY_MAP;                                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_HGT_FLOWSET;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_HGT_GROUP_CONTROL;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_X;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_DROPS_Y;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RH_LAG_ETHERTYPE_ELIGIBILITY_MAP;                                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem RH_LAG_FLOWSET;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_FREE_LIST;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RQE_LINK_LIST;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_FLOW_BASED_HASH;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RTAG7_PORT_BASED_HASH;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem RX_PROT_GROUP_TABLE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_COS_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_PORT_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem SERVICE_QUEUE_MAP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_MEMORY;                                  $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_0;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_1;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_0;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_DATA_1;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_0;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SER_RESULT_EXPECTED_1;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem SGPP_TO_PIPE_MAPPING;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_MOD_PROXY_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_TABLE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_TRUNK_MAP_MODBASE;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem SOURCE_VP_2;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_EGRESS;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem SRC_MODID_INGRESS_BLOCK;                             $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP;                         $name; $tr71_1; $tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_DATA_ONLY;                               $name; $tr71_1;
$tr71_2; $tr71_3;
#n/a - local mem SUBPORT_TAG_SGPP_MAP_ONLY;                                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem SYSTEM_CONFIG_TABLE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem SYSTEM_CONFIG_TABLE_MODBASE;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem TCP_FN;                                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_X;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_BST_Y;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_X;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT1_Y;                            $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem THDI_PORT_PG_CNTRS_RT2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_RT2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH1_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CNTRS_SH2_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_PG_CONFIG_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_BST_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_RT_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CNTRS_SH_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG0_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG1_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG2_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem THDI_PORT_SP_CONFIG_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TOS_FN;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_X;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRILL_DROP_STATS_Y;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_CBL_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_GROUP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TRUNK_MEMBER;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TTL_FN;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem TX_INITIAL_PROT_GROUP_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_CAM;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem UDF_CONDITIONAL_CHECK_TABLE_RAM;                $name; $tr71_1; $tr71_2;
$tr71_3;
local mem FP_UDF_OFFSET;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem FP_UDF_TCAM;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_HGI_BITMAP;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_MCAST_BLOCK_MASK;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem UNKNOWN_UCAST_BLOCK_MASK;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_1;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFI_PROFILE_2;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_A;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_HASH_FIELD_BMAP_TABLE_B;                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VFP_POLICY_TABLE;                $name; $tr71_1; $tr71_2; $tr71_3;
```

```
local mem VFP_TCAM;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_TAB;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MAC;                                $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_MPLS;                               $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_TAB;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROFILE_2;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_PROTOCOL_DATA;                      $name; $tr71_1; $tr71_2; $tr71_3;
local mem STG_TAB;                                 $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_DATA_ONLY;                   $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_SUBNET_ONLY;                        $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE;                              $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_ECC;                          $name; $tr71_1; $tr71_2; $tr71_3;
local mem VLAN_XLATE_LP;                           $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_COS_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_MOD_MAP;                             $name; $tr71_1; $tr71_2; $tr71_3;
local mem VOQ_PORT_MAP;                            $name; $tr71_1; $tr71_2; $tr71_3;
local mem VRF;                                     $name; $tr71_1; $tr71_2; $tr71_3;
#local mem XLPORT_WC_UCMEM_DATA;                   $name; $tr71_1; $tr71_2; $tr71_3;
#----------------------------NOTEST memories-------------------------------------------------------------------
#local mem EDB_1DBG_B;                             $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L0_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L1_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_0;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_ACCUM_COMP_MEM_1;          $name; $tr71_1; $tr71_2;
$tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_0;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem HSP_SCHED_L2_CREDIT_MEM_1;              $name; $tr71_1; $tr71_2; $tr71_3;
#local mem ING_SERVICE_PRI_MAP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LINK_STATUS;                            $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP;                                   $name; $tr71_1; $tr71_2; $tr71_3;
#local mem LMEP_DA;                                $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MAID_REDUCTION;                         $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_INDEX;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MA_STATE;                               $name; $tr71_1; $tr71_2; $tr71_3;
#local mem OAM_LM_COUNTERS;                        $name; $tr71_1; $tr71_2; $tr71_3;
```

```
#local mem OAM_OPCODE_CONTROL_PROFILE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem RMEP;                    $name; $tr71_1; $tr71_2; $tr71_3;
#---------------------------- READONLY  memories-----------------------------------------------------------------
#local mem DLB_HGT_MEMBER_HW_STATE;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MAX_USED_ENTRIES_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_MMU_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_X;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem EGR_PORT_REQUESTS_Y;                    $name; $tr71_1; $tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_0;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#local mem MMU_MTRO_EGRMETERINGBUCKET_MEM_1;                    $name; $tr71_1;
$tr71_2; $tr71_3;
#-----------------------------------------------------------------------------------------------

echo "done";

config add parity_enable=1
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/trall_bcm56860_a0.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: robo_diag.c,v 1.93 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ROBO socdiag command list
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/robo_diag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: chipsim_bde.h,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chipsim_bde.h
* Purpose:     expose DPP chipsim bde interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/chipsim_bde.h
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod16_sc_lkup_table.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom Corporation
* Proprietary and Confidential information
* All rights reserved
* This source file is the property of Broadcom Corporation, and
* may not be copied or distributed in any isomorphic form without the
* prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
* File       : temod16_sc_lkup_table.c
* Description: c functions implementing SC Tier1s for TEMod Serdes Driver
*----------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce16/tier1/temod16_sc_lkup_table.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       init.c
* Purpose:     Device initialization commands.
*
* DPP diag init code using bcm API. The code in here is intended to
* configure the system for simple packet flows.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/init.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_vfp.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:    techsupport_vfp.c
* Purpose: This file implements techsupport utility for
*          vfp.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vfp/techsupport_vfp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th_soc.h$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM soc header for BCM56960
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk/tdm_th_soc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hurricane.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hurricane.h
* Purpose:     Function declarations for Hurricane  bcm functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/hurricane.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.144 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.c
* Purpose:     BCM definitions for bcm_switch_control
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/switch.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2.c,v 1.65 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* L2 CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/l2.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: //depot/tomahawk2/dv/tdm/chip/src/tdm_th2_filter.c#4 $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip based calendar postprocessing filters
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tomahawk2/tdm_th2_filter.c
No license file was found, but licenses were detected in source scan.

```
/*
* Stubs for NVRAM functions for platforms without flash
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: nvram_vxworks.c,v 1.3 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/nvram_vxworks.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: connection.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       connection.c
* Purpose:     Board connection functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/board/support/connection.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_efp.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_efp.c
* Purpose: This file implements techsupport utility for
*          efp.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/efp/techsupport_efp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: jer2_jer_ofp_rates.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/JER/jer_ofp_rates.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision    :  $Id: eagle_phy_1_interface.h 1490 2016-08-11 22:26:06Z cvazquez $   *
*                                                                                        *
```

```
*  Description :  Interface functions targeted to IP user                    *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                            *
*                                                                            *
******************************************************************************
******************************************************************************/
/*! \mainpage
*
* \section intro_sec Introduction
*
* This documentation files are intended to guide a developer in using the
* Broadcom SerDes core within a larger ecosystem by providing specific API
* function calls which can be used to perform all necessary operations.
*
* The detailed description about the API directory structure, API overview,
* release procedure, and check out process can be found in the Serdes API User Guide
*
(http://ingbu.broadcom.com/hsip/eagle_phy_1/SerDes%20Documents/PMD_Methodology/Serdes%20External%20
Micro%20User%20Guide.docx)
* \n \n
*
* \section API_sec Important API Files
*
* eagle_phy_1_interface.h - provides the primary functionality.
*
* eagle_phy_1_dependencies.h - defines the functions to be provided by the IP user
*
* \n \n
* Copyright 2014 Broadcom Corporation all rights reserved
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/soc/phy/chip/orca/eagle_orca_src/eagle_phy_1_interface.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vm.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/vm.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2uc.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* TR test for CAMBIST.
* The test has no CLI parameters. Simply call tr 505 from command line.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/cambist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200XbTstcntAddr.c,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200XbTstcntAddr.c,v 1.4 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm3200XbTstcntAddr.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gmodule.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/modules/include/gmodule.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: types.h,v 1.25 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     types.h
* Purpose:     SAL type definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/sal/types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaQsRateTableEntryConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsRateTableEntryConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gport_mgmt_sw_db.c,v 1.3 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/gport_mgmt_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_footer.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/DNX_SAND/Utils/include/dnx_sand_footer.h
*
* MODULE PREFIX:  DNX_SAND
*
* FILE DESCRIPTION:
```

```
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_footer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stack.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* QE2000 Stack API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1BEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1BEntry.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  File Name     :  merlin16_pll_config.c                                    *
*  Created On    :  14/07/2013                                               *
*  Created By    :  Kiran Divakar                                            *
*  Description   :  Merlin16 PLL Configuration API                           *
*  Revision      :   *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
```

```
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: interrupt_handler_cb_func.c,v 1.29 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    interrupt_handler_cb_func.c
* Purpose:    Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/interrupts/interrupt_handler_cb_func.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56860_a0.c
* Purpose:     bcm56860_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56860_a0.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $Id: c3_3x40g_3xhg42.h,v 1.1.18.1 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/caladan3/sws_configs/c3_3x40g_3xhg42.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txbeacon.c,v 1.25 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This program is the proprietary software of Broadcom Corporation
* and/or its licensors, and may only be used, duplicated, modified
* or distributed pursuant to the terms and conditions of a separate,
* written license agreement executed between you and Broadcom
* (an "Authorized License").  Except as set forth in an Authorized
* License, Broadcom grants no license (express or implied), right
* to use, or waiver of any kind with respect to the Software, and
* Broadcom expressly reserves all rights in and to the Software and
* all intellectual property rights therein.  IF YOU HAVE NO AUTHORIZED
* LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS SOFTWARE IN ANY WAY,
* AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE ALL USE
* OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1. This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use
* all reasonable efforts to protect the confidentiality thereof, and
* to use this information only in connection with your use of Broadcom
* integrated circuit products.
*
* 2. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES,
* REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY,
* OR OTHERWISE, WITH RESPECT TO THE SOFTWARE.  BROADCOM SPECIFICALLY
* DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF TITLE, MERCHANTABILITY,
* NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE, LACK OF VIRUSES,
* ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION OR
* CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING
```

```
* OUT OF USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL,
* INDIRECT, OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY
* RELATING TO YOUR USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF
* BROADCOM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; OR (ii)
* ANY AMOUNT IN EXCESS OF THE AMOUNT ACTUALLY PAID FOR THE SOFTWARE
* ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE LIMITATIONS SHALL
* APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED
* REMEDY.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/txbeacon.c
No license file was found, but licenses were detected in source scan.

```
/*----------------------------------------------------------------------
* $Id: temod_device.h,
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Broadcom Corporation
*  Proprietary and Confidential information
*  All rights reserved
*  This source file is the property of Broadcom Corporation, and
*  may not be copied or distributed in any isomorphic form without the
*  prior written consent of Broadcom Corporation.
*----------------------------------------------------------------------
*  Description: define enumerators
*----------------------------------------------------------------------*/
/*
* $Id: $
* $Copyright:
* All Rights Reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce/tier1/temod_device.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/tsce_dpll/tier1/temod_dpll_device.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin16_tx_analog_functions.c                                      *
```

```
*  Created On    :  04/07/2015                                          *
*  Created By    :  Kiran Divakar                                        *
*  Description   :  Functions to Configure Merlin16 TXFIR                        *
*  Revision      :  *
*                                                                 *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                  *
*  the written permission of:                                          *
*      Broadcom Corporation                                             *
*      5300 California Avenue                                           *
*      Irvine, CA  92617                                               *
*                                                                 *
*  All information contained in this document is Broadcom Corporation                  *
*  company private proprietary, and trade secret.                                *
*                                                                 *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_tx_analog_functions.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.89 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     Triumph L3 function implementations
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_multicast.h,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 MULTICAST H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_multicast.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cputrans.c,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cputrans.c
* Purpose:     TX and RX packet management routines
* Requires:    bcm_trans_ptr_t structure
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/cputrans.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: oam.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_oam_server.c
* Purpose: Example of using OAMP server
*
* Usage:
*
* cd
* cd ../../../../src/examples/dpp
* cint utility/cint_utils_global.c
* cint utility/cint_utils_oam.c
* cint cint_multi_device_utils.c
* cint cint_queue_tests.c
* cint cint_oam_server.c
*
* cint
* int client_unit=0, server_unit=1;
* print oamp_server_example(server_unit, client_unit, 200, 201, 200, 201);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_oam_server.c

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: aidmp.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Broadcom AMBA Interconnect definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/et/aidmp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_pack.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       llm_pack.h
* Purpose:    Interface to pack and unpack LLM messages.
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/llm_pack.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_line_dhrp.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_line_dhrp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Field Processor APIs
*
* Purpose:
```

```
*     'Field Processor' (FP) API for BCM88030 (SBX Caladan3 + Guadalupe-2000)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/field.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sysLib.c,v 1.25 2011/07/21 16:14:21 yshtil Exp $
   Copyright 2001, Broadcom Corporation
   All Rights Reserved.

   This is UNPUBLISHED PROPRIETARY SOURCE CODE of Broadcom Corporation;
   the contents of this file may not be disclosed to third parties, copied or
   duplicated in any form, in whole or in part, without the prior written
   permission of Broadcom Corporation.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/sysLib.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_match.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_port_match.c
* Purpose: Example of the port match application
*
*  The purpose of the port match application is to configure several mappings over the same gport.
*  It has two modes: ingress match and egress match.
*  Egress match allows you to set several <vlan_domain, vid> combinations on the same egress vlan port.
*  Ingress match allows you to set several <vlan_domain, vid> combinations on the same ingress vlan port.
*     * Ingress match is also divided into two modes: with initial match, and without initial match.
*        * With initial match means that bcm_vlan_port_create will also add the first <vlan_domain, vid> mapping
*        * Without initial match means that bcm_vlan_port_create will not add the first <vlan_domain, vid> mapping.
*           As a side effect, it will also not add the vlan translation configuration. The vlan will remain the same,
*           and the translation will need to be added manuall
*  The example supports also Asymmetric LIFs.
*     * Ingress match - No EVE operation is applied as the default EVE configuration during bcm_vlan_port_create
*       isn't applicable for an Ingress only LIF.
*     * Egress match - Both Ingress only and Egress only VLAN ports are created, and the matching for the
*       Egress ports is attached to the Egress only LIF. An additional Egress LIF is created in order to associate
*       physical ports using Port match and discard packets to the these ports. In this way, some of the ports
*       receive the packets with no VLAN edit, while packets to the other ports are dropped.
*
*
```

```
*  To run in ingress match mode:
*  BCM.0> cint ../../../../src/examples/dpp/utility/cint_utils_vlan.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_port_tpid.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_multi_device_utils.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_port_match.c
*  BCM.0> cint
*  cint> int sysport1, sysport2, sysport3;
*  cint> print port_to_system_port(<local unit for port 1>, <port1>, &sysport1);
*  cint> print port_to_system_port(<local unit for port 2>, <port2>, &sysport2);
*  cint> print port_to_system_port(<local unit for port 3>, <port3>, &sysport3);
*  cint> port_match_info_init_default(<sysport1>, <sysport2>, <sysport3>, -1);
*  cint> int nof_units = <nof_units>;
*  cint> int units[<nof_units>] = {<first_unit>, <second unit>...};
*  cint> print port_match_run_ingress_match(units, nof_units, <no-initial-match>, <is-asymmetric-lif>);
*
*  *Note - you can skip the port_to_system_port calls if you're running on single device
*
*  After this, the chip will be configured with the following <port, vid> -> <vid> matches:
*        <port1, 10>    ->   <20>
*        <port1, 30>    ->   <20>
*  * Note - when choosing no_initial_match != 0, vlan translation mapping will not work, only port mapping.
*  * Note 2 - This matching won't be applicable for Asymmetric LIFs as no default EVE oprtation is defined for the
LIF.
*
*  Port mapping will be by dst mac:
*     00:00:00:00:00:01   ->  port2
*     00:00:00:00:00:02   ->  port3
*
*
*  To test traffic:
*  * The received packet will have an identical VLAN if the CINT is ran without initial match or
*  * with Asymmetric LIFs
*  1) Send to port1:
*     An ethernet packet , dst mac 00:00:00:00:00:01, src mac any, vlan 10, tpid 8100
*     Get in port 2:
*     An ethernet packet, identical src mac and dst mac , vlan 20, tpid 8100
*
*  2) Send to port1:
*     An ethernet packet , dst mac 00:00:00:00:00:02, src mac any, vlan 10, tpid 8100
*     Get in port 3:
*     An ethernet packet, identical src mac and dst mac , vlan 20, tpid 8100
*
*  3) Send to port 1:
*     An ethernet packet, dst mac 00:00:00:00:00:01, src mac any, vlan 30, tpid 8100
*     Get in port 2:
*     An ethernet packet, identical src mac and dst mac , vlan 20, tpid 8100
*
```

```
*  4) Send to port 1:
*     An ethernet packet, dst mac 00:00:00:00:00:02, src mac any, vlan 30, tpid 8100
*     Get in port 3:
*     An ethernet packet, identical src mac and dst mac , vlan 20, tpid 8100
*
*  To run in egress match mode:
*  BCM.0> cint ../../../../src/examples/dpp/cint_port_tpid.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_advanced_vlan_translation_mode.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_multi_device_utils.c
*  BCM.0> cint ../../../../src/examples/dpp/cint_port_match.c
*  BCM.0> cint
*  cint> int sysport1, sysport2, sysport3, sysport4;
*  cint> print port_to_system_port(<local unit for port 1>, <port1>, &sysport1);
*  cint> print port_to_system_port(<local unit for port 2>, <port2>, &sysport2);
*  cint> print port_to_system_port(<local unit for port 3>, <port3>, &sysport3);
*  cint> print port_to_system_port(<local unit for port 4>, <port4>, &sysport4);
*  cint> port_match_info_init_default(<sysport1>, <sysport2>, <sysport3>, <sysport4>);
*  cint> int nof_units = <nof_units>;
*  cint> int units[<nof_units>] = {<first_unit>, <second unit>...};
*  cint> print port_match_run_egress_match(units, nof_units, <is-asymmetric-lif>);
*
*  *Note - you can skip the port_to_system_port calls if you're running on single device
*  *Note - on multi device systems, keep ports 2-4 (the egress ports) on the same device. That's because the if egress
vlan port is
*        created on a different unit than the port, the port will not be attached to it.
*
*  After this, the chip will be configured with the following <port, vid> -> <vid> matches:
*        <port1, 50>    ->   <40>
*  Note - This matching won't be applicable for Asymmetric LIFs as no default EVE operation is defined when the
*       match mode is NONE. More ever, packets for port 4 will be dropped.
*
*  Port mapping will be by dst mac:
*     00:00:00:00:00:01   ->  port2
*     00:00:00:00:00:02   ->  port3
*     00:00:00:00:00:03   ->  port4
*
*  To test traffic:
*  * The recieved packet will have an identical vlan if the cint is ran with Asymmetric LIFs
*  1) Send to port1:
*     An ethernet packet , dst mac 00:00:00:00:00:01, src mac any, vlan 50, tpid 8100
*     Get in port 2:
*     An ethernet packet, identical src mac and dst mac , vlan 40, tpid 8100
*
*  2) Send to port 1:
*     An ethernet packet, dst mac 00:00:00:00:00:02, src mac any, vlan 50, tpid 8100
*     Get in port 3:
*     An ethernet packet, identical src mac and dst mac , vlan 40, tpid 8100
*
```

```
*  2) Send to port 1:
*      An ethernet packet, dst mac 00:00:00:00:00:03, src mac any, vlan 50, tpid 8100
*      Get in port 4:
*      An ethernet packet, identical src mac and dst mac , vlan 40, tpid 8100
*
*
*  Notes:
*      * In both Ingress & Egress modes, after calling port_match_info_init_default, you can change the members of
the
*      port_match_info_1 struct if you want different mappings.
*      * This cint can work on multi device systems.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_match.c
No license file was found, but licenses were detected in source scan.

```
# $Id: 56825_setup.soc,v 1.4 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
#
# Connections:
#  +-------------+              +-------------+
#  | 56825   HG0 | <-----------> | HG0  Sirius |
#  |        HG1 | <-----------> | HG1         |
#  |        HG2 | <-----------> | HG2         |
#  |        HG3 | <-----------> | HG3         |
#  |           |             |            |
#  |           |             +-------------+
#  |           |             +-------------+
#  |        HG4 | <-----------> | HG0  Sirius |
#  |        HG5 | <-----------> | HG1         |
#  |        HG6 | <-----------> | HG2         |
#  |        HG7 | <-----------> | HG3         |
#  | XE0        |             |            |
#  +-------------+              +-------------+
#     ^
#     |
#     |
#  Packets
#
#
#  Description:  This script will configure a Scorpion320 (56825) to forward all
#                traffic to a Sirius FIC/TM.  Local switching is disabled and
#                all traffic will be forwarded to a HG trunk consisting of all
```

```
#           HiGig ports.
#           For the snake portion of the test, untagged traffic should
#           ingress on XE0 with MAC_DA=0x000000000002


# ******************************************************
# Perform a reset to bring the system to a known state
# ******************************************************
if !$?1 "rc" else "echo 'Bypassing rc.soc'"

# ****************
# Define the modid
# *****************
stkm m=28

# ***************************************************
# Make sure the HiGig ports are using HG2 protocol
# Also disable AN and set speed to 21G
# ***************************************************
port hg an=on
port hg speed=21000
port hg encap=higig2
#port hg0-hg3 an=off sp=21000
#linkscan off
#phy hg 0x1f 0x8300
#phy hg 0x18 0x601d
#delay 50000
#linkscan on

# *********************************
# Disable Pause frames on XE ports
# *********************************
m mac_rxctrl rxpausen=0
m mac_txctrl pauseen=0

# *********************************************************
# Disable Local Switching on XE ports and setup forwarding
# *********************************************************
m LOCAL_SW_DISABLE_CTRL.xe SW_MODE=1
#    Forward XE0 - XE1 to HG0
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe0-xe1 PORT_BITMAP=0x200
#    Forward XE2 - XE3 to HG1
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe2-xe3 PORT_BITMAP=0x400
#    Forward XE4 - XE5 to HG2
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe4-xe5 PORT_BITMAP=0x800
#    Forward XE6 - XE7 to HG3
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe6-xe7 PORT_BITMAP=0x1000
#    Forward XE8 - XE9 to HG4
```

```
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe8-xe9 PORT_BITMAP=0x2000
#     Forward XE10 - XE11 to HG5
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe10-xe11 PORT_BITMAP=0x4000
#     Forward XE12 - XE13 to HG6
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe12-xe13 PORT_BITMAP=0x8000
#     Forward XE14 - XE15 to HG7
m LOCAL_SW_DISABLE_DEFAULT_PBM.xe14-xe15 PORT_BITMAP=0x10000
#     Disable SRC_MODID check so that packets don't get dropped
mod PORT 9 8 ALLOW_SRC_MOD=1 REMOVE_HG_HDR_SRC_PORT=1
mod IPORT_TABLE 9 8 ALLOW_SRC_MOD=1 REMOVE_HG_HDR_SRC_PORT=1
mod LPORT 9 8 ALLOW_SRC_MOD=1 REMOVE_HG_HDR_SRC_PORT=1

# ***********************************************
# Create a trunk group using all of the HG ports
# ***********************************************
# mod PORT 9 8 HIGIG_TRUNK=1 HIGIG_TRUNK_ID=0
# mod IPORT_TABLE 9 8 HIGIG_TRUNK=1 HIGIG_TRUNK_ID=0
# mod LPORT 9 8 HIGIG_TRUNK=1 HIGIG_TRUNK_ID=0
# m HG_TRUNK_GROUP(0) HIGIG_TRUNK_PORT0=0x9 HIGIG_TRUNK_PORT1=0xa
HIGIG_TRUNK_PORT2=0xb HIGIG_TRUNK_PORT3=0xc HIGIG_TRUNK_PORT4=0xd
HIGIG_TRUNK_PORT5=0xe HIGIG_TRUNK_PORT6=0xf HIGIG_TRUNK_PORT7=0x10
HIGIG_TRUNK_RTAG=3 HIGIG_TRUNK_SIZE=8
# m HG_TRUNK_BITMAP(0) HIGIG_TRUNK_BITMAP=0x1fe00
# mod NONUCAST_TRUNK_BLOCK_MASK 0 2 BLOCK_MASK=0xfe00
# mod NONUCAST_TRUNK_BLOCK_MASK 2 2 BLOCK_MASK=0x17e00
# mod NONUCAST_TRUNK_BLOCK_MASK 4 2 BLOCK_MASK=0x1be00
# mod NONUCAST_TRUNK_BLOCK_MASK 6 2 BLOCK_MASK=0x1de00
# mod NONUCAST_TRUNK_BLOCK_MASK 8 2 BLOCK_MASK=0x1ce00
# mod NONUCAST_TRUNK_BLOCK_MASK 10 2 BLOCK_MASK=0x1f600
# mod NONUCAST_TRUNK_BLOCK_MASK 12 2 BLOCK_MASK=0x1fa00
# mod NONUCAST_TRUNK_BLOCK_MASK 14 2 BLOCK_MASK=0x1fc00
# mod NONUCAST_TRUNK_BLOCK_MASK 16 2 BLOCK_MASK=0xfe00
# mod NONUCAST_TRUNK_BLOCK_MASK 18 2 BLOCK_MASK=0x17e00
# mod NONUCAST_TRUNK_BLOCK_MASK 20 2 BLOCK_MASK=0x1be00
# mod NONUCAST_TRUNK_BLOCK_MASK 22 2 BLOCK_MASK=0x1de00
# mod NONUCAST_TRUNK_BLOCK_MASK 24 2 BLOCK_MASK=0x1ce00
# mod NONUCAST_TRUNK_BLOCK_MASK 26 2 BLOCK_MASK=0x1f600
# mod NONUCAST_TRUNK_BLOCK_MASK 28 2 BLOCK_MASK=0x1fa00
# mod NONUCAST_TRUNK_BLOCK_MASK 30 2 BLOCK_MASK=0x1fc00
# mod NONUCAST_TRUNK_BLOCK_MASK 32 2 BLOCK_MASK=0xfe00
# mod NONUCAST_TRUNK_BLOCK_MASK 34 2 BLOCK_MASK=0x17e00
# mod NONUCAST_TRUNK_BLOCK_MASK 36 2 BLOCK_MASK=0x1be00
# mod NONUCAST_TRUNK_BLOCK_MASK 38 2 BLOCK_MASK=0x1de00
# mod NONUCAST_TRUNK_BLOCK_MASK 40 2 BLOCK_MASK=0x1ce00
# mod NONUCAST_TRUNK_BLOCK_MASK 42 2 BLOCK_MASK=0x1f600
# mod NONUCAST_TRUNK_BLOCK_MASK 44 2 BLOCK_MASK=0x1fa00
# mod NONUCAST_TRUNK_BLOCK_MASK 46 2 BLOCK_MASK=0x1fc00
# mod NONUCAST_TRUNK_BLOCK_MASK 48 2 BLOCK_MASK=0xfe00
```

```
# mod NONUCAST_TRUNK_BLOCK_MASK 50 2 BLOCK_MASK=0x17e00
# mod NONUCAST_TRUNK_BLOCK_MASK 52 2 BLOCK_MASK=0x1be00
# mod NONUCAST_TRUNK_BLOCK_MASK 54 2 BLOCK_MASK=0x1de00
# mod NONUCAST_TRUNK_BLOCK_MASK 56 2 BLOCK_MASK=0x1ce00
# mod NONUCAST_TRUNK_BLOCK_MASK 58 2 BLOCK_MASK=0x1f600
# mod NONUCAST_TRUNK_BLOCK_MASK 60 2 BLOCK_MASK=0x1fa00
# mod NONUCAST_TRUNK_BLOCK_MASK 62 2 BLOCK_MASK=0x1fc00

# temporarily block non-unicast traffic from going to other HG ports
echo "Adding block masks for multicast traffic..."
m IBCAST_BLOCK_MASK.hg blk_bitmap=0x1fe00
m IUNKNOWN_UCAST_BLOCK_MASK.hg blk_bitmap=0x1fe00
m IUNKNOWN_MCAST_BLOCK_MASK.hg blk_bitmap=0x1fe00
m IKNOWN_MCAST_BLOCK_MASK.hg blk_bitmap=0x1fe00

# ****************
# Configure E2ECC
# ****************
#     Enable E2ECC Message generation
m E2E_HOL_EN EN=1
m XPORT_CONFIG E2E_HOL_EN=1
m OP_QUEUE_CONFIG Q_E2E_DS_ENABLE=1
m OP_THR_CONFIG EARLY_E2E_SELECT=1
#     Specify the port that E2ECC messages will be sent from (HG1,HG5)
m E2E_HOL_PBM PORT_BITMAP=0x4400
#     Specify message intervals during congestion
m E2E_MIN_TX_TIMER LG=0
m E2E_MIN_TX_TIMER TIMER=37
#     Specify regular message intervals
#     Note: Timer=0 does not disable, set to largest value instead
m E2E_MAX_TX_TIMER LG=1
m E2E_MAX_TX_TIMER TIMER=0x3ff
#     Enable receiving E2ECC messages
m IE2E_CONTROL HOL_ENABLE=1
m ING_CONFIG DISABLE_E2E_HOL_CHECK=0
#     Define E2ECC header (VLAN=3645)
m XHOL_MH0.hg MH_BYTES_0_3=0xfb110000
m XHOL_MH1.hg MH_BYTES_4_7=0x1c000000
m XHOL_MH2.hg MH_BYTES_8_11=0
m XHOL_MH3.hg MH_BYTES_12_15=0xe3d0200
#     Create a VLAN for E2ECC mesages
vlan create 3645 pbm=hg1
#     Define E2ECC MAC address and protocol
m XHOL_D0.hg DATA_BYTES_0_3=0x00101820
m XHOL_D1.hg DATA_BYTES_4_7=0x30010048
m XHOL_D2.hg DATA_BYTES_8_11=0x6f6c5341
m XHOL_D3.hg D_BYTES_12_15=0x20020220
#     Define E2ECC receive MAC address and protocol
```

```
m E2E_HOL_RX_DA_MS DA=0x3148
m E2E_HOL_RX_DA_LS DA=0x6f6c4441
m E2E_HOL_RX_LENGTH_TYPE LENGTH_TYPE=0x2002
m E2E_HOL_RX_OPCODE OPCODE=0x0220

# ***************
# Enable global congestion for QE interop
# ***************
s GLOBAL_SHARED_FILL_STATE_CONFIG 1

56825_mmu_settings.soc
mod modport_map 0 7424 HIGIG_PORT_BITMAP=0x1fe00

echo "Bypassing snake setup..."
exit

# ************************************
# Create a 16 port snake to generate BW
# ************************************
vlan remove 1 pbm=all
vlan add 1 pbm=xe0,xe1,hg ubm=xe0,xe1
vlan create 2 pbm=xe1,xe2,hg ubm=xe1,xe2
vlan create 3 pbm=xe2,xe3,hg ubm=xe2,xe3
vlan create 4 pbm=xe3,xe4,hg ubm=xe3,xe4
vlan create 5 pbm=xe4,xe5,hg ubm=xe4,xe5
vlan create 6 pbm=xe5,xe6,hg ubm=xe5,xe6
vlan create 7 pbm=xe6,xe7,hg ubm=xe6,xe7
vlan create 8 pbm=xe7,xe8,hg ubm=xe7,xe8
vlan create 9 pbm=xe8,xe9,hg ubm=xe8,xe9
vlan create 10 pbm=xe9,xe10,hg ubm=xe9,xe10
vlan create 11 pbm=xe10,xe11,hg ubm=xe10,xe11
vlan create 12 pbm=xe11,xe12,hg ubm=xe11,xe12
vlan create 13 pbm=xe12,xe13,hg ubm=xe12,xe13
vlan create 14 pbm=xe13,xe14,hg ubm=xe13,xe14
vlan create 15 pbm=xe14,xe15,hg ubm=xe14,xe15
vlan create 16 pbm=xe15,xe0,hg ubm=xe15,xe0

pvlan set xe0 1
pvlan set xe1 2
pvlan set xe2 3
pvlan set xe3 4
pvlan set xe4 5
pvlan set xe5 6
pvlan set xe6 7
pvlan set xe7 8
pvlan set xe8 9
pvlan set xe9 10
pvlan set xe10 11
```

```
pvlan set xe11 12
pvlan set xe12 13
pvlan set xe13 14
pvlan set xe14 15
pvlan set xe15 16

l2 add pbm=xe1 mac=0x2 v=1 module=28
l2 add pbm=xe2 mac=0x2 v=2 module=28
l2 add pbm=xe3 mac=0x2 v=3 module=28
l2 add pbm=xe4 mac=0x2 v=4 module=28
l2 add pbm=xe5 mac=0x2 v=5 module=28
l2 add pbm=xe6 mac=0x2 v=6 module=28
l2 add pbm=xe7 mac=0x2 v=7 module=28
l2 add pbm=xe8 mac=0x2 v=8 module=28
l2 add pbm=xe9 mac=0x2 v=9 module=28
l2 add pbm=xe10 mac=0x2 v=10 module=28
l2 add pbm=xe11 mac=0x2 v=11 module=28
l2 add pbm=xe12 mac=0x2 v=12 module=28
l2 add pbm=xe13 mac=0x2 v=13 module=28
l2 add pbm=xe14 mac=0x2 v=14 module=28
l2 add pbm=xe15 mac=0x2 v=15 module=28
l2 add pbm=xe0 mac=0x2 v=16 module=28

port xe1-xe15 lb=phy
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_fabric/56825_setup.soc
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88732_a0.c
* Purpose:    bcm88732_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88732_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dnxf_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DNXC WB
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_wb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashInputW0Console.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashInputW0Console.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_api_l3_src_bind.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_l3_src_bind.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/portmod_internal.h

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm12x10_internal.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x25_shared.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x25td_int.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm4x2p5_shared.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/dnx_fabric_shared.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/portmod/pm12x10_xgs_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: drc_combo28_cb.c,v 1.1.2.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/DRC/drc_combo28_cb.c
No license file was found, but licenses were detected in source scan.

```
$Id: README.txt,v 1.99 Broadcom SDK $
$Copyright: (c) 2016 Broadcom.
Broadcom Proprietary and Confidential. All rights reserved.$

~ Name:
+-----------------------+
|   Link Monitoring    |
+-----------------------+
~ Description:
  Example application to monitor the state of the links and to react to ports/links failure.

~ File Reference:
  cint_linkscan.c


~ Name:
+-------------------------+
|   Snake Application    |
+-------------------------+
~ Description:
  Setup that enables running 80G traffic, while only injecting 10G from the external traffic generator.
```

~ File Reference:
cint_snake.c

~ Name:
+----------+
| TM Application - Priority Over Port (Ardon) |
+----------+
~ Description:
Provides an example of building scheduling scheme for 'Priority Over Port' with 8 priorities.
This cint is directed towards systems with reduced resources (Ardon).
Also includes examples for: Adding ports, MC, ISQ, CGM and other configurations.

~ File Reference:
cint_tm_prio_o_port_reduce_resources.c

~ Name:
+----------+
| Multicast Options |
+----------+
~ Description:
Broadcom devices support a variety of multicast options, with different scheduling options.

~ File Reference:
cint_multicast_applications.c

~ Name:
+----------+
| Port-Level Scheduled Multicast |
+----------+
~ Description:
Configuration results in a fully scheduled MC scheme. Its drawback is that it consumes a lot of resources.

~ File Reference:
cint_multicast_application_port_lvl_example.c
cint_multicast_application_port_lvl_example_multi_device.c

~ Name:
+----------+
| Device-Level Scheduled Multicast |
+----------+
~ Description:
Configuration results in a partially scheduled MC scheme. It consumes relatively few resources.
It is a viable compromise between port-level scheduled MC and Fabric MC.

~ File Reference:
cint_multicast_application_device_lvl_example.c
cint_multicast_application_device_lvl_example_multi_device.c

~ Name:
+-----------------------+
| Fabric Multicast |
+-----------------------+
~ Description:
Configuration results in unscheduled MC scheme. This configuration provides no end-to-end scheduling by the Credit Scheduler.
Ingress scheduling is based on the ingress queue.

~ File Reference:
cint_fabric_mc_credit_elements.c
cint_enhance_application_fap.c

~ Name:
+-----------------------------+
| Arad Special Multicast |
+-----------------------------+
~ Description:
An example of port level multicast configuration.

~ File Reference:
cint_multicast_special_egress_mode.c

~ Name:
+------------+
| CosQ |
+------------+
~ Description:
Examples of traffic-management applications.

~ File Reference:

~ Name:
+--------------------+
| QoS Utilites |
+--------------------+
~ Description:
QoS module utils.

~ File Reference:

cint_utils_qos.c

~ Name:
+----------+
| Egress Transmit |
+----------+
~ Description:
Covers simple egress transmit scheduling setup and the setup of egress thresholds.

~ File Reference:
cint_egress_transmit_scheduler.c
cint_egress_threshold.c

~ Name:
+----------+
| E2E Scheduling |
+----------+
~ Description:
Covers the E2E hierarchy setup. Examples are given for the hookup of different element types.

~ File Reference:
- General: cint_tm_fap_with_id.c
- SP and Ingress Shapping Validation: cint_tm_fap_config2.c
- WFQ Validation: cint_e2e_wfq.c
- Composite SE Validation: cint_e2e_composite_se.c
- Composite Connector Validation: cint_e2e_composite_connectors.c
- Dual Shaper Validation: cint_e2e_dual_shaper.c
- Interdigitated mode Validateion: cint_e2e_interdigitated.c
cint_tm_fap.c
cint_tm_fap_2_devices.c
cint_tm_fap_config_large_scheduling_scheme.c

~ Name:
+----------+
| Flow Control 1 |
+----------+
~ Description:
Covers configurations for different FC options. Each function configures a specific option (such as PFC Reception).

~ File Reference:
- Calendar interfaces: cint_fc_arad.c
- Reception examples: cint_fc_rx.c
- Generation examples: cint_fc_tx.c
- OOB examples: cint_arad_fc_oob_config_example.c
cint_jer_fc_oob_config_example.c

- Inband examples: cint_arad_fc_inbnd_config_example.c
  cint_jer_fc_ilkn_inb_config_example.c
  cint_jer_fc_trigger_config_example.c
- PFC Reception mapping examples: cint_arad_pfc_reception_mapping.c
- COE examples: cint_jer_fc_coe_config_example.c

~ Name:
```
+----------------------+
|   Flow Control 2    |
+----------------------+
```
~ Description:
An example of how to configure flow control for specific VSQs (LLFC and PFCl).

~ File Reference:
cint_vsq_fc_examples.c

~ Name:
```
+-----------------------------+
|   Ingress Queue Manager    |
+-----------------------------+
```
~ Description:
Covers configurations such as setting queue maximum size, WRED application, and Incoming TC mapping.

~ File Reference:
cint_itm_examples.c

~ Name:
```
+----------------------+
|   VOQ Attributes    |
+----------------------+
```
~ Description:
Various functions for testing Arad VOQ attributes.

~ File Reference:
cint_queue_tests.c

~ Name:
```
+------------------+
|   System RED    |
+------------------+
```
~ Description:
An example of setting System RED configuration.

~ File Reference:

cint_system_red.c

~ Name:
+-----------------------------------+
| Unicast Flow-based Forwarding |
+-----------------------------------+
~ Description:
Unicast Flow-based Forwarding includes a TM hierarchy scheduling example and a PP application associating destination to TM-flow ID.

~ File Reference:
cint_pp_config2.c, cint_tm_fap_config2.c

~ Name:
+----------------------+
| VSQ Applications |
+----------------------+
~ Description:
Examples for VSQ applications.

~ File Reference:

~ Name:
+-----------------------+
| Global Thresholds |
+-----------------------+
~ Description:
Global VSQ holds counters on available resources per resource type. This is useful to trigger DP-dependent drop decisions and flow control.

~ File Reference:
cint_vsq_example.c
cint_vsq_tc_examples.c
cint_vsq_gl_example.c

~ Name:
+-----------------------+
| VSQ Traffic Class |
+-----------------------+
~ Description:
The focus of the cint is to show how to enable a tail drop and WRED settings using this property.

~ File Reference:
cint_vsq_tc_examples.c

~ Name:
+----------+
| VSQ Resource Allocation |
+----------+
~ Description:
An example of how to configure global and per VSQ resource allocation.

~ File Reference:
cint_vsq_resource_allocation.c

~ Name:
+----------+
| OTN/TDM Applications |
+----------+
~ Description:
Examples of OTN/TDM applications including TDM standard, TDM optimize, and TDM packet mode.
Packet mode is often used when expected TDM traffic consists of packet sizes that are higher than 256.

~ File Reference:
cint_tdm_example.c
cint_tdm_packet_mode_example.c

~ Name:
+----------+
| Bridge |
+----------+
~ Description:
Enable activating the BCM88650 (Arad) in various modes: IPv4/6 Bridge Router, VPLS LER, MPLS LSR, etc. Relevant to PP users.

~ File Reference:

~ Name:
+----------+
| Traditional Bridge 1 |
+----------+
~ Description:
After the boot up, the device acts as a traditional bridge.
By this setting, you can switch packets from one port to another by means of the Ethernet header. This also enables users to define VLANs.

~ File Reference:
- Vlan bridge: cint_vlan_basic_bridge.c

- Mact Management: cint_l2_mact.c
- L2 Cache: cint_l2_cache.c
- Port TPID: cint_port_tpid.c
- Spanning-Tree Groups: cint_stg.c
- VLAN Port gport membership: cint_vlan_gport_add.c
- Utility function for MACT configuration: cint_mact.c

~ Name:

```
+----------------------------+
|   Traditional Bridge 2    |
+----------------------------+
```

~ Description:

Examples of L2 QoS.

~ File Reference:

cint_qos_l2.c

~ Name:

```
+--------------------+
|   Metro Bridge    |
+--------------------+
```

~ Description:

This application enables you to define an L2VPN service.
In VPN, you can create a Virtual Switch Instance (VSI/VPN) and connect logical ports to it.

~ File Reference:

- P2P Service: cint_vswitch_metro_p2p.c
  cint_vswitch_metro_p2p_multi_device.c
- VPLS QoS P2P Service: Example of Settings QoS in VPLS application
  cint_qos_vpls.c
- Multipoint Metro Service:
  cint_vswitch_metro_mp.c - Supports multi device. Please note that some function signatures might have changed.
- Multipoint VPLS Service: cint_vswitch_vpls.c
  Simple example of Metro scheme: cint_vswitch_metro_simple.c

~ Name:

```
+-----------------------------------+
|   Bridge Flooding VLAN Setting    |
+-----------------------------------+
```

~ Description:

Examples for bridge(VLAN/VSI/VPN) flooding VLAN settings.
Demonstrate how to separately set unknown unicast groups, unknow multicast groups and broadcast groups of a Virtual Switch Instance (VLAN/VSI/VPN).

~ File Reference:

cint_vlan_control_config.c

~ Name:
+----------+
| Bridge Router |
+----------+
~ Description:
This application enables you to define L3 routers. You can also define IP Unicast Routing, IP Multicast Routing and MPLS LSR.

~ File Reference:
- L3 Routing Examples: cint_ipv4_fap.c
  cint_ip_route_tunnel.c
- IPMC Examples: cint_ipmc_example.c
  cint_ipmc_example_multi_device.c
- MPLS LSR: cint_mpls_lsr.c
  cint_mpls_tunnel_initiator.c
  cint_mpls_mc.c
- ARP request/reply trapping: cint_arp_traps.c

~ Name:
+----------+
| IP Unicast Routing |
+----------+
~ Description:
An example of IPv4 unicast router. Demonstrates how to:
- Open the router interface
- Create egress objects
- Add route and host entries
- Add host entries while saving FEC entries
- Set VRF default destination

~ File Reference:
cint_ip_route.c

~ Name:
+----------+
| IP Unicast Routing Explicit RIF |
+----------+
~ Description:
An example of IPv4 routing over 802.1q where the VSI/RIF is explicitly supplied by the user and not determined by the incoming VLAN value.
The examples include:
- LIF Creation with an explicit VSI
- RIF Creation according to <port, VLAN>

- Egress VLAN edit configuration

~ File Reference:
src/examples/dpp/cint_ip_route_explicit_rif.c
src/examples/dpp/utility/cint_utils_global.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_l3.c
src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/utility/cint_utils_vlan.c

~ Name:
```
+----------------------+
|   IP Unicast RPF    |
+----------------------+
```
~ Description:
An example of IPv4 unicast RPF check. Demonstrates how to:
- Set loose and strict RPF mode
- Configure the RPF traps to drop or trap packet

~ File Reference:
cint_ip_route_rpf.c

~ Name:
```
+--------------------+
|   IP Multicast    |
+--------------------+
```
~ Description:
An example of configuring ingress and egress for IP multicast, adding IPv4 and IPv6 MC entries and traversing IPMC table.

~ File Reference:
cint_ipmc.c

~ Name:
```
+------------------------+
|   IP Multicast RPF    |
+------------------------+
```
~ Description:
An Example of IPv4 Multicast RPF check. Demonstrates how to set PF mode: SIP, explicit and none per egress object.

~ File Reference:
cint_ipmc_example_rpf.c

~ Name:
+----------+
| IP Multicast BIDIR |
+----------+
~ Description:
An example of IPv4 Multicast with BIDIR. Demonstrates mapping IP group to BIDIR and forwarding packets according to <VRF,Group> with admission test.

~ File Reference:
cint_ipmc_bidir.c

~ Name:
+----------+
| IP Multicast Flows |
+----------+
~ Description:
Example of the various IPMC flows. Each flow is exemplified with its unique configuration and an exemplary packet flow.

~ File Reference:
cint_ipmc_flows.c

~ Name:
+----------+
| IPv6 |
+----------+
~ Description:
An example of IPv6 unicast and multicast routing.

~ File Reference:
cint_ipv6_fap.c

~ Name:
+----------+
| IP Routing Enablers |
+----------+
~ Description:
Tests the routing enablers feature by using all the possible resources of the routing enablers.
This test combines IPV4 UC (with and without RPF/VPN), IPV6 UC (with and without RPF), IP V4 MC (bridge and route) and IPV6 (bridge and route).

~ File Reference:
cint_enablers.c

~ Name:
+----------+
| ARP Traps |
+----------+
~ Description:
An example of Trapping ARP packets to CPU.

~ File Reference:
cint_arp_traps.c

~ Name:
+----------+
| Trap Setting |
+----------+
~ Description:
Demonstrates how to configure trap and snoop according to trap code.

~ File Reference:
cint_trap_mgmt.c
cint_egr_mtu.c

~ Name:
+----------+
| ECMP |
+----------+
~ Description:
An example of multipath routing.

~ File Reference:
cint_l3_multipath.c

~ Name:
+----------+
| EVPN |
+----------+
~ Description:
Example of an EVPN application.

~ File Reference:
cint_evpn.c
cint_field_evpn.c

~ Name:
+----------+

```
|   MPLS LSR QoS   |
+--------------------+
~ Description:
  Example of MPLS QoS.

~ File Reference:
  cint_qos.c, cint_qos_elsr.c


~ Name:
+----------------------+
|   Fiber Channel   |
+----------------------+
~ Description:
  Example of FCoE. Demonstrates forwarding FCoE packet according to fiber headers. Includes zoning check.

~ File Reference:
  cint_fcoe_route.c


~ Name:
+-----------------+
|   MPLS ELSP   |
+-----------------+
~ Description:
  Example of MPLS ELSP.

~ File Reference:
  cint_qos_elsr.c, cint_mpls_elsp.c


~ Name:
+-------------------------------------+
|   MPLS/EXP Marking for Bridging   |
+-------------------------------------+
~ Description:
  Example of marking MPLS/EXP values when the packet is bridged (not routed).
  (BCM88660 Only)

~ File Reference:
  cint_qos_marking.c


~ Name:
+----------------------+
|   MPLS Utilities   |
+----------------------+
~ Description:
```

Utility functions for MPLS applications.

~ File Reference:
cint_utils_mpls.c

~ Name:
+----------+
| VPLS Utilities |
+----------+
~ Description:
Utility functions for VPLS applications.

~ File Reference:
cint_utils_mpls_port.c

~ Name:
+----------+
| OAM Utilities |
+----------+
~ Description:
Utility functions for OAM applications.

~ File Reference:
cint_utils_oam.c

~ Name:
+----------+
| Multicast Utilities |
+----------+
~ Description:
Utility functions for multicast applications.

~ File Reference:
cint_utils_multicast.c

~ Name:
+----------+
| Field Processor Utilities |
+----------+
~ Description:
Utility functions for field processor applications.

~ File Reference:
cint_utils_field.c

~ Name:
+----------+
| Field Processor Egress TC DP QoS actions |
+----------+
~ Description:
  Field Processor Egress TC DP QoS actions configuration

~ File Reference:
  cint_field_egr_action_dp_tc_qos.c

~ Name:
+----------+
| Field Processor Program Selection Mpls any label and L2/L3 |
+----------+
~ Description:
  Field Processor Program Selection Preselector for header format, MPLS any label any L2/L3

~ File Reference:
  cint_field_mpls_x_presel.c

~ Name:
+----------+
| L3 Routing |
+----------+
~ Description:
  Example of L3 QoS.

~ File Reference:
  cint_qos_l3.c

~ Name:
+----------+
| FCoE |
+----------+
~ Description:
  Example of FCoE FCF (routing according to FC header).
  - Open router interface
  - Create egress object
  - Add several routes and zoning rules

~ File Reference:
  cint_foce_route.c

~ Name:

```
+---------------------+
|   Termination 1   |
+---------------------+
```

~ Description:

Example of MyMac termination, where MyMac is set based on VRID.

The cint demonstrates the different VRID-My-MAC-Modes.

~ File Reference:

cint_l3_vrrp.c

cint_ip_route.c

~ Name:

```
+---------------------+
|   Termination 2   |
+---------------------+
```

~ Description:

Example of flexiable multiple MyMac termination.

Available in BCM88660 only.

~ File Reference:

cint_multiple_mymac_term.c

~ Name:

```
+-----------------------------------+
|   Ring Protection Fast Flush   |
+-----------------------------------+
```

~ Description:

Example of L2 Ring Protection setup and Fast Flush operations. Based on a vswitch setup.

Includes failover group creation, gport association and removing the association to and from a group and Fast Flush execution.

~ File Reference:

cint_l2_fast_flush.c

cint_port_tpid.c

cint_l2_mact.c

cint_multi_device_utils.c

cint_vswitch_metro_mp.c

~ Name:

```
+------------------+
|   Port Match   |
+------------------+
```

~ Description:

Configure several ingress/egress mappings over the same gport.

Also demonstrates usage of asymmetric ingress-only and egress-only LIFs.

~ File Reference:
cint_port_match.c

~ Name:
+----------+
| Port Filtering |
+----------+
~ Description:
Configure egress acceptable frames both for ERPP and ETPP discard.

~ File Reference:
cint_egress_acceptable_frame_type.c

~ Name:
+----------+
| Field Processor 1 |
+----------+
~ Description:
Examples related to ACL/PCL functionality. Relevant for PP users.

~ File Reference:
cint_fid_demo.c

~ Name:
+----------+
| Field Processor 2 |
+----------+
~ Description:
Add bcmFieldActionStat and bcmFieldActionRedirect for egress ACE table with per-core config params.

~ File Reference:
cint_field_action_config.c

~ Name:
+----------+
| Field Processor 3 |
+----------+
~ Description:
For MPLS-forwarded packets, in case of MPLS pop, modify the identification of the upper-layer protocol.

~ File Reference:
cint_field_change_upper_layer_protocol_for_pop_mpls.c

~ Name:
+----------+
| Field Processor 4 |
+----------+
~ Description:
  For IP-routed packets, map the PCP to the DSCP.

~ File Reference:
  cint_field_copy_pcp_to_dscp_for_ip_packets.c

~ Name:
+----------+
| Field Processor 5 |
+----------+
~ Description:
  Perform static forwarding at egress and associate each port to a count.

~ File Reference:
  cint_field_egress_modify_tc_per_port.c

~ Name:
+----------+
| Field Processor 6 |
+----------+
~ Description:
  Perform exhaustive test case field configurations.

~ File Reference:
  cint_field_exhaustive.c

~ Name:
+----------+
| Field Processor 7 |
+----------+
~ Description:
  Correct the learn information in VxLAN and NVGRE application.

~ File Reference:
  cint_field_gre_learn_data_rebuild.c

~ Name:
+----------+
| Field Processor 8 |

+----------+
~ Description:
Usage of Key-A with single bank database.

~ File Reference:
cint_field_key_a.c

~ Name:
+----------+
| Field Processor 9 |
+----------+
~ Description:
Correct the learn information in MAC-in-MAC application. Used in case of Egress-PBB MAC-in-MAC termination.

~ File Reference:
cint_field_mim_learn_info_set.c

~ Name:
+----------+
| Field Processor 10 |
+----------+
~ Description:
Mirror ARP reply packets to local Port 0 (in general CPU).

~ File Reference:
cint_field_mirror_arp_reply_frame.c

~ Name:
+----------+
| Field Processor 11 |
+----------+
~ Description:
Map the forwarding label EXP + RIF.CoS-Profile to TC and DP.

~ File Reference:
cint_field_mpls_lsr_copy_exp_to_tc_dp.c

~ Name:
+----------+
| Field Processor 12 |
+----------+
~ Description:
Modify the PCP value according to the destination-MAC after a VLAN translation, for outer-tag packets.

~ File Reference:
cint_field_modify_pcp_per_da_after_vlan_translation.c

~ Name:
+----------+
| Field Processor 13 |
+----------+
~ Description:
Redirect traffic according to L2 / L3 header.

~ File Reference:
cint_field_policer_redirect_per_l2_l3_addresses.c

~ Name:
+----------+
| Field Processor 14 |
+----------+
~ Description:
Accept/drop IP-routed packets according to source and destination L4 port ranges.

~ File Reference:
cint_field_range_multi_demo.c

~ Name:
+----------+
| Field Processor 15 |
+----------+
~ Description:
Accept/drop IP-routed packets according to packet length ranges.

~ File Reference:
cint_field_range_pktlen_demo.c

~ Name:
+----------+
| Field Processor 16 |
+----------+
~ Description:
Snoop IP-routed packets.

~ File Reference:
cint_field_snoop_tc_change_ip_routed_frame.c

~ Name:
+-----------------------------------+
| Field Processor: Presel Stage |
+-----------------------------------+
~ Description:
  Example of advanced pre-selection with explicit stage.

~ File Reference:
  cint_field_presel_create_stage_id.c

~ Name:
+-------------------------+
| Field Processor 17 |
+-------------------------+
~ Description:
  Example of pre-selection use with in/out-port as a qualifier.

~ File Reference:
  cint_field_presel_in_out_ports.c

~ Name:
+-------------------------+
| Field Processor 18 |
+-------------------------+
~ Description:
   Example of how to use presel management advanced mode

~ File Reference:
  cint_field_presel_mgmt_advanced_mode.c

~ Name:
+-------------------------+
| Field Processor 19 |
+-------------------------+
~ Description:
  For TM packets, extract the LAG load-balancing key after the ITMH and move the desired number of bytes (set per packet).

~ File Reference:
  cint_field_tm_copy_lag_lb_key_after_itmh.c

~ Name:
+-------------------------+

```
|    Field Processor 20    |
+--------------------------+
```

~ Description:

For TM packets, extract the scheduler-compensation value after the ITMH, and add padding after ITMH according to the compensation value.

~ File Reference:

cint_field_tm_scheduler_compensation.c

~ Name:

```
+--------------------------+
|    Field Processor 21    |
+--------------------------+
```

~ Description:

An example of the use of direct table for cascaded lookup.

~ File Reference:

cint_field_mact_llid_limit.c

~ Name:

```
+--------------------------+
|    Field Processor 22    |
+--------------------------+
```

~ Description:

Rebuild the learn-data with the current source-system-port and current InLIF

~ File Reference:

cint_field_learn_data_rebuild.c

~ Name:

```
+--------------------------+
|    Field Processor 23    |
+--------------------------+
```

~ Description:

Configure ingress field processor to add learn extension to PPH and verify it is being added to the packet in the egress.

~ File Reference:

cint_field_learn_extension.c

~ Name:

```
+--------------------------+
|    Field Processor 24    |
+--------------------------+
```

~ Description:
If the forwarding-header-offset is over 32 Bytes, remove up to 14 Bytes after Ethernet header.
This rule is a walk-around due to the limited capacities of the egress stage to terminate large termination headers.

~ File Reference:
cint_field_ingress_large_termination.c

~ Name:
+----------+
| Field Processor 25 |
+----------+
~ Description:
According to the packet format unless simple bridged, set the rules to extract the ECN value (2 bits), and set:
- If the ECN is supported (ECN-capable)
- In this case, if the packet is congested (CNI bit)

~ File Reference:
cint_field_ecn_cni_extract.c

~ Name:
+----------+
| Field Processor 26 |
+----------+
~ Description:
According to the packet format, if packet ID IPv4 and ECN is supported, enable DM ECN according to a given threshold.

~ File Reference:
cint_field_ecn_dm.c

~ Name:
+----------+
| Field Processor 27 |
+----------+
~ Description:
Create direct extraction field-group with action as counter 0 that returns the value of the InLIF.

~ File Reference:
cint_field_dir_ext_counter_inlif.c

~ Name:
+----------+
| Field Processor 28 |
+----------+

~ Description:
Create different field groups for fiber channel applications.

~ File Reference:
cint_field_fiber_channel.c

~ Name:
+----------+
| Field Processor 29 |
+----------+
~ Description:
Create field groups for IP multicast bidirectional applications.

~ File Reference:
cint_field_ipmc_bidir.c

~ Name:
+----------+
| Field Processor 30 |
+----------+
~ Description:
Create field groups for VPLS over GRE work-around.

~ File Reference:
cint_field_vpls_gre_wa.c

~ Name:
+----------+
| Field Processor 31 |
+----------+
~ Description:
Create field entries to copy I-SID to system headers when working with 32K I-SIDs.

~ File Reference:
cint_field_mim_32k_isids.c

~ Name:
+----------+
| Field Processor 32 |
+----------+
~ Description:
Create an ELK ACL based on 5-tuples ACL keys for all IPv4 unicast packets and use the external lookup results as Meter-ID if matched.

~ File Reference:
cint_field_elk_acl_5_tuples_ip4_uc.c

~ Name:
+----------+
| Field Processor 33 |
+----------+
~ Description:
Create field group for VxLAN if there is no hit during SIP or VNI mapping lookups.

~ File Reference:
cint_field_vxlan_lookup_unfound.c

~ Name:
+----------+
| Field Processor Data Qualifier |
+----------+
~ Description:
Create a data qualifier using base bcmFieldQualifyEthernetData

~ File Reference:
cint_field_data_qualifier.c

~ Name:
+----------+
| Field Processor 34 |
+----------+
~ Description:
Create a field group that drops all packets with static SA, but without a match for destination (transplant).

~ File Reference:
cint_field_drop_static_sa_transplant.c

~ Name:
+----------+
| Field Processor 35 |
+----------+
~ Description:
Create two field groups, using a flag indicating these databases should be compared with each other.
Use compare result in the second field group action (Direct Extraction).

~ File Reference:
cint_field_dir_ext_compare_result.c.c

~ Name:
+----------+
| Field Processor 36 |
+----------+
~ Description:
Create 5-tuples field groups that classify frame with 5-tuples parameters (SIP,DIP, IP protocol, L4 Src and DST ports) to InLIF.

~ File Reference:
cint_field_flexible_qinq_example.c

~ Name:
+----------+
| Field Processor 37 |
+----------+
~ Description:
Explain the sequence to enable IPv6 extension header parsing and demonstrate the use in field processor.

~ File Reference:
cint_field_ipv6_extension_header.c
~ Name:
+----------+
| Field Processor 38 |
+----------+
~ Description:
Use SoC property pmf_vsi_profile_full_range enabling PMF to use 4 bits of VSI profile (L2CP traps diUse SoC property pmf_vsi_profile_full_range enabling PMF to use 4 bits of VSI profile (L2CP traps disabled).

~ File Reference:
cint_field_qual_vsi_profile_full_range.c

~ Name:
+----------+
| Field Processor 39 |
+----------+
~ Description:
Create an FG and in_rif_profile=1. Action drop for matching packet.

~ File Reference:
cint_field_qualify_IncomingIpIfClass.c

~ Name:
+----------+
| Field Processor 40 |

```
+---------------------------+
~ Description:
   Accept/drop L2 packets according to OUTLIF (=vport) ranges on Ingress (pre selector).

~ File Reference:
   cint_field_range_vport_demo.c

~ Name:
+-----------------------------+
|    PMF KAPS direct table    |
+-----------------------------+
~ Description:
 Create a direct table FG to locate in KAPS.

~ File Reference:
 cint_field_kaps.c


~ Name:
+----------------------------------------+
|    Field remove directExtraction Entry |
+----------------------------------------+
~ Description:
 Example of a sequence of install-remove-reinstall direct extraction entry in Field Processor

~ File Reference:
 cint_field_remove_directExtractEntry.c

~ Name:
+---------------------------+
|    Field Small Banks      |
+---------------------------+
~ Description:
   Create a field group in the TCAM small banks with a key limit of 320b.

~ File Reference:
   cint_field_small_banks.c

~ Name:
+---------------------------+
|    VLAN Translation 1     |
+---------------------------+
~ Description:
   Set the default VLAN action, and the VLAN action after ingress and egress lookup. Relevant for PP users.

~ File Reference:
   cint_fap_vlan_translation.c
```

~ Name:
+----------+
| VLAN Translation 2 |
+----------+
~ Description:
  Examples of using VLAN translation actions in the translation new mode (VLAN translation new mode is set when SoC property bcm886xx_vlan_translate_mode is enabled).
 Relevant for PP users.
  1. Transparent TPID in ingress/egress vlan editing
  2. Default translation actions in ingress/egress

~ File Reference:
  cint_advanced_vlan_translation_mode.c

~ Name:
+----------+
| VLAN Translation 3 |
+----------+
~ Description:
  Examples of using advanced VLAN translation with trill.

~ File Reference:
  cint_trill.c
  cint_trill_advanced_vlan_translation_mode.c

~ Name:
+----------+
| VLAN Translation 4 |
+----------+
~ Description:
  Examples of setting a port default VLAN translation to advanced mode.

~ File Reference:
 src/examples/dpp/cint_vlan_edit_port_default_lif.c

~ Name:
+----------+
| MACT Learning 1 |
+----------+
~ Description:
  Example of different learning modes and message types.
  Relevant for PP users.

~ File Reference:

cint_l2_learning.c
cint_l2_learning_multi_device.c
- Right now used only to support cint_vswitch_metro_mp.c. Not yet ready to be used on its own.

~ Name:
+----------+
| MACT Learning 2 |
+----------+
~ Description:
An example of learning. Demonstrate how to control the learning message per vlan, send CPU or to OLP (for automatic learning)

~ File Reference:
cint_l2_vlan_learning.c

~ Name:
+----------+
| Learn Event Parsing |
+----------+
~ Description:
- Manually construct DSP packets according to predefined parameters
- Transmit packet and save LEM Payload
- Read entry from LEM, add via BCM API
- Save LEM Payload and compare to previous entry

~ File Reference:
cint_l2_learn_event_parsing.c

~ Name:
+----------+
| MACT Bulk Operations |
+----------+
~ Description:
- Dump/traverse MACT table according to group (user defined value)
- Perform several rules in one hardware traverse
- Traverse rule includes masking on VLAN, gport, etc.

~ File Reference:
cint_mact_bulk_operations.c

~ Name:
+----------+
| CPU Shadow |
+----------+

~ Description:
An example of sending MACT events to CPU.

~ File Reference:
cint_l2_cpu_learning.c

~ Name:
+----------+
| SA Drop |
+----------+
~ Description:
An example of dropping Packets according to SA.

~ File Reference:
cint_l2_mact_sa_discard.c

~ Name:
+----------+
| Warmboot |
+----------+
~ Description:
Save and restore SW databases.

~ File Reference:
cint_warmboot_utilities.c

~ Name:
+----------+
| Trill |
+----------+
~ Description:
Trill UC/MC scenarios.

~ File Reference:
- Petra-B trill unicast: cint_trill_uni_petrab.c
- Petra-B trill ingress multicast: cint_trill_mc_ing_petrab.c
- Petra-B trill transit multicast: cint_trill_mc_transit_petrab.c
- Petra-B trill egress multicast: cint_trill_mc_egr_petrab.c
- ARAD (UC+MC in the same CINT): cint_trill.c
- ARAD PP example for trill to pass (In transit, snoop a copy to recycle port): cint_pmf_trill_2pass_snoop.c
- ARAD+ trill multi homing: cint_trill_multi_homing.c
- ARAD (UC+MC transparent service in the same CINT): cint_trill_tts.c

~ Name:
+----------+

```
|   Internal Ports (OLP/RCY)   |
+--------------------------------+
~ Description:
  Examples for retrieving and configuring internal ports (OLP / Recycling).

~ File Reference:
  cint_internal_ports.c


~ Name:
+----------------+
|   Mirror 1   |
+----------------+
~ Description:
  Examples of Mirror tests and usage.

~ File Reference:
  cint_mirror_tests.c


~ Name:
+----------------+
|   Mirror 2   |
+----------------+
~ Description:
  An example of mirror packet according to port x VLAN, with inbound/outbound mirroring. where the mirror packet:
  - Is SPAN mirrored
  - Includes RSPAN encapsulation
  - Includes ERPSAN encapsulation

~ File Reference:
  cint_mirror_erspan.c


~ Name:
+----------------+
|   Mirror 3   |
+----------------+
~ Description:
  An example of mirror packet according to port x VLAN, with inbound/outbound mirroring. The example is only used in Petra-B.

~ File Reference:
  cint_petra_mirror_tests.c


~ Name:
```

```
+----------------+
|   Mirror 4   |
+----------------+
```

~ Description:
An example of mirror packet according to port/port x VLAN, with inbound/outbound mirroring.

~ File Reference:
cint_old_mirror_tests.c

~ Name:

```
+--------------------+
|   Trap\Snoop 1   |
+--------------------+
```

~ Description:
Example of setting a trap type code and a snoop command.

~ File Reference:
cint_rx_trap_fap.c

~ Name:

```
+--------------------+
|   Trap\Snoop 2   |
+--------------------+
```

~ Description:
Example of setting an egress trap type unknown DA / unknown MC / BC

~ File Reference:
cint_port_eg_filter_example.c

~ Name:

```
+--------------------+
|   Trap\Snoop 3   |
+--------------------+
```

~ Description:
General trap utilities

~ File Reference:
cint_utils_rx.c

~ Name:

```
+--------------------+
|   Trap\Snoop 4   |
+--------------------+
```

~ Description:

Example of configuring MTU filter per LIF in egress.

~ File Reference:
cint_etpp_lif_mtu.c

~ Name:
+----------+
| Trap/Snoop 5 |
+----------+
~ Description:
Configure destination per core for ingress traps.

~ File Reference:
cint_config_dest_per_core.c

~ Name:
+----------+
| Trap\Snoop 6 |
+----------+
~ Description:
Example of configuring MTU filter trap in egress, can be mirrored/forward/dropped

~ File Reference:
cint_etpp_mtu.c

~ Name:
+----------+
| Trap\Snoop 7 |
+----------+
~ Description:
Example of configuring MTU filter per RIF in egress.

~ File Reference:
cint_etpp_rif_mtu.c

~ Name:
+----------+
| Switch |
+----------+
~ Description:
General switch utilities.

~ File Reference:
cint_utils_switch.c

~ Name:
+----------+
| Stacking |
+----------+
~ Description:
A setup that configures a stacking state.
Example: in cint_stk_mc_dyn_3tmd.c - the application should run on 3 connected Arads.
A stacking system is created where each Arad is a TM domain, with a multicast group that passes through this system.

~ File Reference:
cint_stk_uc.c
cint_stk_uc_dyn.c
cint_stk_uc_dyn_3tmd.c
cint_stk_mc.c

~ Section:
+----------+
| Tunneling |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| IPV4 Tunneling |
+----------+
~ Description:
An example of IPv4 packet forwarding into IPv4 tunnel with/without GRE encapsulation.

~ File Reference:
cint_ip_tunnel.c

~ Name:
+----------+
| IPV4 Tunnel Termination |
+----------+
~ Description:
An example of IPv4 tunnel termination and forwarding according to internal IPv4 header. Demonstrates how to:
- Create tunnel terminator
- Associate packet to VRF according to terminated tunnel.
- Route according to VRF

~ File Reference:
cint_ip_tunnel_term.c

~ Name:
+----------+
| IPv6 Tunneling |
+----------+
~ Description:
An example of IPv4 packet forwarding into an IPv6 tunnel.

~ File Reference:
cint_ipv6_tunnel.c

~ Name:
+----------+
| IPV6 Tunnel Termination |
+----------+
~ Description:
An example of IPv6 tunnel termination and forwarding according to internal IPv4 header.

~ File Reference:
cint_ipv6_tunnel_term.c

~ Name:
+----------+
| L2Gre |
+----------+
~ Description:
An example of an L2Gre application.

~ File Reference:
cint_l2gre.c

~ Name:
+----------+
| VPLSoGRE |
+----------+
~ Description:
An example of VPLSoGRE using recycle.

~ File Reference:
cint_vswitch_vpls_gre.c

~ Name:
+----------+
| VxLAN |
+----------+
~ Description:
An example of VXLAN application.

~ File Reference:
cint_vxlan.c
cint_utils_vxlan.c

~ Name:
+----------+
| SA Authentication |
+----------+
~ Description:
An example of an SA authentication application.

~ File Reference:
cint_l2_auth.c

~ Section:
+----------+
| Mac-in-Mac |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| MP |
+----------+
~ Description:
An example of Mac-in-Mac MP. Demonstrates the following:
- Creating B-VID and VSI
- Creating a Mac-in-Mac (backbone) port
- Setting B-tag TPID
- Creating a customer (access) port
- Differential flooding for packets arriving from Mac-in-Mac (backbone) ports and from customer (access) ports
- Bridging between 2 Mac-in-Mac (backbone) ports
- Setting MyB-Mac for termination and encapsulation
- Setting drop-and-continue to pass functionality for I-SID broadcast
- setting IPv4/6 UC ROO MIM
- setting IPv4 MC ROO MIM

~ File Reference:
cint_mim_mp.c
cint_pmf_2pass_snoop.c
src/examples/dpp/cint_mim_mp_roo.c

~ Name:
+----------+
| P2P 1 |
+----------+
~ Description:
An example of Mac-in-Mac P2P. Demonstrates the following:
- Creating B-VID
- Creating a Mac-in-Mac (backbone) port
- Setting B-tag TPID
- Creating a customer (access) port
- Cross-connecting a Mac-in-Mac (backbone) port and a customer (access) port

~ File Reference:
src/examples/dpp/cint_mim_p2p.c
src/examples/dpp/cint_mim_mp.c

~ Name:
+----------+
| P2P 2 |
+----------+
~ Description:
An example of P2P. Demonstrates cross-connecting between:
- 2 VLAN ports
- 2 Mac-in-Mac (backbone) ports
- MPLS port and VLAN port
- MPLS port and Mac-in-Mac (backbone) port
- VLAN port and Mac-in-Mac (backbone) port
Cross-connections can also be performed with facility/path protection.

~ File Reference:
src/examples/dpp/cint_mpls_lsr.c
src/examples/dpp/cint_vswitch_cross_connect_p2p.c
src/examples/dpp/cint_vswitch_cross_connect_p2p_multi_device.c
- can be used to cross connect two or more devices
src/examples/dpp/cint_vswitch_cross_connect_p2p_directional.c
- used for directional cross connect PWE to AC

~ Section:
+----------+

```
|    QoS    |
+-----------+
~ Description:

~ File Reference:


~ Name:
+--------------+
|    L3 QoS    |
+--------------+
~ Description:
   An example of L3 quality of service. Demonstrates the following:
   - Creating ingress router interface, associated with in-RIF QoS-profile-ID
   - Ingress packet DSCP mapping to in-DSCP
   - In-DSCP mapping to TC+DP
   - Creating egress router interface, associated with out-RIF QoS-profile-ID
   - Egress in-DSCP+DP mapping to out-DSCP

~ File Reference:
   src/examples/dpp/cint_qos_l3_rif_cos.c
   src/examples/dpp/cint_ip_route.c


~ Section:
+---------------+
|    Policer    |
+---------------+
~ Description:

~ File Reference:


~ Name:
+----------------+
|    Metering    |
+----------------+
~ Description:
   An example of the different metering modes. Demonstrates the following:
   - Creating several meter entries, in different modes
   - Getting each entry, to see the rates and bursts that were set in HW
   - Mapping packets to meter and testing the configured rate with traffic
   - Testing packets arriving with green or yellow color
   - Mapping two meters per-packet
   - Destroying the meters

~ File Reference:
   src/examples/dpp/cint_policer_metering_example.c
```

~ Name:
+----------+
| QoS Policer Mapping |
+----------+
~ Description:
An example of mapping drop procedure to PCP-DEI. Demonstrates the following:
- Creating QoS map, mapping the colors green and yellow to PCP-DEI of outer tag or inner tag
- Mapping packets to meters and test packets color
- Testing outer tag or inner tag PCP-DEI of packets colored green or yellow
- Destroying QoS map

~ File Reference:
src/examples/dpp/cint_qos_policer.c

~ Section:
+----------+
| Rate |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| Ethernet Policer |
+----------+
~ Description:
An example of configuring Ethernet policer. Demonstrates the following:
- Configuring different rates and burst sizes for each traffic type (UC, unknown UC, MC, unknown MC and BC).
- Getting each entry, to see the rates and bursts that were actually set in HW
- Testing the configured rates with traffic
- Destroying the Ethernet policer configuration

~ File Reference:
src/examples/dpp/cint_rate_policer_example.c

~ Name:
+----------+
| Counter Engine |
+----------+
~ Description:
An example of counting all the ingress/egress VOQ counters. Demonstrates the following:
- Setting the counter engines to count in high resolution per VOQ

- Getting all the possible counters (according to the Color and Drop / Forward) per VOQ
- Mapping a LIF stack range

~ File Reference:
src/examples/dpp/cint_voq_count.c
src/examples/dpp/cint_ctrp_egress_received_tm.c
src/examples/dpp/cint_counter_processor.c

~ Name:
+----------+
| Flexible Hashing |
+----------+
~ Description:
An example of flexible hashing.
Flexible hashing utilizes the key construction of stateful load balancing without learning or looking up the keys.
Once a key has been constructed in the SLB, it may be copied to the 80 msbs of one (or more) of the PMF keys in the 2nd cycle.

~ File Reference:
src/examples/dpp/cint_flexible_hashing.c

~ Section:
+----------+
| ECMP |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| ECMP Hashing |
+----------+
~ Description:
An example of creating an ECMP, mapping IPv4 host and MPLS LSR to this ECMP and showing how ECMP hashing is done according to different parts of the header.
Demonstrates the following:
- Creating an ECMP containing several FEC entries, each pointing to the same encapsulation with a different out-port
- Adding an IPv4 host and mapping it to this ECMP
- Adding an MPLS LSR entry and mapping the label to this ECMP
- Configuring the ECMP hashing: Disabling the hashing; setting the hashing according to a certain part of the header
- Testing with traffic and seeing how the hashing configuration affects the traffic distribution

~ File Reference:
src/examples/dpp/cint_ecmp_hashing.c

~ Section:
+----------+
| LAG |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| LAG Hashing |
+----------+
~ Description:
An example of creating a trunk (LAG), mapping IPv4 host and MPLS LSR to this LAG and showing how LAG hashing is done according to different parts of the header.
Demonstrates the following:
- Creating a LAG and add several ports to it
- Adding an IPv4 host and mapping it to this LAG
- Adding an MPLS LSR entry and mapping the label to this LAG
- Configuring the LAG hashing: Disabling the hashing;
setting the hashing according to a certain part of the header and setting the number of headers to look at the starting header
- Testing with traffic and seeing how the hashing configuration affects the traffic distribution

~ File Reference:
src/examples/dpp/cint_lag_hashing.c

~ Section:
+----------+
| PON |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| PON Application |
+----------+
~ Description:
An example of PON application for bringing up three main PON service categories: 1:1 Model, N:1 Model and

TLS.
Demonstrates the following:
- Setting ports as NNI ports and PON ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as a 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_application.c

~ Name:
```
+-----------------------------------------------+
|   PON TUNNEL_ID to Channel Profile Mapping    |
+-----------------------------------------------+
```
~ Description:
An example of how to map tunnel_ID to PP port of PON application and set different properties (VTT lookup mode and VLAN range) per LLID profile.
Demonstrates the following:
- Setting ports as NNI ports and PON ports
- Creating PON PP ports with different PON tunnel profile IDs
- Mapping different tunnel IDs to PON PP ports
- Enabling different port tunnel lookups in PON PP ports
- Adding different VLAN range info to PON PP ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Setting NNI LIF ingress VLAN editor to replace ctag or both stag and ctag
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as a 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_tunnel_mapping.c

~ Name:
```
+----------------------+
|   PON VLAN Range     |
+----------------------+
```
~ Description:
An example of how to match incoming VLAN using VLAN range of PON application.
Demonstrates the following:

- Setting ports as NNI ports and PON ports
- Adding different VLAN range info to PON ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Setting NNI LIF ingress VLAN editor to replace ctag or both stag and ctag
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as a 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_vlan_range.c

~ Name:
+-----------+
| PON Tunnel Profile Properties |
+-----------+
~ Description:
An example of how to map tunnel_ID to PP port of PON application and set different properties (VTT lookup mode, VLAN range and frame acceptable mode) per LLID profile.
Demonstrates the following:
- Setting ports as NNI ports and PON ports
- Creating PON PP ports with different PON tunnel profile IDs
- Mapping different tunnel IDs to PON PP ports
- Enabling different port tunnel lookup in PON PP ports
- Adding different VLAN range info to PON PP ports
- Setting different frame acceptable mode to PON PP ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Setting NNI LIF ingress VLAN editor to replace ctag or both stag and ctag
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as a 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_tunnel_profile.c

~ Name:
+----------+
| PON VMAC |
+----------+
~ Description:
An example of how to use BCM APIs to setup VMAC function.

Demonstrate the following:
- Setting ports as NNI ports and PON ports
- Enabling VMAC and setting VMAC encoding value and mask
- Setting field_class_id_size
- Disabling ARP (next hop mac extension) feature
- Setting a PP model for PON application
- Enabling VMAC per AC
- Updating user-headers by PMF

~ File Reference:
src/examples/dpp/pon/cint_pon_vmac.c
src/examples/dpp/pon/cint_pon_field_vmac.c

~ Name:
```
+------------------------+
|   PON up Rate Limit   |
+------------------------+
```
~ Description:
An example of two level rate limits based on upstream.
First level rate limit is performed per outer VLAN within LLID.
Second level rate limit is performed per LLID.
Demonstrate the following:
- Creating the second level policer in group = 1
- Creating PMF entries to qualify LLID and outer VLAN
- Creating the first level policer in group = 0
- Attaching the first level policer to the PMF entry
- Attaching the second level policer to the PMF entry
- Installing PMF entries

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_up_ratelimit.c

~ Name:
```
+--------------------+
|   PON IPv4 ACL    |
+--------------------+
```
~ Description:
Examples of IPv4 classification and ACLs.
IPv4 classification based on IPv4, DA, IP and IPv4 DA IP + L4 destination port. Classification means mapping traffic to a new queue and new COS.
ACLs drop packets based on DA, SA, VLAN, IPPROTOCOL, SIP, L4SrcPort, L4DstPort.
Demonstrates the following:
- Creating IPv4 classification PMF entries to qualify LLID, DA, SIP and other properties of IPv4
- Setting PMF entry actions to modify outer priority and internal priority

- Installing PMF entries
- Creating ACL PMF entries to qualify LLID, DA, SIP and other properties of IPv4
- Setting PMF entry actions to drop
- Installing PMF entries

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_up_scheduler.c
src/examples/dpp/pon/cint_pon_ipv4_acl.c

~ Name:
```
+--------------------+
|   PON IPv6 ACL    |
+--------------------+
```
~ Description:
Examples of IPv6 classification and ACLs.
IPv6 classification based on IPv6, SIP and DIP. Classification means mapping traffic to a new queue and new COS.
ACLs drop packets based on DA, SA, VLAN, IPPROTOCOL, SIP, L4SrcPort, L4DstPort.
Demonstrate the following:
- Creating IPv6 classification PMF entries to qualify LLID, SIP and DIP of IPv6
- Setting PMF entry actions to modify outer priority and internal priority
- Installing PMF entries
- Creating ACL PMF entries to qualify LLID, DA, SIP and other properties of IPv6
- Setting PMF entries action to drop
- Installing PMF entries

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_up_scheduler.c
src/examples/dpp/pon/cint_pon_ipv6_acl.c

~ Name:
```
+----------------------------+
|   PON Channelized Ports    |
+----------------------------+
```
~ Description:
An example of the PON channelized port application and how to set different properties (VTT lookup mode and VLAN range) per LLID profile based on channelized port.
Demonstrate the following:
- Setting ports as NNI ports and channelized PON ports
- Creating PON PP ports with different PON tunnel profile IDs
- Mapping different tunnel IDs to PON PP ports
- Enabling different port tunnel lookups in PON PP ports

- Adding different VLAN range info to PON PP ports
- Setting different frame acceptable mode to PON PP ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Setting NNI LIF ingress VLAN editor to replace ctag or both stag and ctag
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_channelized_port.c

~ Name:
```
+----------------------------+
|   PON Additional TPIDs    |
+----------------------------+
```
~ Description:
An example of how to use additional TPID for NNI port of PON application.
Demonstrate the following:
- Setting ports as NNI ports and PON ports.
- Adding additional TPIDs.
- Creating PON PP ports with different PON tunnel profile IDs
- Mapping different tunnel IDs to PON PP ports
- Enabling different port tunnel lookups in PON PP ports
- Adding different TPIDs to PON PP ports
- Creating PON LIFs to match Tunnel_ID and VLAN tags
- Setting PON LIF ingress VLAN editor to perform upstream VLAN translation
- Setting PON LIF egress VLAN editor to perform downstream VLAN translation
- Creating NNI LIFs to match port VLAN domain and VLAN tags
- Setting NNI LIF ingress VLAN editor to replace ctag or both stag and ctag
- Adding PON LIFs and NNI LIFs to vswitch or cross connecting two of them as 1:1 service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_additional_tpids.c

~ Name:
```
+----------------------------+
|   PON Routing Over AC    |
+----------------------------+
```
~ Description:
An example of how to perform setup route over AC function in PON application downstream.
Demonstrate the following:

- Setting ports as NNI ports and PON ports
- Setting normal L3 application
- Creating PON LIF and NNI LIF
- Adding a route in L3 host table
- Setting PON LIF egress VLAN editor to add tunnel ID and outer VID
- Setting PMF rules to extract ARP to OutLIF

~ File Reference:
src/examples/dpp/utility/cint_utils_global.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_l3.c
src/examples/dpp/utility/cint_utils_vlan.c
src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_route_over_ac.c
src/examples/dpp/pon/cint_pon_field_router_over_ac.c

~ Name:
```
+------------------+
|   CMIC RCPU    |
+------------------+
```
~ Description:
An example of using RCPU.
- An example of system configuration
- Packet flow
- Packet format

~ File Reference:
src/examples/dpp/cint_cmic_rcpu.c

~ Name:
```
+---------------+
|   CPU RX    |
+---------------+
```
~ Description:
An example of CPU RX packets receive configuration.
- With and without COS use
- Starting RX
- Configuring different RX ports
- Configuring COS to different RX ports
- configuring appropriate callbacks to different RX ports

~ File Reference:
src/examples/dpp/cint_rx_cos.c
src/examples/dpp/cint_rx_no_cos.c

~ Name:
+----------+
| Trunk 1 |
+----------+
~ Description:
Example of trunk manipulation.
- Creating trunk
- Adding and removing ports to or from trunk
- Removing all ports from trunk
- Removing a trunk

~ File Reference:
src/examples/dpp/cint_trunk.c

~ Name:
+----------+
| Trunk 2 |
+----------+
~ Description:
This cint emulates the trunk (LAG) member and FEC resolution process performed by the BCM88650 (Arad) device.

~ File Reference:
cint_trunk_ecmp_lb_key_and_member_retrieve.c

~ Name:
+----------+
| ARAD Scheduling Scheme |
+----------+
~ Description:
Building a BCM88650 (Arad) scheduling scheme in 8 priorities mode.

~ File Reference:
cint_tm_fap_multi_devices_8_priorities_example.c

~ Name:
+----------+
| Congestion Notification (CNM) |
+----------+
~ Description:
Configuration of the CNM mechanism.
- Enabling/Disabling the CNM mechanism
- Setting the managed queues range

- Enabling/Disabling a managed queue
- Configuring the congestion test parameters
- Configuring the transport attributes of the CNM packets

~ File Reference:
cint_cnm.c

~ Name:
+----------+
| Multi Device Cints |
+----------+
~ Description:
Those cints are the same as the regular cints in terms of device configurations, but the configurations are done on multiple devices.
There are two differences between calling multi device cints and calling regular cints:
* Instead of accepting unit as parameter, the run functions accepts an array of units as a first argument, and the number of units as a second argument. Every unit should appear only once in the array.
* Instead of accepting port number as an argument, all multi device cints require a system port number. To obtain the system port number, you can use port_to_system_port in cint_multi_device_utils.c

~ File Reference:
cint_multi_device_utils.c
cint_vswitch_cross_connect_p2p_multi_device.c
cint_vswitch_metro_mp.c
cint_mpls_lsr.c
cint_ip_route.c
cint_ip_route_tunnel.c
cint_ip_route_tunnel_remark.c

~ Name:
+----------+
| MAC Limiting per Tunnel ID 1 |
+----------+
~ Description:
Example of MAC limiting base Tunnel ID.
- Set MAC limiting mode by SoC property
- Create PON application service
- Set MAC limiting base tunnel ID

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_mact_limit.c

~ Name:

```
+-------------------------------------+
|   MAC Limiting per Tunnel ID 1    |
+-------------------------------------+
~ Description:
  An example of the use of direct table for cascaded lookup in order to drop packets when MAC limiting is reached.

~ File Reference:
  src/examples/dpp/pon/cint_pon_field_mact_llid_limit.c


~ Name:
+-----------------------+
|   Port VLAN Range    |
+-----------------------+
~ Description:
  An example of how to match incoming VLAN using VLAN range of BCM88X4X (Petra) and BCM88650 (Arad).
  Demonstrates the following:
  - Adding a different VLAN range info to ports
  - Creating LIFs
  - Cross connect the 2 LIFs

~ File Reference:
  src/examples/dpp/cint_port_tpid.c
  src/examples/dpp/cint_port_vlan_range.c


~ Name:
+------------------------------+
|   Anti Spoofing Function    |
+------------------------------+
~ Description:
  An example of how to use BCM APIs to implement the anti-spoofing (L3 Source Binding) function in PON
application service.
   - Setting a PON application configuration and L3 source bind mode by SoC property
   - Enabling a PON application service
   - Setting L3 source binding configuration
   - Enabling FP to drop unmatched traffic

~ File Reference:
  src/examples/dpp/cint_port_tpid.c
  src/examples/dpp/pon/cint_pon_utils.c
  src/examples/dpp/pon/cint_pon_anti_spoofing.c


~ Name:
+--------------------------------------+
|   General Anti Spoofing Function    |
+--------------------------------------+
```

~ Description:
An example of how to use BCM APIs to implement general anti-spoofing (host & subnet anti-spoofing) function in a PON application service.
- Setting a PON application configuration and L3 source bind mode by SoC property
- Enabling a PON application service
- Setting L3 source binding configuration
- Enabling FP to drop unmatched traffic

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_general_anti_spoofing.c

~ Name:
```
+------------------------------+
|   L2 Management Function    |
+------------------------------+
```
~ Description:
An example of how to use BCM APIs to implement L2 management function in a PON application service.
- Setting a PON application configuration
- Implementing L2 management function
  Adding a L2 entry
  Getting a L2 entry
  Deleting a L2 entry
  Deleting L2 entries by port
  Deleting dynamic L2 entries by port
  Deleting static L2 entries by port
  Getting the number of L2 entries by port
  Getting the number dynamic L2 entries by port
  Getting the number static L2 entries by port

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_mac_management.c

~ Name:
```
+---------------------------+
|   COS Remark Function    |
+---------------------------+
```
~ Description:
An example of how to use BCM APIs to implement COS remark function in a PON application service.
- Setting a PON application configuration
- Enabling a PON application service
- Setting COS remark configuration

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_cos_remark.c

~ Name:
+----------+
| Multicast function |
+----------+
~ Description:
An example of how to use BCM APIs to implement the multicast function in a PON application service.
- Setting a PON application configuration
- Enabling a PON application service
- Creating a multicast group
- Joining a port group
- Leaving a port group

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_multicast.c

~ Name:
+----------+
| Downstream Rate Limit Function |
+----------+
~ Description:
An example of how to use BCM APIs to implement the downstream rate limit function in a PON application service.
- Creating a scheduler
- Creating a VOQ connector
- Creating a VOQ
- Setting a PON application configuration
- Enabling a PON application service

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_dn_ratelimit.c

~ Name:
+----------+
| Downstream Rate Limit and PFC RX Function |
+----------+
~ Description:

An example of how to use BCM APIs to implement downstream rate limit function and configure PFC RX processing for 10G and 1G channels in a PON application service.

- Creating a scheduler
- Creating a VOQ connector
- Creating a VOQ
- Setting a PON application configuration
- Enabling a PON application service
- Setting a PON QoS mapping
- Enable PFC reception on a PON port

~ File Reference:

src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_dn_ratelimit_dml.c
src/examples/dpp/pon/cint_pon_pfc_inbnd_receive.c
src/examples/dpp/pon/cint_pon_cos_remark_llid_dml.c

~ Name:

```
+-----------------------------------+
|   Upstream Scheduler Function    |
+-----------------------------------+
```

~ Description:

An example of how to use BCM APIs to implement upstream scheduler function in a PON application service.

- Creating a SP/WRR/SP+WRR scheduler
- Creating a VOQ connector
- Creating a VOQ
- Setting a PON application configuration
- Enabling a PON application service

~ File Reference:

src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_up_scheduler.c

~ Name:

```
+------------------------------+
|   CPU RX and TX Function    |
+------------------------------+
```

~ Description:

An example of how to use BCM APIs to implement CPU RX and TX functions in PON application service.

- Setting a PON application configuration
- Enabling a PON application service
- RX PPPOE by PMF
- RX DHCP/IGMP/MLD by switch port control
- TX packet on port
- TX packet on lag.

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_cpu_rx_tx.c

~ Name:
+----------+
| MAC Move per Port |
+----------+
~ Description:
An example of MAC move base PON or NNI port.
- Setting a MAC limiting mode using SoC properties
- Creating a PON application service
- Setting a MAC limiting base tunnel ID
- Setting a MAC move base PON or NNI port

~ File Reference:
src/examples/dpp/cint_port_tpid.c
src/examples/dpp/pon/cint_pon_utils.c
src/examples/dpp/pon/cint_pon_mact_move.c

~ Name:
+----------+
| Forward Group AC |
+----------+
~ Description:
An example of using forward group AC and PMF for DPoE IP-HSD application
- Setting a PON application configuration
- Setting a PON DPoE IP-HSD application service
- Setting FG to update L2 lookup results with service flows in downstream

~ File Reference:
src/examples/dpp/pon/cint_pon_dml_fec_app.c

~ Name:
+----------+
| OAM Ethernet |
----------+
~ Description:
An example of Ethernet OAM.
- Creating groups
- Creating local and remote MEPs
- Getting and deleting endpoints and groups
- Injecting packets

- Registrating events

~ File Reference:
src/examples/dpp/cint_oam.c

~ Name:
+----------+
| OAM Over LAG |
+----------+
~ Description:
An example of creating Ethernet OAM over LAG.
- Creating a lag
- Creating Ethernet port over the lag
- Creating OAM group
- Creating MEP
- Adding all lag ports to the MEP

~ File Reference:
src/examples/dpp/cint_oam_endpoint_over_lag.c

~ Name:
+----------+
| OAM Acceleration Advanced Features |
+----------+
~ Description:
An example of Ethernet OAM with additional functionalities available in BCM88660 (Arad+).
- Creating groups
- Creating local (accelerated) and remote MEPs
- Creating additional LM/DM entries per accelerated endpoint
- Creating global loopback entry and loopback entries per accelerated endpoint

~ File Reference:
src/examples/dpp/cint_oam_acceleration_advanced_features.c

~ Name:
+----------+
| OAM Over Ethernet Over PWE over Ethernet |
+----------+
~ Description:
An example configuration for OAMoEthernetoPWEoEth. Includes P2P and P2MP.
- Creating VPLS with default values
- Adding vswitch cross connect (if P2P has been selected)
- Creating OAM group, OAM endpoint

~ File Reference:

src/examples/dpp/cint_oam_cfm_o_eth_o_pwe_o_eth.c

~ Name:
+----------+
| OAM Endpoint Connected to VPLS Tunnel |
+----------+
~ Description:
An example of creating Ethernet OAM endpoint connected to VPLS tunnel.
- Creating LSP for cross connected ports
- Creating a PW port
- Creating an OAM group; OAM endpoint

~ File Reference:
src/examples/dpp/cint_oam_up_mep_over_vpls.c

~ Name:
+----------+
| BFD |
+----------+
~ Description:
An example of BFD.
- Creating IPV4 endpoint
- Creating MPLS endpoint
- Creating PWE endpoint
- Destroying endpoints
- Registrating events

~ File Reference:
src/examples/dpp/cint_bfd.c

~ Name:
+----------+
| BFD IPv6 |
+----------+
~ Description:
An example of BFD:
- Creating IPv6 endpoint
- Getting IPv6 endpoint
- Destroying endpoints
- Trapping BFD IPv6 PMF
- Sending BFD IPv6 traffic

~ File Reference:
src/examples/dpp/cint_bfd_ipv6.c
src/examples/dpp/cint_bfd_ipv6_max_sessions.c

~ Name:
+----------+
| BFD Over LAG |
+----------+
~ Description:
 An example of BFD over LAG:
  - Creating LAG across multiple devices.
  - Creating BFD endpoints on server and client sides

~ File Reference:
 src/examples/dpp/cint_bfd_over_lag.c

~ Name:
+----------+
| OAM Y1731 over tunnel |
+----------+
~ Description:
 An example of Y1731 OAM over MPLS-TP, PWE.
  - Configuring MPLS-TP/PWE tunnel
  - Creating groups
  - Creating local and remote MEPs
  - Injecting packets
  - Registrating events

~ File Reference:
 src/examples/dpp/cint_oam_y1731_over_tunnel.c

~ Name:
+----------+
| OAM MIM |
+----------+
~ Description:
 An example of OAM MIM.
  - Creating group
  - Creating local MIM endpoint

~ File Reference:
 src/examples/dpp/cint_oam_mim.c

~ Name:
+----------+
| Reflector (RFC-2544 - benchmarking methodology) |
+----------+

~ Description:
An example of using reflector u-code functionality.
Setting up an egress field processor rule that modifies out TM ports for all traffic arriving on a given port.

~ File Reference:
src/examples/dpp/cint_benchmarking_methodology.c

~ Section:
+----------+
| ECN |
+----------+
~ Description:

~ File Reference:

~ Name:
+----------+
| ECN PP |
+----------+
~ Description:
An example of ECN marking during forwarding and encapsulation. Demonstrates the following:
- Enabling ECN on the device
- Setting extraction of ECN (capable and congestion bits)
- Configuring congestion for every packet that is sent to out_port.
- Configuring MPLS encapsulation and egress remark profile mapping of {in-DSCP,DP}, to out-DSCP
- Testing with traffic and seeing how ECN marking appears in forwarding and encapsulation

~ File Reference:
src/examples/dpp/cint_ecn_example.c

~ Name:
+----------+
| 1588 |
+----------+
~ Description:
An examples of 1588 (Precision Time Protocol).
- Enabling/disabling 1588 one/two step Transparent clock (TC) per port
- Trap/drop/snoop/forward control over 1588 message types per port

~ File Reference:
src/examples/dpp/cint_1588.c

~ Name:
+----------+

```
|    Time    |
+------------+
~ Description:
 An examples of the BroadSync API.
  - BroadSync ToD capture.
  - Time interface traverse/delete/heartbeat_enable_get

~ File Reference:
  src/examples/dpp/cint_time.c


~ Name:
+------------+
|    EVB    |
+------------+
~ Description:
 Examples of EVB (Edge Virtual Bridging).
 Edge virtual bridge (defined in 802.1Qbg) describes device and protocols connecting between end stations (VMs) and the data centers network.

~ File Reference:
 src/examples/dpp/cint_evb_example.c


~ Name:
+-------------------------+
|    XGS MAC Extender    |
+-------------------------+
~ Description:
 Examples of XGS MAC extender mappings.
 In this system BCM88650 (Arad) is in device mode PP and connected to several XGS devices usually as 1G Port extender.
 The cint provides an example of setting for BCM88650 (Arad).

~ File Reference:
 src/examples/dpp/cint_xgs_mac_extender_mappings.c


~ Name:
+--------------------+
|    Initial VID    |
+--------------------+
~ Description:
 Examples of initial-VID.
  - By default, BCM API differs between tagged packets and untagged packets.
  - The cint introduces a per port decision whether to act as default or use initial VID with no difference between untagged packets and tagged packets.
    Databases used in this case match MATCH_PORT_VLAN and MATCH_PORT_VLAN_VLAN (no use for
```

MATCH_PORT_INITIAL_VLAN).

~ File Reference:
src/examples/dpp/cint_vlan_port_initial_vid.c

~ Name:
+----------+
| Local Route |
+----------+
~ Description:
Examples of local route.
- Supporting the local route on PON port means PON upstream traffic can go back to other PONs
- Supporting the local route based on VSI
- Supporting the local route split-horizon filter

~ File Reference:
src/examples/dpp/pon/cint_pon_local_route.c

~ Name:
+----------+
| System Vswitch Resources |
+----------+
~ Description:
An example of system resources in local mode.
- All CINTs assume global resources for LIF and L2 FEC
- The CINTs provide an example of how to allocate in local mode
- Provided examples: VLAN-Port, MPLS-Port

~ File Reference:
src/examples/dpp/cint_system_vswitch.c
src/examples/dpp/cint_system_vswitch_vpls.c

~ Name:
+----------+
| Stateful Load balancing |
+----------+
~ Description:
An example of stateful load balancing configuration.

~ File Reference:
src/examples/dpp/cint_stateful_load_balancing.c

~ Name:
+----------+

```
|    IGMP    |
+------------+
~ Description:
 An example of IGMP application,
  - IGMP packet snooping
  - IGMP multicast

~ File Reference:
 cint_igmp_example.c


~ Name:
+--------------------+
|    GALoPWEoLSP    |
+--------------------+
~ Description:
 An example of setup for supporting GALoPWEoLSP packets trapping.
 The packets are trapped with MplsUnexpectedNoBos.
 The PWE LIF appears in the PPH header.

~ File Reference:
 cint_gal_o_pwe_o_mpls.c
 cint_field_pwe_gal_lif_update.c


~ Name:
+-----------------------------------+
|    Compensation  Configuration    |
+-----------------------------------+
~ Description:
 Configuring compensation example both for ingress and egress.

~ File Reference:
 cint_compensation_setting.c


~ Name:
+--------------------+
|    L2 Traverse    |
+--------------------+
~ Description:
 An example of L2 traverse.
   - Traverse all entries in the L2 table using bcm_l2_traverse
   - Traverse matching entries in the L2 table in the L2 table by bcm_l2_matched_traverse
   - Traverse matching entries with flexible mask in the l2 table in the l2 table by bcm_l2_match_masked_traverse.

~ File Reference:
   src/examples/dpp/cint_l2_traverse.c
```

~ Name:
+----------+
| Routing Over VXLAN |
+----------+
~ Description:
  An example of routing over VXLAN UC and MC.

~ File Reference:
  cint_vxlan_roo.c
  cint_vxlan_roo_mc.c
  src/examples/dpp/utility/cint_utils_roo.c

~ Name:
+----------+
| VSwitch VPLS with ECMP |
+----------+
~ Description:
 An example of virtual switch that contains VPLS with ECMP.

~ File Reference:
 src/examples/dpp/cint_vswitch_vpls_ecmp.c

~ Name:
+----------+
| VSwitch VPLS Routing Over PWE |
+----------+
~ Description:
 An example of virtual switch with routing over PWE.

~ File Reference:
 src/examples/dpp/cint_vswitch_vpls_roo.c
 src/examples/dpp/utility/cint_utils_roo.c

~ Name:
+----------+
| Dynamic Port |
+----------+
~ Description:
 1. An example of how to add dynamic ports.
 2. An example of adding default ports.

~ File Reference:
 1. src/examples/dpp/cint_dynamic_port_add_remove.c

2. src/examples/dpp/cint_dynamic_ports_init_example.c

~ Name:
+----------+
| Routing Over AC |
+----------+
~ Description:
An example of routing over AC.

~ File Reference:
src/examples/dpp/cint_route_over_ac.c
src/examples/dpp/utility/cint_utils_global.c
src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_l3.c
src/examples/dpp/utility/cint_utils_vlan.c
src/examples/dpp/cint_port_tpid.c

~ Name:
+----------+
| Routing Over Extender |
+----------+
~ Description:
An example of routing over extender port.

~ File Reference:
src/examples/dpp/cint_route_over_extender.c
src/examples/dpp/utility/cint_utils_global.c
src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_l3.c
src/examples/dpp/utility/cint_utils_extender.c
src/examples/dpp/utility/cint_utils_vlan.c
src/examples/dpp/cint_port_tpid.c

~ Name:
+----------+
| Mesh System |
+----------+
~ Description:
An example of configuration in a mesh system.
- Setting modid groups
- Configuring link topology
- Configuring multicast replication (in Mesh MC)

~ File Reference:
src/examples/dpp/cint_fabric_mesh.c

~ Name:
+----------+
| FAP above ARAD - FE1600 Interop |
+----------+
~ Description:
This example demonstrates the configuration required for a FAP of generation above ARAD:
BCM88670/BCM88680/BCM88476 (Jericho, QMX, Jericho plus, Kalia), when connecting it to the legacy device BCM88750 (FE1600).

~ File Reference:
src/examples/dpp/cint_fap_above_arad_fe1600_interop.c

~ Name:
+----------+
| Port Extender UC Control Bridge |
+----------+
~ Description:
An example of a port extender control bridge configuration for UC traffic.
- Configuring the device to be a control bridge and prepend attributes
- Configuring a VSI
- Attaching cascaded ports to the VSI
- Configuring port extender LIFs
- Attaching end stations to the VSI

~ File Reference:
src/examples/dpp/cint_port_extender_cb_uc.c

~ Name:
+----------+
| Port Extender L2 MC Control Bridge |
+----------+
~ Description:
An example of a port extender control Bridge configuration for L2 multicast traffic.
- Configuring the device to be a control bridge and prepend attributes
- Configuring a VSI and attaching cascaded ports to it
- Configuring unicast and multicast port extender LIFs
- Creating L2 multicast groups
- Adding port extender CUDs (MC OutLif) to the multicast group
- Adding unicast and multicast MAC entries

~ File Reference:
src/examples/dpp/utility/cint_utils_global.c

src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_vlan.c
src/examples/dpp/utility/cint_utils_extender.c
src/examples/dpp/cint_port_extender_cb_l2_mc.c

~ Name:
```
+-----------------------------------------+
|   Port Extender L3 MC Control Bridge    |
+-----------------------------------------+
```
~ Description:
An example of a port extender control bridge configuration for L3 ,unicast traffic.
- Configuring the device to be a control bridge and prepend attributes
- Configuring port extender LIFs
- Configuring VSI per each port extender and attaching the ports to it
- Creating L3 multicast Groups
- Creating L3 interface per each port extender
- Adding port extender L2 (OutLif) and L3 (OuRif) CUDs to the multicast group
- Adding routing table entry

~ File Reference:
src/examples/dpp/utility/cint_utils_global.c
src/examples/dpp/utility/cint_utils_port.c
src/examples/dpp/utility/cint_utils_l2.c
src/examples/dpp/utility/cint_utils_vlan.c
src/examples/dpp/utility/cint_utils_extender.c
src/examples/dpp/cint_port_extender_cb_l3_mc.c

~ Name:
```
+-----------------------------+
|   Port Extender Mapping     |
+-----------------------------+
```
~ Description:
An example of setting ingress PP port mapping via user define value.

~ File Reference:
src/examples/dpp/cint_port_extender_mapping.c

~ Name:
```
+---------------------------+
|   Initial QoS Mapping     |
+---------------------------+
```
~ Description:
Example of the initial QoS application based on port.

~ File Reference:
 src/examples/dpp/cint_qos_initial.c

~ Name:
+----------+
| QoS MSPW |
+----------+
~ Description:
 An example of COS mapping for MS PWE transit node.

~ File Reference:
 src/examples/dpp/cint_qos_mspw.c

~ Name:
+----------+
| Enable TLV Workaround for BCM88660 (Arad+) |
+----------+
~ Description:
 An example of programming the PMF to enable a workaround for port/interface status TLV in OAM CCM packets received from Remote MEPs.

~ File Reference:
 src/examples/dpp/cint_field_oam_bfd_advanced.c

~ Name:
+----------+
| Port Extender Dynamic Switching |
+----------+
~ Description:
 An example of the port extender dynamic switching for COE ports.

~ File Reference:
 src/examples/dpp/cint_port_extender_dynamic_switching.c

~ Name:
+----------+
| L3 VPN |
+----------+
~ Description:
 An example of L3VPN application.
 In CINT following traffic scenarios:
  1. Route unicast traffic.
  2. mVPN application (multicast IPMC traffic).
  3. For 88670_A0: Demonstrates how to configure hierarchical FEC for L3VPN.

~ File Reference:

1. src/examples/dpp/cint_l3vpn.c
2. src/examples/dpp/cint_mvpn.c
3. src/examples/dpp/cint_l3vpn.c

~ Name:

```
+-------------------------------------+
|    BFD IPv4 Single Hop Extended    |
+-------------------------------------+
```

~ Description:

PMF stage in BFD IPv4 single hop extended solution.

~ File Reference:

src/examples/dpp/cint_field_bfd_ipv4_single_hop.c

~ Name:

```
----------------------------+
|    BFD IPv6 Single Hop    |
+----------------------------+
```

~ Description:

PMF stage in BFD IPv6 single hop solution.

~ File Reference:

src/examples/dpp/cint_field_bfd_ipv6_single_hop.c

~ Name:

```
-------------------------------+
|    OAM per MEP Statistics    |
+-------------------------------+
```

~ Description:

PMF stage in OAM per MEP statistics solution.

~ File Reference:

src/examples/dpp/cint_field_oam_statistics.c

~ Name:

```
----------------------+
|    MTU Filleting    |
+----------------------+
```

~ Description:

An example of MTU filtering configuration.

~ File Reference:

```
 src/examples/dpp/cint_field_mtu_filtering.c
 src/examples/dpp/cint_egr_mtu.c


~ Name:
+-------------+
|    MLDP    |
+-------------+
~ Description:
 An example of IP-GRE L3VPN which show BCM886XX being PE-based MLDP.

~ File Reference:
 src/examples/dpp/cint_mldp.c


~ Name:
+----------------------------------+
|      Additional TPIDs          |
+----------------------------------+
~ Description:
 An example of setting BCM88670 (Jericho) additional TPIDs to enable additional TPID port lookup.

~ File Reference:
 src/examples/dpp/cint_additional_tpids.c


~ Name:
+---------------------------+
|    Routing Over Trill    |
+---------------------------+
~ Description:
   An example of routing over trill.

~ File Reference:
   cint_trill_roo.c


~ Name:
+-------------------------------------+
|    Hierarchical Protection VPLS    |
+-------------------------------------+
~ Description:
   An example of VPLS hierarchical protection.

~ File Reference:
   cint_vswitch_vpls_hvpls.c
```

~ Name:
+----------+
| 3level Protection VPLS |
+----------+
~ Description:
  An example of VPLS 3level protection.

~ File Reference:
  cint_vswitch_vpls_3level_protection.c

~ Name:
+----------+
| Port based PWE |
+----------+
~ Description:
  An example of port based PWE. A demo showing how to create and update a port based PWE.

~ File Reference:
  cint_vswitch_port_based_pwe.c

~ Name:
+----------+
| PWE raw/tag mode with native EVE |
+----------+

~ Description:
  Example for PWE raw/tag mode with the native EVE feature.

~ File Reference:
  cint_pw_raw_tag_mode.c

~ Name:
+----------+
| MPLS Protection |
+----------+
~ Description:
 An example of MPLS protection.

~ File Reference:
  cint_mpls_protection.c

~ Name:
+----------+
| MPLS |
+----------+

~ Description:
Examples of various MPLS scenarios.

~ File Reference:
cint_mpls_various_scenarios.c

~ Name:
+--------------------------------+
| E2E Symmetric Connection |
+--------------------------------+
~ Description:
An example of building a symmetric scheduling scheme.

~ File Reference:
cint_e2e_symmetric_connection.c

~ Name:
+--+
| Two Way Active Measurement Protocol (TWAMP) |
+--+
~ Description:
An example of handling TWAMP.

~ File Reference:
cint_twamp.c

~ Name:
+------------------------+
| Auto Negotiation |
+------------------------+
~ Description:
An example of auto negotiation in BCM88670 (jericho).

~ File Reference:
cint_autoneg.c

~ Name:
+---+
| L2 Encapsulation of a Packet Punted to External CPU |
+---+
~ Description:
An example of L2 encapsulated punt packet configuration.

~ File Reference:

src/examples/dpp/cint_l2_encap_external_cpu.c

~ Name:
+----------+
| Two Level ECMP with MPLS |
+----------+
~ Description:
An example of hierarchical ECMPs, each for selecting MPLS tunnels.

~ File Reference:
cint_mpls_ecmp.c

~ Name:
+----------+
| RFC2544 Reflector - 1-Pass programmable usage |
+----------+
~ Description:
An example of enabling and programming a reflector, using a user defined criteria that does not use a 2nd cycle through the device for reflection.

~ File Reference:
cint_field_reflector_1pass.c

~ Name:
+----------+
| AC 1:1 Protection |
+----------+
~ Description:
An example of AC 1:1 protection configuration.
- Packets can be sent from the In-AC towards the Out-ACs
- UC - Unicast traffic is achieved by using the FEC Protection and sending a packet with a known DA
- MC - Multicast Protection is achieved by defining a MC group an using egress protection for unknown DA packets

Another example is of a FEC facility protection where the traffic selection is according to the actual working state of the ports. Also a simultaneous mode is presented, where the traffic is selected according to standard FEC protection, but can be overridden when the selected ports isn't working.

~ File Reference:
src/examples/dpp/cint_ac_1to1_coupled_protection.c
Facility protection - src/examples/dpp/cint_ac_fec_facility_protection.c

~ Name:
+----------+

```
|   ELK ACL   |
+---------------+
```

~ Description:

An example of configuration in ELK ACL.

- Indicating via SoC property that the KBP device is connected and can be used for external lookups
- Indicating whether the IPv4 routing tables (including IPv4 unicast with and without RPF and IPv4 Multicast lookups) are located either in BCM88650 (Arad) or in KBP via SOC properties.
- Initializing the BCM88650 (Arad) device.
- Defining the field groups:
  - In the forwarding stage, defining a 5 tuples of IPv4 for the IPv4 unicast packets (both bridged and routed).

This lookup is the third lookup in the KBP device. The lookup hit indication and the lookup result are passed to the ingress field processor (FP) stage.

  - In the ingress FP stage, define a field group preselecting only on the same IPv4 unicast packets and on the hit indication.

If matched, define the lookup result as meter value (direct extraction field group).

~ File Reference:

src/examples/dpp/cint_field_elk_acl.c

~ Name:

```
+-------------------+
|   ELK IPv4 DC   |
+-------------------+
```

~ Description:

An example of configuration in ELK IPv4 DC.

- Indicating via SoC property that the KBP device is connected and can be used for external lookups
- Indicating whether the IPv4 DC routing tables are located in BCM88650 (Arad) or in KBP via SoC properties
- Initializing the BCM88650 (Arad) device
- Adding entries to DC routing table

~ File Reference:

src/examples/dpp/cint_ipv4_dc.c.c

~ Name:

```
+-------------------------------------------------------+
|   MAC Extender application in Higig TM and PP Mode   |
+-------------------------------------------------------+
```

~ Description:

An example of MAC extender application in Higig TM and PP mode.

- IXIA ports 3-7 send PP traffic and map to XE22 (PP port) on the QMX side
- IXIA port 3-5 send TM traffic and map to XE21(TM port) on the QMX side
- IXIA port 3-6 send normal traffic to XE13 and out of chip by Higig port XE21
- PP traffic is switched to XE13 through MC while TM traffic is forwarded to XE13 according to ITMH(0x01000d00)

~ File Reference:

src/examples/dpp/cint_xgs_mac_extender_mappings_tm.c

~ Name:
+----------+
| PMF Stage in BFD Echo Solution |
+----------+
~ Description:
An example of configuring the PMF stage in a BFD echo solution.
- Enabling SoC property bfd_echo_enabled=1 custom_feature_bfd_echo_with_lem=1 (together with all other OAM SoC properties)
- Adding a PMF rule using the cint: cint_field_bfd_echo.c function:bfd_echo_with_lem_preselector
- Adding a BFD endpoint by calling bcm_bfd_endpoint_create with: flags |= BCM_BFD_ECHO & BCM_BFD_ENDPOINT_MULTIHOP

~ File Reference:
src/examples/dpp/cint_field_bfd_echo.c

~ Name:
+----------+
| Field Snoop |
+----------+
~ Description:
An example of filtering all packets that are IPv4/6 over MPLS.
- Setting a snoop profile to send to some destination local ports. Alternatively, a system port can be the destination of the mirror port.
- Receive the snoop gport as an output. This gport will be the parameter used for snoop action

~ File Reference:
src/examples/dpp/cint_field_snoop_example.c

~ Name:
+----------+
| MPLS LIF Counter |
+----------+
~ Description:
An example of MPLS LIF Counter.
- Setting the counting source and LIF range of the LIF counting profile
- Setting up the MPLS service and getting the inlif_gport or outlif_gport; also performing the shaping or QoS according to the stat_mode
- Associating inlif_gport or outlif_gport to the counting profile
- Sending the packet
- Getting 32-bit counter value for specific statistic types

~ File Reference:
src/examples/dpp/cint_mpls_lif_counter.c

~ Name:
+----------+
| ECMP Meter Resolution to FEC Member |
+----------+
~ Description:
An example of ECMP meter resolution to FEC member.
- Simulates the ECMP meter resolution to FEC member performed by BCM88660 (Arad+) and BCM88670 (Jericho) and runs independently(!) from the SDK
- b\Based on cint_trunk_ecmp_lb_key_and_member_retrieve.c which is dependent on the SDK

~ File Reference:
src/examples/dpp/cint_ecmp_hash_resolve.c

~ Name:
+----------+
| VLAN VSI Membership |
+----------+
~ Description:
An example of VLAN VSI membership.
- Ingress VLAN membership filter with drop packet trap
- Ingress VLAN membership filter with send to CPU packet trap
- Enabling egress VLAN membership filter
- Disabling egress VLAN membership filter

~ File Reference:
src/examples/dpp/cint_vlan_vsi_membership.c

~ Name:
+----------+
| BFD Endpoints Time Measurement |
+----------+
~ Description:
An example of BFD endpoints time measurement.
- Time measurement for creating and removing BFD endpoints

~ File Reference:
src/examples/dpp/cint_bfd_performance_test.c

~ Name:
+----------+
| MPLS NOP Action in EEDB |
+----------+
~ Description:

An example of using MPLS NOP action.
- Adding EEDB SWAP LIFs
- Adding EEDB NOP LIFs
- Adding a PMF rule to edit OutLif=NOP and EEI.Outlif=swap
- Packet sent is label swapped

~ File Reference:
src/examples/dpp/cint_mpls_nop_action_encapsulation.c

~ Name:
```
+-----------------------+
|   OAM OAMP Server    |
+-----------------------+
```
~ Description:
An example of using OAMP server.
- Using two units, one for the server and one for the client
- Creating and connecting VLAN ports
- Adding down and up MEPs to each unit

~ File Reference:
src/examples/dpp/cint_oam_server.c

~ Name:
```
+---------------------+
|   Push MPLS GRE    |
+---------------------+
```
~ Description:
An example of IP routing to MPLS + IP-GRE tunnel encapsulation.

~ File Reference:
src/examples/dpp/cint_push_mpls_gre.c

~ Name:
```
+---------------------------+
|   VLAN Tag Acceptance    |
+---------------------------+
```
~ Description:
An example of egress tag acceptance.
- Enabling egress tag acceptance
- Adding a VLAN to discard list
- Only in advanced mode: Setting packet untagged after EVE

~ File Reference:
src/examples/dpp/cint_vlan_egress_tag_acceptance.c

~ Name:
+-----------------------------+
| Egress VLAN Membership |
+-----------------------------+
~ Description:
  An example of VLAN membership.
   - Enabling egress VLAN membership filter
   - Adding a port to VLAN membership list
   - Removing a port from VLAN membership list

~ File Reference:
  src/examples/dpp/cint_vlan_egress_membership.c

~ Name:
+---------------------------+
| VLAN Tag Acceptance |
+---------------------------+
~ Description:
  An example of egress tag acceptance.
   - Enabling egress tag acceptance
   - Adding a VLAN to discard list
   - Only in advanced mode: Setting packet untagged after EVE

~ File Reference:
  src/examples/dpp/cint_vlan_egress_tag_acceptance.c

~ Name:
+-----------------------------+
| Egress VLAN Membership |
+-----------------------------+
~ Description:
  An example of VLAN membership.
   - Enabling egress VLAN membership filter
   - Adding a port to VLAN membership list
   - Removing a port from VLAN membership list

~ File Reference:
  src/examples/dpp/cint_vlan_egress_membership.c

~ Name:
+--------------------------+
| Outbound Mirroring |
+--------------------------+
~ Description:

An example of outbound mirroring and the BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED flag.
- Enabling outbound mirroring
- Setting the BCM_VLAN_ACTION_SET_OUTER_VID_UNTAGGED flag

~ File Reference:
src/examples/dpp/cint_vlan_mirror_outbound_untagged.c

~ Name:
+----------+
| Speculative Parsing of Headers Over MPLS |
+----------+
~ Description:
An example of utilizing the field APIs to filter all packets that are IPv4/6 over MPLS.

~ File Reference:
src/examples/dpp/cint_field_mpls_speculative_parse.c

~ Name:
+----------+
| MPLS Additional Labels |
+----------+
~ Description:
An example of deep MPLS stack encapsulation.

~ File Reference:
src/examples/dpp/cint_ip_route_tunnel_mpls_additional_labels.c

~ Name:
+----------+
| VPLS Tagged Mode |
+----------+
~ Description:
An example of configuring ingress forwarding of VPLS tagged mode.
- Use cross connect to connect between 2 ports and create P2P service
- Use flexible connect to connect existing MPLS port p2p service with user defined VPLS to newly created destination port

~ File Reference:
src/examples/dpp/cint_vswitch_vpws_tagged.c

~ Name:
+----------+
| Customer Specific Tunnel Encapsulation |
+----------+

~ Description:
An example of customer specific tunnel encapsulation.
When working as an ingress module the DNX device works as a pure PP, adding customer format TM headers and PP headers to the original packets.
When working as an egress module the DNX device processes customer format TM headers and PP headers.

~ File Reference:
cint_connect_to_np_vpws.c
cint_nph_egress.c
cint_customer_protection.c

~ Name:
+----------+
| 1+1 Protection VPLS |
+----------+
~ Description:
An example of VPLS 1+1 protection. In this scenario, 2 PWE works as a 1+1 protection group (in a multicast group).
In ingress, a protection path decides which PW receives packets.
In Egress, traffic is replicated to 2 PWE.

~ File Reference:
cint_vswitch_vpls_1plus1_protection.c

~ Name:
+----------+
| LSR with context |
+----------+
~ Description:
An example of MPLS LSR using label+VRF or label+IN-RIF as ILM lookup key.

~ File Reference:
cint_mpls_lsr_context.c

~ Name:
+----------+
| SER |
+----------+
~ Description:
An example of customer trap SER packets. Configure trap in Ingress if SER occurs and send packet to CPU.

~ File Reference:

cint_ser.c

~ Name:
+-----------------------------------+
| Ingress Latency Measurements |
+-----------------------------------+
~ Description:
An example of configuring ingress latency measurements.
- Use PMF to configure OAM-TS-HEADER Type=LATENCY
- Use PMF to set the Latency flow ID.
- Use Counter processor to store the max latency value (and read it).

~ File Reference:
src/examples/dpp/cint_ingress_latency_measurements.c

~ Name:
+--+
| BFD Remote Detect Multiplier Monitoring |
+--+
~ Description:
An example of configuring BFD detect multiplier monitoring.
- PMF solution for detect multiplier monitoring using TCAM compare
- PMF comparison between LEM results. Configuration detects multiplier on EP and value from packet.
In case it is an equal packet continue to OAMP. If it is a different packet, copy send to OAMP and second to CPU.

~ File Reference:
src/examples/dpp/cint_field_bfd_ipv4_single_hop_remote_detect_compare.c

~ Name:
+---+
| MPLS Tunnel Termination and Forwarding TTL0/1 |
+---+
~ Description:
An example of MPLS tunnel termination and forwarding TTL0/1 trap configuration.

~ File Reference:
cint_rx_mpls_tunnel_termination_forwarding_ttl0_1.c
~ Name:
+---+
| IPv4 Tunnel Termination and Forwarding TTL0/1 |
+---+
~ Description:
An example of IPv4 tunnel termination and forwarding TTL0/1 trap configuration.

~ File Reference:
cint_rx_ipv4_tunnel_termination_forwarding_ttl0_1.c

~ Name:
+----------+
| IPv6 Tunnel Termination and Forwarding HOP COUNT0/1 |
+----------+
~ Description:
An example of IPv6 tunnel termination and forwarding HOP COUNT0/1 trap configuration.

~ File Reference:
cint_rx_ipv6_tunnel_termination_forwarding_hop_count0_1.c

~ Name:
+----------+
| UDP Tunnel Encapsulation |
+----------+
~ Description:
An example of UDP tunnel encapsulation.

~ File Reference:
cint_udp_tunnel_encap.c

~ Name:
+----------+
| UDP Tunnel Termination |
+----------+
~ Description:
An example of UDP tunnel termination.

~ File Reference:
cint_udp_tunnel_term.c

~ Name:
+----------+
| Tunnel Utilities |
+----------+
~ Description:
Utility functions for tunneling applications.

~ File Reference:
cint_utils_tunnel.c

~ Name:
+----------+
| GRE with LB key Tunnel Encapsulation |
+----------+
~ Description:
An example of GRE with LB key tunnel encapsulation.

~ File Reference:

cint_gre_with_lb_tunnel_encap.c

~ Name:
+----------+
| Lawful Interception Tunnel Encapsulation |
+----------+
~ Description:
An example of Lawful Interception tunnel encapsulation.

~ File Reference:
cint_lawful_interception.c

~ Name:
+----------+
| MPLS Termination with BoS check |
+----------+
~ Description:
An example of MPLS termination with BoS check.

~ File Reference:
cint_mpls_termination_bos_check.c

~ Name:
+----------+
| snoop +PMF drop action with check cnts |
+----------+
~ Description:
An example of snoop + pmf drop action with counters test.

~ File Reference:
cint_fix_drop_counter.c

~ Name:
+----------+
| VOQ and VOQ connector create and connect |
+----------+
~ Description:
Basic functions to create and connect voq / voq connector for a single port.

~ File Reference:
cint_voq_connection.c

~ Name:
+----------+
| OAM Y1731 over MPLS-TP Section |
+----------+
~ Description:
An example/reference of Y1731 OAM over MPLS-TP Section.

```
  - Configuring VPLS service
  - Configuring LIF with non zero VSI
  - Configuring MPLS-TP/PWE tunnel
  - Creating groups
  - Creating local and remote MEPs
  - Registrating events

~ File Reference:
 src/examples/dpp/cint_oam_mpls_tp_section.c

 ~ Name:
+--------------------------------------+
|    OAM Ethernet Egress Injection    |
+--------------------------------------+
~ Description:
   An example of Ethernet OAM with Egress Injection.
     - Configuring VSI
     - Configuring 2 LIF's for endpoints
     - Configuring Egress Vlan editing for untagged packets
     - Creating groups
     - Creating local and remote MEPs(2) with VSI

~ File Reference:
   src/examples/dpp/cint_oam_egress_injection.c

 ~ Name:
+--------------------------------------+
|    OAM Hierarchical Loss Measurement |
+--------------------------------------+
~ Description:
   An example of OAM HLM.
     - Configuring HLM by LIF
     - Configuring HLM by MDL

~ File Reference:
   src/examples/dpp/cint_oam_hlm.c

~ Name:
+--------------------------------------+
|    DRAM bound thresholds             |
+--------------------------------------+
~ Description:
   An example how to configure DRAM bound thresholds

~ File Reference:
   src/examples/dpp/cint_dram_bound_thresh.c

Found in path(s):
```

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/README.txt
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module : Switch
*
* Purpose:
* This file has the flexible hashing apis and its accessory functions to configure
* field match data and relative hash offsets for bucket 2 and 3.
*
* The below shows the configurations of flexible hashing mechanism in UDF and Flex
* tables. Data qualifier apis are used to configure the UDF table with relative
* packet offsets from L4 header. UDF chunk4 - 7 is being used to configure hash
* bucket 2 and 3. Flexible hashing offset mapping is done with functions
* implemented in this file.
*
*
*
* FLEXIBLE HASHING PACKET PARSER (with UDF)
*
*    Packet           L4
*    +--------+--------+------------+---------+
*    |       |       | L4 header  | Payload |
*    +--------+--------+-+-+--------+---------+
*              offset  2 2 ....
*              ||                                  -----+
*              ||                                       |
*                      +----Chunk4----+          PKT.field1(16b)|
*       PKT.offset1  -->  | +--Chunk5-----+                     |
*                      | | +-Chunk6------+    ==> PKT.field2(16b)|
*    +   PKT.offset2  -->  | | | +-Chunk7------+                  -+
*                      +-| | |            |      PKT.field3(16b)|
*       PKT.offset3  ---->  +-| |UDF_TCAM/OFF |                    |
*                          +-|  (4 x 16bit)|      PKT.field4(16b)|
*       PKT.offset4  ------>    +-------------+                    |
*                                                  -----+
*
*
* FLEXIBLE HASHING OFFSET MAPPING
*                                                                    *
*                    (64bx8)  [UDF_CONDITIONAL_CHECK_TABLE_CAMm]
*                -----+         +--0-------------+
*       PKT.field1(16b)|         +-|+-2--------------+
```

```
*                    |          +-|+-3--------------+
*       PKT.field2(16b)| 64bit       +| +-4--------------+    ==> offset 2
*                    -+---- Key      +-| +-5--------------+
*       PKT.field3(16b)|               +-| +-6--------------+
*                    |                +-| +-7--------------+
*       PKT.field4(16b)|                  +-|              |
*                    |                  +----------------+
*                -----+               [UDF_CONDITIONAL_CHECK_TABLE_RAMm]
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident2/switch.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_tm_prio_o_port_reduce_resources.c, v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_tm_prio_o_port_reduce_resources.c
* Purpose: Example for Ardon application. Includes Priority Over Port Cosq Application.
* Reference: BCM88650/BCM88660 TM Device Driver (ATMF/Ardon)
*
*  Provide an example of building scheduling scheme for "Priority Over Port" with 8 priorities.
*  Means, to connect VOQ connectors to the appropriate HR according to the HRs TC.
*  This cint directed to system with reduced resources (Ardon).
*  Also includes examples for: adding ports, MC, ISQ, CGM and other configurations.
*
* Creating Scheduling Scheme done by the following steps:
* - Egress: Create for each local port: following CLs, VOQ connectors.
* - Ingress: Create VOQs for each system port.
* - Connect Ingress VOQs <=> Egress VOQ connectors.
*
* This application example assumes Main port configuration via SOC property.
* Main port number should be given as parameter (tm_internal_pkt_port) to the Cint, This port need to be
configured with TM header type (tm_port_header_type).
* In Ardon this port Interface should be TM_INTERNAL_PKT.
* The Cint will create duplicated system ports attached to the Main port, the number of duplicated system ports will
be according to cint parameter nof_local_ports.
* Means, if tm_internal_pkt_port=2 and  nof_local_ports=4 the ports in the system will be: 2,3,4,5.
*
* Notice that the scheduling scheme assumes static IDs for VOQ connectors, VOQs ...
* The mapping depended on the local and system ports in the system.
* The static mapping is done using utility functions: convert_modport_to_sysport_id,
convert_sysport_id_to_base_voq_id, convert_modport_to_base_voq_connector.
```

```
* The mapping can adjust by changing the above functions and setting OFFSET_START_OF_VOQ,
OFFSET_START_OF_VOQ_CONNECTORS.
* Port - VOQ - VOQ connectors mapping can be verified using diag shell command:
    gport
*
*
* Adjust to different system configuration:
*  1. Change relevant soc properties.
*   - Adjust (if needed) SOC property in 88202 section (uncomment PriorityOPort lines and comment 'Default SDK
Application' lines).
*   - Disable 88650 ucode configuration.
*   - Disable 88650 Dram selection.
*  2. Call ardon_appl_init() with the relevant system configuration, reference can be found in ardon_appl_exmaple():
     (this is not a specific example for a relevant system, but a general reference)
       cd ../../../../src/examples/dpp
       cint cint_tm_prio_o_port_reduce_resources.c
       cint
       int unit = 0;
       int nof_local_ports = 6;
       int mc_group_num = 5;
       int nof_isqs = 512;
       int cgm_thr_enable = 1;
       ardon_appl_example(unit, nof_local_ports, mc_group_num, nof_isqs, cgm_thr_enable);
       quit;

*  2a. Specific example for mgmt system can be found in ardon_mgmt_appl_example().
*     The system is controlled by a central cpu which controlls the following devices:
*     ---------   --------   ---------
*     | Fap_0 |---|  Fe  |---| Fap_1 |
*     ---------   --------   ---------
*      unit 0      unit 1     unit 2
*
       cd ../../../../src/examples/dpp
       cint cint_tm_prio_o_port_reduce_resources.c
       cint
       int unit = 0;
       int nof_local_ports = 6;
       int mc_group_num = 5;
       int nof_isqs = 512;
       int cgm_thr_enable = 1;
       ardon_mgmt_appl_example(unit, nof_local_ports, mc_group_num, nof_isqs, cgm_thr_enable);
       quit;

*
*  Note: In global_info_init() we assume there is a central CPU.
*        If this is not the case, change g_info.central_cpu to 0.
*
```

```
*
* Multicast Configuration:
* ========================
*   The function ardon_appl_mc() demonstrate the use of BCM Multicast API. This function open several MC groups , according to mc_group_num.
*   The group type (ING/EGR/BOTH) is configured according to mc_type. The first group MC id is set according to mc_id and all the other groups will be allocated in increasing order.
*   One port is added to each MC group, to the first group the port mc_port_member is added and to the other groups the allocated port will be in increasing order.
*   If we are not using fabric (as in EMUL) the following Configuration is needed:
*     s IPT_FORCE_LOCAL_OR_FABRIC FORCE_LOCAL=1
*   To use MC-ID in the range of < 255:
*     gress_multicast_direct_bitmap_max=255
*
*   Send packet MC Packet:
     tr 40 Tagged=true LengthStart=65 LengthEnd=128 Chains=1 PktsPerChain=1 LengthInc=100 MacDest=00:00:01:00:00:00 MacSrc=00:00:00:e3:00:e3 # MC-id = 256 = 0x100 port 2
     tr 40 Tagged=true LengthStart=65 LengthEnd=128 Chains=1 PktsPerChain=1 LengthInc=100 MacDest=00:00:01:01:00:00 MacSrc=00:00:00:e3:00:e3 # MC-id = 257 = 0x101 port 3
     tr 40 Tagged=true LengthStart=65 LengthEnd=128 Chains=1 PktsPerChain=1 LengthInc=100 MacDest=00:00:01:09:00:00 MacSrc=00:00:00:e3:00:e3 # MC-id = 265 = 0x109 port 11
*
* Running the Application on Ardon pcid:
* ======================================
*
*   Application:
       cd ../../../src/examples/dpp
       cint cint_tm_prio_o_port_reduce_resources.c
       cint
       int unit = 0;
       int nof_local_ports = 6;
       int mc_group_num = 5;
       int nof_isqs = 512;
       int cgm_thr_enable = 1;
       ardon_appl_example(unit, nof_local_ports, mc_group_num, nof_isqs, cgm_thr_enable);
       quit;

* Running the Application on Arad/Arad+:
* ======================================
*   Following example for Main port = 1
*   SOC Property:
*     diag_cosq_disable=1
*     ucode_port_1.BCM88650=10GBase-R12 # All other ports are disabled
*     fap_device_mode.BCM88650=TM
*     egress_multicast_direct_bitmap_max.BCM88650=255
*     dtm_flow_mapping_mode_region_65.BCM88650=1
*     dtm_flow_mapping_mode_region_66.BCM88650=1
*     tm_port_header_type_in_0.BCM88650=TM     # for all CPU ports
```

```
*     tm_port_header_type_out_0.BCM88650=TM    # for all CPU ports
*     stack_enable.BCM88650=0
*
*
*   Application:
      cd ../../../../src/examples/dpp
      cint cint_tm_prio_o_port_reduce_resources.c
      cint
      int unit = 0;
      int nof_local_ports = 28;
      int mc_group_num = 20;
      int nof_isqs = 512;
      int cgm_thr_enable = 1;
      ardon_appl_example(unit, nof_local_ports, mc_group_num, nof_isqs, cgm_thr_enable);
      quit;

*
*   Traffic:
*     Packet header according to ITMH (tm_port_header_type_2.BCM88650=TM). MacDest[19:0]=dest,
MacDest[24:22]=tc.
*     1. Send traffic to port=5 tc=3 with Packet DMA:
       tr 40 Tagged=true LengthStart=65 LengthEnd=128 Chains=1 PktsPerChain=1 LengthInc=100
MacDest=00:cc:00:05:00:00 MacSrc=00:00:00:e3:00:e3
*
*     2. Send traffic to port=3 tc=0 with IRE Packet GEN:
       s IRE_REGI_PKT_DATA
REGI_PKT_DATA=0x000C0003123456C49001122334455667788990098765432101234567899876 54
       s IRE_REG_FAP_PORT_CONFIGURATION REG_REASSEMBLY_CONTEXT=1
REG_PORT_TERMINATION_CONTEXT=1
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x0
REGI_PKT_ERR=0x0 REGI_PKT_SOP=1 REGI_PKT_EOP=0 REGI_PKT_BE=31
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x1
REGI_PKT_ERR=0x0 REGI_PKT_SOP=1 REGI_PKT_EOP=0 REGI_PKT_BE=31
       s IRE_REGI_PKT_DATA
REGI_PKT_DATA=0x00007FFFFF03003F003F03DAA1C98773674942871180087118050000000010000
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x0
REGI_PKT_ERR=0x0 REGI_PKT_SOP=0 REGI_PKT_EOP=0 REGI_PKT_BE=31
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x1
REGI_PKT_ERR=0x0 REGI_PKT_SOP=0 REGI_PKT_EOP=0 REGI_PKT_BE=31
       s IRE_REGI_PKT_DATA
REGI_PKT_DATA=0xAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x0
REGI_PKT_ERR=0x0 REGI_PKT_SOP=0 REGI_PKT_EOP=1 REGI_PKT_BE=31
       s IRE_REGISTER_INTERFACE_PACKET_CONTROL REGI_PKT_SEND_DATA=0x1
REGI_PKT_ERR=0x0 REGI_PKT_SOP=0 REGI_PKT_EOP=1 REGI_PKT_BE=31
*
*     3. using IXIA:
```

```
*       - use Z:\projects\NTSW_LAB\SOFTWARE_VERSION\Arad\in_work\ixia_cfgs\PrioOverPort.prt to load
IXIA port property.
*       - Limit Bandwidth to 1G:
          c
          bcm_gport_t e2e_gport;
          BCM_COSQ_GPORT_E2E_PORT_SET(e2e_gport,1);
          print bcm_cosq_gport_bandwidth_set(0, e2e_gport, 0, 0, 1000000,0);
          quit;
*       - Make "Packet Group statistic view" for the IXIA port you are using.
*       - Send traffic with different priorities.
*       - verify Traffic is according to Port Over Priority (At the statistic view you should see only the groups with the
hi priority traffic).
*
*   Diag:
     show c
     diag pp PKT_associated_TM_info
     diag pp fdt
     diag count g nz
*
* OCB only mode (ocb enabled + No dram's):
* ========================================
* SOC property:
*   bcm886xx_ocb_databuffer_size.BCM88650=1024 ==> dram budder size need to be equal or lower than ocb
buffer size
*   ext_ram_present.BCM88650=0              ==> or ext_ram_present.BCM88202=0
*   bcm886xx_ocb_enable.BCM88650=1          ==> this is the default, just validate
*
*
* Ardon EMUL setup:
* ===========
* Enable to following SOC property:
*   diag_emulator_partial_init.BCM88202=1
*   schan_timeout_usec.BCM88202=100000000000
*   tdma_timeout_usec.BCM88202=100000000000
*   tslam_timeout_usec.BCM88202=100000000000
*   phy_null.BCM88202=0
*
* When running ardon on emulation it is advised to use the following(to save time due to the slow pace of the
emulator) :
   cint cint_tm_prio_o_port_reduce_resources.c
   cint
   int unit = 0;
   int nof_local_ports = 6;
   int mc_group_num = 5;
   int nof_isqs = 0;
   int cgm_thr_enable = 0;
   ardon_appl_example(unit, nof_local_ports, mc_group_num, nof_isqs, cgm_thr_enable);
   quit;
```

```
*
* Diag shell:
  g NBI_TX_BYTE_TOTAL_CNT
  g NBI_TX_EOP_PKT_TOTAL_CNT
  g NBI_TX_SOP_PKT_TOTAL_CNT
  g NBI_TX_ERR_PKT_TOTAL_CNT

  g NBI_RX_BYTE_TOTAL_CNT
  g NBI_RX_EOP_PKT_TOTAL_CNT
  g NBI_RX_SOP_PKT_TOTAL_CNT
  g NBI_RX_ERR_PKT_TOTAL_CNT

  g NBI_TX_BYTE_CNT
  g NBI_TX_EOP_PKT_CNT
  g NBI_TX_SOP_PKT_CNT
  g NBI_TX_ERR_PKT_CNT

  g NBI_RX_BYTE_CNT
  g NBI_RX_EOP_PKT_CNT
  g NBI_RX_SOP_PKT_CNT
  g NBI_RX_ERR_PKT_CNT
*
*
* Ardon FC:
* =========
* Ardon recieves FCV (Flow Control Vector) with the size of 256 bit.
* FCV vector can be mapped only to CL's 0-255.
* During Ardon init the table CFC_NIF_SHR_MAP is configured.
*
* In this priotiry over port schedualing scheme the CL are connected according to the formula: (port *
g_info.num_cos + cos).
* Means, port0,priority0 is connected to CL_index0; port0,priority1 is connected to CL_index1; port1,priority1 is
connected to CL_index9.
*
* Default FCV to CL SCH mapping is: FCV[i] = port * cos_num + cos.
* Means that bits[7:0] in FCV are all TCs at port0, and bits[15:8] are all TCs at port1 and so on.
*
* Using BCM API each bit in FCV can be mapped to a d different CL (0-255). example can be found in:\
    cd ../../../../src/examples/dpp
    cint cint_tm_prio_o_port_reduce_resources.c
    cint
    int unit = 0;
    int num_tm_ports = 28;
    int num_cos = 8;
    ardon_fc_shr_example(unit, num_tm_ports, num_cos);
    quit;
*
* CL's indexes can be calculated according to : sch_elem_index = (64 * 1024) + cl_index * 4. Meand cl_index=1 is
```

```
sch_elem_index=65540.
* SOC property configuration for working with CL (in Priority over port configuration) is:
  custom_feature_cl_scheduler_fc=1
  dtm_flow_mapping_mode_region_65.BCM88202=1
  dtm_flow_mapping_mode_region_66.BCM88202=1
* Notice that enableing the SOC Property will disable the HR FC mapping.
*
* Default FCV to CL SCH mapping is: FCV[i] = port * cos_num + cos.
* Means that bits[7:0] in FCV are all TCs at port0, and bits[15:8] are all TCs at port1 and so on.
* Relevant Registers/Memories:
  g CFC_CFC_ENABLERS
  d CFC_NIF_PFC_MAP
  g SCH_REG_1BC
  d CFC_NIF_SHR_MAP

  g CFC_NIF_FCV_STATUS_SEL
  g CFC_NIF_FCV_STATUS

  g CFC_FRC_NIF_SHR
*
*
* Note:
*  - This Application example run on top of Default application (Set diag_cosq_disable=1 and not diag_disable=1).
Missing:
*     - RX enable
*     - internal port (ERP) configuration across units.
*     - My Modid set (bcm_stk_my_modid_set), Module enable (bcm_stk_module_enable).
*     - Also configure Main port (add gport)
*     - bcmCosqControlPacketLengthAdjust
*
* Ardon shaping example:
* ======================
* This application defines 512 shaping queues (ISQs) (8 priorities * 64 ISQ ports ) starting queue number 3072.
* These queues has BW of 2.5Gb/s).
* in order to test this configuration frames with the following header need to be send:
      isq_flow          isq base number + tc
      0x80000           indicates flow id header + extention
      0xc0000           indicates unicast
      set itmh_hdr       [expr ( ($tc<<22) | $isq_flow | 0x80000 )]
      set isq_hdr_ext     [expr (0xc0000 | $dest_port)]
* call to the application
* ISQ configuration:
*   isq_bw = 2500000;
*   rv = ardon_shaping_configuration(unit, nof_isqs, MAX_COS, isq_bw);
*   if (BCM_FAILURE(rv)) {
*       printf("ardon_shaping_configuration: failed. Error:%d (%s) \n", rv, bcm_errmsg(rv));
*       return rv;
*   }
```

```
*

* Ardon GCM example:
* ==================
* This function responsible for configuring Ardon per port thresholds according ardon_egq_thresholds.xls.
* This function configures only the 1 port 100G/120G with 8 priority example.
* egrs_thr_t structure defined in order to save threshold values. we can see the different thresholds that are
configured at this example:
*           unicast flow control packet descriptors threshold
*           unicast flow control data buffers threshold
*           unicast drop packet descriptors threshold
*           unicast drop data buffers threshold
*           multicast drop packet descriptors threshold
*           multicast drop data buffers threshold
*           unicast flow control packet descriptors interface threshold
*           multicast flow control packet descriptors interface threshold
*           unicast flow control packet descriptors per traffic class threshol
*           unicast flow control data buffers per traffic class threshold
*           unicast drop packet descriptors per traffic class threshold
*           unicast drop data buffers per traffic class threshold
*           multicast drop packet descriptors per traffic class per color threshold
*           multicast drop data buffers per traffic class per color threshold
*           multicast reserved packet discriptors per traffic class threshold
* thresholds are differ by pd/db, uc/mc, fc/drop, tc, color, reserved & interface cariteria.
* set_eqr_thresholds help function defined to receive these parameters and configure proper values.
* call to the application
* rv = ardon_thr_example(unit, tm_internal_pkt_port, MAX_COS);
* if (BCM_FAILURE(rv)) {
*     printf("ardon_thr_example: failed. Error:%d (%s) \n", rv, bcm_errmsg(rv));
*     return rv;
*  }
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tm_prio_o_port_reduce_resources.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_jer2_jer2_tmc_api_fabric.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*********************************************************************
*
* FILENAME:       DuneDriver/jer2_jer2_jer2_tmc/include/soc_jer2_jer2_jer2_tmcapi_fabric.h
*
* MODULE PREFIX:  soc_jer2_jer2_jer2_tmcfabric
*
```

```
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*******************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/TMC/tmc_api_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmSysportArrayEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600NmSysportArrayEntry.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_up_ratelimit.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_up_ratelimit.c
*
* Purpose: examples of two level ratelmits based on upstream.
*        First level ratelimit is done per outer VLAN within LLID.
*        Second level ratelimit is done per LLID.
*
* up ratelimit Test cases:
*    1. Limit traffic of Tunnel 100, Outer VLAN 10 to 20000kbps.
*    2. Limit traffic of Tunnel 100, Outer VLAN 20 to 40000kbps.
*    3. Limit traffic of Tunnel 100, Outer VLAN 30 to 60000kbps.
*    4. Limit traffic of Tunnel 100, Outer VLAN 40 to 100000kbps.
*    5. Limit traffic of Tunnel 100, Outer VLAN 50 to 200000kbps.
*    The whole traffic of Tunnel 100 is limited to 200000kbps.
*
* PP Model: N:1 Service.
*    PON Port 4            <-----------------> NNI Port 128
*    Tunnel-ID 100 CVLAN 10   <--------|
*    Tunnel-ID 100 CVLAN 20   <--------|
```

```
*     Tunnel-ID 100 CVLAN 30   <--------|--------> CVLAN 100
*     Tunnel-ID 100 CVLAN 40   <--------|
*     Tunnel-ID 100 CVLAN 50   <--------|
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_up_ratelimit.c
*     BCM> cint
* To Activate PON service models:
*     cint> pon_up_ratelimit_service_init(0, 4, 128);
*     cint> pon_up_ratelimit_service_setup(0);
* To Activate ACL Classification Run:
*     cint> pon_up_ratelimit_setup(0);
* To Deactivate ACL Classification Run:
*     cint> pon_up_ratelimit_cleanup(0);
* To Dectivate PON service models:
*     cint> pon_up_ratelimit_service_cleanup(0);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_up_ratelimit.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident2_vlan.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2_vlan.c
* Purpose: Maintains all the debug information for vlan
*          feature for trident2.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vlan/trident2_vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hashing.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hashing.c
* Purpose:     Hash calcualtions for trunk and ECMP packets.
```

*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/trident/hashing.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/enduro/hashing.c
No license file was found, but licenses were detected in source scan.

/* $Id: tmc_api_cnm.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/TMC/tmc_api_cnm.h
No license file was found, but licenses were detected in source scan.

/* $Id: sand_cell.h,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/SAND_FM/sand_cell.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/SAND_FM/sand_cell.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: i2cPCF8547Ioport.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.4/i2cPCF8547Ioport.h
No license file was found, but licenses were detected in source scan.

/* $Id: cint_pon_channelized_port.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_channelized_port.c
* Purpose: An example of the PON channlized port application and how to set different properties (VTT lookup

```
mode and VLAN range) per LLID profile based on channelized port.
*       The following CINT provides a calling sequence example to bring up two channelized ports per PON port
and
*       set the different tunnel_id to be mapped to different LLID profile and bring up one main PON services N:1
Model.
*       In this system, ARAD is used in a chip set to provide PON OLT functionality.
*       ARAD ports are either network facing NNI ports (port numbers >= 128) or facing PON ports (port numbers
0-7).
*       Packets on the NNI ports are Ethernet packets, tagged with 0,1 or 2 VLAN tags identify the user and service
(ONU), and class of service.
*       Packets on the PON ports are Ethernet packets with an outermost VLAN-Tag that encodes the Logical Link
Identification (LLID), i.e., service or ONU#.
*       We refer to that tag as the Tunnel-ID (BCM APIs term) or PON-Channel ID (Arch term). The Tunnel-ID is
prepended to the VLAN-Tag stack (as the outermost tag).
*       Tunnel-ID it always present on packets on PON ports, which may have C-Tag and S-Tag as well.
*       When packet is forwarded downstream from NNI-Port to PON-Ports, the incoming VLAN-header from the
NNI port may be retained, stripped, or modified, and a Tunnel-ID is inserted.
*       When packet are forwarded upstream from PON-Port to a NNI-Ports, the Incoming VLAN-header from the
PON port may be retained, stripped, or modified, and the Tunnel-ID is stripped.
*
* Calling sequence:
*
* Initialization:
*  1. Add the following port configureations to config-sand.bcm to enable two channlized ports on PON port 5.
*       ucode_port_129.BCM88650=10GBase-R15
*       ucode_port_5.BCM88650=10GBase-R14.0
*       ucode_port_13.BCM88650=10GBase-R14.1
*  2. Add the following PON application enabling configureations to config-sand.bcm
*       pon_application_support_enabled_5.BCM88650=TRUE
*       vlan_match_criteria_mode=PON_PCP_ETHERTYPE
*  3. PON regular initial routine
*       - call pon_app_init()
*
*
*  4. Create PON PP port with different PON tunnel profile id 0.
*       - call bcm_port_pon_tunnel_add()
*
*  5. Map tunnel id 1000 to PON PP port 5 (indirectly mapped to PON tunnel profile id 0).
*       - call bcm_port_pon_tunnel_map_set()
*  6. Set TPIDs of PON pp port 5.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  7. Set VLAN domain of PON pp port 5 to 5.
*       - call bcm_port_class_set()
*  8. Enable additional port tunnel lookup in PON PP port 5.
*       - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable
*  9. Add VLAN range info to PON PP port if necessary:
```

```
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*
*  10. Map tunnel id 1001 to channelized PON PP port 13 (indirectly mapped to PON tunnel profile id 0).
*       - call bcm_port_pon_tunnel_map_set()
*  11. Set TPIDs of PON pp port 5.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  12. Set VLAN domain of PON pp port 13 to 13.
*       - call bcm_port_class_set()
*  13. Enable additional port tunnel lookup in PON PP port 13.
*       - call bcm_vlan_control_port_set() with bcmVlanPortLookupTunnelEnable
*  14. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*
*
*  15. Create PON PP port with different PON tunnel profile id 1.
*       - call bcm_port_pon_tunnel_add()
*
*  16. Map tunnel id 1002 to PON PP port 21 (indirectly mapped to PON tunnel profile id 1).
*       - call bcm_port_pon_tunnel_map_set()
*  17. Set TPIDs of PON pp port 21.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  18. Set VLAN domain of PON pp port 21to 21.
*       - call bcm_port_class_set()
*  19. Enable ingore inner VLAN tag lookup in PON PP port 21.
*       - call bcm_vlan_control_port_set() with bcmVlanPortIgnoreInnerPktTag
*  20. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*
*  21. Map tunnel id 1003 to channelized PON PP port 29 (indirectly mapped to PON tunnel profile id 1).
*       - call bcm_port_pon_tunnel_map_set()
*  22. Set TPIDs of PON pp port 13.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  23. Set VLAN domain of PON pp port 29 to 29.
*       - call bcm_port_class_set()
*  24. Enable ingore inner VLAN tag lookup in PON PP port 29.
*       - call bcm_vlan_control_port_set() with bcmVlanPortIgnoreInnerPktTag
*  25. Add VLAN range info to PON PP port if necessary:
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*
*
*  26. Create PON PP port with different PON tunnel profile id 2.
*       - call bcm_port_pon_tunnel_add()
```

```
*
*  27. Map tunnel id 1004 to PON PP port 37 (indirectly mapped to PON tunnel profile id 2).
*       - call bcm_port_pon_tunnel_map_set()
*  28. Set TPIDs of PON pp port 37.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  29. Set VLAN domain of PON pp port 37 to 37.
*       - call bcm_port_class_set()
*  30. Set PON pp port 21 to discard all packets.
*       - call bcm_port_discard_set() with BCM_PORT_DISCARD_ALL
*
*  31. Map tunnel id 1005 to PON PP port 45 (indirectly mapped to PON tunnel profile id 2).
*       - call bcm_port_pon_tunnel_map_set()
*  32. Set TPIDs of PON pp port 45.
*       - call bcm_port_tpid_delete_all()
*       - call bcm_port_tpid_add()
*       - call bcm_port_inner_tpid_set()
*  33. Set VLAN domain of PON pp port 45 to 45.
*       - call bcm_port_class_set()
*  34. Set PON pp port 21 to discard all packets.
*       - call bcm_port_discard_set() with BCM_PORT_DISCARD_ALL
*
* 1:1 Service:
* Set up sequence:
*  1. Create PON LIF
*       - Call bcm_vlan_port_create() with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT_TUNNEL,
BCM_VLAN_PORT_MATCH_PORT_TUNNEL_VLAN
*  2. Set PON LIF ingress VLAN editor.
*       - Call bcm_vlan_translate_action_create()
*  3. Set PON LIF egress VLAN editor.
*       - Call bcm_vlan_translate_egress_action_add()
*  4. Create NNI LIF
*       - Call bcm_vlan_port_create()with following criterias:
*         BCM_VLAN_PORT_MATCH_PORT, BCM_VLAN_PORT_MATCH_PORT_VLAN,
BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  5. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete PON LIFs.
*       - Call bcm_vlan_port_destroy()
*  3. Delete NNI LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
```

```
* 1:1 Service:
*    N(1) PON Port 5  <----------------------------  CrossConnect  ------------> 1 NNI Port 129
*    Tunnel-ID 1000 SVLAN 20 PON_PP_PORT 5 <------------------------------------> SVLAN 200
*    Tunnel-ID 1000 SVLAN 20 CVLAN 21 PON_PP_PORT 5 <---------------------------> SVLAN 201 CVLAN 21
*    Tunnel-ID 1000 SVLAN range 50~60 PON_PP_PORT 5 <---------------------------> SVLAN 70
*
*    Tunnel-ID 1001 SVLAN 20 PON_PP_PORT 13 <------------------------------------> SVLAN 210
*    Tunnel-ID 1001 SVLAN 20 CVLAN 21 PON_PP_PORT 13 <---------------------------> SVLAN 202 CVLAN
21
*    Tunnel-ID 1001 SVLAN range 50~60 PON_PP_PORT 13 <---------------------------> SVLAN 500
*
*    Tunnel-ID 1002 SVLAN 30 PON_PP_PORT 21 <------------------------------------> SVLAN 300
*    Tunnel-ID 1002 SVLAN 30 CVLAN 31 PON_PP_PORT 21 <---------------------------> SVLAN 303 CVLAN 31
*    Tunnel-ID 1002 SVLAN range 80~90 PON_PP_PORT 21 <---------------------------> SVLAN 800
*
*    Tunnel-ID 1003 SVLAN 30 PON_PP_PORT 29 <------------------------------------> SVLAN 310
*    Tunnel-ID 1003 SVLAN 30 CVLAN 31 PON_PP_PORT 29 <---------------------------> SVLAN 304 CVLAN 31
*    Tunnel-ID 1003 SVLAN range 80~90 PON_PP_PORT 29 <---------------------------> SVLAN 1000
*
*    Tunnel-ID 1004 SVLAN 40 PON_PP_PORT 37 <------------------------------------> SVLAN 400
*    Tunnel-ID 1005 SVLAN 40 PON_PP_PORT 45 <------------------------------------> SVLAN 410
*
* Traffic:
*  1. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN 20 <-CrossConnect-> NNI Port 129 SVLAN 200
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 20
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 200
*
*  2. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN 20 CVLAN 21 <-CrossConnect-> NNI Port 129 SVLAN
201 CVLAN 21
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*      - From NNI port:
*          -  ethernet header with any DA, SA
*          -  VLAN tag: VLAN tag type 0x8100, VID = 201, VLAN tag type 0x9100, VID = 21
*
*  3. PON Port 5 PON PP Port 5 Tunnel-ID 1000 SVLAN range 50~60 <-CrossConnect-> NNI Port 129 SVLAN 70
*      - From PON port:
*          -  ethernet header with any DA, SA
*          -  Tunnel ID:1000
*          -  VLAN tag: VLAN tag type 0x8100, VID = 55
*      - From NNI port:
```

```
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 70
*
*  4. PON Port 5 PON PP Port 13 Tunnel-ID 1001 SVLAN 20 <-CrossConnect-> NNI Port 129 SVLAN 210
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 210
*
*  5. PON Port 5 PON PP Port 13 Tunnel-ID 1001 SVLAN 20 CVLAN 21 <-CrossConnect-> NNI Port 129
SVLAN 202 CVLAN 21
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 20, VLAN tag type 0x9100, VID = 21
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 202, VLAN tag type 0x9100, VID = 21
*
*  6. PON Port 5 PON PP Port 13 Tunnel-ID 1001 SVLAN range 50~60 <-CrossConnect-> NNI Port 129 SVLAN
500
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1001
*           -   VLAN tag: VLAN tag type 0x8100, VID = 55
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 500
*
*  7. PON Port 5 PON PP Port 21 Tunnel-ID 1002 SVLAN 30 <-CrossConnect-> NNI Port 129 SVLAN 300
*       - From PON port:
*           -   ethernet header with any DA, SA
*           -   Tunnel ID:1002
*           -   VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From NNI port:
*           -   ethernet header with any DA, SA
*           -   VLAN tag: VLAN tag type 0x8100, VID = 300
*
*  8. PON Port 5 PON PP Port 21 Tunnel-ID 1002 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129
SVLAN 303 CVLAN 31
*    - Upstream is matched by Port 5 Tunnel-ID 1002 SVLAN 30 <--CrossConnect--> NNI Port 129 SVLAN 300,
becasue LLID profile ingore 2nd VLAN tag.
*    - Packets received in NNI port have outer VLAN 30, inner VLAN 31, because matched service doesn't have
double tag modifications.
*       - From PON port:
```

```
*           - ethernet header with any DA, SA
*           - Tunnel ID:1001
*           - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*    - Downstrean is macthed by NNI Port 129 SVLAN 303 CVLAN 31 <--CrossConnect--> Port 5 Tunnel-ID 1002
SVLAN 30 CVLAN 31.
*    - Packets received in PON port have outer VLAN 30, inner VLAN 31.
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*  9. PON Port 5 PON PP Port 21 Tunnel-ID 1002 SVLAN range 80~90 <-CrossConnect-> NNI Port 129 SVLAN
800
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1002
*           - VLAN tag: VLAN tag type 0x8100, VID = 85
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 800
*
*  10. PON Port 5 PON PP Port 29 Tunnel-ID 1003 SVLAN 30 <-CrossConnect-> NNI Port 129 SVLAN 310
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1003
*           - VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 310
*
*  11. PON Port 5 PON PP Port 29 Tunnel-ID 1003 SVLAN 30 CVLAN 31 <-CrossConnect-> NNI Port 129
SVLAN 304 CVLAN 31
*    - Upstream is matched by Port 5 Tunnel-ID 1003 SVLAN 30 <--CrossConnect--> NNI Port 129 SVLAN 310,
becasue LLID profile ingore 2nd VLAN tag.
*    - Packets received in NNI port have outer VLAN 30, inner VLAN 31, because matched service doesn't have
double tag modifications.
*       - From PON port:
*           - ethernet header with any DA, SA
*           - Tunnel ID:1003
*           - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*    - Downstrean is macthed by NNI Port 129 SVLAN 304 CVLAN 31 <--CrossConnect--> Port 5 Tunnel-ID 1003
SVLAN 30 CVLAN 31.
*    - Packets received in PON port have outer VLAN 30, inner VLAN 31.
*       - From NNI port:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 30, VLAN tag type 0x9100, VID = 31
*  12. PON Port 5 PON PP Port 29Tunnel-ID 1003 SVLAN range 800~900 <-CrossConnect-> NNI Port 129
SVLAN 1000
*       - From PON port:
*           - ethernet header with any DA, SA
```

```
*            -   Tunnel ID:1003
*            -   VLAN tag: VLAN tag type 0x8100, VID = 855
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 1000
*
*  13. PON Port 5 PON PP Port 27 Tunnel-ID 1004 SVLAN 40 <-CrossConnect-> NNI Port 129 SVLAN 400
*    - Upstream is dropped, becasue PON pp port 21 drops all packets.
*       - From PON port:
*            -   ethernet header with any DA, SA
*            -   Tunnel ID:1004
*            -   VLAN tag: VLAN tag type 0x8100, VID = 40
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 400
*
*  14. PON Port 5 PON PP Port 45 Tunnel-ID 1005 SVLAN 40 <-CrossConnect-> NNI Port 129 SVLAN 410
*    - Upstream is dropped, becasue PON pp port 21 drops all packets.
*       - From PON port:
*            -   ethernet header with any DA, SA
*            -   Tunnel ID:1005
*            -   VLAN tag: VLAN tag type 0x8100, VID = 40
*       - From NNI port:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 410
*
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_pon_utils.c
*     BCM> cint examples/dpp/cint_pon_channelized_port.c
*     BCM> cint
*     cint> pon_tunnel_channelized_service_init(unit, pon_port, nni_port);
*     cint> pon_tunnel_channelized_mapping_1_1_service(unit);
*     cint> pon_tunnel_channelized_mapping_1_1_service_cleanup(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_channelized_port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd_pack.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd_pack.h
```

```
* Purpose:     Interface to pack and unpack routines common to
*             SDK and uKernel for:
*             - BFD Control messages
*             - Network Packet headers
*
*             This is to be shared between SDK host and uKernel.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/bfd_pack.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcmn_defs.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dma.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  dma.c
* Purpose:  Commands for low-level DMA-able memory control
*
* code taken from esw
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/dma.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_ingress_packet_queuing.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_api_ingress_packet_queuing.c
No license file was found, but licenses were detected in source scan.

```
#/*----------------------------------------------------------------------
# * $Id: fs_10g_cl72_fec.soc $
# *
# * $Copyright: (c) 2016 Broadcom.
# * Broadcom Proprietary and Confidential. All rights reserved.$
# *
# * Broadcom Corporation
# * Proprietary and Confidential information
# * All rights reserved
# * This source file is the property of Broadcom Corporation, and
# * may not be copied or distributed in any isomorphic form without the
# * prior written consent of Broadcom Corporation.
# *----------------------------------------------------------------------
# * File       : fs_10g_cl72_fec.soc
# * Description: fs_10g_cl72_fec
# *----------------------------------------------------------------------*/

link off
local port xe4,xe8


#To Enable CL72
phy $port  0x8000096 0x3

#To Enable FEC. Enable FEC, and set block sync for FEC
phy $port  0xc134 0x2874
phy  $port 0xc113 0x05cb

#Restart Speed Change
phy $port  0xc050 0x1c
phy $port  0xc050 0x11c


phy $port  0xc051  #0x0003
#burst err
#phy $port  0xc143  #0x0009

#read the cl72 status
phy xe4,xe8 0xc072
phy xe4,xe8 0x8000096
```

```
phy xe4,xe8 0x8000097

#FEC Error injection
#phy xe4,xe8  0x9045  0x2

#inject error on lane 0/ports xe4,xe8
#phy xe4,xe8  0x9032  0x24
#phy xe4,xe8  0x9032  0x4
#phy xe4,xe8  0x9032  0x24
#phy xe4,xe8  0x9032  0x4
#phy xe4  0x9032  0x24
#phy xe4  0x9032  0x4

#Read the clear on read,Error Counter
#phy xe4,xe8  0xc157
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/examples/soc_scripts/fs_10g_cl72_fec.soc
No license file was found, but licenses were detected in source scan.

/**********
*
* Copyright 2011-2017 Broadcom Corporation
*
* This program is the proprietary software of Broadcom Corporation and/or its
* licensors, and may only be used, duplicated, modified or distributed pursuant
* to the terms and conditions of a separate, written license agreement executed
* between you and Broadcom (an "Authorized License"). Except as set forth in an
* Authorized License, Broadcom grants no license (express or implied), right to
* use, or waiver of any kind with respect to the Software, and Broadcom expressly
* reserves all rights in and to the Software and all intellectual property rights
* therein. IF YOU HAVE NO AUTHORIZED LICENSE, THEN YOU HAVE NO RIGHT TO USE THIS
* SOFTWARE IN ANY WAY, AND SHOULD IMMEDIATELY NOTIFY BROADCOM AND DISCONTINUE
* ALL USE OF THE SOFTWARE.
*
* Except as expressly set forth in the Authorized License,
*
* 1.   This program, including its structure, sequence and organization,
* constitutes the valuable trade secrets of Broadcom, and you shall use all
* reasonable efforts to protect the confidentiality thereof, and to use this
* information only in connection with your use of Broadcom integrated circuit
* products.
*
* 2.   TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE SOFTWARE IS PROVIDED
* "AS IS" AND WITH ALL FAULTS AND BROADCOM MAKES NO PROMISES, REPRESENTATIONS
* OR WARRANTIES, EITHER EXPRESS, IMPLIED, STATUTORY, OR OTHERWISE, WITH RESPECT
* TO THE SOFTWARE. BROADCOM SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED

WARRANTIES
* OF TITLE, MERCHANTABILITY, NONINFRINGEMENT, FITNESS FOR A PARTICULAR PURPOSE,
* LACK OF VIRUSES, ACCURACY OR COMPLETENESS, QUIET ENJOYMENT, QUIET POSSESSION
* OR CORRESPONDENCE TO DESCRIPTION. YOU ASSUME THE ENTIRE RISK ARISING OUT OF
* USE OR PERFORMANCE OF THE SOFTWARE.
*
* 3. TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL BROADCOM
* OR ITS LICENSORS BE LIABLE FOR (i) CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT,
* OR EXEMPLARY DAMAGES WHATSOEVER ARISING OUT OF OR IN ANY WAY RELATING TO
YOUR
* USE OF OR INABILITY TO USE THE SOFTWARE EVEN IF BROADCOM HAS BEEN ADVISED OF
* THE POSSIBILITY OF SUCH DAMAGES; OR (ii) ANY AMOUNT IN EXCESS OF THE AMOUNT
* ACTUALLY PAID FOR THE SOFTWARE ITSELF OR U.S. $1, WHICHEVER IS GREATER. THESE
* LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF
* ANY LIMITED REMEDY.
*
**********/

KBP_INC_SEL(KBP_OK, "all ok")
KBP_INC_SEL(KBP_INVALID_ARGUMENT, "invalid or null argument")
KBP_INC_SEL(KBP_OUT_OF_MEMORY, "could not allocate any more memory")
KBP_INC_SEL(KBP_INTERNAL_ERROR, "unexpected internal error")
KBP_INC_SEL(KBP_FATAL_TRANSPORT_ERROR, "Fatal error occurred in transport layer")
KBP_INC_SEL(KBP_EXCEEDED_RANGES, "exceeded maximum number of ranges supported by hardware")
KBP_INC_SEL(KBP_DUPLICATE, "duplicate entry")
KBP_INC_SEL(KBP_INVALID_FILE, "File does not exist or has incorrect permissions")
KBP_INC_SEL(KBP_INVALID_FORMAT, "ACL file has unrecognized format")
KBP_INC_SEL(KBP_UNALIGNED_RANGE, "Range offset is not aligned to 16 bit boundary")
KBP_INC_SEL(KBP_MISMATCH, "Search key does not match")
KBP_INC_SEL(KBP_MATCH, "Search key matches")
KBP_INC_SEL(KBP_OUT_OF_INDEX, "Exhausted index range available to database")
KBP_INC_SEL(KBP_OUT_OF_UDA, "Exhausted UDA resources available to database")
KBP_INC_SEL(KBP_OUT_OF_AD, "Exhausted AD resources available ")
KBP_INC_SEL(KBP_OUT_OF_HITBIT, "Exhausted Hitbit resources available ")
KBP_INC_SEL(KBP_OUT_OF_DBA, "Exhausted DBA resources available to database")
KBP_INC_SEL(KBP_OUT_OF_UIT, "Exhausted UIT resources available to database")
KBP_INC_SEL(KBP_LSN_FULL, "Exhausted space in the LSN")
KBP_INC_SEL(KBP_PARSE_ERROR, "Error parsing file")
KBP_INC_SEL(KBP_INVALID_SEARCH_SPEC, "Invalid search scenario specification")
KBP_INC_SEL(KBP_INVALID_TABLE_SPEC, "Invalid table specification")
KBP_INC_SEL(KBP_KEY_FIELD_MISSING, "a database key field is missing from the master key")
KBP_INC_SEL(KBP_KEY_GRAN_ERROR, "database key can be derived from the master key only from byte boundaries")
KBP_INC_SEL(KBP_NUM_SEARCHES_EXCEEDED, "number of searches specified for an LTR can't be handled by the device")
KBP_INC_SEL(KBP_NUM_SEARCHES_EXCEEDED_ON_SMT, "number of searches specified on SMT mode can't be handled by the device")
KBP_INC_SEL(KBP_DUPLICATE_KEY, "key for database/instruction already created")

KBP_INC_SEL(KBP_DUPLICATE_INSTRUCTION_ID, "instruction with same id already encountered")
KBP_INC_SEL(KBP_LTR_BUSY, "requested LTR is already in use")
KBP_INC_SEL(KBP_INVALID_LTR_ID, "LTR Identifier specified is invalid")
KBP_INC_SEL(KBP_INVALID_CB_ADDRESS, "Context Buffer address specified is invalid")
KBP_INC_SEL(KBP_INVALID_DEVICE_TYPE, "device type specified is invalid")
KBP_INC_SEL(KBP_INVALID_RESOURCE_DBA, "invalid DBA resource specified")
KBP_INC_SEL(KBP_INVALID_RESOURCE_UDA, "invalid UDA memory range specified")
KBP_INC_SEL(KBP_INVALID_RESOURCE_LSN, "invalid Max LSN width specified")
KBP_INC_SEL(KBP_INVALID_RESOURCE_RANGE_UNITS, "invalid range unit resources specified")
KBP_INC_SEL(KBP_DB_ACTIVE, "database already active on the device")
KBP_INC_SEL(KBP_INVALID_KEY, "missing/invalid key specification")
KBP_INC_SEL(KBP_INVALID_MASTER_KEY, "missing/invalid master key specification")
KBP_INC_SEL(KBP_ENTRY_ALREADY_ACTIVE, "cannot add Associated Data as the entry is already active")
KBP_INC_SEL(KBP_DUPLICATE_DB_ID, "database with same ID already encountered")
KBP_INC_SEL(KBP_KEY_WIDTH_UNSUPPORTED, "key width specified for database not supported")
KBP_INC_SEL(KBP_TOO_MANY_KEY_FIELDS, "exceeded the number of key fields that can be supported")
KBP_INC_SEL(KBP_TOO_MANY_AD, "more than supported number of associated data databases are being added to a single ACL/LPM or EM database")
KBP_INC_SEL(KBP_TOO_MANY_INSTRUCTIONS, "more than supported number of instructions")
KBP_INC_SEL(KBP_UNSUPPORTED_AD_SIZE, "requested AD size cannot be supported")
KBP_INC_SEL(KBP_INVALID_COMPARE3_SCHEDULE, "instruction requires compare3 instruction. compare3 supports only a maximum of two greater than 320b ACL database searches along with upto four lesser than 320b database searches. The instruction violates the requirements")
KBP_INC_SEL(KBP_ADV_PWR_CTRL_NOT_SUPPORTED_IN_COMPARE3, "in compare3 instruction advanced power control database is not supported")
KBP_INC_SEL(KBP_EXCEEDED_MAX_SEARCHES, "exceeded maximum number of databases that can be searched by the instruction")
KBP_INC_SEL(KBP_EXCEEDED_MAX_LPM_SEARCHES, "exceeded maximum number of LPM databases that can be schedules by the instruction")
KBP_INC_SEL(KBP_EXCEEDED_MAX_ADVANCED_PWR_CTL_SEARCHES, "exceeded maximum number of advanced power control databases that can be scheduled by the instruction")
KBP_INC_SEL(KBP_RESULT_NOT_VALID, "cannot honor the result number requested")
KBP_INC_SEL(KBP_EXCEEDED_AGGREGATE_AD_WIDTH, "maximum AD return bandwidth exceeded")
KBP_INC_SEL(KBP_UNSUPPORTED, "Operation not supported")
KBP_INC_SEL(KBP_DEVICE_UNLOCKED, "device configuration has not been locked")
KBP_INC_SEL(KBP_DEVICE_ALREADY_LOCKED, "device configuration is already locked")
KBP_INC_SEL(KBP_RESOURCE_FIT_FAIL, "failed to fit database resources on chip")
KBP_INC_SEL(KBP_UDA_POWER_BUDGET_SATISFY_FAIL, "failed to satisfy uda power budget limit")
KBP_INC_SEL(KBP_DBA_POWER_BUDGET_SATISFY_FAIL, "failed to satisfy dba power budget limit")
KBP_INC_SEL(KBP_EXCESSIVE_DB_DUPLICATION, "database need to be duplicated multiple times")
KBP_INC_SEL(KBP_INVALID_REGISTER_ADDRESS, "invalid register address")
KBP_INC_SEL(KBP_LINK_UP, "KBP interface link up")
KBP_INC_SEL(KBP_LINK_DOWN, "KBP interface link down")
KBP_INC_SEL(KBP_EXHAUSTED_PCM_RESOURCE, "Out of power control module resources")
KBP_INC_SEL(KBP_NOT_SAME_THREAD, "databases/instructions do not belong to the same thread")
KBP_INC_SEL(KBP_DUPLICATE_KEY_FIELD, "Key field with same name already encountered")
KBP_INC_SEL(KBP_INCONSISTENT_TABLE_ID_OFFSET, "Table ID field in the table keys are at different offsets")

KBP_INC_SEL(KBP_INCONSISTENT_TABLE_ID_WIDTH, "Table IF field widths differ in the table keys")
KBP_INC_SEL(KBP_TOO_MANY_TABLE_ID, "Expect only a single key field to be identified as table ID")
KBP_INC_SEL(KBP_MISSING_KEY, "Missing key specification for database. Perhaps the entry must be added to a table of this database.")
KBP_INC_SEL(KBP_XPT_REQUEST_ERROR, "XPT returned an error when getting a request pointer")
KBP_INC_SEL(KBP_XPT_RESULT_ERROR, "XPT returned an error when getting a result pointer")
KBP_INC_SEL(KBP_INVALID_KEY_WIDTH, "Invalid Key Width or requested key width exceeded the constrained width")
KBP_INC_SEL(KBP_INVALID_RANGE, "may be the values specified might be wrong")
KBP_INC_SEL(KBP_ONE_ADDB_PER_DB, "An Ad database can only be added to one ACL/LPM/EM database for now. This may be supported in the future")
KBP_INC_SEL(KBP_AD_ALREADY_ADDED, "Associated data previously added to entry")
KBP_INC_SEL(KBP_AD_NOT_YET_ADDED, "Associated data has not yet been added to the entry")
KBP_INC_SEL(KBP_AD_ENTRY_ACTIVE, "Associated data entry still in use")
KBP_INC_SEL(KBP_AD_DB_ABSENT, "An AD Database has not been associated with the ACL/LPM/EM database")
KBP_INC_SEL(KBP_EXCEEDED_INTERFACE_RESPONSE_BANDWIDTH, "The response data width exceeds the interface bandwidth requirements")
KBP_INC_SEL(KBP_MISSING_TABLE_ID_FIELD, "There is no field with KBP_KEY_FIELD_TABLE_ID in the DB Key of the Table")
KBP_INC_SEL(KBP_DYNAMIC_UNSUPPORTED, "Dynamic database size specified using zero capacity is not yet supported")
KBP_INC_SEL(KBP_DUPLICATE_TABLE_ID, "Table with same ID already encountered")
KBP_INC_SEL(KBP_SMT_DISABLED, "SMT feature in the device has not been enabled")
KBP_INC_SEL(KBP_DUPLICATE_THREAD_ID, "Thread with specified ID already encountered")
KBP_INC_SEL(KBP_UNSUPPORTED_THREAD_ID, "Thread ID requested is too large or unsupported by device")
KBP_INC_SEL(KBP_BATCH_MODE_UNSUPPORTED, "Running in batch mode is not supported for this database")
KBP_INC_SEL(KBP_ENTRY_MISSING_RANGE, "Entry has ranges which have not been specified")
KBP_INC_SEL(KBP_INSTRUCTION_ALREADY_INSTALLED, "Install already called on the instruction")
KBP_INC_SEL(KBP_KEY_ALREADY_SET, "Key is already set to the database")
KBP_INC_SEL(KBP_INSTRUCTION_NO_DB, "Instruction has no databases added to it")
KBP_INC_SEL(KBP_INSTRUCTION_NOT_INSTALLED, "Instruction(s) have not been installed before calling device lock")
KBP_INC_SEL(KBP_DEVICE_NO_INSTRUCTIONS, "No instructions have been added to the device")
KBP_INC_SEL(KBP_DEVICE_NO_DB, "No databases have been added to the device")
KBP_INC_SEL(KBP_MISSING_KEY_FIELD, "Database key has been defined with no fields")
KBP_INC_SEL(KBP_LPM_TERNARY, "Ternary key fields not permitted for LPM database")
KBP_INC_SEL(KBP_LPM_RANGE, "Range key fields not permitted for LPM database")
KBP_INC_SEL(KBP_LPM_INVALID_KEY_FORMAT, "Key type prefix is followed by other key types")
KBP_INC_SEL(KBP_MULTIPLE_PREFIX_FIELDS, "Multiple prefix key fields not permitted for LPM database")
KBP_INC_SEL(KBP_MULTIPLE_TBLID_FIELDS, "Multiple table id key fields not permitted for LPM database")
KBP_INC_SEL(KBP_SMT_CONFIG_FAIL, "Unable to program SMT thread mapping to device")
KBP_INC_SEL(KBP_LPM_SMT1_UNSUPPORTED, "LPM on thread 1 not supported for 12K")
KBP_INC_SEL(KBP_PREFIX_NOT_FOUND, "Prefix entry handle not found")

KBP_INC_SEL(KBP_RANGE_ALREADY_SPECIFIED, "Requested Range Number has already been specified for this entry")
KBP_INC_SEL(KBP_CLONE_KEY_FORMAT_MISMATCH, "Cloned database key layout does not match the parent database")
KBP_INC_SEL(KBP_SPECIFY_CASCADE_FOR_ALL_DB, "The property KBP_PROP_CASCADE_DEVICE must be specified for all databases")
KBP_INC_SEL(KBP_INVALID_CASCADE_NUM, "cascaded device number specified is outside the number of available devices")
KBP_INC_SEL(KBP_INVALID_INDEX_RANGE, "Index range specified is not valid")
KBP_INC_SEL(KBP_CASCADE_FLAG_NOT_SET, "device init is not configured for cascade of devices")
KBP_INC_SEL(KBP_MORE_THAN_TWO_CLONES_IN_SRCH, "Search inst has more than 2 parent-clone combination")
KBP_INC_SEL(KBP_PARENT_CLONE_WIDTH_NOT_SUPPORTED, "Search inst has parent and clone, where width is more than 320b")
KBP_INC_SEL(KBP_PARENT_CLONE_PARALLEL_SRCH_NOT_SUPPORTED, "Search inst has parent and clone, configured in same LTR for comapare3")
KBP_INC_SEL(KBP_INVALID_DCR_CONFIG_REG, "DCR register values are improper, check serdes init for DCR register")
KBP_INC_SEL(KBP_NBO_BIT_NOT_ENABLED, "NBO bit is not set, check the device configuration")
KBP_INC_SEL(KBP_SMT_BIT_NOT_ENABLED, "SMT bit is not set, check the device configuration")
KBP_INC_SEL(KBP_DUAL_PORT_BIT_NOT_ENABLED, "Either Dual port bit not set or port0:port1 != 1, check the device configuration")
KBP_INC_SEL(KBP_IDX_SUPPRESSION_BIT_NOT_ENABLED, "Index supression bit not set, check the device configuration")
KBP_INC_SEL(KBP_RANGE_BIT_NOT_ENABLED, "Range bit not set, check the device configuration")
KBP_INC_SEL(KBP_DEVICE_IDENTITY_FAILED, "Device identification failed, whether it is first/last device")
KBP_INC_SEL(KBP_SERDES_RESET_FAIL, "Unable to reset serdes")
KBP_INC_SEL(KBP_SERDES_POWER_UP_FAIL, "Cannot power up serdes lanes")
KBP_INC_SEL(KBP_MDIO_RW_TEST_FAIL, "Simple MDIO read/write test failed. Please check your MDIO connections")
KBP_INC_SEL(KBP_CUSTOM_RANGE_WITH_AD, "Specifying custom index range is not supported when associated data is also specified")
KBP_INC_SEL(KBP_CLONE_PARENT_KEY_MISSING, "The database/table for which this clone key is being defined should have its key specified first")
KBP_INC_SEL(KBP_ISSU_RESTORE_REQUIRED, "ISSU Restore needs to called before Reconcile Start")
KBP_INC_SEL(KBP_ISSU_RECONCILE_REQUIRED, "Reconcile Start needs to called before Reconcile End")
KBP_INC_SEL(KBP_ISSU_RESTORE_DONE, "ISSU Restore performed already")
KBP_INC_SEL(KBP_DEVICE_NOT_EMPTY, "Cannot Perform ISSU Restore, DB/Instructions already present in device")
KBP_INC_SEL(KBP_RECONCILE_NOT_STARTED, "Reconcile Phase not yet started")
KBP_INC_SEL(KBP_NV_READ_WRITE_FAILED, "Error in NV Read/Write Operation")
KBP_INC_SEL(KBP_NV_DATA_CORRUPT, "NV Data for ISSU is corrupt")
KBP_INC_SEL(KBP_INVALID_PREFIX_LENGTH, "Prefix length specified is greater than key length or invalid")
KBP_INC_SEL(KBP_ISSU_IN_PROGRESS, "ISSU is in progress, API is not allowed")
KBP_INC_SEL(KBP_DEVICE_NO_SKIP_INIT_FLAG, "Initialize the device with skip_init_flag")
KBP_INC_SEL(KBP_INSTRUCTION_BUSY, "For requested instruction, Db is active")
KBP_INC_SEL(KBP_ISSU_MISMATCH, "Mismatch between saved and restored data")

KBP_INC_SEL(KBP_DB_ALREADY_ADDED_TO_INSTRUCTION, "Database is already added to instructions")
KBP_INC_SEL(KBP_ISFR_AB_CANNOT_REPAIR, "Specified AB location cannot repaired")
KBP_INC_SEL(KBP_PWR_MODE_CANNOT_BE_SUPPORTED, "Power control mode cannot be supported")
KBP_INC_SEL(KBP_CONFLICTING_SEARCH_PORTS, "Multiple Databases being searched from the same search Interface")
KBP_INC_SEL(KBP_OUT_OF_BMRS, "Exhausted block mask resources on chip")
KBP_INC_SEL(KBP_INVALID_LTR_NUMBER, "Exceeded the supported LTR value")
KBP_INC_SEL(KBP_TABLE_ID_AS_HOLE_UNSUPPORTED, "Table id cannot defined as hole in key of clone, can't block mask")
KBP_INC_SEL(KBP_RANGE_FILEDS_AS_HOLE_UNSUPPORTED, "Range fields cannot defined as hole in key of clone, can't block mask")
KBP_INC_SEL(KBP_LPM_KEY_WITH_HOLE_UNSUPPORTED, "NetRoute algorithemic key cannot have hole in key, can't block mask")
KBP_INC_SEL(KBP_PENDING_ENTRY, "Entry not yet installed, read from device will have junk data")
KBP_INC_SEL(KBP_HW_SHADOW_DATA_MISMATCH, "Data from the device is not matching with the shadow memory content")
KBP_INC_SEL(KBP_INVALID_AD_WIDTH, "Provided AD width is not multiple of 32b")
KBP_INC_SEL(KBP_EXCEEDED_MAX_PARALLEL_SEARCHES, "Databases, Clones and Tables belonging to the same database being searched excessively in parallel")
KBP_INC_SEL(KBP_WR_REG_ERROR, "Error writing to device register")
KBP_INC_SEL(KBP_WR_DBA_ERROR, "Error writing to device database entry")
KBP_INC_SEL(KBP_WR_UDA_ERROR, "Error writing to device uda")
KBP_INC_SEL(KBP_READ_REG_ERROR, "Error reading from device register")
KBP_INC_SEL(KBP_READ_DBA_ERROR, "Error reading from DBA")
KBP_INC_SEL(KBP_READ_UDA_ERROR,"Error reading from UDA")
KBP_INC_SEL(KBP_SEARCH_ERROR, "Error searching")
KBP_INC_SEL(KBP_VALID_BIT_NOT_MATCH, "Response valid bit doesn't match to the expectation")
KBP_INC_SEL(KBP_PARITY_NOT_MATCH, "Response parity doesn't match to the expectation")
KBP_INC_SEL(KBP_DATA_NOT_MATCH, "Response data doesn't match to the expectation")
KBP_INC_SEL(KBP_NO_RESP, "No response from the device")
KBP_INC_SEL(KBP_PARITY_ERROR, "Parity error flagged reading the entry")
KBP_INC_SEL(KBP_POLL_TIME_OUT, "Time out Polling a register")
KBP_INC_SEL(KBP_UNSUPPORTED_DEVICE, "Device not supported")
KBP_INC_SEL(KBP_INVALID_DEVICE_PTR, "Invalid device handle")
KBP_INC_SEL(KBP_INVALID_DEVICE_DESC_PTR, "Invalid device description pointer")
KBP_INC_SEL(KBP_INVALID_FLAGS, "Invalid device flag passed")
KBP_INC_SEL(KBP_INVALID_KEY_TYPE, "Invalid key field type")
KBP_INC_SEL(KBP_INVALID_DEVICE_COUNT, "Invalid device count")
KBP_INC_SEL(KBP_INVALID_DB_TYPE, "Invalid database type")
KBP_INC_SEL(KBP_INVALID_INSTRUCTION, "Invalid kbp instruction")
KBP_INC_SEL(KBP_INVALID_AB_NUMBER, "Invalid AB number accessed")
KBP_INC_SEL(KBP_INVALID_META_LEN, "Invalid meta frame length")
KBP_INC_SEL(KBP_INVALID_BURST_RATE, "Invalid burst rate value")
KBP_INC_SEL(KBP_INVALID_SERDES_SPEED, "Invalid serdes speed")
KBP_INC_SEL(KBP_INVALID_LTR_REG_TYPE, "Invalid LTR register type")
KBP_INC_SEL(KBP_INVALID_LANE_VALUE, "Number of lanes requested is non multiple of four")
KBP_INC_SEL(KBP_INVALID_DUAL_PORT_LANE_VALUE, "Invalid dual port lane value")

KBP_INC_SEL(KBP_ADD_DEL_ENTRY_TO_CLONE_DB, "Entry can't added or deleted from the clone database")
KBP_INC_SEL(KBP_AB_NOT_FOUND, "Unable to find the requested AB")
KBP_INC_SEL(KBP_UNIT_NOT_FOUND, "Unable to find the requested unit")
KBP_INC_SEL(KBP_INVALID_NUM_LANE, "Invalid value for number of lanes")
KBP_INC_SEL(KBP_INVALID_START_LANE, "Invalid value for start lane")
KBP_INC_SEL(KBP_MEM_BIST_TOO_MANY_PARITY, "KBP returned too many parity errors read from soft error fifo register")
KBP_INC_SEL(KBP_EXCEED_MAX_LANES, "Exceedes the maximum number of lanes")
KBP_INC_SEL(KBP_UNSUPPORTED_DMA_WIDTH, "Unsupported width for DMA database")
KBP_INC_SEL(KBP_DB_NOT_ASSOCIATED, "Database not being searched in any Instruction")
KBP_INC_SEL(KBP_EXHAUSTED_KPU_RESOURCE, "Out of KPU resources")
KBP_INC_SEL(KBP_EXCEEDED_MAX_AD_BYTES, "AD Width for result ports 4-7 are limited to 128b")
KBP_INC_SEL(KBP_EXCEEDED_MAX_AD_BYTES_SMT, "Cumulative AD Width of thread-0 and thread-1 is more than what device can support")
KBP_INC_SEL(KBP_DRIVER_BUSY, "Driver Already in Use or Not Intialized")
KBP_INC_SEL(KBP_CONTEXT_ID_MISMATCH, "Mismatch between expected and actual contexid")
KBP_INC_SEL(KBP_DB_HANDLE_NOT_FOUND, "Unable to find the database handle for given hw index")
KBP_INC_SEL(KBP_DB_ENTRY_HANDLE_NOT_FOUND, "Unable to find the database entry handle for given hw index")
KBP_INC_SEL(KBP_COMPLEX_INSTR_ERROR, "Invalid Response for Complex Instruction")
KBP_INC_SEL(KBP_INVALID_INSTR_OPCODE, "Invalid Instruction Opcode")
KBP_INC_SEL(KBP_INVALID_RESOURCE_BMP,"Invalid resource bitmap specified")
KBP_INC_SEL(KBP_INVALID_DBA_BMP,"Invalid DBA bitmap specified")
KBP_INC_SEL(KBP_INVALID_UDA_BMP,"Invalid UDA bitmap specified")
KBP_INC_SEL(KBP_INVALID_USB_BMP,"Invalid USB bitmap specified")
KBP_INC_SEL(KBP_RESOLUTION_NOT_POSSIBLE, "Resolution is not possible")
KBP_INC_SEL(KBP_EXHAUSTED_DBA_PARALLEL_RESOURCES, "Exhausted DBA parallel lookup resources")
KBP_INC_SEL(KBP_INVALID_HANDLE, "Invalid Entry Handle")
KBP_INC_SEL(KBP_INVALID_META_PRIORITY, "Specified meta priority value is out of range")
KBP_INC_SEL(KBP_INVALID_PRIORITY, "Incorrect priority value")
KBP_INC_SEL(KBP_PARITY_FIFO_LIMIT_EXCEEDED, "Parity fifo limit exceeded")
KBP_INC_SEL(KBP_PARITY_FIFO_ENTRY_INVALID_IN_LIMIT, "Read fifo entry in invalid but the count still non zero")
KBP_INC_SEL(KBP_EXCEEDED_INDIRECTION, "Too much of indirection is not supported")
KBP_INC_SEL(WIDE_ACL_CONCURRENT_SEARCH_NOT_SUPPORTED, "concurrent search for wide ACL DB not supported")
KBP_INC_SEL(KBP_RESPONSE_OUT_OF_ORDER, "Response is out of order")
KBP_INC_SEL(KBP_TOO_MANY_HB, "more than supported number of hit bit databases are being added to a single LPM database")
KBP_INC_SEL(KBP_ONE_HB_DB_PER_DB, "An HB database can only be added to one LPM database")
KBP_INC_SEL(KBP_NEED_AD_FOR_HB, "First need to add AD to an entry before HB")
KBP_INC_SEL(KBP_HB_DB_ABSENT, "An HB Database has not been associated with the LPM database")
KBP_INC_SEL(KBP_HB_NO_AD, "First need to add AD Database before HB Database")
KBP_INC_SEL(KBP_DB_FULL, "Can't add any more entries to the DB since the DB has reached maximum capacity")
KBP_INC_SEL(KBP_DB_BROADCAST_AT_LOWER_INDEX_DEV, "A DB can be broadcasted only to a

higher index device")
KBP_INC_SEL(KBP_DB_BROADCAST_LPM_NOT_IN_ALL_DEVICES, "In LPM broadcast, all LPM DB has to be broadcasted in all the devices")
KBP_INC_SEL(KBP_TABLES_CREATION_NOT_ALLOWED, "Additional tables cannot be created once instructions have been added to the database or to any of the tables within the database")
KBP_INC_SEL(KBP_TOO_MANY_HALF_DBS, "more than supported number of paired databases are added")
KBP_INC_SEL(KBP_DB_ALREADY_PAIRED, "Paired database already exists for this database")
KBP_INC_SEL(KBP_DB_PAIRING_NOT_POSSIBLE, "Db pairing is not possible")
KBP_INC_SEL(KBP_EXCEEDED_AGGREGATE_HALF_DB_WIDTH, "Paired databases aggregate db width exceeded supported value")
KBP_INC_SEL(KBP_DB_HAS_NO_HB, "Adding a hit bit to an entry is not expected")
KBP_INC_SEL(KBP_EXHAUSTED_NV_MEMORY, "Exhausted NV Memory")
KBP_INC_SEL(KBP_DUMMY_FILL_FIELD_UNSUPPORTED, "Dummy fill supported only for instructions and not databases")
KBP_INC_SEL(KBP_INVALID_RESET_MODE, "Core Reset is invalid for Direct PCIe initf")
KBP_INC_SEL(KBP_TOO_MANY_DBS, "Capacity scale-up is requested for more number of databases than supported")
KBP_INC_SEL(KBP_DB_SCALE_UP_NOT_POSSIBLE, "Capacity scaling up is not possible on this database since db width is more than 40b")
KBP_INC_SEL(KBP_DB_SCALE_UP_AD_IS_MUST, "AD is must for Capacity Scale-up feature")
KBP_INC_SEL(KBP_DB_SCALE_UP_EXCEEDED_MAX_AD_BYTES, "Maximum AD width supported with Capacity Scale-up feature is 48b only")
KBP_INC_SEL(KBP_DB_PAIRING_SCALE_UP_NOT_POSSIBLE, "Database pairing and Capacity Scale-up is simultaneously not possible on the same database")
KBP_INC_SEL(KBP_CRC_MISMATCH, "CRC24 Value Mismatch")
KBP_INC_SEL(KBP_SERDES_FW_LOAD_FAIL, "Failed to load the serdes firmware")
KBP_INC_SEL(KBP_ROP_RESPONSE_ERROR, "Error in ROP response")

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/sdk/include/soc/kbp/alg_kbp/include/error_tbl.def
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/alg_kbp/include/error_tbl.def
No license file was found, but licenses were detected in source scan.

/* $Id: chip_sim_indirect.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/ChipSim/chip_sim_indirect.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: linux-uk-proxy.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/linux/kernel/user/shared/linux-uk-proxy.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.17.66.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/firebolt/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ibde.h,v 1.27 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/ibde.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stat_fe.c,v 1.48 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stat_fe.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Katana2 STG support
```

```
*
* These functions set or get port related fields in the Spanning tree
* table.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/katana2/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_fabric_links_interrupts.c Exp $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  mask FMAC/FSRD interrupts examples
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dcmn/cint_fabric_links_interrupts.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx_los.h,v 1.9 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RX LOS
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dcmn/rx_los/rx_los.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_kbp_rop.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/arad_kbp_rop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3x.h,v 1.15 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3x.h
* Purpose:     Draco L3X hardware table manipulation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/l3x.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88470_a0.c
* Purpose:     bcm88470_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88470_a0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hash_tbl.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:  shr_hash.h
* Purpose:  Defines a generic hash table for key/value pairs.
*
* Overview:
* Provides a generic hash table interface with configurable and default hash
* and key compare functions.  The interface allows for complex key types, but
* the caller must implement a _cast_ method to transform the complex type into
* a string of bytes for the hash function.  Alternatively, the caller may
* replace the hash function itself, in which case, the default _cast_ method
* may be used to return the complex key and complex key size.
*
* Memory is allocated on-demand in blocks for hash entries, and freed in
```

```
* blocks when the free pool becomes large.
*
* Collisions are handled simply by creating a linked list per hash index and
* a linear search is performed within the list to find an entry.  The list is
* not sorted.  (future upgrade?)
*
* The caller defined KEY is *copied* and stored in the variable sized hash
* table entry for comparison.  A *pointer* to the caller defined DATA is
* stored.  The caller is reponsible for managing the memory where DATA points
* if any.  Callbacks are provided upon hash destruction to free any allocated
* memory.  The hash table module itself does not explitly free any DATA
* pointer at any time.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/swstate/sw_state_hash_tbl.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/hash_tbl.h
No license file was found, but licenses were detected in source scan.

```
/*
*  $Id: fabric.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Fabric functions common to all platforms.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/fabric.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Chip symbol table definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_symbols.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250IntLib.h,v 1.3 2011/07/21 16:14:48 yshtil Exp $
*********************************************************************
*
*  Copyright 2000,2001
*  Broadcom Corporation. All rights reserved.
*
*  This software is furnished under license to Wind River Systems, Inc.
*  and may be used only in accordance with the terms and conditions
*  of this license.  No title or ownership is transferred hereby.
********************************************************************* */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250IntLib.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: error.h,v 1.1.270.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Module: Error translation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/error.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision     :  $Id: falcon_api_uc_vars_rdwr_defns.h 1261 2015-11-19 15:51:37Z eroes $ *
*                                                                                       *
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables            *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*     Broadcom Corporation                                                              *
*     5300 California Avenue                                                            *
*     Irvine, CA  92617                                                                 *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
```

**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaHi1Selected_0Entry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/fabric/sbZfFabBm9600InaHi1Selected_0Entry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm3200BwRepErrInfo.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* $Id: sbZfFabBm3200BwRepErrInfo.hx,v 1.2 Broadcom SDK $
* $Copyright (c) 2012 Broadcom Corporation
* All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm3200BwRepErrInfo.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_rx_ipv4_tunnel_termination_forwarding_ttl0_1 Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_rx_ipv4_tunnel_termination_forwarding_ttl0_1.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: smm665.h,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* I2C Device Driver for Summit SMM665C Active DC Control
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/smm665.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: avl.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Generic AVL Tree
*
* On creating a tree, the user specifies the size of the datum and the
* FIXED maximum number of entries.  On insert/delete/lookup, the user
* supplies the datum compare function.
*
* NOTE: These routines are NOT thread-safe.  If multiple threads could
* access an AVL tree, external locks must be used to mutually exclude
* each call to the shr_avl routines, including shr_avl_traverse().
*
* AVL tree code is derived from Paul Vixie's code (24-July-1987), which
* used algorithms from "Algorithms & Data Structures," Niklaus Wirth,
* Prentice-Hall 1986, ISBN 0-13-022005-1.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/avl.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qos.h,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains QOS module definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/qos.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: l2.h,v 1.26 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       pon.h
* Purpose:     PON internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/pon.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tmu_c_ext_sim.stg,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* g3p1_tmu_sim.c: Guadalupe2k V1.3 TMU table manager & wrappers
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/g3p1/src/g3p1_tmu_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/g3p1/g3p1_tmu_sim.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3x.c,v 1.54 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS L3 Table Manipulation API routines.
*
* The L3Xm memory is an aggregate structure supported by hardware.
* When an entry is read from it, it is constructed from the L3X_BASEm,
* L3X_VALIDm, and L3X_HITm tables.  NOTE: the L3X table is read-only.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/l3x.c
No license file was found, but licenses were detected in source scan.

```
/*
```

* $Id: cache_mem_test.c,v 1.0 2014/08/14 MiryH Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/cache_mem_test.c
No license file was found, but licenses were detected in source scan.

/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: pr.c,v 1.9.16.14 Broadcom SDK $
*
* File: sws.c
* Purpose: Caladan3 SWS drivers
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/sws/pr.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: asf.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: asf.c
* Purpose: ASF feature support for Tomahawk SKUs
* Requires: soc/tomahawk.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/asf.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_llp_mirror.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_mirror.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_fabric_source_routed_cell.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC DFE FABRIC SOURCE ROUTED CELL
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_fabric_source_routed_cell.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DCMN FABRIC PORTH
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcmn/dcmn_port.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_eg_vlan_edit.h,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_eg_vlan_edit.h
*
* MODULE PREFIX:  soc_ppd_eg
*
* FILE DESCRIPTION:
*
```

* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_eg_vlan_edit.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmrbtree_def.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmrbtree_def.h
No license file was found, but licenses were detected in source scan.

/* $Id: jer2_arad_api_end2end_scheduler.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/ARAD/arad_api_end2end_scheduler.c
No license file was found, but licenses were detected in source scan.

/*
* MPLS script 2009-sept-29
*
* $Id: mpls_cint.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/xcore_system/mpls_cint.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC Routines related to Field module.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tomahawk/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phymod_types.h,v 1.1.2.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Basic type definitions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/phymod_types.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: family.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       family.c
* Purpose:    Implementation of bcm family management
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/family.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: timesync.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file defines common network port modes.
*
```

```
* Its contents are not used directly by applications; it is used only
* by header files of parent APIs which need to define port modes.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/timesync.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: jer2_jer_appl_intr_corr_act_func.c, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:    Implement Correction action functions for jer2_jericho interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnxc/legacy/dnxc_intr_corr_act_func.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_port_vlan_range.c,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_port_vlan_range.c
* Purpose: An example of how to match incoming VLAN using VLAN range of Petra and Arad.
*        The following CINT provides a calling sequence example to set VLAN range of port to match incoming VLAN,
*        and bring up one main services 1:1 Model.
*
* Calling sequence:
*
* Initialization:
*  1. Initialize service models.
*  2. Set ports VLAN domain.
*       - call bcm_port_class_set()
*  1. Set all ports to recognize single stag, single ctag and s_c_tag frames.
*       - call port_tpid_init()
*       - call bcm_port_tpid_add()
*
* 1:1 Service:
* Set up sequence:
*  1. Add VLAN range info ports. Need to add VLAN range info before creating LIF.
*       - Call bcm_vlan_translate_action_range_add() with action bcmVlanActionCompressed.
*  2. Create LIFs
*       - Call bcm_vlan_port_create() with following criterias:
```

```
*         BCM_VLAN_PORT_MATCH_PORT_VLAN, BCM_VLAN_PORT_MATCH_PORT_VLAN_STACKED
*  7. Cross connect the 2 LIFs
*       - Call bcm_vswitch_cross_connect_add()
* Clean up sequence:
*  1. Delete the cross connected LIFs.
*       - Call bcm_vswitch_cross_connect_delete()
*  2. Delete VLAN range info from ports
*       - Call bcm_vlan_translate_action_range_delete()
*  3. Delete LIFs.
*       - Call bcm_vlan_port_destroy()
*
* Service Model:
* 1:1 Service:
*    Port_1  <----------------------------  CrossConnect  ------------>  Port_2
*    SVLAN range 10~20  <---------------------------------------------> SVLAN range 30~40
*    SVLAN range 50~60 CVLAN range 70~80 <----------------------------> SVLAN range 90~100 CVLAN range
110~120
*
* Traffic within VLAN range:
*  1. Port_1 SVLAN range 10~20 <-CrossConnect-> Port_2 SVLAN range 30~40
*       - From Port_1:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 10
*       - From Port_2:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 30
*       - From Port_1:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 15
*       - From Port_2:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 35
*       - From Port_1:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 20
*       - From Port_2:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 40
*
*  2. Port_1 SVLAN range 50~60 CVLAN range 70~80 <-CrossConnect-> Port_2 SVLAN range 90~100 CVLAN
range 110~120
*       - From Port_1:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 50, VLAN tag type 0x9100, VID = 70
*       - From Port_2:
*            -   ethernet header with any DA, SA
*            -   VLAN tag: VLAN tag type 0x8100, VID = 90, VLAN tag type 0x9100, VID = 110
*       - From Port_1:
```

```
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 55, VLAN tag type 0x9100, VID = 75
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 95, VLAN tag type 0x9100, VID = 115
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 60, VLAN tag type 0x9100, VID = 80
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 100,VLAN tag type 0x9100, VID = 120
*
* Traffic out of VLAN range, can't be matched. All are dropped:
*  1. Port_1 Tunnel-ID 1000 SVLAN range 10~20 <-CrossConnect-> Port_2 SVLAN range 30~40
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 5
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 25
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 25
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 45
*
*  2. Port_1 SVLAN range 50~60 CVLAN range 70~80 <-CrossConnect-> Port_2 SVLAN range 90~100 CVLAN
range 110~120
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 45, VLAN tag type 0x9100, VID = 70
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 85, VLAN tag type 0x9100, VID = 110
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 50, VLAN tag type 0x9100, VID = 65
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 90, VLAN tag type 0x9100, VID = 105
*       - From Port_1:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 45, VLAN tag type 0x9100, VID = 65
*       - From Port_2:
*           - ethernet header with any DA, SA
*           - VLAN tag: VLAN tag type 0x8100, VID = 85, VLAN tag type 0x9100, VID = 105
*
```

```
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/cint_port_vlan_range.c
*     BCM> cint
*     cint> vlan_range_init(unit, port_1, port_2);
*     cint> vlan_range_1_1_service(unit);
*     cint> vlan_range_1_1_service_cleanup(unit);
*
* To Test VLAN Range Settings Only Run:
*     cint> vlan_range_action_add(unit, service_index, port_index);
*     cint> vlan_range_action_get(unit, service_index, port_index);
*     cint> vlan_range_action_delete(unit, service_index, port_index);
*     cint> vlan_range_action_delete_all(unit);
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_port_vlan_range.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan3_pio_defs.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Bit field defs for PCA9505 modules on the Caladan3 SVK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/caladan3_pio_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.58 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    extender.c
* Purpose: Manage a Controler Bridge as part of a Port Extender network.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/extender.c
No license file was found, but licenses were detected in source scan.

```
/** \file port_pp.h
```

```
* $Id$
*
* Internal DNX Port APIs
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/port/port_pp.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3x.c,v 1.62 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3x.c
*
* Provides:
*     soc_internal_l3x_read
*     soc_internal_l3x_write
*     soc_internal_l3x_init
*     soc_internal_l3x_del
*     soc_internal_l3x_ins
*
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/pcid/l3x.c
No license file was found, but licenses were detected in source scan.

```
#$Id: sb2sanity.soc,v 1.1.26.1 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# saber2 (BCM56460) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

local CIs ci0;
local DNs 0;
```

```
config add parity_enable=0;
config parity_enable=0;
config add ext_ram_present=2
config

if $?BCM56260_A0 || $?BCM56262_A0 || $?BCM56263_A0 || \
$?BCM56260_B0 || $?BCM56262_B0 || $?BCM56263_B0 \
   'local LIKE_BCM56260 1; \
    local EXT_MEM_SUPPORT 1;\
    local CIs ci0;\
    local DNs 0;'

if $?BCM56460_A0 || $?BCM56462_A0 || $?BCM56463_A0 || \
$?BCM56460_B0 || $?BCM56462_B0 || $?BCM56463_B0\
   'local LIKE_BCM5460 1; \
    local EXT_MEM_SUPPORT 1;\
    local CIs ci0;\
    local DNs 0;'

if $?run_full_sanity "echo Running FullSanity" else "echo Running ScreenSanity"

local SKIP_L3_DEFIP_TEST 0;
local SKIP_L3_DEFIP_128_TEST 0;

local LIKE_SABER2 0;

if $?BCM56260_A0 || $?BCM56261_A0 || $?BCM56262_A0  || \
$?BCM56260_B0 || $?BCM56261_B0 || $?BCM56262_B0  || \
$?BCM56263_A0 || $?BCM56265_A0 || $?BCM56266_A0  || \
$?BCM56263_B0 || $?BCM56265_B0 || $?BCM56266_B0  || \
$?BCM56267_A0 || $?BCM56268_A0 || \
$?BCM56267_B0 || $?BCM56268_B0 || \
$?BCM56233_A0 || $?BCM56233_B0    \
   'local LIKE_SABER2 1;'



if $LIKE_SABER2 'config get ipv6_lpm_128b_enable';
if $LIKE_SABER2 && $config_var_val "local SKIP_L3_DEFIP_TEST 1"
if $LIKE_SABER2 && !$config_var_val \
 "local SKIP_L3_DEFIP_128_TEST 1"


# This line is used for automated sanity regression - PLEASE DO NOT REMOVE
echo "testsuite: started: sanity"

rcload rc.soc
```

```
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps;

# Avoid link messages while testing
linkscan off;

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
#set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
tm +override
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4;
$done;

echo "Running Register reset defaults ..."
tr 1;
$done;

if !$?ihost_mode \
  'echo "Running PCI Compliance ..."; \
   tr 2; \
   $done;'

if !$?ihost_mode \
  'echo "Running Register read/write ..."; \
   tr 3; \
   echo "DONE ..."; \
```

```
  $done;'

init soc; init mmu; init misc;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done;
linkscan off

echo "Test result at the end of basic tests ... "
tl;

init soc; init mmu; init misc;
sb2sanity_ecc_off.soc
#set rctest=false

echo "Running Switching Memory Tests ..."
echo "Running 1/679 ALTERNATE_EMIRROR_BITMAP"
TR 50 M=ALTERNATE_EMIRROR_BITMAP;
TR 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
TR 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
TR 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
TR 51 M=ALTERNATE_EMIRROR_BITMAP;

echo "Running 2/679 BCAST_BLOCK_MASK"
TR 50 M=BCAST_BLOCK_MASK;
TR 71 M=BCAST_BLOCK_MASK TSE=F SLTH=T;
TR 71 M=BCAST_BLOCK_MASK TSE=T SLTH=T;
TR 71 M=BCAST_BLOCK_MASK TSE=T SLTH=F;
TR 51 M=BCAST_BLOCK_MASK;

echo "Running 3/679 COS_MAP_SEL"
TR 50 M=COS_MAP_SEL;
TR 71 M=COS_MAP_SEL TSE=F SLTH=T;
TR 71 M=COS_MAP_SEL TSE=T SLTH=T;
TR 71 M=COS_MAP_SEL TSE=T SLTH=F;
TR 51 M=COS_MAP_SEL;

echo "Running 4/679 CPU_COS_MAP"
TR 50 M=CPU_COS_MAP;
TR 71 M=CPU_COS_MAP TSE=F SLTH=T;
TR 71 M=CPU_COS_MAP TSE=T SLTH=T;
TR 71 M=CPU_COS_MAP TSE=T SLTH=F;
TR 51 M=CPU_COS_MAP;
```

```
echo "Running 5/679 CPU_COS_MAP_DATA_ONLY"
TR 50 M=CPU_COS_MAP_DATA_ONLY;
TR 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
TR 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
TR 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
TR 51 M=CPU_COS_MAP_DATA_ONLY;

echo "Running 6/679 CPU_COS_MAP_ONLY"
TR 50 M=CPU_COS_MAP_ONLY;
TR 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
TR 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
TR 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
TR 51 M=CPU_COS_MAP_ONLY;

echo "Running 7/679 CPU_PBM"
TR 50 M=CPU_PBM;
TR 71 M=CPU_PBM TSE=F SLTH=T;
TR 71 M=CPU_PBM TSE=T SLTH=T;
TR 71 M=CPU_PBM TSE=T SLTH=F;

echo "Running 8/679 CPU_PBM_2"
TR 50 M=CPU_PBM_2;
TR 71 M=CPU_PBM_2 TSE=F SLTH=T;
TR 71 M=CPU_PBM_2 TSE=T SLTH=T;
TR 71 M=CPU_PBM_2 TSE=T SLTH=F;

echo "Running 9/679 CPU_TS_MAP"
TR 50 M=CPU_TS_MAP;
TR 71 M=CPU_TS_MAP TSE=F SLTH=T;
TR 71 M=CPU_TS_MAP TSE=T SLTH=T;
TR 71 M=CPU_TS_MAP TSE=T SLTH=F;
TR 51 M=CPU_TS_MAP;

echo "Running 10/679 CTR_DEQ_STATUS_MEM"
TR 50 M=CTR_DEQ_STATUS_MEM;
TR 71 M=CTR_DEQ_STATUS_MEM TSE=F SLTH=T;
TR 71 M=CTR_DEQ_STATUS_MEM TSE=T SLTH=T;
TR 71 M=CTR_DEQ_STATUS_MEM TSE=T SLTH=F;
TR 51 M=CTR_DEQ_STATUS_MEM;

echo "Running 11/679 CTR_FLEX_COUNT_0"
TR 50 M=CTR_FLEX_COUNT_0;
TR 71 M=CTR_FLEX_COUNT_0 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_0 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_0;
```

```
echo "Running 12/679 CTR_FLEX_COUNT_1"
TR 50 M=CTR_FLEX_COUNT_1;
TR 71 M=CTR_FLEX_COUNT_1 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_1 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_1;

echo "Running 13/679 CTR_FLEX_COUNT_2"
TR 50 M=CTR_FLEX_COUNT_2;
TR 71 M=CTR_FLEX_COUNT_2 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_2 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_2;

echo "Running 14/679 CTR_FLEX_COUNT_3"
TR 50 M=CTR_FLEX_COUNT_3;
TR 71 M=CTR_FLEX_COUNT_3 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_3 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_3;

echo "Running 15/679 CTR_FLEX_COUNT_4"
TR 50 M=CTR_FLEX_COUNT_4;
TR 71 M=CTR_FLEX_COUNT_4 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_4 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_4;

echo "Running 16/679 CTR_FLEX_COUNT_5"
TR 50 M=CTR_FLEX_COUNT_5;
TR 71 M=CTR_FLEX_COUNT_5 TSE=F SLTH=T;
TR 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=T;
TR 71 M=CTR_FLEX_COUNT_5 TSE=T SLTH=F;
TR 51 M=CTR_FLEX_COUNT_5;

echo "Running 17/679 DEVICE_STREAM_ID_TO_PP_PORT_MAP"
TR 50 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP;
TR 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=F SLTH=T;
TR 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=T SLTH=T;
TR 71 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP TSE=T SLTH=F;
TR 51 M=DEVICE_STREAM_ID_TO_PP_PORT_MAP;

echo "Running 18/679 DSCP_TABLE"
TR 50 M=DSCP_TABLE;
TR 71 M=DSCP_TABLE TSE=F SLTH=T;
TR 71 M=DSCP_TABLE TSE=T SLTH=T;
TR 71 M=DSCP_TABLE TSE=T SLTH=F;
TR 51 M=DSCP_TABLE;
```

```
echo "Running 19/679 E2E_HOL_STATUS"
TR 50 M=E2E_HOL_STATUS;
TR 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
TR 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
TR 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
TR 51 M=E2E_HOL_STATUS;

echo "Running 20/679 E2E_HOL_STATUS_1"
TR 50 M=E2E_HOL_STATUS_1;
TR 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
TR 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
TR 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
TR 51 M=E2E_HOL_STATUS_1;

echo "Running 21/679 EFP_COUNTER_TABLE"
TR 50 M=EFP_COUNTER_TABLE;
TR 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
TR 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
TR 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
TR 51 M=EFP_COUNTER_TABLE;

echo "Running 22/679 EFP_METER_TABLE"
TR 50 M=EFP_METER_TABLE;
TR 71 M=EFP_METER_TABLE TSE=F SLTH=T;
TR 71 M=EFP_METER_TABLE TSE=T SLTH=T;
TR 71 M=EFP_METER_TABLE TSE=T SLTH=F;
TR 51 M=EFP_METER_TABLE;

echo "Running 23/679 EFP_POLICY_TABLE"
TR 50 M=EFP_POLICY_TABLE;
TR 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
TR 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
TR 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
TR 51 M=EFP_POLICY_TABLE;

echo "Running 24/679 EFP_TCAM"
TR 50 M=EFP_TCAM;
TR 71 M=EFP_TCAM TSE=F SLTH=T;
TR 71 M=EFP_TCAM TSE=T SLTH=T;
TR 71 M=EFP_TCAM TSE=T SLTH=F;
TR 51 M=EFP_TCAM;

echo "Running 29/679 EGR_1588_SA"
TR 50 M=EGR_1588_SA;
TR 71 M=EGR_1588_SA TSE=F SLTH=T;
TR 71 M=EGR_1588_SA TSE=T SLTH=T;
TR 71 M=EGR_1588_SA TSE=T SLTH=F;
```

```
TR 51 M=EGR_1588_SA;

echo "Running 30/679 EGR_COS_MAP"
TR 50 M=EGR_COS_MAP;
TR 71 M=EGR_COS_MAP TSE=F SLTH=T;
TR 71 M=EGR_COS_MAP TSE=T SLTH=T;
TR 71 M=EGR_COS_MAP TSE=T SLTH=F;
TR 51 M=EGR_COS_MAP;

echo "Running 31/679 EGR_CPU_COS_MAP"
TR 50 M=EGR_CPU_COS_MAP;
TR 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
TR 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
TR 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
TR 51 M=EGR_CPU_COS_MAP;

echo "Running 32/679 EGR_DNX_HEADER"
TR 50 M=EGR_DNX_HEADER;
TR 71 M=EGR_DNX_HEADER TSE=F SLTH=T;
TR 71 M=EGR_DNX_HEADER TSE=T SLTH=T;
TR 71 M=EGR_DNX_HEADER TSE=T SLTH=F;

echo "Running 33/679 EGR_DSCP_ECN_MAP"
TR 50 M=EGR_DSCP_ECN_MAP;
TR 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
TR 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
TR 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
TR 51 M=EGR_DSCP_ECN_MAP;

echo "Running 34/679 EGR_DSCP_TABLE"
TR 50 M=EGR_DSCP_TABLE;
TR 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
TR 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
TR 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
TR 51 M=EGR_DSCP_TABLE;

echo "Running 35/679 EGR_DVP_ATTRIBUTE"
TR 50 M=EGR_DVP_ATTRIBUTE;
TR 71 M=EGR_DVP_ATTRIBUTE TSE=F SLTH=T;
TR 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=T;
TR 71 M=EGR_DVP_ATTRIBUTE TSE=T SLTH=F;
TR 51 M=EGR_DVP_ATTRIBUTE;

echo "Running 36/679 EGR_EM_MTP_INDEX"
TR 50 M=EGR_EM_MTP_INDEX;
TR 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
```

```
TR 51 M=EGR_EM_MTP_INDEX;

echo "Running 37/679 EGR_ENABLE"
TR 50 M=EGR_ENABLE;
TR 71 M=EGR_ENABLE TSE=F SLTH=T;
TR 71 M=EGR_ENABLE TSE=T SLTH=T;
TR 71 M=EGR_ENABLE TSE=T SLTH=F;
TR 51 M=EGR_ENABLE;

echo "Running 38/679 EGR_EP_REDIRECT_EM_MTP_INDEX"
TR 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
TR 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
TR 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;

echo "Running 39/679 EGR_FLEX_CTR_COUNTER_TABLE_0"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_0;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_0;

echo "Running 40/679 EGR_FLEX_CTR_COUNTER_TABLE_1"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_1;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_1;

echo "Running 41/679 EGR_FLEX_CTR_COUNTER_TABLE_2"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_2;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_2;

echo "Running 42/679 EGR_FLEX_CTR_COUNTER_TABLE_3"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_3;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_3;

echo "Running 43/679 EGR_FLEX_CTR_COUNTER_TABLE_4"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_4;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
```

```
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_4;

echo "Running 44/679 EGR_FLEX_CTR_COUNTER_TABLE_5"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_5;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_5;

echo "Running 45/679 EGR_FLEX_CTR_COUNTER_TABLE_6"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_6;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_6;

echo "Running 46/679 EGR_FLEX_CTR_COUNTER_TABLE_7"
TR 50 M=EGR_FLEX_CTR_COUNTER_TABLE_7;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_COUNTER_TABLE_7;

echo "Running 47/679 EGR_FLEX_CTR_OFFSET_TABLE_0"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_0;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_0;

echo "Running 48/679 EGR_FLEX_CTR_OFFSET_TABLE_1"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_1;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_1;

echo "Running 49/679 EGR_FLEX_CTR_OFFSET_TABLE_2"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_2;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_2;

echo "Running 50/679 EGR_FLEX_CTR_OFFSET_TABLE_3"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_3;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
```

```
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_3;

echo "Running 51/679 EGR_FLEX_CTR_OFFSET_TABLE_4"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_4;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_4;

echo "Running 52/679 EGR_FLEX_CTR_OFFSET_TABLE_5"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_5;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_5;

echo "Running 53/679 EGR_FLEX_CTR_OFFSET_TABLE_6"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_6;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_6;

echo "Running 54/679 EGR_FLEX_CTR_OFFSET_TABLE_7"
TR 50 M=EGR_FLEX_CTR_OFFSET_TABLE_7;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_OFFSET_TABLE_7;

echo "Running 55/679 EGR_FLEX_CTR_PKT_PRI_MAP"
TR 50 M=EGR_FLEX_CTR_PKT_PRI_MAP;
TR 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_PKT_PRI_MAP;

echo "Running 56/679 EGR_FLEX_CTR_PKT_RES_MAP"
TR 50 M=EGR_FLEX_CTR_PKT_RES_MAP;
TR 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_PKT_RES_MAP;

echo "Running 57/679 EGR_FLEX_CTR_PORT_MAP"
TR 50 M=EGR_FLEX_CTR_PORT_MAP;
```

```
TR 71 M=EGR_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_PORT_MAP;

echo "Running 58/679 EGR_FLEX_CTR_PRI_CNG_MAP"
TR 50 M=EGR_FLEX_CTR_PRI_CNG_MAP;
TR 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_PRI_CNG_MAP;

echo "Running 59/679 EGR_FLEX_CTR_TOS_MAP"
TR 50 M=EGR_FLEX_CTR_TOS_MAP;
TR 71 M=EGR_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
TR 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
TR 71 M=EGR_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
TR 51 M=EGR_FLEX_CTR_TOS_MAP;

echo "Running 60/679 EGR_FRAGMENT_ID_TABLE"
TR 50 M=EGR_FRAGMENT_ID_TABLE;
TR 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
TR 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
TR 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
TR 51 M=EGR_FRAGMENT_ID_TABLE;

echo "Running 61/679 EGR_GPP_ATTRIBUTES"
TR 50 M=EGR_GPP_ATTRIBUTES;
TR 71 M=EGR_GPP_ATTRIBUTES TSE=F SLTH=T;
TR 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=T;
TR 71 M=EGR_GPP_ATTRIBUTES TSE=T SLTH=F;
TR 51 M=EGR_GPP_ATTRIBUTES;

echo "Running 62/679 EGR_GPP_ATTRIBUTES_MODBASE"
TR 50 M=EGR_GPP_ATTRIBUTES_MODBASE;
TR 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=F SLTH=T;
TR 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=T;
TR 71 M=EGR_GPP_ATTRIBUTES_MODBASE TSE=T SLTH=F;
TR 51 M=EGR_GPP_ATTRIBUTES_MODBASE;

echo "Running 63/679 EGR_IM_MTP_INDEX"
TR 50 M=EGR_IM_MTP_INDEX;
TR 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
TR 51 M=EGR_IM_MTP_INDEX;

echo "Running 64/679 EGR_IPMC"
```

```
TR 50 M=EGR_IPMC;
TR 71 M=EGR_IPMC TSE=F SLTH=T;
TR 71 M=EGR_IPMC TSE=T SLTH=T;
TR 71 M=EGR_IPMC TSE=T SLTH=F;
TR 51 M=EGR_IPMC;

echo "Running 65/679 EGR_IP_TUNNEL"
TR 50 M=EGR_IP_TUNNEL;
TR 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
TR 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
TR 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
TR 51 M=EGR_IP_TUNNEL;

echo "Running 66/679 EGR_IP_TUNNEL_IPV6"
TR 50 M=EGR_IP_TUNNEL_IPV6;
TR 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
TR 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
TR 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
TR 51 M=EGR_IP_TUNNEL_IPV6;

echo "Running 67/679 EGR_IP_TUNNEL_MPLS"
TR 50 M=EGR_IP_TUNNEL_MPLS;
TR 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
TR 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
TR 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
TR 51 M=EGR_IP_TUNNEL_MPLS;

echo "Running 68/679 EGR_L3_INTF"
TR 50 M=EGR_L3_INTF;
TR 71 M=EGR_L3_INTF TSE=F SLTH=T;
TR 71 M=EGR_L3_INTF TSE=T SLTH=T;
TR 71 M=EGR_L3_INTF TSE=T SLTH=F;
TR 51 M=EGR_L3_INTF;

echo "Running 69/679 EGR_L3_NEXT_HOP"
TR 50 M=EGR_L3_NEXT_HOP;
TR 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
TR 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
TR 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
TR 51 M=EGR_L3_NEXT_HOP;

echo "Running 70/679 EGR_LM_COUNTER_CONTROL"
TR 50 M=EGR_LM_COUNTER_CONTROL;
TR 71 M=EGR_LM_COUNTER_CONTROL TSE=F SLTH=T;
TR 71 M=EGR_LM_COUNTER_CONTROL TSE=T SLTH=T;
TR 71 M=EGR_LM_COUNTER_CONTROL TSE=T SLTH=F;
TR 51 M=EGR_LM_COUNTER_CONTROL;
```

```
echo "Running 71/679 EGR_MAC_DA_PROFILE"
TR 50 M=EGR_MAC_DA_PROFILE;
TR 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
TR 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
TR 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
TR 51 M=EGR_MAC_DA_PROFILE;

echo "Running 72/679 EGR_MAP_MH"
TR 50 M=EGR_MAP_MH;
TR 71 M=EGR_MAP_MH TSE=F SLTH=T;
TR 71 M=EGR_MAP_MH TSE=T SLTH=T;
TR 71 M=EGR_MAP_MH TSE=T SLTH=F;
TR 51 M=EGR_MAP_MH;

echo "Running 73/679 EGR_MASK"
TR 50 M=EGR_MASK;
TR 71 M=EGR_MASK TSE=F SLTH=T;
TR 71 M=EGR_MASK TSE=T SLTH=T;
TR 71 M=EGR_MASK TSE=T SLTH=F;
TR 51 M=EGR_MASK;

echo "Running 74/679 EGR_MASK_MODBASE"
TR 50 M=EGR_MASK_MODBASE;
TR 71 M=EGR_MASK_MODBASE TSE=F SLTH=T;
TR 71 M=EGR_MASK_MODBASE TSE=T SLTH=T;
TR 71 M=EGR_MASK_MODBASE TSE=T SLTH=F;
TR 51 M=EGR_MASK_MODBASE;

echo "Running 76/679 EGR_MA_INDEX"
TR 50 M=EGR_MA_INDEX;
TR 71 M=EGR_MA_INDEX TSE=F SLTH=T;
TR 71 M=EGR_MA_INDEX TSE=T SLTH=T;
TR 71 M=EGR_MA_INDEX TSE=T SLTH=F;
TR 51 M=EGR_MA_INDEX;

echo "Running 77/679 EGR_MIRROR_ENCAP_CONTROL"
TR 50 M=EGR_MIRROR_ENCAP_CONTROL;
TR 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=F SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_CONTROL TSE=T SLTH=F;
TR 51 M=EGR_MIRROR_ENCAP_CONTROL;

echo "Running 78/679 EGR_MIRROR_ENCAP_DATA_1"
TR 50 M=EGR_MIRROR_ENCAP_DATA_1;
TR 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=F SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_DATA_1 TSE=T SLTH=F;
TR 51 M=EGR_MIRROR_ENCAP_DATA_1;
```

```
echo "Running 79/679 EGR_MIRROR_ENCAP_DATA_2"
TR 50 M=EGR_MIRROR_ENCAP_DATA_2;
TR 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=F SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=T;
TR 71 M=EGR_MIRROR_ENCAP_DATA_2 TSE=T SLTH=F;
TR 51 M=EGR_MIRROR_ENCAP_DATA_2;

echo "Running 81/679 EGR_MOD_MAP_TABLE"
TR 50 M=EGR_MOD_MAP_TABLE;
TR 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
TR 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
TR 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
TR 51 M=EGR_MOD_MAP_TABLE;

echo "Running 82/679 EGR_MPLS_EXP_MAPPING_1"
TR 50 M=EGR_MPLS_EXP_MAPPING_1;
TR 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
TR 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
TR 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
TR 51 M=EGR_MPLS_EXP_MAPPING_1;

echo "Running 83/679 EGR_MPLS_EXP_MAPPING_2"
TR 50 M=EGR_MPLS_EXP_MAPPING_2;
TR 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
TR 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
TR 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
TR 51 M=EGR_MPLS_EXP_MAPPING_2;

echo "Running 84/679 EGR_MPLS_EXP_PRI_MAPPING"
TR 50 M=EGR_MPLS_EXP_PRI_MAPPING;
TR 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
TR 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
TR 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
TR 51 M=EGR_MPLS_EXP_PRI_MAPPING;

echo "Running 85/679 EGR_MPLS_PRI_MAPPING"
TR 50 M=EGR_MPLS_PRI_MAPPING;
TR 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
TR 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
TR 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
TR 51 M=EGR_MPLS_PRI_MAPPING;

echo "Running 86/679 EGR_MPLS_VC_AND_SWAP_LABEL_TABLE"
TR 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
TR 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
TR 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
TR 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
```

```
TR 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;

echo "Running 87/679 EGR_MP_GROUP"
TR 50 M=EGR_MP_GROUP;
TR 71 M=EGR_MP_GROUP TSE=F SLTH=T;
TR 71 M=EGR_MP_GROUP TSE=T SLTH=T;
TR 71 M=EGR_MP_GROUP TSE=T SLTH=F;
TR 51 M=EGR_MP_GROUP;

echo "Running 88/679 EGR_NETWORK_PRUNE_CONTROL"
TR 50 M=EGR_NETWORK_PRUNE_CONTROL;
TR 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=F SLTH=T;
TR 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=T SLTH=T;
TR 71 M=EGR_NETWORK_PRUNE_CONTROL TSE=T SLTH=F;
TR 51 M=EGR_NETWORK_PRUNE_CONTROL;

echo "Running 89/679 EGR_OAM_DGLP_PROFILE"
TR 50 M=EGR_OAM_DGLP_PROFILE;
TR 71 M=EGR_OAM_DGLP_PROFILE TSE=F SLTH=T;
TR 71 M=EGR_OAM_DGLP_PROFILE TSE=T SLTH=T;
TR 71 M=EGR_OAM_DGLP_PROFILE TSE=T SLTH=F;
TR 51 M=EGR_OAM_DGLP_PROFILE;

echo "Running 90/679 EGR_OAM_FLEXIBLE_DOMAIN_CONTROL"
TR 50 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;
TR 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=F SLTH=T;
TR 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=T;
TR 71 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=F;
TR 51 M=EGR_OAM_FLEXIBLE_DOMAIN_CONTROL;

echo "Running 91/679 EGR_OAM_LM_COUNTERS_0"
TR 50 M=EGR_OAM_LM_COUNTERS_0;
TR 71 M=EGR_OAM_LM_COUNTERS_0 TSE=F SLTH=T;
TR 71 M=EGR_OAM_LM_COUNTERS_0 TSE=T SLTH=T;
TR 71 M=EGR_OAM_LM_COUNTERS_0 TSE=T SLTH=F;
TR 51 M=EGR_OAM_LM_COUNTERS_0;

echo "Running 92/679 EGR_OAM_LM_COUNTERS_1"
TR 50 M=EGR_OAM_LM_COUNTERS_1;
TR 71 M=EGR_OAM_LM_COUNTERS_1 TSE=F SLTH=T;
TR 71 M=EGR_OAM_LM_COUNTERS_1 TSE=T SLTH=T;
TR 71 M=EGR_OAM_LM_COUNTERS_1 TSE=T SLTH=F;
TR 51 M=EGR_OAM_LM_COUNTERS_1;

echo "Running 93/679 EGR_OAM_LM_COUNTERS_2"
TR 50 M=EGR_OAM_LM_COUNTERS_2;
TR 71 M=EGR_OAM_LM_COUNTERS_2 TSE=F SLTH=T;
TR 71 M=EGR_OAM_LM_COUNTERS_2 TSE=T SLTH=T;
```

```
TR 71 M=EGR_OAM_LM_COUNTERS_2 TSE=T SLTH=F;
TR 51 M=EGR_OAM_LM_COUNTERS_2;

echo "Running 94/679 EGR_OAM_OPCODE_CONTROL_PROFILE"
TR 50 M=EGR_OAM_OPCODE_CONTROL_PROFILE;
TR 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
TR 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
TR 71 M=EGR_OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
TR 51 M=EGR_OAM_OPCODE_CONTROL_PROFILE;

echo "Running 95/679 EGR_OAM_OPCODE_GROUP"
TR 50 M=EGR_OAM_OPCODE_GROUP;
TR 71 M=EGR_OAM_OPCODE_GROUP TSE=F SLTH=T;
TR 71 M=EGR_OAM_OPCODE_GROUP TSE=T SLTH=T;
TR 71 M=EGR_OAM_OPCODE_GROUP TSE=T SLTH=F;
TR 51 M=EGR_OAM_OPCODE_GROUP;

echo "Running 96/679 EGR_OLP_CONFIG"
TR 50 M=EGR_OLP_CONFIG;
TR 71 M=EGR_OLP_CONFIG TSE=F SLTH=T;
TR 71 M=EGR_OLP_CONFIG TSE=T SLTH=T;
TR 71 M=EGR_OLP_CONFIG TSE=T SLTH=F;

echo "Running 97/679 EGR_OLP_DGPP_CONFIG"
TR 50 M=EGR_OLP_DGPP_CONFIG;
TR 71 M=EGR_OLP_DGPP_CONFIG TSE=F SLTH=T;
TR 71 M=EGR_OLP_DGPP_CONFIG TSE=T SLTH=T;
TR 71 M=EGR_OLP_DGPP_CONFIG TSE=T SLTH=F;
TR 51 M=EGR_OLP_DGPP_CONFIG;

echo "Running 98/679 EGR_OLP_HEADER_TYPE_MAPPING"
TR 50 M=EGR_OLP_HEADER_TYPE_MAPPING;
TR 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=F SLTH=T;
TR 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=T SLTH=T;
TR 71 M=EGR_OLP_HEADER_TYPE_MAPPING TSE=T SLTH=F;
TR 51 M=EGR_OLP_HEADER_TYPE_MAPPING;

echo "Running 101/679 EGR_PCP_DE_MAPPING"
TR 50 M=EGR_PCP_DE_MAPPING;
TR 71 M=EGR_PCP_DE_MAPPING TSE=F SLTH=T;
TR 71 M=EGR_PCP_DE_MAPPING TSE=T SLTH=T;
TR 71 M=EGR_PCP_DE_MAPPING TSE=T SLTH=F;
TR 51 M=EGR_PCP_DE_MAPPING;

echo "Running 102/679 EGR_PHYSICAL_PORT"
TR 50 M=EGR_PHYSICAL_PORT;
TR 71 M=EGR_PHYSICAL_PORT TSE=F SLTH=T;
TR 71 M=EGR_PHYSICAL_PORT TSE=T SLTH=T;
```

```
TR 71 M=EGR_PHYSICAL_PORT TSE=T SLTH=F;
TR 51 M=EGR_PHYSICAL_PORT;

echo "Running 103/679 EGR_PORT"
TR 50 M=EGR_PORT;
TR 71 M=EGR_PORT TSE=F SLTH=T;
TR 71 M=EGR_PORT TSE=T SLTH=T;
TR 71 M=EGR_PORT TSE=T SLTH=F;
TR 51 M=EGR_PORT;

echo "Running 105/679 EGR_PP_PORT_GPP_TRANSLATION_1"
TR 50 M=EGR_PP_PORT_GPP_TRANSLATION_1;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=F SLTH=T;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=T;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=F;

echo "Running 106/679 EGR_PP_PORT_GPP_TRANSLATION_2"
TR 50 M=EGR_PP_PORT_GPP_TRANSLATION_2;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=F SLTH=T;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=T;
TR 71 M=EGR_PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=F;

echo "Running 107/679 EGR_PRI_CNG_MAP"
TR 50 M=EGR_PRI_CNG_MAP;
TR 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
TR 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
TR 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
TR 51 M=EGR_PRI_CNG_MAP;

echo "Running 108/679 EGR_PW_INIT_COUNTERS"
TR 50 M=EGR_PW_INIT_COUNTERS;
TR 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
TR 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
TR 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
TR 51 M=EGR_PW_INIT_COUNTERS;

echo "Running 109/679 EGR_QUEUE_TO_PP_PORT_MAP"
TR 50 M=EGR_QUEUE_TO_PP_PORT_MAP;
TR 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=F SLTH=T;
TR 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=T SLTH=T;
TR 71 M=EGR_QUEUE_TO_PP_PORT_MAP TSE=T SLTH=F;
TR 51 M=EGR_QUEUE_TO_PP_PORT_MAP;

echo "Running 110/679 EGR_SAT_CONFIG_MAC_SA"
TR 50 M=EGR_SAT_CONFIG_MAC_SA;
TR 71 M=EGR_SAT_CONFIG_MAC_SA TSE=F SLTH=T;
TR 71 M=EGR_SAT_CONFIG_MAC_SA TSE=T SLTH=T;
TR 71 M=EGR_SAT_CONFIG_MAC_SA TSE=T SLTH=F;
```

```
TR 51 M=EGR_SAT_CONFIG_MAC_SA;

echo "Running 111/679 EGR_SAT_SAMP_DATA"
TR 50 M=EGR_SAT_SAMP_DATA;
TR 71 M=EGR_SAT_SAMP_DATA TSE=F SLTH=T;
TR 71 M=EGR_SAT_SAMP_DATA TSE=T SLTH=T;
TR 71 M=EGR_SAT_SAMP_DATA TSE=T SLTH=F;
TR 51 M=EGR_SAT_SAMP_DATA;

echo "Running 112/679 EGR_SAT_SAMP_DATA_1"
TR 50 M=EGR_SAT_SAMP_DATA_1;
TR 71 M=EGR_SAT_SAMP_DATA_1 TSE=F SLTH=T;
TR 71 M=EGR_SAT_SAMP_DATA_1 TSE=T SLTH=T;
TR 71 M=EGR_SAT_SAMP_DATA_1 TSE=T SLTH=F;
TR 51 M=EGR_SAT_SAMP_DATA_1;

echo "Running 113/679 EGR_SAT_SAMP_TCAM"
TR 50 M=EGR_SAT_SAMP_TCAM;
TR 71 M=EGR_SAT_SAMP_TCAM TSE=F SLTH=T;
TR 71 M=EGR_SAT_SAMP_TCAM TSE=T SLTH=T;
TR 71 M=EGR_SAT_SAMP_TCAM TSE=T SLTH=F;
TR 51 M=EGR_SAT_SAMP_TCAM;

echo "Running 114/679 EGR_SERVICE_PRI_MAP_0"
TR 50 M=EGR_SERVICE_PRI_MAP_0;
TR 71 M=EGR_SERVICE_PRI_MAP_0 TSE=F SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_0 TSE=T SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_0 TSE=T SLTH=F;
TR 51 M=EGR_SERVICE_PRI_MAP_0;

echo "Running 115/679 EGR_SERVICE_PRI_MAP_1"
TR 50 M=EGR_SERVICE_PRI_MAP_1;
TR 71 M=EGR_SERVICE_PRI_MAP_1 TSE=F SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_1 TSE=T SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_1 TSE=T SLTH=F;
TR 51 M=EGR_SERVICE_PRI_MAP_1;

echo "Running 116/679 EGR_SERVICE_PRI_MAP_2"
TR 50 M=EGR_SERVICE_PRI_MAP_2;
TR 71 M=EGR_SERVICE_PRI_MAP_2 TSE=F SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_2 TSE=T SLTH=T;
TR 71 M=EGR_SERVICE_PRI_MAP_2 TSE=T SLTH=F;
TR 51 M=EGR_SERVICE_PRI_MAP_2;

echo "Running 118/679 EGR_SUBPORT_TAG_DOT1P_MAP"
TR 50 M=EGR_SUBPORT_TAG_DOT1P_MAP;
TR 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=F SLTH=T;
TR 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=T SLTH=T;
```

```
TR 71 M=EGR_SUBPORT_TAG_DOT1P_MAP TSE=T SLTH=F;
TR 51 M=EGR_SUBPORT_TAG_DOT1P_MAP;

echo "Running 119/679 EGR_VFI"
TR 50 M=EGR_VFI;
TR 71 M=EGR_VFI TSE=F SLTH=T;
TR 71 M=EGR_VFI TSE=T SLTH=T;
TR 71 M=EGR_VFI TSE=T SLTH=F;
TR 51 M=EGR_VFI;

echo "Running 120/679 EGR_VLAN"
TR 50 M=EGR_VLAN;
TR 71 M=EGR_VLAN TSE=F SLTH=T;
TR 71 M=EGR_VLAN TSE=T SLTH=T;
TR 71 M=EGR_VLAN TSE=T SLTH=F;
TR 51 M=EGR_VLAN;

echo "Running 121/679 EGR_VLAN_STG"
TR 50 M=EGR_VLAN_STG;
TR 71 M=EGR_VLAN_STG TSE=F SLTH=T;
TR 71 M=EGR_VLAN_STG TSE=T SLTH=T;
TR 71 M=EGR_VLAN_STG TSE=T SLTH=F;
TR 51 M=EGR_VLAN_STG;

echo "Running 122/679 EGR_VLAN_TAG_ACTION_PROFILE"
TR 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
TR 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
TR 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
TR 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
TR 51 M=EGR_VLAN_TAG_ACTION_PROFILE;

echo "Running 123/679 EGR_VLAN_XLATE"
TR 50 M=EGR_VLAN_XLATE;
TR 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
TR 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
TR 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
TR 51 M=EGR_VLAN_XLATE;

echo "Running 124/679 EGR_VLAN_XLATE_OVERFLOW"
TR 50 M=EGR_VLAN_XLATE_OVERFLOW;
TR 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=F SLTH=T;
TR 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=T SLTH=T;
TR 71 M=EGR_VLAN_XLATE_OVERFLOW TSE=T SLTH=F;
TR 51 M=EGR_VLAN_XLATE_OVERFLOW;

echo "Running 125/679 EMIRROR_CONTROL"
TR 50 M=EMIRROR_CONTROL;
TR 71 M=EMIRROR_CONTROL TSE=F SLTH=T;
```

```
TR 71 M=EMIRROR_CONTROL TSE=T SLTH=T;
TR 71 M=EMIRROR_CONTROL TSE=T SLTH=F;
TR 51 M=EMIRROR_CONTROL;

echo "Running 126/679 EMIRROR_CONTROL1"
TR 50 M=EMIRROR_CONTROL1;
TR 71 M=EMIRROR_CONTROL1 TSE=F SLTH=T;
TR 71 M=EMIRROR_CONTROL1 TSE=T SLTH=T;
TR 71 M=EMIRROR_CONTROL1 TSE=T SLTH=F;
TR 51 M=EMIRROR_CONTROL1;

echo "Running 127/679 EMIRROR_CONTROL2"
TR 50 M=EMIRROR_CONTROL2;
TR 71 M=EMIRROR_CONTROL2 TSE=F SLTH=T;
TR 71 M=EMIRROR_CONTROL2 TSE=T SLTH=T;
TR 71 M=EMIRROR_CONTROL2 TSE=T SLTH=F;
TR 51 M=EMIRROR_CONTROL2;

echo "Running 128/679 EMIRROR_CONTROL3"
TR 50 M=EMIRROR_CONTROL3;
TR 71 M=EMIRROR_CONTROL3 TSE=F SLTH=T;
TR 71 M=EMIRROR_CONTROL3 TSE=T SLTH=T;
TR 71 M=EMIRROR_CONTROL3 TSE=T SLTH=F;
TR 51 M=EMIRROR_CONTROL3;

echo "Running 129/679 EM_MTP_INDEX"
TR 50 M=EM_MTP_INDEX;
TR 71 M=EM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=EM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=EM_MTP_INDEX TSE=T SLTH=F;
TR 51 M=EM_MTP_INDEX;

echo "Running 130/679 EPC_LINK_BMAP"
TR 50 M=EPC_LINK_BMAP;
TR 71 M=EPC_LINK_BMAP TSE=F SLTH=T;
TR 71 M=EPC_LINK_BMAP TSE=T SLTH=T;
TR 71 M=EPC_LINK_BMAP TSE=T SLTH=F;

echo "Running 131/679 EP_REDIRECT_EM_MTP_INDEX"
TR 50 M=EP_REDIRECT_EM_MTP_INDEX;
TR 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
TR 51 M=EP_REDIRECT_EM_MTP_INDEX;

echo "Running 132/679 FLOOD_LEARN_MATCH_VLANS_PORT_A"
TR 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_A;
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=F SLTH=T;
```

```
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=T SLTH=T;
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_A TSE=T SLTH=F;
TR 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_A;

echo "Running 133/679 FLOOD_LEARN_MATCH_VLANS_PORT_B"
TR 50 M=FLOOD_LEARN_MATCH_VLANS_PORT_B;
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=F SLTH=T;
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=T SLTH=T;
TR 71 M=FLOOD_LEARN_MATCH_VLANS_PORT_B TSE=T SLTH=F;
TR 51 M=FLOOD_LEARN_MATCH_VLANS_PORT_B;

echo "Running 134/679 FP_COUNTER_TABLE"
TR 50 M=FP_COUNTER_TABLE;
TR 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
TR 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
TR 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
TR 51 M=FP_COUNTER_TABLE;

echo "Running 135/679 FP_FLEX_KEY_SELECTOR"
TR 50 M=FP_FLEX_KEY_SELECTOR;
TR 71 M=FP_FLEX_KEY_SELECTOR TSE=F SLTH=T;
TR 71 M=FP_FLEX_KEY_SELECTOR TSE=T SLTH=T;
TR 71 M=FP_FLEX_KEY_SELECTOR TSE=T SLTH=F;
TR 51 M=FP_FLEX_KEY_SELECTOR;

echo "Running 136/679 FP_GLOBAL_MASK_TCAM"
TR 50 M=FP_GLOBAL_MASK_TCAM;
TR 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
TR 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
TR 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
TR 51 M=FP_GLOBAL_MASK_TCAM;

echo "Running 137/679 FP_HG_CLASSID_SELECT"
TR 50 M=FP_HG_CLASSID_SELECT;
TR 71 M=FP_HG_CLASSID_SELECT TSE=F SLTH=T;
TR 71 M=FP_HG_CLASSID_SELECT TSE=T SLTH=T;
TR 71 M=FP_HG_CLASSID_SELECT TSE=T SLTH=F;
TR 51 M=FP_HG_CLASSID_SELECT;

echo "Running 138/679 FP_I2E_CLASSID_SELECT"
TR 50 M=FP_I2E_CLASSID_SELECT;
TR 71 M=FP_I2E_CLASSID_SELECT TSE=F SLTH=T;
TR 71 M=FP_I2E_CLASSID_SELECT TSE=T SLTH=T;
TR 71 M=FP_I2E_CLASSID_SELECT TSE=T SLTH=F;
TR 51 M=FP_I2E_CLASSID_SELECT;

echo "Running 139/679 FP_METER_TABLE"
TR 50 M=FP_METER_TABLE;
```

```
TR 71 M=FP_METER_TABLE TSE=F SLTH=T;
TR 71 M=FP_METER_TABLE TSE=T SLTH=T;
TR 71 M=FP_METER_TABLE TSE=T SLTH=F;
TR 51 M=FP_METER_TABLE;

echo "Running 140/679 FP_POLICY_TABLE"
TR 50 M=FP_POLICY_TABLE;
TR 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
TR 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
TR 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
TR 51 M=FP_POLICY_TABLE;

echo "Running 141/679 FP_PORT_FIELD_SEL"
TR 50 M=FP_PORT_FIELD_SEL;
TR 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
TR 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
TR 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
TR 51 M=FP_PORT_FIELD_SEL;

echo "Running 142/679 FP_PORT_METER_MAP"
TR 50 M=FP_PORT_METER_MAP;
TR 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
TR 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
TR 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
TR 51 M=FP_PORT_METER_MAP;

echo "Running 143/679 FP_RANGE_CHECK"
TR 50 M=FP_RANGE_CHECK;
TR 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
TR 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
TR 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
TR 51 M=FP_RANGE_CHECK;

echo "Running 144/679 FP_SLICE_KEY_CONTROL"
TR 50 M=FP_SLICE_KEY_CONTROL;
TR 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
TR 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
TR 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;

echo "Running 145/679 FP_SLICE_MAP"
TR 50 M=FP_SLICE_MAP;
TR 71 M=FP_SLICE_MAP TSE=F SLTH=T;
TR 71 M=FP_SLICE_MAP TSE=T SLTH=T;
TR 71 M=FP_SLICE_MAP TSE=T SLTH=F;

echo "Running 146/679 FP_STORM_CONTROL_METERS"
TR 50 M=FP_STORM_CONTROL_METERS;
TR 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
```

```
TR 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
TR 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
TR 51 M=FP_STORM_CONTROL_METERS;

echo "Running 147/679 FP_TCAM"
TR 50 M=FP_TCAM;
TR 71 M=FP_TCAM TSE=F SLTH=T;
TR 71 M=FP_TCAM TSE=T SLTH=T;
TR 71 M=FP_TCAM TSE=T SLTH=F;
TR 51 M=FP_TCAM;

echo "Running 148/679 FP_UDF_OFFSET"
TR 50 M=FP_UDF_OFFSET;
TR 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
TR 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
TR 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
TR 51 M=FP_UDF_OFFSET;

echo "Running 149/679 FP_UDF_TCAM"
TR 50 M=FP_UDF_TCAM;
TR 71 M=FP_UDF_TCAM TSE=F SLTH=T;
TR 71 M=FP_UDF_TCAM TSE=T SLTH=T;
TR 71 M=FP_UDF_TCAM TSE=T SLTH=F;
TR 51 M=FP_UDF_TCAM;

echo "Running 150/679 GTP_PORT_TABLE"
TR 50 M=GTP_PORT_TABLE;
TR 71 M=GTP_PORT_TABLE TSE=F SLTH=T;
TR 71 M=GTP_PORT_TABLE TSE=T SLTH=T;
TR 71 M=GTP_PORT_TABLE TSE=T SLTH=F;
TR 51 M=GTP_PORT_TABLE;

echo "Running 151/679 HG_TRUNK_BITMAP"
TR 50 M=HG_TRUNK_BITMAP;
TR 71 M=HG_TRUNK_BITMAP TSE=F SLTH=T;
TR 71 M=HG_TRUNK_BITMAP TSE=T SLTH=T;
TR 71 M=HG_TRUNK_BITMAP TSE=T SLTH=F;
TR 51 M=HG_TRUNK_BITMAP;

echo "Running 152/679 HG_TRUNK_FAILOVER_ENABLE"
TR 50 M=HG_TRUNK_FAILOVER_ENABLE;
TR 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=F SLTH=T;
TR 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=T;
TR 71 M=HG_TRUNK_FAILOVER_ENABLE TSE=T SLTH=F;

echo "Running 153/679 HG_TRUNK_FAILOVER_SET"
TR 50 M=HG_TRUNK_FAILOVER_SET;
TR 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
```

```
TR 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
TR 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
TR 51 M=HG_TRUNK_FAILOVER_SET;

echo "Running 154/679 HG_TRUNK_GROUP"
TR 50 M=HG_TRUNK_GROUP;
TR 71 M=HG_TRUNK_GROUP TSE=F SLTH=T;
TR 71 M=HG_TRUNK_GROUP TSE=T SLTH=T;
TR 71 M=HG_TRUNK_GROUP TSE=T SLTH=F;
TR 51 M=HG_TRUNK_GROUP;

echo "Running 155/679 HG_TRUNK_MEMBER"
TR 50 M=HG_TRUNK_MEMBER;
TR 71 M=HG_TRUNK_MEMBER TSE=F SLTH=T;
TR 71 M=HG_TRUNK_MEMBER TSE=T SLTH=T;
TR 71 M=HG_TRUNK_MEMBER TSE=T SLTH=F;
TR 51 M=HG_TRUNK_MEMBER;

echo "Running 156/679 HIGIG_TRUNK_CONTROL"
TR 50 M=HIGIG_TRUNK_CONTROL;
TR 71 M=HIGIG_TRUNK_CONTROL TSE=F SLTH=T;
TR 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=T;
TR 71 M=HIGIG_TRUNK_CONTROL TSE=T SLTH=F;

echo "Running 160/679 IARB_TDM_TABLE"
TR 50 M=IARB_TDM_TABLE;
TR 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
TR 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
TR 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
TR 51 M=IARB_TDM_TABLE;

echo "Running 161/679 IARB_TDM_TABLE_1"
TR 50 M=IARB_TDM_TABLE_1;
TR 71 M=IARB_TDM_TABLE_1 TSE=F SLTH=T;
TR 71 M=IARB_TDM_TABLE_1 TSE=T SLTH=T;
TR 71 M=IARB_TDM_TABLE_1 TSE=T SLTH=F;
TR 51 M=IARB_TDM_TABLE_1;

echo "Running 162/679 ICONTROL_OPCODE_BITMAP"
TR 50 M=ICONTROL_OPCODE_BITMAP;
TR 71 M=ICONTROL_OPCODE_BITMAP TSE=F SLTH=T;
TR 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=T;
TR 71 M=ICONTROL_OPCODE_BITMAP TSE=T SLTH=F;
TR 51 M=ICONTROL_OPCODE_BITMAP;

echo "Running 163/679 IFP_COS_MAP"
TR 50 M=IFP_COS_MAP;
TR 71 M=IFP_COS_MAP TSE=F SLTH=T;
```

```
TR 71 M=IFP_COS_MAP TSE=T SLTH=T;
TR 71 M=IFP_COS_MAP TSE=T SLTH=F;
TR 51 M=IFP_COS_MAP;

echo "Running 164/679 IFP_REDIRECTION_PROFILE"
TR 50 M=IFP_REDIRECTION_PROFILE;
TR 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
TR 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
TR 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
TR 51 M=IFP_REDIRECTION_PROFILE;

echo "Running 165/679 IMIRROR_BITMAP"
TR 50 M=IMIRROR_BITMAP;
TR 71 M=IMIRROR_BITMAP TSE=F SLTH=T;
TR 71 M=IMIRROR_BITMAP TSE=T SLTH=T;
TR 71 M=IMIRROR_BITMAP TSE=T SLTH=F;
TR 51 M=IMIRROR_BITMAP;

echo "Running 166/679 IM_MTP_INDEX"
TR 50 M=IM_MTP_INDEX;
TR 71 M=IM_MTP_INDEX TSE=F SLTH=T;
TR 71 M=IM_MTP_INDEX TSE=T SLTH=T;
TR 71 M=IM_MTP_INDEX TSE=T SLTH=F;
TR 51 M=IM_MTP_INDEX;

echo "Running 167/679 ING_1588_TS_DISPOSITION_PROFILE_TABLE"
TR 50 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;
TR 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=F SLTH=T;
TR 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=T;
TR 71 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE TSE=T SLTH=F;
TR 51 M=ING_1588_TS_DISPOSITION_PROFILE_TABLE;

echo "Running 168/679 ING_DVP_TABLE"
TR 50 M=ING_DVP_TABLE;
TR 71 M=ING_DVP_TABLE TSE=F SLTH=T;
TR 71 M=ING_DVP_TABLE TSE=T SLTH=T;
TR 71 M=ING_DVP_TABLE TSE=T SLTH=F;
TR 51 M=ING_DVP_TABLE;

echo "Running 169/679 ING_EGRMSKBMAP"
TR 50 M=ING_EGRMSKBMAP;
TR 71 M=ING_EGRMSKBMAP TSE=F SLTH=T;
TR 71 M=ING_EGRMSKBMAP TSE=T SLTH=T;
TR 71 M=ING_EGRMSKBMAP TSE=T SLTH=F;
TR 51 M=ING_EGRMSKBMAP;

echo "Running 170/679 ING_EN_EFILTER_BITMAP"
TR 50 M=ING_EN_EFILTER_BITMAP;
```

```
TR 71 M=ING_EN_EFILTER_BITMAP TSE=F SLTH=T;
TR 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=T;
TR 71 M=ING_EN_EFILTER_BITMAP TSE=T SLTH=F;

echo "Running 171/679 ING_FLEX_CTR_COUNTER_TABLE_0"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_0;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_0 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_0;

echo "Running 172/679 ING_FLEX_CTR_COUNTER_TABLE_1"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_1;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_1 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_1;

echo "Running 173/679 ING_FLEX_CTR_COUNTER_TABLE_2"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_2;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_2 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_2;

echo "Running 174/679 ING_FLEX_CTR_COUNTER_TABLE_3"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_3;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_3 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_3;

echo "Running 175/679 ING_FLEX_CTR_COUNTER_TABLE_4"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_4;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_4 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_4;

echo "Running 176/679 ING_FLEX_CTR_COUNTER_TABLE_5"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_5;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_5 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_5;

echo "Running 177/679 ING_FLEX_CTR_COUNTER_TABLE_6"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_6;
```

```
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_6 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_6;

echo "Running 178/679 ING_FLEX_CTR_COUNTER_TABLE_7"
TR 50 M=ING_FLEX_CTR_COUNTER_TABLE_7;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_COUNTER_TABLE_7 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_COUNTER_TABLE_7;

echo "Running 179/679 ING_FLEX_CTR_OFFSET_TABLE_0"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_0;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_0 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_0;

echo "Running 180/679 ING_FLEX_CTR_OFFSET_TABLE_1"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_1;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_1 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_1;

echo "Running 181/679 ING_FLEX_CTR_OFFSET_TABLE_2"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_2;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_2 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_2;

echo "Running 182/679 ING_FLEX_CTR_OFFSET_TABLE_3"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_3;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_3 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_3;

echo "Running 183/679 ING_FLEX_CTR_OFFSET_TABLE_4"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_4;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_4 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_4;

echo "Running 184/679 ING_FLEX_CTR_OFFSET_TABLE_5"
```

```
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_5;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_5 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_5;

echo "Running 185/679 ING_FLEX_CTR_OFFSET_TABLE_6"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_6;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_6 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_6;

echo "Running 186/679 ING_FLEX_CTR_OFFSET_TABLE_7"
TR 50 M=ING_FLEX_CTR_OFFSET_TABLE_7;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_OFFSET_TABLE_7 TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_OFFSET_TABLE_7;

echo "Running 187/679 ING_FLEX_CTR_PKT_PRI_MAP"
TR 50 M=ING_FLEX_CTR_PKT_PRI_MAP;
TR 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_PKT_PRI_MAP TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_PKT_PRI_MAP;

echo "Running 188/679 ING_FLEX_CTR_PKT_RES_MAP"
TR 50 M=ING_FLEX_CTR_PKT_RES_MAP;
TR 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_PKT_RES_MAP TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_PKT_RES_MAP;

echo "Running 189/679 ING_FLEX_CTR_PORT_MAP"
TR 50 M=ING_FLEX_CTR_PORT_MAP;
TR 71 M=ING_FLEX_CTR_PORT_MAP TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_PORT_MAP TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_PORT_MAP;

echo "Running 190/679 ING_FLEX_CTR_PRI_CNG_MAP"
TR 50 M=ING_FLEX_CTR_PRI_CNG_MAP;
TR 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_PRI_CNG_MAP TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_PRI_CNG_MAP;
```

```
echo "Running 191/679 ING_FLEX_CTR_TOS_MAP"
TR 50 M=ING_FLEX_CTR_TOS_MAP;
TR 71 M=ING_FLEX_CTR_TOS_MAP TSE=F SLTH=T;
TR 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=T;
TR 71 M=ING_FLEX_CTR_TOS_MAP TSE=T SLTH=F;
TR 51 M=ING_FLEX_CTR_TOS_MAP;

echo "Running 192/679 ING_HIGIG_TRUNK_OVERRIDE_PROFILE"
TR 50 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;
TR 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=F SLTH=T;
TR 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=T;
TR 71 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE TSE=T SLTH=F;
TR 51 M=ING_HIGIG_TRUNK_OVERRIDE_PROFILE;

echo "Running 193/679 ING_L3_NEXT_HOP"
TR 50 M=ING_L3_NEXT_HOP;
TR 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
TR 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
TR 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
TR 51 M=ING_L3_NEXT_HOP;

echo "Running 194/679 ING_LM_COUNTER_CONTROL"
TR 50 M=ING_LM_COUNTER_CONTROL;
TR 71 M=ING_LM_COUNTER_CONTROL TSE=F SLTH=T;
TR 71 M=ING_LM_COUNTER_CONTROL TSE=T SLTH=T;
TR 71 M=ING_LM_COUNTER_CONTROL TSE=T SLTH=F;
TR 51 M=ING_LM_COUNTER_CONTROL;

echo "Running 195/679 ING_MOD_MAP_TABLE"
TR 50 M=ING_MOD_MAP_TABLE;
TR 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
TR 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
TR 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
TR 51 M=ING_MOD_MAP_TABLE;

echo "Running 196/679 ING_MPLS_EXP_MAPPING"
TR 50 M=ING_MPLS_EXP_MAPPING;
TR 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
TR 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
TR 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
TR 51 M=ING_MPLS_EXP_MAPPING;

echo "Running 197/679 ING_NETWORK_PRUNE_CONTROL"
TR 50 M=ING_NETWORK_PRUNE_CONTROL;
TR 71 M=ING_NETWORK_PRUNE_CONTROL TSE=F SLTH=T;
TR 71 M=ING_NETWORK_PRUNE_CONTROL TSE=T SLTH=T;
TR 71 M=ING_NETWORK_PRUNE_CONTROL TSE=T SLTH=F;
TR 51 M=ING_NETWORK_PRUNE_CONTROL;
```

```
echo "Running 198/679 ING_OAM_LM_COUNTERS_0"
TR 50 M=ING_OAM_LM_COUNTERS_0;
TR 71 M=ING_OAM_LM_COUNTERS_0 TSE=F SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_0 TSE=T SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_0 TSE=T SLTH=F;
TR 51 M=ING_OAM_LM_COUNTERS_0;

echo "Running 199/679 ING_OAM_LM_COUNTERS_1"
TR 50 M=ING_OAM_LM_COUNTERS_1;
TR 71 M=ING_OAM_LM_COUNTERS_1 TSE=F SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_1 TSE=T SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_1 TSE=T SLTH=F;
TR 51 M=ING_OAM_LM_COUNTERS_1;

echo "Running 200/679 ING_OAM_LM_COUNTERS_2"
TR 50 M=ING_OAM_LM_COUNTERS_2;
TR 71 M=ING_OAM_LM_COUNTERS_2 TSE=F SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_2 TSE=T SLTH=T;
TR 71 M=ING_OAM_LM_COUNTERS_2 TSE=T SLTH=F;
TR 51 M=ING_OAM_LM_COUNTERS_2;

echo "Running 204/679 ING_PHYSICAL_PORT_TABLE"
TR 50 M=ING_PHYSICAL_PORT_TABLE;
TR 71 M=ING_PHYSICAL_PORT_TABLE TSE=F SLTH=T;
TR 71 M=ING_PHYSICAL_PORT_TABLE TSE=T SLTH=T;
TR 71 M=ING_PHYSICAL_PORT_TABLE TSE=T SLTH=F;
TR 51 M=ING_PHYSICAL_PORT_TABLE;

echo "Running 205/679 ING_PRI_CNG_MAP"
TR 50 M=ING_PRI_CNG_MAP;
TR 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
TR 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
TR 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
TR 51 M=ING_PRI_CNG_MAP;

echo "Running 206/679 ING_PW_TERM_SEQ_NUM"
TR 50 M=ING_PW_TERM_SEQ_NUM;
TR 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
TR 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
TR 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
TR 51 M=ING_PW_TERM_SEQ_NUM;

echo "Running 207/679 ING_QUEUE_MAP"
TR 50 M=ING_QUEUE_MAP;
TR 71 M=ING_QUEUE_MAP TSE=F SLTH=T;
TR 71 M=ING_QUEUE_MAP TSE=T SLTH=T;
TR 71 M=ING_QUEUE_MAP TSE=T SLTH=F;
```

```
TR 51 M=ING_QUEUE_MAP;

echo "Running 208/679 ING_QUEUE_OFFSET_MAPPING_TABLE"
TR 50 M=ING_QUEUE_OFFSET_MAPPING_TABLE;
TR 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=F SLTH=T;
TR 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=T;
TR 71 M=ING_QUEUE_OFFSET_MAPPING_TABLE TSE=T SLTH=F;
TR 51 M=ING_QUEUE_OFFSET_MAPPING_TABLE;

echo "Running 209/679 ING_SAT_SAMP_DATA"
TR 50 M=ING_SAT_SAMP_DATA;
TR 71 M=ING_SAT_SAMP_DATA TSE=F SLTH=T;
TR 71 M=ING_SAT_SAMP_DATA TSE=T SLTH=T;
TR 71 M=ING_SAT_SAMP_DATA TSE=T SLTH=F;
TR 51 M=ING_SAT_SAMP_DATA;

init soc; init mmu; init misc;
sb2sanity_ecc_off.soc
echo "Running 210/679 ING_SAT_SAMP_TCAM"
TR 50 M=ING_SAT_SAMP_TCAM;
TR 71 M=ING_SAT_SAMP_TCAM TSE=F SLTH=T;
TR 71 M=ING_SAT_SAMP_TCAM TSE=T SLTH=T;
TR 71 M=ING_SAT_SAMP_TCAM TSE=T SLTH=F;
TR 51 M=ING_SAT_SAMP_TCAM;

echo "Running 211/679 ING_SERVICE_PRI_MAP_0"
TR 50 M=ING_SERVICE_PRI_MAP_0;
TR 71 M=ING_SERVICE_PRI_MAP_0 TSE=F SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_0 TSE=T SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_0 TSE=T SLTH=F;
TR 51 M=ING_SERVICE_PRI_MAP_0;

echo "Running 212/679 ING_SERVICE_PRI_MAP_1"
TR 50 M=ING_SERVICE_PRI_MAP_1;
TR 71 M=ING_SERVICE_PRI_MAP_1 TSE=F SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_1 TSE=T SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_1 TSE=T SLTH=F;
TR 51 M=ING_SERVICE_PRI_MAP_1;

echo "Running 213/679 ING_SERVICE_PRI_MAP_2"
TR 50 M=ING_SERVICE_PRI_MAP_2;
TR 71 M=ING_SERVICE_PRI_MAP_2 TSE=F SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_2 TSE=T SLTH=T;
TR 71 M=ING_SERVICE_PRI_MAP_2 TSE=T SLTH=F;
TR 51 M=ING_SERVICE_PRI_MAP_2;

echo "Running 215/679 ING_SVM_PKT_PRI_MAP"
TR 50 M=ING_SVM_PKT_PRI_MAP;
```

```
TR 71 M=ING_SVM_PKT_PRI_MAP TSE=F SLTH=T;
TR 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=T;
TR 71 M=ING_SVM_PKT_PRI_MAP TSE=T SLTH=F;
TR 51 M=ING_SVM_PKT_PRI_MAP;

echo "Running 216/679 ING_SVM_PKT_RES_MAP"
TR 50 M=ING_SVM_PKT_RES_MAP;
TR 71 M=ING_SVM_PKT_RES_MAP TSE=F SLTH=T;
TR 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=T;
TR 71 M=ING_SVM_PKT_RES_MAP TSE=T SLTH=F;
TR 51 M=ING_SVM_PKT_RES_MAP;

echo "Running 217/679 ING_SVM_PORT_MAP"
TR 50 M=ING_SVM_PORT_MAP;
TR 71 M=ING_SVM_PORT_MAP TSE=F SLTH=T;
TR 71 M=ING_SVM_PORT_MAP TSE=T SLTH=T;
TR 71 M=ING_SVM_PORT_MAP TSE=T SLTH=F;
TR 51 M=ING_SVM_PORT_MAP;

echo "Running 218/679 ING_SVM_PRI_CNG_MAP"
TR 50 M=ING_SVM_PRI_CNG_MAP;
TR 71 M=ING_SVM_PRI_CNG_MAP TSE=F SLTH=T;
TR 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=T;
TR 71 M=ING_SVM_PRI_CNG_MAP TSE=T SLTH=F;
TR 51 M=ING_SVM_PRI_CNG_MAP;

echo "Running 219/679 ING_SVM_TOS_MAP"
TR 50 M=ING_SVM_TOS_MAP;
TR 71 M=ING_SVM_TOS_MAP TSE=F SLTH=T;
TR 71 M=ING_SVM_TOS_MAP TSE=T SLTH=T;
TR 71 M=ING_SVM_TOS_MAP TSE=T SLTH=F;
TR 51 M=ING_SVM_TOS_MAP;

echo "Running 220/679 ING_UNTAGGED_PHB"
TR 50 M=ING_UNTAGGED_PHB;
TR 71 M=ING_UNTAGGED_PHB TSE=F SLTH=T;
TR 71 M=ING_UNTAGGED_PHB TSE=T SLTH=T;
TR 71 M=ING_UNTAGGED_PHB TSE=T SLTH=F;
TR 51 M=ING_UNTAGGED_PHB;

echo "Running 221/679 ING_VLAN_RANGE"
TR 50 M=ING_VLAN_RANGE;
TR 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
TR 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
TR 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
TR 51 M=ING_VLAN_RANGE;

echo "Running 222/679 ING_VLAN_TAG_ACTION_PROFILE"
```

```
TR 50 M=ING_VLAN_TAG_ACTION_PROFILE;
TR 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
TR 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
TR 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
TR 51 M=ING_VLAN_TAG_ACTION_PROFILE;

echo "Running 223/679 INITIAL_ING_L3_NEXT_HOP"
TR 50 M=INITIAL_ING_L3_NEXT_HOP;
TR 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
TR 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
TR 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
TR 51 M=INITIAL_ING_L3_NEXT_HOP;

echo "Running 224/679 INITIAL_L3_ECMP"
TR 50 M=INITIAL_L3_ECMP;
TR 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
TR 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
TR 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
TR 51 M=INITIAL_L3_ECMP;

echo "Running 225/679 INITIAL_L3_ECMP_GROUP"
TR 50 M=INITIAL_L3_ECMP_GROUP;
TR 71 M=INITIAL_L3_ECMP_GROUP TSE=F SLTH=T;
TR 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=T;
TR 71 M=INITIAL_L3_ECMP_GROUP TSE=T SLTH=F;
TR 51 M=INITIAL_L3_ECMP_GROUP;

echo "Running 226/679 INITIAL_PROT_GROUP_TABLE"
TR 50 M=INITIAL_PROT_GROUP_TABLE;
TR 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
TR 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
TR 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
TR 51 M=INITIAL_PROT_GROUP_TABLE;

echo "Running 227/679 INITIAL_PROT_NHI_TABLE"
TR 50 M=INITIAL_PROT_NHI_TABLE;
TR 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
TR 51 M=INITIAL_PROT_NHI_TABLE;

echo "Running 228/679 INITIAL_PROT_NHI_TABLE_1"
TR 50 M=INITIAL_PROT_NHI_TABLE_1;
TR 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=F SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=T SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE_1 TSE=T SLTH=F;
TR 51 M=INITIAL_PROT_NHI_TABLE_1;
```

```
echo "Running 229/679 INITIAL_PROT_NHI_TABLE_1_DMA"
TR 50 M=INITIAL_PROT_NHI_TABLE_1_DMA;
TR 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=F SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=T SLTH=T;
TR 71 M=INITIAL_PROT_NHI_TABLE_1_DMA TSE=T SLTH=F;
TR 51 M=INITIAL_PROT_NHI_TABLE_1_DMA;

echo "Running 234/679 IPV4_IN_IPV6_PREFIX_MATCH_TABLE"
TR 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
TR 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
TR 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
TR 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
TR 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;

echo "Running 235/679 KNOWN_MCAST_BLOCK_MASK"
TR 50 M=KNOWN_MCAST_BLOCK_MASK;
TR 71 M=KNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
TR 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
TR 71 M=KNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
TR 51 M=KNOWN_MCAST_BLOCK_MASK;

echo "Running 236/679 L2MC"
TR 50 M=L2MC;
TR 71 M=L2MC TSE=F SLTH=T;
TR 71 M=L2MC TSE=T SLTH=T;
TR 71 M=L2MC TSE=T SLTH=F;
TR 51 M=L2MC;

echo "Running 237/679 L2X"
TR 71 M=L2X TSE=F SLTH=T;
TR 71 M=L2X TSE=T SLTH=T;
TR 71 M=L2X TSE=T SLTH=F;
TR 51 M=L2X;

echo "Running 238/679 L2_BULK_MATCH_DATA"
TR 50 M=L2_BULK_MATCH_DATA;
TR 71 M=L2_BULK_MATCH_DATA TSE=F SLTH=T;
TR 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=T;
TR 71 M=L2_BULK_MATCH_DATA TSE=T SLTH=F;

echo "Running 239/679 L2_BULK_MATCH_MASK"
TR 50 M=L2_BULK_MATCH_MASK;
TR 71 M=L2_BULK_MATCH_MASK TSE=F SLTH=T;
TR 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=T;
TR 71 M=L2_BULK_MATCH_MASK TSE=T SLTH=F;

echo "Running 240/679 L2_BULK_MATCH_VLANS_PORT_A"
TR 50 M=L2_BULK_MATCH_VLANS_PORT_A;
```

```
TR 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=F SLTH=T;
TR 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=T SLTH=T;
TR 71 M=L2_BULK_MATCH_VLANS_PORT_A TSE=T SLTH=F;
TR 51 M=L2_BULK_MATCH_VLANS_PORT_A;

echo "Running 241/679 L2_BULK_MATCH_VLANS_PORT_B"
TR 50 M=L2_BULK_MATCH_VLANS_PORT_B;
TR 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=F SLTH=T;
TR 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=T SLTH=T;
TR 71 M=L2_BULK_MATCH_VLANS_PORT_B TSE=T SLTH=F;
TR 51 M=L2_BULK_MATCH_VLANS_PORT_B;

echo "Running 242/679 L2_BULK_REPLACE_DATA"
TR 50 M=L2_BULK_REPLACE_DATA;
TR 71 M=L2_BULK_REPLACE_DATA TSE=F SLTH=T;
TR 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=T;
TR 71 M=L2_BULK_REPLACE_DATA TSE=T SLTH=F;

echo "Running 243/679 L2_BULK_REPLACE_MASK"
TR 50 M=L2_BULK_REPLACE_MASK;
TR 71 M=L2_BULK_REPLACE_MASK TSE=F SLTH=T;
TR 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=T;
TR 71 M=L2_BULK_REPLACE_MASK TSE=T SLTH=F;

echo "Running 244/679 L2_ENTRY_ONLY"
TR 50 M=L2_ENTRY_ONLY;
TR 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
TR 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
TR 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
TR 51 M=L2_ENTRY_ONLY;

echo "Running 245/679 L2_ENTRY_OVERFLOW"
TR 50 M=L2_ENTRY_OVERFLOW;
TR 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
TR 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
TR 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;

echo "Running 246/679 L2_HITDA_ONLY"
TR 50 M=L2_HITDA_ONLY;
TR 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
TR 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
TR 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
TR 51 M=L2_HITDA_ONLY;

echo "Running 247/679 L2_HITSA_ONLY"
TR 50 M=L2_HITSA_ONLY;
TR 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
TR 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
```

```
TR 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
TR 51 M=L2_HITSA_ONLY;

echo "Running 248/679 L2_MOD_FIFO"
TR 50 M=L2_MOD_FIFO;
TR 71 M=L2_MOD_FIFO TSE=F SLTH=T;
TR 71 M=L2_MOD_FIFO TSE=T SLTH=T;
TR 71 M=L2_MOD_FIFO TSE=T SLTH=F;
TR 51 M=L2_MOD_FIFO;

echo "Running 249/679 L2_USER_ENTRY"
TR 50 M=L2_USER_ENTRY;
TR 71 M=L2_USER_ENTRY TSE=F SLTH=T;
TR 71 M=L2_USER_ENTRY TSE=T SLTH=T;
TR 71 M=L2_USER_ENTRY TSE=T SLTH=F;
TR 51 M=L2_USER_ENTRY;

echo "Running 250/679 L2_USER_ENTRY_DATA_ONLY"
TR 50 M=L2_USER_ENTRY_DATA_ONLY;
TR 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
TR 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
TR 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
TR 51 M=L2_USER_ENTRY_DATA_ONLY;

echo "Running 251/679 L2_USER_ENTRY_ONLY"
TR 50 M=L2_USER_ENTRY_ONLY;
TR 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
TR 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
TR 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
TR 51 M=L2_USER_ENTRY_ONLY;

if !$SKIP_L3_DEFIP_TEST \
'echo "Running 252/679 L3_DEFIP";\
tr 50 M=L3_DEFIP;\
tr 71 M=L3_DEFIP TSE=F SLTH=T;\
tr 71 M=L3_DEFIP TSE=T SLTH=T;\
tr 71 M=L3_DEFIP TSE=T SLTH=F;\
tr 51 M=L3_DEFIP;'

if !$SKIP_L3_DEFIP_TEST \
'echo "Running 253/679 L3_DEFIP_DATA_ONLY";\
TR 50 M=L3_DEFIP_DATA_ONLY;\
TR 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_DATA_ONLY;'

if !$SKIP_L3_DEFIP_TEST \
```

```
'echo "Running 254/679 L3_DEFIP_HIT_ONLY";\
TR 50 M=L3_DEFIP_HIT_ONLY;\
TR 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_HIT_ONLY;'

if !$SKIP_L3_DEFIP_TEST \
'echo "Running 255/679 L3_DEFIP_ONLY";\
TR 50 M=L3_DEFIP_ONLY;\
TR 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_ONLY;'

if !$SKIP_L3_DEFIP_128_TEST \
'echo "Running 256/679 L3_DEFIP_PAIR_128";\
TR 50 M=L3_DEFIP_PAIR_128;\
TR 71 M=L3_DEFIP_PAIR_128 TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128 TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_PAIR_128;'

if !$SKIP_L3_DEFIP_128_TEST \
'echo "Running 257/679 L3_DEFIP_PAIR_128_DATA_ONLY";\
TR 50 M=L3_DEFIP_PAIR_128_DATA_ONLY;\
TR 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_DATA_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_PAIR_128_DATA_ONLY;'

if !$SKIP_L3_DEFIP_128_TEST \
'echo "Running 258/679 L3_DEFIP_PAIR_128_HIT_ONLY";\
TR 50 M=L3_DEFIP_PAIR_128_HIT_ONLY;\
TR 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_HIT_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_PAIR_128_HIT_ONLY;'

if !$SKIP_L3_DEFIP_128_TEST \
'echo "Running 259/679 L3_DEFIP_PAIR_128_ONLY";\
TR 50 M=L3_DEFIP_PAIR_128_ONLY;\
TR 71 M=L3_DEFIP_PAIR_128_ONLY TSE=F SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=T;\
TR 71 M=L3_DEFIP_PAIR_128_ONLY TSE=T SLTH=F;\
TR 51 M=L3_DEFIP_PAIR_128_ONLY;'

echo "Running 260/679 L3_ECMP"
```

```
TR 50 M=L3_ECMP;
TR 71 M=L3_ECMP TSE=F SLTH=T;
TR 71 M=L3_ECMP TSE=T SLTH=T;
TR 71 M=L3_ECMP TSE=T SLTH=F;
TR 51 M=L3_ECMP;

echo "Running 261/679 L3_ECMP_COUNT"
TR 50 M=L3_ECMP_COUNT;
TR 71 M=L3_ECMP_COUNT TSE=F SLTH=T;
TR 71 M=L3_ECMP_COUNT TSE=T SLTH=T;
TR 71 M=L3_ECMP_COUNT TSE=T SLTH=F;
TR 51 M=L3_ECMP_COUNT;

echo "Running 262/679 L3_ENTRY_HIT_ONLY"
TR 50 M=L3_ENTRY_HIT_ONLY;
TR 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
TR 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
TR 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
TR 51 M=L3_ENTRY_HIT_ONLY;

echo "Running 263/679 L3_ENTRY_IPV4_MULTICAST"
TR 50 M=L3_ENTRY_IPV4_MULTICAST;
TR 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
TR 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
TR 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
TR 51 M=L3_ENTRY_IPV4_MULTICAST;

echo "Running 264/679 L3_ENTRY_IPV4_UNICAST"
TR 50 M=L3_ENTRY_IPV4_UNICAST;
TR 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
TR 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
TR 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
TR 51 M=L3_ENTRY_IPV4_UNICAST;

echo "Running 265/679 L3_ENTRY_IPV6_MULTICAST"
TR 50 M=L3_ENTRY_IPV6_MULTICAST;
TR 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
TR 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
TR 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
TR 51 M=L3_ENTRY_IPV6_MULTICAST;

echo "Running 266/679 L3_ENTRY_IPV6_UNICAST"
TR 50 M=L3_ENTRY_IPV6_UNICAST;
TR 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
TR 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
TR 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
TR 51 M=L3_ENTRY_IPV6_UNICAST;
```

```
echo "Running 267/679 L3_ENTRY_ONLY"
TR 50 M=L3_ENTRY_ONLY;
TR 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
TR 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
TR 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
TR 51 M=L3_ENTRY_ONLY;

echo "Running 268/679 L3_IIF"
TR 50 M=L3_IIF;
TR 71 M=L3_IIF TSE=F SLTH=T;
TR 71 M=L3_IIF TSE=T SLTH=T;
TR 71 M=L3_IIF TSE=T SLTH=F;
TR 51 M=L3_IIF;

echo "Running 269/679 L3_IPMC"
TR 50 M=L3_IPMC;
TR 71 M=L3_IPMC TSE=F SLTH=T;
TR 71 M=L3_IPMC TSE=T SLTH=T;
TR 71 M=L3_IPMC TSE=T SLTH=F;
TR 51 M=L3_IPMC;

echo "Running 270/679 L3_IPMC_1"
TR 50 M=L3_IPMC_1;
TR 71 M=L3_IPMC_1 TSE=F SLTH=T;
TR 71 M=L3_IPMC_1 TSE=T SLTH=T;
TR 71 M=L3_IPMC_1 TSE=T SLTH=F;
TR 51 M=L3_IPMC_1;

echo "Running 271/679 L3_IPMC_REMAP"
TR 50 M=L3_IPMC_REMAP;
TR 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
TR 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
TR 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
TR 51 M=L3_IPMC_REMAP;

echo "Running 272/679 L3_MTU_VALUES"
TR 50 M=L3_MTU_VALUES;
TR 71 M=L3_MTU_VALUES TSE=F SLTH=T;
TR 71 M=L3_MTU_VALUES TSE=T SLTH=T;
TR 71 M=L3_MTU_VALUES TSE=T SLTH=F;
TR 51 M=L3_MTU_VALUES;

echo "Running 273/679 L3_TUNNEL"
TR 50 M=L3_TUNNEL;
TR 71 M=L3_TUNNEL TSE=F SLTH=T;
TR 71 M=L3_TUNNEL TSE=T SLTH=T;
TR 71 M=L3_TUNNEL TSE=T SLTH=F;
TR 51 M=L3_TUNNEL;
```

```
echo "Running 274/679 L3_TUNNEL_DATA_ONLY"
TR 50 M=L3_TUNNEL_DATA_ONLY;
TR 71 M=L3_TUNNEL_DATA_ONLY TSE=F SLTH=T;
TR 71 M=L3_TUNNEL_DATA_ONLY TSE=T SLTH=T;
TR 71 M=L3_TUNNEL_DATA_ONLY TSE=T SLTH=F;
TR 51 M=L3_TUNNEL_DATA_ONLY;

echo "Running 275/679 L3_TUNNEL_ONLY"
TR 50 M=L3_TUNNEL_ONLY;
TR 71 M=L3_TUNNEL_ONLY TSE=F SLTH=T;
TR 71 M=L3_TUNNEL_ONLY TSE=T SLTH=T;
TR 71 M=L3_TUNNEL_ONLY TSE=T SLTH=F;
TR 51 M=L3_TUNNEL_ONLY;

echo "Running 277/679 LLS_L0_CHILD_STATE1"
TR 50 M=LLS_L0_CHILD_STATE1;
TR 71 M=LLS_L0_CHILD_STATE1 TSE=F SLTH=T;
TR 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=T;
TR 71 M=LLS_L0_CHILD_STATE1 TSE=T SLTH=F;
TR 51 M=LLS_L0_CHILD_STATE1;

echo "Running 278/679 LLS_L0_CHILD_WEIGHT_CFG_CNT"
TR 50 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;
TR 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
TR 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
TR 71 M=LLS_L0_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
TR 51 M=LLS_L0_CHILD_WEIGHT_CFG_CNT;

echo "Running 279/679 LLS_L0_CONFIG"
TR 50 M=LLS_L0_CONFIG;
TR 71 M=LLS_L0_CONFIG TSE=F SLTH=T;
TR 71 M=LLS_L0_CONFIG TSE=T SLTH=T;
TR 71 M=LLS_L0_CONFIG TSE=T SLTH=F;
TR 51 M=LLS_L0_CONFIG;

echo "Running 280/679 LLS_L0_EF_NEXT"
TR 50 M=LLS_L0_EF_NEXT;
TR 71 M=LLS_L0_EF_NEXT TSE=F SLTH=T;
TR 71 M=LLS_L0_EF_NEXT TSE=T SLTH=T;
TR 71 M=LLS_L0_EF_NEXT TSE=T SLTH=F;
TR 51 M=LLS_L0_EF_NEXT;

echo "Running 281/679 LLS_L0_ERROR"
TR 50 M=LLS_L0_ERROR;
TR 71 M=LLS_L0_ERROR TSE=F SLTH=T;
TR 71 M=LLS_L0_ERROR TSE=T SLTH=T;
TR 71 M=LLS_L0_ERROR TSE=T SLTH=F;
```

```
TR 51 M=LLS_L0_ERROR;

echo "Running 282/679 LLS_L0_HEADS_TAILS"
TR 50 M=LLS_L0_HEADS_TAILS;
TR 71 M=LLS_L0_HEADS_TAILS TSE=F SLTH=T;
TR 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=T;
TR 71 M=LLS_L0_HEADS_TAILS TSE=T SLTH=F;
TR 51 M=LLS_L0_HEADS_TAILS;

echo "Running 285/679 LLS_L0_MIN_NEXT"
TR 50 M=LLS_L0_MIN_NEXT;
TR 71 M=LLS_L0_MIN_NEXT TSE=F SLTH=T;
TR 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=T;
TR 71 M=LLS_L0_MIN_NEXT TSE=T SLTH=F;
TR 51 M=LLS_L0_MIN_NEXT;

echo "Running 286/679 LLS_L0_PARENT"
TR 50 M=LLS_L0_PARENT;
TR 71 M=LLS_L0_PARENT TSE=F SLTH=T;
TR 71 M=LLS_L0_PARENT TSE=T SLTH=T;
TR 71 M=LLS_L0_PARENT TSE=T SLTH=F;
TR 51 M=LLS_L0_PARENT;

echo "Running 287/679 LLS_L0_PARENT_STATE"
TR 50 M=LLS_L0_PARENT_STATE;
TR 71 M=LLS_L0_PARENT_STATE TSE=F SLTH=T;
TR 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=T;
TR 71 M=LLS_L0_PARENT_STATE TSE=T SLTH=F;
TR 51 M=LLS_L0_PARENT_STATE;

echo "Running 289/679 LLS_L0_SHAPER_CONFIG_C"
TR 50 M=LLS_L0_SHAPER_CONFIG_C;
TR 71 M=LLS_L0_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_L0_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_L0_SHAPER_CONFIG_C;

echo "Running 290/679 LLS_L0_WERR_MAX_SC"
TR 50 M=LLS_L0_WERR_MAX_SC;
TR 71 M=LLS_L0_WERR_MAX_SC TSE=F SLTH=T;
TR 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=T;
TR 71 M=LLS_L0_WERR_MAX_SC TSE=T SLTH=F;
TR 51 M=LLS_L0_WERR_MAX_SC;

echo "Running 294/679 LLS_L1_CHILD_WEIGHT_CFG_CNT"
TR 50 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;
TR 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
TR 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
```

```
TR 71 M=LLS_L1_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
TR 51 M=LLS_L1_CHILD_WEIGHT_CFG_CNT;

echo "Running 295/679 LLS_L1_CONFIG"
TR 50 M=LLS_L1_CONFIG;
TR 71 M=LLS_L1_CONFIG TSE=F SLTH=T;
TR 71 M=LLS_L1_CONFIG TSE=T SLTH=T;
TR 71 M=LLS_L1_CONFIG TSE=T SLTH=F;
TR 51 M=LLS_L1_CONFIG;

echo "Running 297/679 LLS_L1_ERROR"
TR 50 M=LLS_L1_ERROR;
TR 71 M=LLS_L1_ERROR TSE=F SLTH=T;
TR 71 M=LLS_L1_ERROR TSE=T SLTH=T;
TR 71 M=LLS_L1_ERROR TSE=T SLTH=F;
TR 51 M=LLS_L1_ERROR;

echo "Running 298/679 LLS_L1_HEADS_TAILS"
TR 50 M=LLS_L1_HEADS_TAILS;
TR 71 M=LLS_L1_HEADS_TAILS TSE=F SLTH=T;
TR 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=T;
TR 71 M=LLS_L1_HEADS_TAILS TSE=T SLTH=F;
TR 51 M=LLS_L1_HEADS_TAILS;

echo "Running 300/679 LLS_L1_MIN_CONFIG_C"
TR 50 M=LLS_L1_MIN_CONFIG_C;
TR 71 M=LLS_L1_MIN_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_L1_MIN_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_L1_MIN_CONFIG_C;

echo "Running 302/679 LLS_L1_PARENT"
TR 50 M=LLS_L1_PARENT;
TR 71 M=LLS_L1_PARENT TSE=F SLTH=T;
TR 71 M=LLS_L1_PARENT TSE=T SLTH=T;
TR 71 M=LLS_L1_PARENT TSE=T SLTH=F;
TR 51 M=LLS_L1_PARENT;

echo "Running 305/679 LLS_L1_SHAPER_CONFIG_C"
TR 50 M=LLS_L1_SHAPER_CONFIG_C;
TR 71 M=LLS_L1_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_L1_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_L1_SHAPER_CONFIG_C;

echo "Running 306/679 LLS_L1_WERR_MAX_SC"
TR 50 M=LLS_L1_WERR_MAX_SC;
TR 71 M=LLS_L1_WERR_MAX_SC TSE=F SLTH=T;
```

```
TR 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=T;
TR 71 M=LLS_L1_WERR_MAX_SC TSE=T SLTH=F;
TR 51 M=LLS_L1_WERR_MAX_SC;

echo "Running 310/679 LLS_L2_CHILD_WEIGHT_CFG_CNT"
TR 50 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;
TR 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=F SLTH=T;
TR 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=T;
TR 71 M=LLS_L2_CHILD_WEIGHT_CFG_CNT TSE=T SLTH=F;
TR 51 M=LLS_L2_CHILD_WEIGHT_CFG_CNT;

echo "Running 311/679 LLS_L2_EMPTY_STATE"
TR 50 M=LLS_L2_EMPTY_STATE;
TR 71 M=LLS_L2_EMPTY_STATE TSE=F SLTH=T;
TR 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=T;
TR 71 M=LLS_L2_EMPTY_STATE TSE=T SLTH=F;
TR 51 M=LLS_L2_EMPTY_STATE;

echo "Running 312/679 LLS_L2_ERROR"
TR 50 M=LLS_L2_ERROR;
TR 71 M=LLS_L2_ERROR TSE=F SLTH=T;
TR 71 M=LLS_L2_ERROR TSE=T SLTH=T;
TR 71 M=LLS_L2_ERROR TSE=T SLTH=F;
TR 51 M=LLS_L2_ERROR;

echo "Running 314/679 LLS_L2_MIN_CONFIG_C"
TR 50 M=LLS_L2_MIN_CONFIG_C;
TR 71 M=LLS_L2_MIN_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_L2_MIN_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_L2_MIN_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_L2_MIN_CONFIG_C;

echo "Running 315/679 LLS_L2_MIN_NEXT"
TR 50 M=LLS_L2_MIN_NEXT;
TR 71 M=LLS_L2_MIN_NEXT TSE=F SLTH=T;
TR 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=T;
TR 71 M=LLS_L2_MIN_NEXT TSE=T SLTH=F;
TR 51 M=LLS_L2_MIN_NEXT;

echo "Running 316/679 LLS_L2_PARENT"
TR 50 M=LLS_L2_PARENT;
TR 71 M=LLS_L2_PARENT TSE=F SLTH=T;
TR 71 M=LLS_L2_PARENT TSE=T SLTH=T;
TR 71 M=LLS_L2_PARENT TSE=T SLTH=F;
TR 51 M=LLS_L2_PARENT;

echo "Running 318/679 LLS_L2_SHAPER_CONFIG_C"
TR 50 M=LLS_L2_SHAPER_CONFIG_C;
```

```
TR 71 M=LLS_L2_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_L2_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_L2_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_L2_SHAPER_CONFIG_C;

echo "Running 319/679 LLS_L2_WERR_NEXT"
TR 50 M=LLS_L2_WERR_NEXT;
TR 71 M=LLS_L2_WERR_NEXT TSE=F SLTH=T;
TR 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=T;
TR 71 M=LLS_L2_WERR_NEXT TSE=T SLTH=F;
TR 51 M=LLS_L2_WERR_NEXT;

echo "Running 321/679 LLS_PORT_CONFIG"
TR 50 M=LLS_PORT_CONFIG;
TR 71 M=LLS_PORT_CONFIG TSE=F SLTH=T;
TR 71 M=LLS_PORT_CONFIG TSE=T SLTH=T;
TR 71 M=LLS_PORT_CONFIG TSE=T SLTH=F;
TR 51 M=LLS_PORT_CONFIG;

echo "Running 322/679 LLS_PORT_ERROR"
TR 50 M=LLS_PORT_ERROR;
TR 71 M=LLS_PORT_ERROR TSE=F SLTH=T;
TR 71 M=LLS_PORT_ERROR TSE=T SLTH=T;
TR 71 M=LLS_PORT_ERROR TSE=T SLTH=F;
TR 51 M=LLS_PORT_ERROR;

echo "Running 326/679 LLS_PORT_SHAPER_CONFIG_C"
TR 50 M=LLS_PORT_SHAPER_CONFIG_C;
TR 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_PORT_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_PORT_SHAPER_CONFIG_C;

echo "Running 328/679 LLS_PORT_TDM"
TR 50 M=LLS_PORT_TDM;
TR 71 M=LLS_PORT_TDM TSE=F SLTH=T;
TR 71 M=LLS_PORT_TDM TSE=T SLTH=T;
TR 71 M=LLS_PORT_TDM TSE=T SLTH=F;
TR 51 M=LLS_PORT_TDM;

echo "Running 329/679 LLS_PORT_WERR_MAX_SC"
TR 50 M=LLS_PORT_WERR_MAX_SC;
TR 71 M=LLS_PORT_WERR_MAX_SC TSE=F SLTH=T;
TR 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=T;
TR 71 M=LLS_PORT_WERR_MAX_SC TSE=T SLTH=F;
TR 51 M=LLS_PORT_WERR_MAX_SC;

echo "Running 330/679 LLS_PORT_XOFF"
```

```
TR 50 M=LLS_PORT_XOFF;
TR 71 M=LLS_PORT_XOFF TSE=F SLTH=T;
TR 71 M=LLS_PORT_XOFF TSE=T SLTH=T;
TR 71 M=LLS_PORT_XOFF TSE=T SLTH=F;

echo "Running 331/679 LLS_S0_ERROR"
TR 50 M=LLS_S0_ERROR;
TR 71 M=LLS_S0_ERROR TSE=F SLTH=T;
TR 71 M=LLS_S0_ERROR TSE=T SLTH=T;
TR 71 M=LLS_S0_ERROR TSE=T SLTH=F;
TR 51 M=LLS_S0_ERROR;

echo "Running 333/679 LLS_S0_SHAPER_CONFIG_C"
TR 50 M=LLS_S0_SHAPER_CONFIG_C;
TR 71 M=LLS_S0_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_S0_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_S0_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_S0_SHAPER_CONFIG_C;

echo "Running 334/679 LLS_S1_CONFIG"
TR 50 M=LLS_S1_CONFIG;
TR 71 M=LLS_S1_CONFIG TSE=F SLTH=T;
TR 71 M=LLS_S1_CONFIG TSE=T SLTH=T;
TR 71 M=LLS_S1_CONFIG TSE=T SLTH=F;
TR 51 M=LLS_S1_CONFIG;

echo "Running 335/679 LLS_S1_ERROR"
TR 50 M=LLS_S1_ERROR;
TR 71 M=LLS_S1_ERROR TSE=F SLTH=T;
TR 71 M=LLS_S1_ERROR TSE=T SLTH=T;
TR 71 M=LLS_S1_ERROR TSE=T SLTH=F;
TR 51 M=LLS_S1_ERROR;

echo "Running 336/679 LLS_S1_HEADS"
TR 50 M=LLS_S1_HEADS;
TR 71 M=LLS_S1_HEADS TSE=F SLTH=T;
TR 71 M=LLS_S1_HEADS TSE=T SLTH=T;
TR 71 M=LLS_S1_HEADS TSE=T SLTH=F;
TR 51 M=LLS_S1_HEADS;

echo "Running 337/679 LLS_S1_PARENT_STATE"
TR 50 M=LLS_S1_PARENT_STATE;
TR 71 M=LLS_S1_PARENT_STATE TSE=F SLTH=T;
TR 71 M=LLS_S1_PARENT_STATE TSE=T SLTH=T;
TR 71 M=LLS_S1_PARENT_STATE TSE=T SLTH=F;
TR 51 M=LLS_S1_PARENT_STATE;

echo "Running 339/679 LLS_S1_SHAPER_CONFIG_C"
```

```
TR 50 M=LLS_S1_SHAPER_CONFIG_C;
TR 71 M=LLS_S1_SHAPER_CONFIG_C TSE=F SLTH=T;
TR 71 M=LLS_S1_SHAPER_CONFIG_C TSE=T SLTH=T;
TR 71 M=LLS_S1_SHAPER_CONFIG_C TSE=T SLTH=F;
TR 51 M=LLS_S1_SHAPER_CONFIG_C;

echo "Running 340/679 LLS_S1_TAILS"
TR 50 M=LLS_S1_TAILS;
TR 71 M=LLS_S1_TAILS TSE=F SLTH=T;
TR 71 M=LLS_S1_TAILS TSE=T SLTH=T;
TR 71 M=LLS_S1_TAILS TSE=T SLTH=F;
TR 51 M=LLS_S1_TAILS;

echo "Running 341/679 LLS_S1_WERR_MAX_SC"
TR 50 M=LLS_S1_WERR_MAX_SC;
TR 71 M=LLS_S1_WERR_MAX_SC TSE=F SLTH=T;
TR 71 M=LLS_S1_WERR_MAX_SC TSE=T SLTH=T;
TR 71 M=LLS_S1_WERR_MAX_SC TSE=T SLTH=F;
TR 51 M=LLS_S1_WERR_MAX_SC;

echo "Running 342/679 LMEP"
TR 50 M=LMEP;
TR 71 M=LMEP TSE=F SLTH=T;
TR 71 M=LMEP TSE=T SLTH=T;
TR 71 M=LMEP TSE=T SLTH=F;
TR 51 M=LMEP;

echo "Running 343/679 LMEP_1"
TR 50 M=LMEP_1;
TR 71 M=LMEP_1 TSE=F SLTH=T;
TR 71 M=LMEP_1 TSE=T SLTH=T;
TR 71 M=LMEP_1 TSE=T SLTH=F;
TR 51 M=LMEP_1;

echo "Running 344/679 LOCAL_SW_DISABLE_DEFAULT_PBM"
TR 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=F SLTH=T;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=T;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM TSE=T SLTH=F;
TR 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM;

echo "Running 345/679 LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR"
TR 50 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=F SLTH=T;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=T;
TR 71 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR TSE=T SLTH=F;
TR 51 M=LOCAL_SW_DISABLE_DEFAULT_PBM_MIRR;
```

```
echo "Running 346/679 LPORT_TAB"
TR 50 M=LPORT_TAB;
TR 71 M=LPORT_TAB TSE=F SLTH=T;
TR 71 M=LPORT_TAB TSE=T SLTH=T;
TR 71 M=LPORT_TAB TSE=T SLTH=F;
TR 51 M=LPORT_TAB;

echo "Running 347/679 MAC_BLOCK"
TR 50 M=MAC_BLOCK;
TR 71 M=MAC_BLOCK TSE=F SLTH=T;
TR 71 M=MAC_BLOCK TSE=T SLTH=T;
TR 71 M=MAC_BLOCK TSE=T SLTH=F;
TR 51 M=MAC_BLOCK;

echo "Running 348/679 MAID_REDUCTION"
TR 50 M=MAID_REDUCTION;
TR 71 M=MAID_REDUCTION TSE=F SLTH=T;
TR 71 M=MAID_REDUCTION TSE=T SLTH=T;
TR 71 M=MAID_REDUCTION TSE=T SLTH=F;
TR 51 M=MAID_REDUCTION;

echo "Running 349/679 MA_INDEX"
TR 50 M=MA_INDEX;
TR 71 M=MA_INDEX TSE=F SLTH=T;
TR 71 M=MA_INDEX TSE=T SLTH=T;
TR 71 M=MA_INDEX TSE=T SLTH=F;
TR 51 M=MA_INDEX;

echo "Running 350/679 MA_STATE"
TR 50 M=MA_STATE;
TR 71 M=MA_STATE TSE=F SLTH=T;
TR 71 M=MA_STATE TSE=T SLTH=T;
TR 71 M=MA_STATE TSE=T SLTH=F;
TR 51 M=MA_STATE;

echo "Running 351/679 MIRROR_CONTROL"
TR 50 M=MIRROR_CONTROL;
TR 71 M=MIRROR_CONTROL TSE=F SLTH=T;
TR 71 M=MIRROR_CONTROL TSE=T SLTH=T;
TR 71 M=MIRROR_CONTROL TSE=T SLTH=F;
TR 51 M=MIRROR_CONTROL;

echo "Running 353/679 MMU_ADM_SRC_CTXT_DB"
TR 50 M=MMU_ADM_SRC_CTXT_DB;
TR 71 M=MMU_ADM_SRC_CTXT_DB TSE=F SLTH=T;
TR 71 M=MMU_ADM_SRC_CTXT_DB TSE=T SLTH=T;
TR 71 M=MMU_ADM_SRC_CTXT_DB TSE=T SLTH=F;
TR 51 M=MMU_ADM_SRC_CTXT_DB;
```

```
echo "Running 354/679 MMU_AGING_CTR_EXT"
TR 50 M=MMU_AGING_CTR_EXT;
TR 71 M=MMU_AGING_CTR_EXT TSE=F SLTH=T;
TR 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=T;
TR 71 M=MMU_AGING_CTR_EXT TSE=T SLTH=F;
TR 51 M=MMU_AGING_CTR_EXT;

echo "Running 355/679 MMU_AGING_CTR_INT"
TR 50 M=MMU_AGING_CTR_INT;
TR 71 M=MMU_AGING_CTR_INT TSE=F SLTH=T;
TR 71 M=MMU_AGING_CTR_INT TSE=T SLTH=T;
TR 71 M=MMU_AGING_CTR_INT TSE=T SLTH=F;
TR 51 M=MMU_AGING_CTR_INT;

echo "Running 356/679 MMU_AGING_EXP_EXT"
TR 50 M=MMU_AGING_EXP_EXT;
TR 71 M=MMU_AGING_EXP_EXT TSE=F SLTH=T;
TR 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=T;
TR 71 M=MMU_AGING_EXP_EXT TSE=T SLTH=F;
TR 51 M=MMU_AGING_EXP_EXT;

echo "Running 357/679 MMU_AGING_EXP_INT"
TR 50 M=MMU_AGING_EXP_INT;
TR 71 M=MMU_AGING_EXP_INT TSE=F SLTH=T;
TR 71 M=MMU_AGING_EXP_INT TSE=T SLTH=T;
TR 71 M=MMU_AGING_EXP_INT TSE=T SLTH=F;
TR 51 M=MMU_AGING_EXP_INT;

echo "Running 358/679 MMU_AGING_LMT_EXT"
TR 50 M=MMU_AGING_LMT_EXT;
TR 71 M=MMU_AGING_LMT_EXT TSE=F SLTH=T;
TR 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=T;
TR 71 M=MMU_AGING_LMT_EXT TSE=T SLTH=F;
TR 51 M=MMU_AGING_LMT_EXT;

echo "Running 359/679 MMU_AGING_LMT_INT"
TR 50 M=MMU_AGING_LMT_INT;
TR 71 M=MMU_AGING_LMT_INT TSE=F SLTH=T;
TR 71 M=MMU_AGING_LMT_INT TSE=T SLTH=T;
TR 71 M=MMU_AGING_LMT_INT TSE=T SLTH=F;
TR 51 M=MMU_AGING_LMT_INT;

echo "Running 360/679 MMU_CBPI_0"
TR 50 M=MMU_CBPI_0;
TR 71 M=MMU_CBPI_0 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_0 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_0 TSE=T SLTH=F;
```

```
TR 51 M=MMU_CBPI_0;

echo "Running 361/679 MMU_CBPI_1"
TR 50 M=MMU_CBPI_1;
TR 71 M=MMU_CBPI_1 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_1 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_1 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_1;

echo "Running 362/679 MMU_CBPI_2"
TR 50 M=MMU_CBPI_2;
TR 71 M=MMU_CBPI_2 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_2 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_2 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_2;

echo "Running 363/679 MMU_CBPI_3"
TR 50 M=MMU_CBPI_3;
TR 71 M=MMU_CBPI_3 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_3 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_3 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_3;

echo "Running 364/679 MMU_CBPI_4"
TR 50 M=MMU_CBPI_4;
TR 71 M=MMU_CBPI_4 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_4 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_4 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_4;

echo "Running 365/679 MMU_CBPI_5"
TR 50 M=MMU_CBPI_5;
TR 71 M=MMU_CBPI_5 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_5 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_5 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_5;

echo "Running 366/679 MMU_CBPI_6"
TR 50 M=MMU_CBPI_6;
TR 71 M=MMU_CBPI_6 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_6 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_6 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_6;

echo "Running 367/679 MMU_CBPI_7"
TR 50 M=MMU_CBPI_7;
TR 71 M=MMU_CBPI_7 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_7 TSE=T SLTH=T;
```

```
TR 71 M=MMU_CBPI_7 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_7;

echo "Running 368/679 MMU_CBPI_8"
TR 50 M=MMU_CBPI_8;
TR 71 M=MMU_CBPI_8 TSE=F SLTH=T;
TR 71 M=MMU_CBPI_8 TSE=T SLTH=T;
TR 71 M=MMU_CBPI_8 TSE=T SLTH=F;
TR 51 M=MMU_CBPI_8;

echo "Running 372/679 MMU_CCPE_MEM"
TR 50 M=MMU_CCPE_MEM;
TR 71 M=MMU_CCPE_MEM TSE=F SLTH=T;
TR 71 M=MMU_CCPE_MEM TSE=T SLTH=T;
TR 71 M=MMU_CCPE_MEM TSE=T SLTH=F;
TR 51 M=MMU_CCPE_MEM;

echo "Running 373/679 MMU_CCPI_MEM"
TR 50 M=MMU_CCPI_MEM;
TR 71 M=MMU_CCPI_MEM TSE=F SLTH=T;
TR 71 M=MMU_CCPI_MEM TSE=T SLTH=T;
TR 71 M=MMU_CCPI_MEM TSE=T SLTH=F;
TR 51 M=MMU_CCPI_MEM;

echo "Running 375/679 MMU_CELLLINKI"
TR 50 M=MMU_CELLLINKI;
TR 71 M=MMU_CELLLINKI TSE=F SLTH=T;
TR 71 M=MMU_CELLLINKI TSE=T SLTH=T;
TR 71 M=MMU_CELLLINKI TSE=T SLTH=F;
TR 51 M=MMU_CELLLINKI;

echo "Running 376/679 MMU_CFAPE_BITMAP"
TR 50 M=MMU_CFAPE_BITMAP;
TR 71 M=MMU_CFAPE_BITMAP TSE=F SLTH=T;
TR 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=T;
TR 71 M=MMU_CFAPE_BITMAP TSE=T SLTH=F;
TR 51 M=MMU_CFAPE_BITMAP;

echo "Running 377/679 MMU_CFAPE_STACK"
TR 50 M=MMU_CFAPE_STACK;
TR 71 M=MMU_CFAPE_STACK TSE=F SLTH=T;
TR 71 M=MMU_CFAPE_STACK TSE=T SLTH=T;
TR 71 M=MMU_CFAPE_STACK TSE=T SLTH=F;
TR 51 M=MMU_CFAPE_STACK;

echo "Running 378/679 MMU_CFAPI_BITMAP"
TR 50 M=MMU_CFAPI_BITMAP;
TR 71 M=MMU_CFAPI_BITMAP TSE=F SLTH=T;
```

```
TR 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=T;
TR 71 M=MMU_CFAPI_BITMAP TSE=T SLTH=F;
TR 51 M=MMU_CFAPI_BITMAP;

echo "Running 379/679 MMU_CFAPI_STACK"
TR 50 M=MMU_CFAPI_STACK;
TR 71 M=MMU_CFAPI_STACK TSE=F SLTH=T;
TR 71 M=MMU_CFAPI_STACK TSE=T SLTH=T;
TR 71 M=MMU_CFAPI_STACK TSE=T SLTH=F;
TR 51 M=MMU_CFAPI_STACK;

echo "Running 380/679 MMU_CHFC_SYSPORT_MAPPING"
TR 50 M=MMU_CHFC_SYSPORT_MAPPING;
TR 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=F SLTH=T;
TR 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=T SLTH=T;
TR 71 M=MMU_CHFC_SYSPORT_MAPPING TSE=T SLTH=F;
TR 51 M=MMU_CHFC_SYSPORT_MAPPING;

echo "Running 381/679 MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM"
TR 50 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;
TR 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=F SLTH=T;
TR 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=T;
TR 71 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM TSE=T SLTH=F;
TR 51 M=MMU_DEQ_AGING_MASK_LOOKUP_TABLE_MEM;

echo "Running 384/679 MMU_ENQ_CBP_32B_WR_STORE_2"
TR 50 M=MMU_ENQ_CBP_32B_WR_STORE_2;
TR 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=F SLTH=T;
TR 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=T;
TR 71 M=MMU_ENQ_CBP_32B_WR_STORE_2 TSE=T SLTH=F;
TR 51 M=MMU_ENQ_CBP_32B_WR_STORE_2;

echo "Running 385/679 MMU_ENQ_CFAPI_INTERNAL_RECYCLE"
TR 50 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE;
TR 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=F SLTH=T;
TR 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=T SLTH=T;
TR 71 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE TSE=T SLTH=F;
TR 51 M=MMU_ENQ_CFAPI_INTERNAL_RECYCLE;

echo "Running 386/679 MMU_ENQ_FAP_BITMAP"
TR 50 M=MMU_ENQ_FAP_BITMAP;
TR 71 M=MMU_ENQ_FAP_BITMAP TSE=F SLTH=T;
TR 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=T;
TR 71 M=MMU_ENQ_FAP_BITMAP TSE=T SLTH=F;
TR 51 M=MMU_ENQ_FAP_BITMAP;

echo "Running 387/679 MMU_ENQ_FAP_STACK"
TR 50 M=MMU_ENQ_FAP_STACK;
```

```
TR 71 M=MMU_ENQ_FAP_STACK TSE=F SLTH=T;
TR 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=T;
TR 71 M=MMU_ENQ_FAP_STACK TSE=T SLTH=F;
TR 51 M=MMU_ENQ_FAP_STACK;

echo "Running 388/679 MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL"
TR 50 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL;
TR 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=F SLTH=T;
TR 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=T SLTH=T;
TR 71 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL TSE=T SLTH=F;
TR 51 M=MMU_ENQ_PACKING_CTXT_FIFOS_FP_LL;

echo "Running 393/679 MMU_ENQ_RQE_WR_COMPLETE_4"
TR 50 M=MMU_ENQ_RQE_WR_COMPLETE_4;
TR 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=F SLTH=T;
TR 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=T SLTH=T;
TR 71 M=MMU_ENQ_RQE_WR_COMPLETE_4 TSE=T SLTH=F;
TR 51 M=MMU_ENQ_RQE_WR_COMPLETE_4;

echo "Running 396/679 MMU_ENQ_SRC_PORT_STATE_2"
TR 50 M=MMU_ENQ_SRC_PORT_STATE_2;
TR 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=F SLTH=T;
TR 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=T SLTH=T;
TR 71 M=MMU_ENQ_SRC_PORT_STATE_2 TSE=T SLTH=F;
TR 51 M=MMU_ENQ_SRC_PORT_STATE_2;

echo "Running 397/679 MMU_ENQ_SRC_PPP_TO_S1_LOOKUP"
TR 50 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;
TR 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=F SLTH=T;
TR 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=T SLTH=T;
TR 71 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP TSE=T SLTH=F;
TR 51 M=MMU_ENQ_SRC_PPP_TO_S1_LOOKUP;

init soc; init mmu; init misc;

echo "Running 398/679 MMU_EXT_MC_GROUP_MAP"
TR 50 M=MMU_EXT_MC_GROUP_MAP;
TR 71 M=MMU_EXT_MC_GROUP_MAP TSE=F SLTH=T;
TR 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=T;
TR 71 M=MMU_EXT_MC_GROUP_MAP TSE=T SLTH=F;
TR 51 M=MMU_EXT_MC_GROUP_MAP;

echo "Running 399/679 MMU_EXT_MC_QUEUE_LIST0"
TR 50 M=MMU_EXT_MC_QUEUE_LIST0;
TR 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=F SLTH=T;
TR 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=T;
TR 71 M=MMU_EXT_MC_QUEUE_LIST0 TSE=T SLTH=F;
TR 51 M=MMU_EXT_MC_QUEUE_LIST0;
```

```
echo "Running 400/679 MMU_EXT_MC_QUEUE_LIST4"
TR 50 M=MMU_EXT_MC_QUEUE_LIST4;
TR 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=F SLTH=T;
TR 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=T;
TR 71 M=MMU_EXT_MC_QUEUE_LIST4 TSE=T SLTH=F;
TR 51 M=MMU_EXT_MC_QUEUE_LIST4;

echo "Running 401/679 MMU_INITIAL_NHOP_TBL"
TR 50 M=MMU_INITIAL_NHOP_TBL;
TR 71 M=MMU_INITIAL_NHOP_TBL TSE=F SLTH=T;
TR 71 M=MMU_INITIAL_NHOP_TBL TSE=T SLTH=T;
TR 71 M=MMU_INITIAL_NHOP_TBL TSE=T SLTH=F;
TR 51 M=MMU_INITIAL_NHOP_TBL;

echo "Running 402/679 MMU_INTFI_BASE_INDEX_TBL"
TR 50 M=MMU_INTFI_BASE_INDEX_TBL;
TR 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=F SLTH=T;
TR 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=T SLTH=T;
TR 71 M=MMU_INTFI_BASE_INDEX_TBL TSE=T SLTH=F;
TR 51 M=MMU_INTFI_BASE_INDEX_TBL;

echo "Running 404/679 MMU_INTFI_FC_MAP_TBL0"
TR 50 M=MMU_INTFI_FC_MAP_TBL0;
TR 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL0 TSE=T SLTH=F;
TR 51 M=MMU_INTFI_FC_MAP_TBL0;

echo "Running 405/679 MMU_INTFI_FC_MAP_TBL1"
TR 50 M=MMU_INTFI_FC_MAP_TBL1;
TR 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL1 TSE=T SLTH=F;
TR 51 M=MMU_INTFI_FC_MAP_TBL1;

echo "Running 406/679 MMU_INTFI_FC_MAP_TBL2"
TR 50 M=MMU_INTFI_FC_MAP_TBL2;
TR 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_MAP_TBL2 TSE=T SLTH=F;
TR 51 M=MMU_INTFI_FC_MAP_TBL2;

echo "Running 407/679 MMU_INTFI_FC_ST_TBL0"
TR 50 M=MMU_INTFI_FC_ST_TBL0;
TR 71 M=MMU_INTFI_FC_ST_TBL0 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL0 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL0 TSE=T SLTH=F;
```

```
TR 51 M=MMU_INTFI_FC_ST_TBL0;
echo "Running 408/679 MMU_INTFI_FC_ST_TBL1"
TR 50 M=MMU_INTFI_FC_ST_TBL1;
TR 71 M=MMU_INTFI_FC_ST_TBL1 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL1 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL1 TSE=T SLTH=F;
TR 51 M=MMU_INTFI_FC_ST_TBL1;

echo "Running 409/679 MMU_INTFI_FC_ST_TBL2"
TR 50 M=MMU_INTFI_FC_ST_TBL2;
TR 71 M=MMU_INTFI_FC_ST_TBL2 TSE=F SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL2 TSE=T SLTH=T;
TR 71 M=MMU_INTFI_FC_ST_TBL2 TSE=T SLTH=F;
TR 51 M=MMU_INTFI_FC_ST_TBL2;

echo "Running 410/679 MMU_INTFI_MERGE_ST_TBL"
TR 50 M=MMU_INTFI_MERGE_ST_TBL;
TR 71 M=MMU_INTFI_MERGE_ST_TBL TSE=F SLTH=T;
TR 71 M=MMU_INTFI_MERGE_ST_TBL TSE=T SLTH=T;
TR 71 M=MMU_INTFI_MERGE_ST_TBL TSE=T SLTH=F;
TR 51 M=MMU_INTFI_MERGE_ST_TBL;

echo "Running 411/679 MMU_INTFI_OFFSET_MAP_TBL"
TR 50 M=MMU_INTFI_OFFSET_MAP_TBL;
TR 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=F SLTH=T;
TR 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=T SLTH=T;
TR 71 M=MMU_INTFI_OFFSET_MAP_TBL TSE=T SLTH=F;
TR 51 M=MMU_INTFI_OFFSET_MAP_TBL;

echo "Running 413/679 MMU_INTFI_ST_TRANS_TBL"
TR 50 M=MMU_INTFI_ST_TRANS_TBL;
TR 71 M=MMU_INTFI_ST_TRANS_TBL TSE=F SLTH=T;
TR 71 M=MMU_INTFI_ST_TRANS_TBL TSE=T SLTH=T;
TR 71 M=MMU_INTFI_ST_TRANS_TBL TSE=T SLTH=F;
TR 51 M=MMU_INTFI_ST_TRANS_TBL;

echo "Running 414/679 MMU_INTFO_TC2PRI_MAPPING"
TR 50 M=MMU_INTFO_TC2PRI_MAPPING;
TR 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=F SLTH=T;
TR 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=T SLTH=T;
TR 71 M=MMU_INTFO_TC2PRI_MAPPING TSE=T SLTH=F;
TR 51 M=MMU_INTFO_TC2PRI_MAPPING;

echo "Running 415/679 MMU_IPCTR_CTXT_COUNTER_0"
TR 50 M=MMU_IPCTR_CTXT_COUNTER_0;
TR 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=F SLTH=T;
TR 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=T SLTH=T;
```

```
TR 71 M=MMU_IPCTR_CTXT_COUNTER_0 TSE=T SLTH=F;
TR 51 M=MMU_IPCTR_CTXT_COUNTER_0;

echo "Running 416/679 MMU_IPCTR_PG_COUNTER_0"
TR 50 M=MMU_IPCTR_PG_COUNTER_0;
TR 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=F SLTH=T;
TR 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=T SLTH=T;
TR 71 M=MMU_IPCTR_PG_COUNTER_0 TSE=T SLTH=F;
TR 51 M=MMU_IPCTR_PG_COUNTER_0;

echo "Running 418/679 MMU_IPMC_GROUP_TBL"
TR 50 M=MMU_IPMC_GROUP_TBL;
TR 71 M=MMU_IPMC_GROUP_TBL TSE=F SLTH=T;
TR 71 M=MMU_IPMC_GROUP_TBL TSE=T SLTH=T;
TR 71 M=MMU_IPMC_GROUP_TBL TSE=T SLTH=F;
TR 51 M=MMU_IPMC_GROUP_TBL;

echo "Running 419/679 MMU_ITE_PACKET_PTR_STORE"
TR 50 M=MMU_ITE_PACKET_PTR_STORE;
TR 71 M=MMU_ITE_PACKET_PTR_STORE TSE=F SLTH=T;
TR 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=T;
TR 71 M=MMU_ITE_PACKET_PTR_STORE TSE=T SLTH=F;
TR 51 M=MMU_ITE_PACKET_PTR_STORE;

echo "Running 420/679 MMU_ITE_QMGR_FLL"
TR 50 M=MMU_ITE_QMGR_FLL;
TR 71 M=MMU_ITE_QMGR_FLL TSE=F SLTH=T;
TR 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=T;
TR 71 M=MMU_ITE_QMGR_FLL TSE=T SLTH=F;
TR 51 M=MMU_ITE_QMGR_FLL;

echo "Running 421/679 MMU_ITE_QMGR_QLL"
TR 50 M=MMU_ITE_QMGR_QLL;
TR 71 M=MMU_ITE_QMGR_QLL TSE=F SLTH=T;
TR 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=T;
TR 71 M=MMU_ITE_QMGR_QLL TSE=T SLTH=F;
TR 51 M=MMU_ITE_QMGR_QLL;

echo "Running 422/679 MMU_PROT_GROUP_TABLE"
TR 50 M=MMU_PROT_GROUP_TABLE;
TR 71 M=MMU_PROT_GROUP_TABLE TSE=F SLTH=T;
TR 71 M=MMU_PROT_GROUP_TABLE TSE=T SLTH=T;
TR 71 M=MMU_PROT_GROUP_TABLE TSE=T SLTH=F;
TR 51 M=MMU_PROT_GROUP_TABLE;

echo "Running 423/679 MMU_QSTRUCT_QBLOCK_BM_0"
TR 50 M=MMU_QSTRUCT_QBLOCK_BM_0;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=F SLTH=T;
```

```
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_0 TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QBLOCK_BM_0;

echo "Running 424/679 MMU_QSTRUCT_QBLOCK_BM_1"
TR 50 M=MMU_QSTRUCT_QBLOCK_BM_1;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=F SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_1 TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QBLOCK_BM_1;

echo "Running 425/679 MMU_QSTRUCT_QBLOCK_BM_FIFO_0"
TR 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=F SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0 TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_0;

echo "Running 426/679 MMU_QSTRUCT_QBLOCK_BM_FIFO_1"
TR 50 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=F SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1 TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QBLOCK_BM_FIFO_1;

echo "Running 427/679 MMU_QSTRUCT_QBLOCK_NEXT"
TR 50 M=MMU_QSTRUCT_QBLOCK_NEXT;
TR 71 M=MMU_QSTRUCT_QBLOCK_NEXT TSE=F SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_NEXT TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QBLOCK_NEXT TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QBLOCK_NEXT;

echo "Running 428/679 MMU_QSTRUCT_QENTRY"
TR 50 M=MMU_QSTRUCT_QENTRY;
TR 71 M=MMU_QSTRUCT_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_QSTRUCT_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_QSTRUCT_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_QSTRUCT_QENTRY;

echo "Running 429/679 MMU_RDE_ADM_DPC_STORE_MEM"
TR 50 M=MMU_RDE_ADM_DPC_STORE_MEM;
TR 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=F SLTH=T;
TR 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=T SLTH=T;
TR 71 M=MMU_RDE_ADM_DPC_STORE_MEM TSE=T SLTH=F;
TR 51 M=MMU_RDE_ADM_DPC_STORE_MEM;

echo "Running 430/679 MMU_RDE_ITE_REL_FIFO_MEM"
TR 50 M=MMU_RDE_ITE_REL_FIFO_MEM;
```

```
TR 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=F SLTH=T;
TR 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=T SLTH=T;
TR 71 M=MMU_RDE_ITE_REL_FIFO_MEM TSE=T SLTH=F;
TR 51 M=MMU_RDE_ITE_REL_FIFO_MEM;

echo "Running 431/679 MMU_RDE_PQE_FIFO_MEM"
TR 50 M=MMU_RDE_PQE_FIFO_MEM;
TR 71 M=MMU_RDE_PQE_FIFO_MEM TSE=F SLTH=T;
TR 71 M=MMU_RDE_PQE_FIFO_MEM TSE=T SLTH=T;
TR 71 M=MMU_RDE_PQE_FIFO_MEM TSE=T SLTH=F;
TR 51 M=MMU_RDE_PQE_FIFO_MEM;

echo "Running 432/679 MMU_RDE_REAL_CELL_FIFO_MEM"
TR 50 M=MMU_RDE_REAL_CELL_FIFO_MEM;
TR 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=F SLTH=T;
TR 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=T SLTH=T;
TR 71 M=MMU_RDE_REAL_CELL_FIFO_MEM TSE=T SLTH=F;
TR 51 M=MMU_RDE_REAL_CELL_FIFO_MEM;

echo "Running 433/679 MMU_RDE_TXQ_FLL"
TR 50 M=MMU_RDE_TXQ_FLL;
TR 71 M=MMU_RDE_TXQ_FLL TSE=F SLTH=T;
TR 71 M=MMU_RDE_TXQ_FLL TSE=T SLTH=T;
TR 71 M=MMU_RDE_TXQ_FLL TSE=T SLTH=F;
TR 51 M=MMU_RDE_TXQ_FLL;

echo "Running 434/679 MMU_RDE_TXQ_QLL"
TR 50 M=MMU_RDE_TXQ_QLL;
TR 71 M=MMU_RDE_TXQ_QLL TSE=F SLTH=T;
TR 71 M=MMU_RDE_TXQ_QLL TSE=T SLTH=T;
TR 71 M=MMU_RDE_TXQ_QLL TSE=T SLTH=F;
TR 51 M=MMU_RDE_TXQ_QLL;

echo "Running 435/679 MMU_RDE_TXQ_STATE"
TR 50 M=MMU_RDE_TXQ_STATE;
TR 71 M=MMU_RDE_TXQ_STATE TSE=F SLTH=T;
TR 71 M=MMU_RDE_TXQ_STATE TSE=T SLTH=T;
TR 71 M=MMU_RDE_TXQ_STATE TSE=T SLTH=F;
TR 51 M=MMU_RDE_TXQ_STATE;

echo "Running 436/679 MMU_REPL_GRP_TBL0"
TR 50 M=MMU_REPL_GRP_TBL0;
TR 71 M=MMU_REPL_GRP_TBL0 TSE=F SLTH=T;
TR 71 M=MMU_REPL_GRP_TBL0 TSE=T SLTH=T;
TR 71 M=MMU_REPL_GRP_TBL0 TSE=T SLTH=F;
TR 51 M=MMU_REPL_GRP_TBL0;

echo "Running 437/679 MMU_REPL_GRP_TBL1"
```

```
TR 50 M=MMU_REPL_GRP_TBL1;
TR 71 M=MMU_REPL_GRP_TBL1 TSE=F SLTH=T;
TR 71 M=MMU_REPL_GRP_TBL1 TSE=T SLTH=T;
TR 71 M=MMU_REPL_GRP_TBL1 TSE=T SLTH=F;
TR 51 M=MMU_REPL_GRP_TBL1;

echo "Running 438/679 MMU_REPL_HEAD_TBL"
TR 50 M=MMU_REPL_HEAD_TBL;
TR 71 M=MMU_REPL_HEAD_TBL TSE=F SLTH=T;
TR 71 M=MMU_REPL_HEAD_TBL TSE=T SLTH=T;
TR 71 M=MMU_REPL_HEAD_TBL TSE=T SLTH=F;
TR 51 M=MMU_REPL_HEAD_TBL;

echo "Running 439/679 MMU_REPL_LIST_TBL"
TR 50 M=MMU_REPL_LIST_TBL;
TR 71 M=MMU_REPL_LIST_TBL TSE=F SLTH=T;
TR 71 M=MMU_REPL_LIST_TBL TSE=T SLTH=T;
TR 71 M=MMU_REPL_LIST_TBL TSE=T SLTH=F;
TR 51 M=MMU_REPL_LIST_TBL;

echo "Running 440/679 MMU_REPL_MAP_TBL"
TR 50 M=MMU_REPL_MAP_TBL;
TR 71 M=MMU_REPL_MAP_TBL TSE=F SLTH=T;
TR 71 M=MMU_REPL_MAP_TBL TSE=T SLTH=T;
TR 71 M=MMU_REPL_MAP_TBL TSE=T SLTH=F;
TR 51 M=MMU_REPL_MAP_TBL;

echo "Running 441/679 MMU_REPL_STATE_TBL"
TR 50 M=MMU_REPL_STATE_TBL;
TR 71 M=MMU_REPL_STATE_TBL TSE=F SLTH=T;
TR 71 M=MMU_REPL_STATE_TBL TSE=T SLTH=T;
TR 71 M=MMU_REPL_STATE_TBL TSE=T SLTH=F;
TR 51 M=MMU_REPL_STATE_TBL;

echo "Running 442/679 MMU_RPFAP_BITMAP"
TR 50 M=MMU_RPFAP_BITMAP;
TR 71 M=MMU_RPFAP_BITMAP TSE=F SLTH=T;
TR 71 M=MMU_RPFAP_BITMAP TSE=T SLTH=T;
TR 71 M=MMU_RPFAP_BITMAP TSE=T SLTH=F;
TR 51 M=MMU_RPFAP_BITMAP;

echo "Running 443/679 MMU_RPFAP_STACK"
TR 50 M=MMU_RPFAP_STACK;
TR 71 M=MMU_RPFAP_STACK TSE=F SLTH=T;
TR 71 M=MMU_RPFAP_STACK TSE=T SLTH=T;
TR 71 M=MMU_RPFAP_STACK TSE=T SLTH=F;
TR 51 M=MMU_RPFAP_STACK;
```

```
echo "Running 444/679 MMU_RQE_QMGR_FLL"
TR 50 M=MMU_RQE_QMGR_FLL;
TR 71 M=MMU_RQE_QMGR_FLL TSE=F SLTH=T;
TR 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=T;
TR 71 M=MMU_RQE_QMGR_FLL TSE=T SLTH=F;
TR 51 M=MMU_RQE_QMGR_FLL;

echo "Running 445/679 MMU_RQE_QMGR_QLL"
TR 50 M=MMU_RQE_QMGR_QLL;
TR 71 M=MMU_RQE_QMGR_QLL TSE=F SLTH=T;
TR 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=T;
TR 71 M=MMU_RQE_QMGR_QLL TSE=T SLTH=F;
TR 51 M=MMU_RQE_QMGR_QLL;

echo "Running 446/679 MMU_RQE_QUEUE_OP_NODE_MAP"
TR 50 M=MMU_RQE_QUEUE_OP_NODE_MAP;
TR 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
TR 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
TR 71 M=MMU_RQE_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
TR 51 M=MMU_RQE_QUEUE_OP_NODE_MAP;

echo "Running 447/679 MMU_RQE_WORK_QUEUE"
TR 50 M=MMU_RQE_WORK_QUEUE;
TR 71 M=MMU_RQE_WORK_QUEUE TSE=F SLTH=T;
TR 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=T;
TR 71 M=MMU_RQE_WORK_QUEUE TSE=T SLTH=F;
TR 51 M=MMU_RQE_WORK_QUEUE;

echo "Running 448/679 MMU_THDO_CTRO_UC_DTYPE"
TR 50 M=MMU_THDO_CTRO_UC_DTYPE;
TR 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=F SLTH=T;
TR 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=T SLTH=T;
TR 71 M=MMU_THDO_CTRO_UC_DTYPE TSE=T SLTH=F;
TR 51 M=MMU_THDO_CTRO_UC_DTYPE;

echo "Running 449/679 MMU_THDO_CTRO_UC_PKT_STORE"
TR 50 M=MMU_THDO_CTRO_UC_PKT_STORE;
TR 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=F SLTH=T;
TR 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=T SLTH=T;
TR 71 M=MMU_THDO_CTRO_UC_PKT_STORE TSE=T SLTH=F;
TR 51 M=MMU_THDO_CTRO_UC_PKT_STORE;

echo "Running 450/679 MMU_THDO_OPNCONFIG_CELL"
TR 50 M=MMU_THDO_OPNCONFIG_CELL;
TR 71 M=MMU_THDO_OPNCONFIG_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNCONFIG_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNCONFIG_CELL;
```

```
echo "Running 451/679 MMU_THDO_OPNCONFIG_QENTRY"
TR 50 M=MMU_THDO_OPNCONFIG_QENTRY;
TR 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNCONFIG_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNCONFIG_QENTRY;

echo "Running 452/679 MMU_THDO_OPNCOUNT_CELL"
TR 50 M=MMU_THDO_OPNCOUNT_CELL;
TR 71 M=MMU_THDO_OPNCOUNT_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNCOUNT_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNCOUNT_CELL;

echo "Running 453/679 MMU_THDO_OPNOFFSET_CELL"
TR 50 M=MMU_THDO_OPNOFFSET_CELL;
TR 71 M=MMU_THDO_OPNOFFSET_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNOFFSET_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNOFFSET_CELL;

echo "Running 454/679 MMU_THDO_OPNOFFSET_QENTRY"
TR 50 M=MMU_THDO_OPNOFFSET_QENTRY;
TR 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNOFFSET_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNOFFSET_QENTRY;

echo "Running 455/679 MMU_THDO_OPNSTATUS_CELL"
TR 50 M=MMU_THDO_OPNSTATUS_CELL;
TR 71 M=MMU_THDO_OPNSTATUS_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNSTATUS_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNSTATUS_CELL;

echo "Running 456/679 MMU_THDO_OPNSTATUS_QENTRY"
TR 50 M=MMU_THDO_OPNSTATUS_QENTRY;
TR 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_OPNSTATUS_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_OPNSTATUS_QENTRY;

echo "Running 457/679 MMU_THDO_QCONFIG_CELL"
TR 50 M=MMU_THDO_QCONFIG_CELL;
TR 71 M=MMU_THDO_QCONFIG_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_QCONFIG_CELL TSE=T SLTH=F;
```

```
TR 51 M=MMU_THDO_QCONFIG_CELL;

echo "Running 458/679 MMU_THDO_QCONFIG_QENTRY"
TR 50 M=MMU_THDO_QCONFIG_QENTRY;
TR 71 M=MMU_THDO_QCONFIG_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_QCONFIG_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_QCONFIG_QENTRY;

echo "Running 459/679 MMU_THDO_QCOUNT_CELL"
TR 50 M=MMU_THDO_QCOUNT_CELL;
TR 71 M=MMU_THDO_QCOUNT_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_QCOUNT_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_QCOUNT_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_QCOUNT_CELL;

echo "Running 460/679 MMU_THDO_QOFFSET_CELL"
TR 50 M=MMU_THDO_QOFFSET_CELL;
TR 71 M=MMU_THDO_QOFFSET_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_QOFFSET_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_QOFFSET_CELL;

echo "Running 461/679 MMU_THDO_QOFFSET_QENTRY"
TR 50 M=MMU_THDO_QOFFSET_QENTRY;
TR 71 M=MMU_THDO_QOFFSET_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_QOFFSET_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_QOFFSET_QENTRY;

echo "Running 462/679 MMU_THDO_QRESET_VALUE_CELL"
TR 50 M=MMU_THDO_QRESET_VALUE_CELL;
TR 71 M=MMU_THDO_QRESET_VALUE_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_QRESET_VALUE_CELL TSE=T SLTH=T;
TR 71 M=MMU_THDO_QRESET_VALUE_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_QRESET_VALUE_CELL;

echo "Running 463/679 MMU_THDO_QRESET_VALUE_QENTRY"
TR 50 M=MMU_THDO_QRESET_VALUE_QENTRY;
TR 71 M=MMU_THDO_QRESET_VALUE_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_QRESET_VALUE_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_QRESET_VALUE_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_QRESET_VALUE_QENTRY;

echo "Running 464/679 MMU_THDO_QSTATUS_CELL"
TR 50 M=MMU_THDO_QSTATUS_CELL;
TR 71 M=MMU_THDO_QSTATUS_CELL TSE=F SLTH=T;
TR 71 M=MMU_THDO_QSTATUS_CELL TSE=T SLTH=T;
```

```
TR 71 M=MMU_THDO_QSTATUS_CELL TSE=T SLTH=F;
TR 51 M=MMU_THDO_QSTATUS_CELL;

echo "Running 465/679 MMU_THDO_QSTATUS_QENTRY"
TR 50 M=MMU_THDO_QSTATUS_QENTRY;
TR 71 M=MMU_THDO_QSTATUS_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_THDO_QSTATUS_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_THDO_QSTATUS_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_THDO_QSTATUS_QENTRY;

echo "Running 466/679 MMU_TOQ_PORT_STATE_MEM"
TR 50 M=MMU_TOQ_PORT_STATE_MEM;
TR 71 M=MMU_TOQ_PORT_STATE_MEM TSE=F SLTH=T;
TR 71 M=MMU_TOQ_PORT_STATE_MEM TSE=T SLTH=T;
TR 71 M=MMU_TOQ_PORT_STATE_MEM TSE=T SLTH=F;
TR 51 M=MMU_TOQ_PORT_STATE_MEM;

echo "Running 467/679 MMU_TOQ_STATE_MEM0"
TR 50 M=MMU_TOQ_STATE_MEM0;
TR 71 M=MMU_TOQ_STATE_MEM0 TSE=F SLTH=T;
TR 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=T;
TR 71 M=MMU_TOQ_STATE_MEM0 TSE=T SLTH=F;
TR 51 M=MMU_TOQ_STATE_MEM0;

echo "Running 468/679 MMU_TOQ_STATE_MEM1"
TR 50 M=MMU_TOQ_STATE_MEM1;
TR 71 M=MMU_TOQ_STATE_MEM1 TSE=F SLTH=T;
TR 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=T;
TR 71 M=MMU_TOQ_STATE_MEM1 TSE=T SLTH=F;
TR 51 M=MMU_TOQ_STATE_MEM1;

echo "Running 469/679 MMU_WRED_DROP_CURVE_PROFILE_0"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_0;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=F SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_0 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_0;

echo "Running 470/679 MMU_WRED_DROP_CURVE_PROFILE_1"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_1;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=F SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_1 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_1;

echo "Running 471/679 MMU_WRED_DROP_CURVE_PROFILE_2"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_2;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=F SLTH=T;
```

```
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_2 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_2;

echo "Running 472/679 MMU_WRED_DROP_CURVE_PROFILE_3"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_3;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=F SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_3 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_3;

echo "Running 473/679 MMU_WRED_DROP_CURVE_PROFILE_4"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_4;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=F SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_4 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_4;

echo "Running 474/679 MMU_WRED_DROP_CURVE_PROFILE_5"
TR 50 M=MMU_WRED_DROP_CURVE_PROFILE_5;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=F SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=T;
TR 71 M=MMU_WRED_DROP_CURVE_PROFILE_5 TSE=T SLTH=F;
TR 51 M=MMU_WRED_DROP_CURVE_PROFILE_5;

echo "Running 477/679 MMU_WRED_OPN_CONFIG_BUFFER"
TR 50 M=MMU_WRED_OPN_CONFIG_BUFFER;
TR 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=F SLTH=T;
TR 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=T;
TR 71 M=MMU_WRED_OPN_CONFIG_BUFFER TSE=T SLTH=F;
TR 51 M=MMU_WRED_OPN_CONFIG_BUFFER;

echo "Running 478/679 MMU_WRED_OPN_CONFIG_QENTRY"
TR 50 M=MMU_WRED_OPN_CONFIG_QENTRY;
TR 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_WRED_OPN_CONFIG_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_WRED_OPN_CONFIG_QENTRY;

init soc; init mmu; init misc;

echo "Running 479/679 MMU_WRED_OPN_DROP_THD_DEQ"
TR 50 M=MMU_WRED_OPN_DROP_THD_DEQ;
TR 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=F SLTH=T;
TR 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=T;
TR 71 M=MMU_WRED_OPN_DROP_THD_DEQ TSE=T SLTH=F;
TR 51 M=MMU_WRED_OPN_DROP_THD_DEQ;
```

```
echo "Running 480/679 MMU_WRED_OPN_DROP_THD_ENQ"
TR 50 M=MMU_WRED_OPN_DROP_THD_ENQ;
TR 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=F SLTH=T;
TR 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=T;
TR 71 M=MMU_WRED_OPN_DROP_THD_ENQ TSE=T SLTH=F;
TR 51 M=MMU_WRED_OPN_DROP_THD_ENQ;

echo "Running 483/679 MMU_WRED_QUEUE_CONFIG_BUFFER"
TR 50 M=MMU_WRED_QUEUE_CONFIG_BUFFER;
TR 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=F SLTH=T;
TR 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=T;
TR 71 M=MMU_WRED_QUEUE_CONFIG_BUFFER TSE=T SLTH=F;
TR 51 M=MMU_WRED_QUEUE_CONFIG_BUFFER;

echo "Running 484/679 MMU_WRED_QUEUE_CONFIG_QENTRY"
TR 50 M=MMU_WRED_QUEUE_CONFIG_QENTRY;
TR 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=F SLTH=T;
TR 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=T;
TR 71 M=MMU_WRED_QUEUE_CONFIG_QENTRY TSE=T SLTH=F;
TR 51 M=MMU_WRED_QUEUE_CONFIG_QENTRY;

echo "Running 487/679 MMU_WRED_QUEUE_OP_NODE_MAP"
TR 50 M=MMU_WRED_QUEUE_OP_NODE_MAP;
TR 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=F SLTH=T;
TR 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=T;
TR 71 M=MMU_WRED_QUEUE_OP_NODE_MAP TSE=T SLTH=F;
TR 51 M=MMU_WRED_QUEUE_OP_NODE_MAP;

echo "Running 488/679 MODPORT_MAP_M0"
TR 50 M=MODPORT_MAP_M0;
TR 71 M=MODPORT_MAP_M0 TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_M0 TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_M0 TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_M0;

echo "Running 489/679 MODPORT_MAP_M1"
TR 50 M=MODPORT_MAP_M1;
TR 71 M=MODPORT_MAP_M1 TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_M1 TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_M1 TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_M1;

echo "Running 490/679 MODPORT_MAP_M2"
TR 50 M=MODPORT_MAP_M2;
TR 71 M=MODPORT_MAP_M2 TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_M2 TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_M2 TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_M2;
```

```
echo "Running 491/679 MODPORT_MAP_M3"
TR 50 M=MODPORT_MAP_M3;
TR 71 M=MODPORT_MAP_M3 TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_M3 TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_M3 TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_M3;

echo "Running 492/679 MODPORT_MAP_MIRROR"
TR 50 M=MODPORT_MAP_MIRROR;
TR 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_MIRROR;

echo "Running 493/679 MODPORT_MAP_SW"
TR 50 M=MODPORT_MAP_SW;
TR 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
TR 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
TR 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
TR 51 M=MODPORT_MAP_SW;

echo "Running 494/679 MPLS_ENTRY"
TR 50 M=MPLS_ENTRY;
TR 71 M=MPLS_ENTRY TSE=F SLTH=T;
TR 71 M=MPLS_ENTRY TSE=T SLTH=T;
TR 71 M=MPLS_ENTRY TSE=T SLTH=F;
TR 51 M=MPLS_ENTRY;

echo "Running 495/679 MPLS_OAM_ACH_TYPE_CONFIG"
TR 50 M=MPLS_OAM_ACH_TYPE_CONFIG;
TR 71 M=MPLS_OAM_ACH_TYPE_CONFIG TSE=F SLTH=T;
TR 71 M=MPLS_OAM_ACH_TYPE_CONFIG TSE=T SLTH=T;
TR 71 M=MPLS_OAM_ACH_TYPE_CONFIG TSE=T SLTH=F;
TR 51 M=MPLS_OAM_ACH_TYPE_CONFIG;

echo "Running 496/679 MP_GROUP"
TR 50 M=MP_GROUP;
TR 71 M=MP_GROUP TSE=F SLTH=T;
TR 71 M=MP_GROUP TSE=T SLTH=T;
TR 71 M=MP_GROUP TSE=T SLTH=F;
TR 51 M=MP_GROUP;

echo "Running 497/679 MULTIPASS_LOOPBACK_BITMAP"
TR 50 M=MULTIPASS_LOOPBACK_BITMAP;
TR 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=F SLTH=T;
TR 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=T;
TR 71 M=MULTIPASS_LOOPBACK_BITMAP TSE=T SLTH=F;
```

```
echo "Running 498/679 MY_STATION_TCAM"
TR 50 M=MY_STATION_TCAM;
TR 71 M=MY_STATION_TCAM TSE=F SLTH=T;
TR 71 M=MY_STATION_TCAM TSE=T SLTH=T;
TR 71 M=MY_STATION_TCAM TSE=T SLTH=F;
TR 51 M=MY_STATION_TCAM;

echo "Running 499/679 MY_STATION_TCAM_DATA_ONLY"
TR 50 M=MY_STATION_TCAM_DATA_ONLY;
TR 71 M=MY_STATION_TCAM_DATA_ONLY TSE=F SLTH=T;
TR 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=T;
TR 71 M=MY_STATION_TCAM_DATA_ONLY TSE=T SLTH=F;
TR 51 M=MY_STATION_TCAM_DATA_ONLY;

echo "Running 500/679 MY_STATION_TCAM_ENTRY_ONLY"
TR 50 M=MY_STATION_TCAM_ENTRY_ONLY;
TR 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=F SLTH=T;
TR 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=T;
TR 71 M=MY_STATION_TCAM_ENTRY_ONLY TSE=T SLTH=F;
TR 51 M=MY_STATION_TCAM_ENTRY_ONLY;

echo "Running 501/679 NHI_GROUP_TC_PROFILE"
TR 50 M=NHI_GROUP_TC_PROFILE;
TR 71 M=NHI_GROUP_TC_PROFILE TSE=F SLTH=T;
TR 71 M=NHI_GROUP_TC_PROFILE TSE=T SLTH=T;
TR 71 M=NHI_GROUP_TC_PROFILE TSE=T SLTH=F;
TR 51 M=NHI_GROUP_TC_PROFILE;

echo "Running 502/679 NONUCAST_TRUNK_BLOCK_MASK"
TR 50 M=NONUCAST_TRUNK_BLOCK_MASK;
TR 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
TR 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
TR 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
TR 51 M=NONUCAST_TRUNK_BLOCK_MASK;

init soc; init mmu; init misc;
sb2sanity_ecc_off.soc

echo "Running 503/679 OAMP_FLOW_STAT_10_SEC_ENTRY_1"
TR 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_1;

echo "Running 504/679 OAMP_FLOW_STAT_10_SEC_ENTRY_2"
TR 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2;
```

```
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_2;

echo "Running 505/679 OAMP_FLOW_STAT_10_SEC_ENTRY_3"
TR 50 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_10_SEC_ENTRY_3;

echo "Running 506/679 OAMP_FLOW_STAT_1_SEC_ENTRY_1"
TR 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_1;

echo "Running 507/679 OAMP_FLOW_STAT_1_SEC_ENTRY_2"
TR 50 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_1_SEC_ENTRY_2;

echo "Running 509/679 OAMP_FLOW_STAT_ACCUM_ENTRY_1"
TR 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_1;

echo "Running 510/679 OAMP_FLOW_STAT_ACCUM_ENTRY_2"
TR 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_2;

echo "Running 511/679 OAMP_FLOW_STAT_ACCUM_ENTRY_3"
TR 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_3;

echo "Running 512/679 OAMP_FLOW_STAT_ACCUM_ENTRY_4"
```

```
TR 50 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 TSE=F SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 TSE=T SLTH=T;
TR 71 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4 TSE=T SLTH=F;
TR 51 M=OAMP_FLOW_STAT_ACCUM_ENTRY_4;

echo "Running 513/679 OAMP_PE_0_PROG_TCAM"
TR 50 M=OAMP_PE_0_PROG_TCAM;
TR 71 M=OAMP_PE_0_PROG_TCAM TSE=F SLTH=T;
TR 71 M=OAMP_PE_0_PROG_TCAM TSE=T SLTH=T;
TR 71 M=OAMP_PE_0_PROG_TCAM TSE=T SLTH=F;
TR 51 M=OAMP_PE_0_PROG_TCAM;

echo "Running 514/679 OAMP_PE_1_PROG_TCAM"
TR 50 M=OAMP_PE_1_PROG_TCAM;
TR 71 M=OAMP_PE_1_PROG_TCAM TSE=F SLTH=T;
TR 71 M=OAMP_PE_1_PROG_TCAM TSE=T SLTH=T;
TR 71 M=OAMP_PE_1_PROG_TCAM TSE=T SLTH=F;
TR 51 M=OAMP_PE_1_PROG_TCAM;

echo "Running 515/679 OAMP_PE_GEN_MEM"
TR 50 M=OAMP_PE_GEN_MEM;
TR 71 M=OAMP_PE_GEN_MEM TSE=F SLTH=T;
TR 71 M=OAMP_PE_GEN_MEM TSE=T SLTH=T;
TR 71 M=OAMP_PE_GEN_MEM TSE=T SLTH=F;
TR 51 M=OAMP_PE_GEN_MEM;

echo "Running 516/679 OAMP_PE_PROGRAM"
TR 50 M=OAMP_PE_PROGRAM;
TR 71 M=OAMP_PE_PROGRAM TSE=F SLTH=T;
TR 71 M=OAMP_PE_PROGRAM TSE=T SLTH=T;
TR 71 M=OAMP_PE_PROGRAM TSE=T SLTH=F;
TR 51 M=OAMP_PE_PROGRAM;

echo "Running 517/679 OAMP_RX_OAM_ID_TCAM"
TR 50 M=OAMP_RX_OAM_ID_TCAM;
TR 71 M=OAMP_RX_OAM_ID_TCAM TSE=F SLTH=T;
TR 71 M=OAMP_RX_OAM_ID_TCAM TSE=T SLTH=T;
TR 71 M=OAMP_RX_OAM_ID_TCAM TSE=T SLTH=F;
TR 51 M=OAMP_RX_OAM_ID_TCAM;

echo "Running 518/679 OAMP_SAT_RX_FLOW_ID"
TR 50 M=OAMP_SAT_RX_FLOW_ID;
TR 71 M=OAMP_SAT_RX_FLOW_ID TSE=F SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_ID TSE=T SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_ID TSE=T SLTH=F;
TR 51 M=OAMP_SAT_RX_FLOW_ID;
```

```
echo "Running 519/679 OAMP_SAT_RX_FLOW_PARAMS"
TR 50 M=OAMP_SAT_RX_FLOW_PARAMS;
TR 71 M=OAMP_SAT_RX_FLOW_PARAMS TSE=F SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_PARAMS TSE=T SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_PARAMS TSE=T SLTH=F;
TR 51 M=OAMP_SAT_RX_FLOW_PARAMS;

echo "Running 520/679 OAMP_SAT_RX_FLOW_STATS"
TR 50 M=OAMP_SAT_RX_FLOW_STATS;
TR 71 M=OAMP_SAT_RX_FLOW_STATS TSE=F SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_STATS TSE=T SLTH=T;
TR 71 M=OAMP_SAT_RX_FLOW_STATS TSE=T SLTH=F;
TR 51 M=OAMP_SAT_RX_FLOW_STATS;

echo "Running 521/679 OAMP_SAT_TX"
TR 50 M=OAMP_SAT_TX;
TR 71 M=OAMP_SAT_TX TSE=F SLTH=T;
TR 71 M=OAMP_SAT_TX TSE=T SLTH=T;
TR 71 M=OAMP_SAT_TX TSE=T SLTH=F;
TR 51 M=OAMP_SAT_TX;

echo "Running 525/679 OAM_DGLP_PROFILE"
TR 50 M=OAM_DGLP_PROFILE;
TR 71 M=OAM_DGLP_PROFILE TSE=F SLTH=T;
TR 71 M=OAM_DGLP_PROFILE TSE=T SLTH=T;
TR 71 M=OAM_DGLP_PROFILE TSE=T SLTH=F;
TR 51 M=OAM_DGLP_PROFILE;

echo "Running 526/679 OAM_FLEXIBLE_DOMAIN_CONTROL"
TR 50 M=OAM_FLEXIBLE_DOMAIN_CONTROL;
TR 71 M=OAM_FLEXIBLE_DOMAIN_CONTROL TSE=F SLTH=T;
TR 71 M=OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=T;
TR 71 M=OAM_FLEXIBLE_DOMAIN_CONTROL TSE=T SLTH=F;
TR 51 M=OAM_FLEXIBLE_DOMAIN_CONTROL;

echo "Running 527/679 OAM_OPCODE_CONTROL_PROFILE"
TR 50 M=OAM_OPCODE_CONTROL_PROFILE;
TR 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=F SLTH=T;
TR 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=T;
TR 71 M=OAM_OPCODE_CONTROL_PROFILE TSE=T SLTH=F;
TR 51 M=OAM_OPCODE_CONTROL_PROFILE;

echo "Running 528/679 OAM_OPCODE_GROUP"
TR 50 M=OAM_OPCODE_GROUP;
TR 71 M=OAM_OPCODE_GROUP TSE=F SLTH=T;
TR 71 M=OAM_OPCODE_GROUP TSE=T SLTH=T;
TR 71 M=OAM_OPCODE_GROUP TSE=T SLTH=F;
TR 51 M=OAM_OPCODE_GROUP;
```

```
echo "Running 529/679 PHB2_COS_MAP"
TR 50 M=PHB2_COS_MAP;
TR 71 M=PHB2_COS_MAP TSE=F SLTH=T;
TR 71 M=PHB2_COS_MAP TSE=T SLTH=T;
TR 71 M=PHB2_COS_MAP TSE=T SLTH=F;
TR 51 M=PHB2_COS_MAP;

echo "Running 530/679 PHYSICAL_PORT_BASE_QUEUE"
TR 50 M=PHYSICAL_PORT_BASE_QUEUE;
TR 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=F SLTH=T;
TR 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=T SLTH=T;
TR 71 M=PHYSICAL_PORT_BASE_QUEUE TSE=T SLTH=F;
TR 51 M=PHYSICAL_PORT_BASE_QUEUE;

echo "Running 531/679 PORT_BRIDGE_BMAP"
TR 50 M=PORT_BRIDGE_BMAP;
TR 71 M=PORT_BRIDGE_BMAP TSE=F SLTH=T;
TR 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=T;
TR 71 M=PORT_BRIDGE_BMAP TSE=T SLTH=F;

echo "Running 532/679 PORT_BRIDGE_MIRROR_BMAP"
TR 50 M=PORT_BRIDGE_MIRROR_BMAP;
TR 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=F SLTH=T;
TR 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=T;
TR 71 M=PORT_BRIDGE_MIRROR_BMAP TSE=T SLTH=F;

echo "Running 533/679 PORT_CBL_TABLE"
TR 50 M=PORT_CBL_TABLE;
TR 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
TR 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
TR 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
TR 51 M=PORT_CBL_TABLE;

echo "Running 534/679 PORT_CBL_TABLE_MODBASE"
TR 50 M=PORT_CBL_TABLE_MODBASE;
TR 71 M=PORT_CBL_TABLE_MODBASE TSE=F SLTH=T;
TR 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=T;
TR 71 M=PORT_CBL_TABLE_MODBASE TSE=T SLTH=F;
TR 51 M=PORT_CBL_TABLE_MODBASE;

echo "Running 535/679 PORT_COS_MAP"
TR 50 M=PORT_COS_MAP;
TR 71 M=PORT_COS_MAP TSE=F SLTH=T;
TR 71 M=PORT_COS_MAP TSE=T SLTH=T;
TR 71 M=PORT_COS_MAP TSE=T SLTH=F;
TR 51 M=PORT_COS_MAP;
```

```
echo "Running 536/679 PORT_OR_TRUNK_MAC_COUNT"
TR 50 M=PORT_OR_TRUNK_MAC_COUNT;
TR 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
TR 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
TR 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
TR 51 M=PORT_OR_TRUNK_MAC_COUNT;

echo "Running 537/679 PORT_OR_TRUNK_MAC_LIMIT"
TR 50 M=PORT_OR_TRUNK_MAC_LIMIT;
TR 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
TR 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
TR 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
TR 51 M=PORT_OR_TRUNK_MAC_LIMIT;

echo "Running 538/679 PORT_TAB"
TR 50 M=PORT_TAB;
TR 71 M=PORT_TAB TSE=F SLTH=T;
TR 71 M=PORT_TAB TSE=T SLTH=T;
TR 71 M=PORT_TAB TSE=T SLTH=F;
TR 51 M=PORT_TAB;

echo "Running 539/679 PP_PORT_GPP_TRANSLATION_1"
TR 50 M=PP_PORT_GPP_TRANSLATION_1;
TR 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=F SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_1 TSE=T SLTH=F;

echo "Running 540/679 PP_PORT_GPP_TRANSLATION_2"
TR 50 M=PP_PORT_GPP_TRANSLATION_2;
TR 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=F SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_2 TSE=T SLTH=F;

echo "Running 541/679 PP_PORT_GPP_TRANSLATION_3"
TR 50 M=PP_PORT_GPP_TRANSLATION_3;
TR 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=F SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=T SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_3 TSE=T SLTH=F;

echo "Running 542/679 PP_PORT_GPP_TRANSLATION_4"
TR 50 M=PP_PORT_GPP_TRANSLATION_4;
TR 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=F SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=T SLTH=T;
TR 71 M=PP_PORT_GPP_TRANSLATION_4 TSE=T SLTH=F;

echo "Running 543/679 PP_PORT_TO_PHYSICAL_PORT_MAP"
TR 50 M=PP_PORT_TO_PHYSICAL_PORT_MAP;
TR 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=F SLTH=T;
```

```
TR 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=T SLTH=T;
TR 71 M=PP_PORT_TO_PHYSICAL_PORT_MAP TSE=T SLTH=F;
TR 51 M=PP_PORT_TO_PHYSICAL_PORT_MAP;

echo "Running 544/679 PTP_LABEL_RANGE_PROFILE_TABLE"
TR 50 M=PTP_LABEL_RANGE_PROFILE_TABLE;
TR 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=F SLTH=T;
TR 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=T SLTH=T;
TR 71 M=PTP_LABEL_RANGE_PROFILE_TABLE TSE=T SLTH=F;
TR 51 M=PTP_LABEL_RANGE_PROFILE_TABLE;

echo "Running 545/679 RMEP"
TR 50 M=RMEP;
TR 71 M=RMEP TSE=F SLTH=T;
TR 71 M=RMEP TSE=T SLTH=T;
TR 71 M=RMEP TSE=T SLTH=F;
TR 51 M=RMEP;

echo "Running 546/679 RTAG7_FLOW_BASED_HASH"
TR 50 M=RTAG7_FLOW_BASED_HASH;
TR 71 M=RTAG7_FLOW_BASED_HASH TSE=F SLTH=T;
TR 71 M=RTAG7_FLOW_BASED_HASH TSE=T SLTH=T;
TR 71 M=RTAG7_FLOW_BASED_HASH TSE=T SLTH=F;
TR 51 M=RTAG7_FLOW_BASED_HASH;

echo "Running 547/679 RTAG7_PORT_BASED_HASH"
TR 50 M=RTAG7_PORT_BASED_HASH;
TR 71 M=RTAG7_PORT_BASED_HASH TSE=F SLTH=T;
TR 71 M=RTAG7_PORT_BASED_HASH TSE=T SLTH=T;
TR 71 M=RTAG7_PORT_BASED_HASH TSE=T SLTH=F;
TR 51 M=RTAG7_PORT_BASED_HASH;

echo "Running 549/679 RXLP_DEBUG_COUNTER0"
TR 50 M=RXLP_DEBUG_COUNTER0;
TR 71 M=RXLP_DEBUG_COUNTER0 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER0 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER0 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER0;

echo "Running 550/679 RXLP_DEBUG_COUNTER1"
TR 50 M=RXLP_DEBUG_COUNTER1;
TR 71 M=RXLP_DEBUG_COUNTER1 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER1 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER1 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER1;

echo "Running 551/679 RXLP_DEBUG_COUNTER2"
TR 50 M=RXLP_DEBUG_COUNTER2;
```

```
TR 71 M=RXLP_DEBUG_COUNTER2 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER2 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER2 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER2;

echo "Running 552/679 RXLP_DEBUG_COUNTER3"
TR 50 M=RXLP_DEBUG_COUNTER3;
TR 71 M=RXLP_DEBUG_COUNTER3 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER3 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER3 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER3;

echo "Running 553/679 RXLP_DEBUG_COUNTER4"
TR 50 M=RXLP_DEBUG_COUNTER4;
TR 71 M=RXLP_DEBUG_COUNTER4 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER4 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER4 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER4;

echo "Running 554/679 RXLP_DEBUG_COUNTER5"
TR 50 M=RXLP_DEBUG_COUNTER5;
TR 71 M=RXLP_DEBUG_COUNTER5 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER5 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER5 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER5;

echo "Running 555/679 RXLP_DEBUG_COUNTER6"
TR 50 M=RXLP_DEBUG_COUNTER6;
TR 71 M=RXLP_DEBUG_COUNTER6 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER6 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER6 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER6;

echo "Running 556/679 RXLP_DEBUG_COUNTER7"
TR 50 M=RXLP_DEBUG_COUNTER7;
TR 71 M=RXLP_DEBUG_COUNTER7 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER7 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER7 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER7;

echo "Running 557/679 RXLP_DEBUG_COUNTER8"
TR 50 M=RXLP_DEBUG_COUNTER8;
TR 71 M=RXLP_DEBUG_COUNTER8 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER8 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER8 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER8;

echo "Running 558/679 RXLP_DEBUG_COUNTER9"
```

```
TR 50 M=RXLP_DEBUG_COUNTER9;
TR 71 M=RXLP_DEBUG_COUNTER9 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER9 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER9 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER9;

echo "Running 559/679 RXLP_DEBUG_COUNTER10"
TR 50 M=RXLP_DEBUG_COUNTER10;
TR 71 M=RXLP_DEBUG_COUNTER10 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER10 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER10 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER10;

echo "Running 560/679 RXLP_DEBUG_COUNTER11"
TR 50 M=RXLP_DEBUG_COUNTER11;
TR 71 M=RXLP_DEBUG_COUNTER11 TSE=F SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER11 TSE=T SLTH=T;
TR 71 M=RXLP_DEBUG_COUNTER11 TSE=T SLTH=F;
TR 51 M=RXLP_DEBUG_COUNTER11;

echo "Running 561/679 RXLP_DFC_MSG_BIT_REMAP_PORT_0"
TR 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=F SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=T SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0 TSE=T SLTH=F;
TR 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_0;

echo "Running 562/679 RXLP_DFC_MSG_BIT_REMAP_PORT_1"
TR 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=F SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=T SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1 TSE=T SLTH=F;
TR 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_1;

echo "Running 563/679 RXLP_DFC_MSG_BIT_REMAP_PORT_2"
TR 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=F SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=T SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2 TSE=T SLTH=F;
TR 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_2;

echo "Running 564/679 RXLP_DFC_MSG_BIT_REMAP_PORT_3"
TR 50 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=F SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=T SLTH=T;
TR 71 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3 TSE=T SLTH=F;
TR 51 M=RXLP_DFC_MSG_BIT_REMAP_PORT_3;
```

```
echo "Running 567/679 RXLP_INTERNAL_STREAM_MAP_PORT_0"
TR 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_0;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=F SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=T SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_0 TSE=T SLTH=F;
TR 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_0;

echo "Running 568/679 RXLP_INTERNAL_STREAM_MAP_PORT_1"
TR 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_1;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=F SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=T SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_1 TSE=T SLTH=F;
TR 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_1;

echo "Running 569/679 RXLP_INTERNAL_STREAM_MAP_PORT_2"
TR 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_2;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=F SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=T SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_2 TSE=T SLTH=F;
TR 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_2;

echo "Running 570/679 RXLP_INTERNAL_STREAM_MAP_PORT_3"
TR 50 M=RXLP_INTERNAL_STREAM_MAP_PORT_3;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=F SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=T SLTH=T;
TR 71 M=RXLP_INTERNAL_STREAM_MAP_PORT_3 TSE=T SLTH=F;
TR 51 M=RXLP_INTERNAL_STREAM_MAP_PORT_3;

echo "Running 572/679 RXLP_MAX_FRAME_SIZE"
TR 50 M=RXLP_MAX_FRAME_SIZE;
TR 71 M=RXLP_MAX_FRAME_SIZE TSE=F SLTH=T;
TR 71 M=RXLP_MAX_FRAME_SIZE TSE=T SLTH=T;
TR 71 M=RXLP_MAX_FRAME_SIZE TSE=T SLTH=F;
TR 51 M=RXLP_MAX_FRAME_SIZE;

echo "Running 573/679 RX_PROT_GROUP_TABLE"
TR 50 M=RX_PROT_GROUP_TABLE;
TR 71 M=RX_PROT_GROUP_TABLE TSE=F SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE TSE=T SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE TSE=T SLTH=F;
TR 51 M=RX_PROT_GROUP_TABLE;

echo "Running 574/679 RX_PROT_GROUP_TABLE_1"
TR 50 M=RX_PROT_GROUP_TABLE_1;
TR 71 M=RX_PROT_GROUP_TABLE_1 TSE=F SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_1 TSE=T SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_1 TSE=T SLTH=F;
TR 51 M=RX_PROT_GROUP_TABLE_1;
```

```
echo "Running 575/679 RX_PROT_GROUP_TABLE_1_DMA"
TR 50 M=RX_PROT_GROUP_TABLE_1_DMA;
TR 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=F SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=T SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_1_DMA TSE=T SLTH=F;
TR 51 M=RX_PROT_GROUP_TABLE_1_DMA;

echo "Running 576/679 RX_PROT_GROUP_TABLE_DMA"
TR 50 M=RX_PROT_GROUP_TABLE_DMA;
TR 71 M=RX_PROT_GROUP_TABLE_DMA TSE=F SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_DMA TSE=T SLTH=T;
TR 71 M=RX_PROT_GROUP_TABLE_DMA TSE=T SLTH=F;
TR 51 M=RX_PROT_GROUP_TABLE_DMA;

echo "Running 577/679 SERVICE_COS_MAP"
TR 50 M=SERVICE_COS_MAP;
TR 71 M=SERVICE_COS_MAP TSE=F SLTH=T;
TR 71 M=SERVICE_COS_MAP TSE=T SLTH=T;
TR 71 M=SERVICE_COS_MAP TSE=T SLTH=F;
TR 51 M=SERVICE_COS_MAP;

echo "Running 578/679 SER_ACC_TYPE_MAP"
TR 50 M=SER_ACC_TYPE_MAP;
TR 71 M=SER_ACC_TYPE_MAP TSE=F SLTH=T;
TR 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=T;
TR 71 M=SER_ACC_TYPE_MAP TSE=T SLTH=F;
TR 51 M=SER_ACC_TYPE_MAP;

echo "Running 579/679 SER_MEMORY"
TR 50 M=SER_MEMORY;
TR 71 M=SER_MEMORY TSE=F SLTH=T;
TR 71 M=SER_MEMORY TSE=T SLTH=T;
TR 71 M=SER_MEMORY TSE=T SLTH=F;
TR 51 M=SER_MEMORY;

echo "Running 580/679 SER_RESULT_0"
TR 50 M=SER_RESULT_0;
TR 71 M=SER_RESULT_0 TSE=F SLTH=T;
TR 71 M=SER_RESULT_0 TSE=T SLTH=T;
TR 71 M=SER_RESULT_0 TSE=T SLTH=F;

echo "Running 581/679 SER_RESULT_1"
TR 50 M=SER_RESULT_1;
TR 71 M=SER_RESULT_1 TSE=F SLTH=T;
TR 71 M=SER_RESULT_1 TSE=T SLTH=T;
TR 71 M=SER_RESULT_1 TSE=T SLTH=F;
```

```
echo "Running 582/679 SER_RESULT_DATA_0"
TR 50 M=SER_RESULT_DATA_0;
TR 71 M=SER_RESULT_DATA_0 TSE=F SLTH=T;
TR 71 M=SER_RESULT_DATA_0 TSE=T SLTH=T;
TR 71 M=SER_RESULT_DATA_0 TSE=T SLTH=F;

echo "Running 583/679 SER_RESULT_DATA_1"
TR 50 M=SER_RESULT_DATA_1;
TR 71 M=SER_RESULT_DATA_1 TSE=F SLTH=T;
TR 71 M=SER_RESULT_DATA_1 TSE=T SLTH=T;
TR 71 M=SER_RESULT_DATA_1 TSE=T SLTH=F;

echo "Running 584/679 SER_RESULT_EXPECTED_0"
TR 50 M=SER_RESULT_EXPECTED_0;
TR 71 M=SER_RESULT_EXPECTED_0 TSE=F SLTH=T;
TR 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=T;
TR 71 M=SER_RESULT_EXPECTED_0 TSE=T SLTH=F;

echo "Running 585/679 SER_RESULT_EXPECTED_1"
TR 50 M=SER_RESULT_EXPECTED_1;
TR 71 M=SER_RESULT_EXPECTED_1 TSE=F SLTH=T;
TR 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=T;
TR 71 M=SER_RESULT_EXPECTED_1 TSE=T SLTH=F;

echo "Running 586/679 SOURCE_MOD_PROXY_TABLE"
TR 50 M=SOURCE_MOD_PROXY_TABLE;
TR 71 M=SOURCE_MOD_PROXY_TABLE TSE=F SLTH=T;
TR 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=T;
TR 71 M=SOURCE_MOD_PROXY_TABLE TSE=T SLTH=F;
TR 51 M=SOURCE_MOD_PROXY_TABLE;

echo "Running 587/679 SOURCE_TRUNK_MAP_MODBASE"
TR 50 M=SOURCE_TRUNK_MAP_MODBASE;
TR 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=F SLTH=T;
TR 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=T;
TR 71 M=SOURCE_TRUNK_MAP_MODBASE TSE=T SLTH=F;
TR 51 M=SOURCE_TRUNK_MAP_MODBASE;

echo "Running 588/679 SOURCE_TRUNK_MAP_TABLE"
TR 50 M=SOURCE_TRUNK_MAP_TABLE;
TR 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
TR 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
TR 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
TR 51 M=SOURCE_TRUNK_MAP_TABLE;

echo "Running 589/679 SOURCE_VP"
TR 50 M=SOURCE_VP;
TR 71 M=SOURCE_VP TSE=F SLTH=T;
```

```
TR 71 M=SOURCE_VP TSE=T SLTH=T;
TR 71 M=SOURCE_VP TSE=T SLTH=F;
TR 51 M=SOURCE_VP;

echo "Running 590/679 SRC_MODID_EGRESS"
TR 50 M=SRC_MODID_EGRESS;
TR 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
TR 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
TR 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
TR 51 M=SRC_MODID_EGRESS;

echo "Running 591/679 SRC_MODID_INGRESS_BLOCK"
TR 50 M=SRC_MODID_INGRESS_BLOCK;
TR 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
TR 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
TR 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
TR 51 M=SRC_MODID_INGRESS_BLOCK;

echo "Running 592/679 STG_TAB"
TR 50 M=STG_TAB;
TR 71 M=STG_TAB TSE=F SLTH=T;
TR 71 M=STG_TAB TSE=T SLTH=T;
TR 71 M=STG_TAB TSE=T SLTH=F;
TR 51 M=STG_TAB;

echo "Running 593/679 SUBPORT_TAG_TO_PP_PORT_MAP"
TR 50 M=SUBPORT_TAG_TO_PP_PORT_MAP;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=F SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=T SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP TSE=T SLTH=F;
TR 51 M=SUBPORT_TAG_TO_PP_PORT_MAP;

echo "Running 594/679 SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY"
TR 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=F SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=T SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY TSE=T SLTH=F;
TR 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_DATA_ONLY;

echo "Running 595/679 SUBPORT_TAG_TO_PP_PORT_MAP_ONLY"
TR 50 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=F SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=T SLTH=T;
TR 71 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY TSE=T SLTH=F;
TR 51 M=SUBPORT_TAG_TO_PP_PORT_MAP_ONLY;

echo "Running 596/679 SVM_MACROFLOW_INDEX_TABLE"
TR 50 M=SVM_MACROFLOW_INDEX_TABLE;
```

```
TR 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=F SLTH=T;
TR 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=T;
TR 71 M=SVM_MACROFLOW_INDEX_TABLE TSE=T SLTH=F;
TR 51 M=SVM_MACROFLOW_INDEX_TABLE;

echo "Running 597/679 SVM_METER_TABLE"
TR 50 M=SVM_METER_TABLE;
TR 71 M=SVM_METER_TABLE TSE=F SLTH=T;
TR 71 M=SVM_METER_TABLE TSE=T SLTH=T;
TR 71 M=SVM_METER_TABLE TSE=T SLTH=F;
TR 51 M=SVM_METER_TABLE;

echo "Running 598/679 SVM_OFFSET_TABLE"
TR 50 M=SVM_OFFSET_TABLE;
TR 71 M=SVM_OFFSET_TABLE TSE=F SLTH=T;
TR 71 M=SVM_OFFSET_TABLE TSE=T SLTH=T;
TR 71 M=SVM_OFFSET_TABLE TSE=T SLTH=F;
TR 51 M=SVM_OFFSET_TABLE;

echo "Running 599/679 SVM_POLICY_TABLE"
TR 50 M=SVM_POLICY_TABLE;
TR 71 M=SVM_POLICY_TABLE TSE=F SLTH=T;
TR 71 M=SVM_POLICY_TABLE TSE=T SLTH=T;
TR 71 M=SVM_POLICY_TABLE TSE=T SLTH=F;
TR 51 M=SVM_POLICY_TABLE;

echo "Running 600/679 SYSTEM_CONFIG_TABLE"
TR 50 M=SYSTEM_CONFIG_TABLE;
TR 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
TR 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
TR 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
TR 51 M=SYSTEM_CONFIG_TABLE;

echo "Running 601/679 SYSTEM_CONFIG_TABLE_MODBASE"
TR 50 M=SYSTEM_CONFIG_TABLE_MODBASE;
TR 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=F SLTH=T;
TR 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=T;
TR 71 M=SYSTEM_CONFIG_TABLE_MODBASE TSE=T SLTH=F;
TR 51 M=SYSTEM_CONFIG_TABLE_MODBASE;

echo "Running 602/679 TCP_FN"
TR 50 M=TCP_FN;
TR 71 M=TCP_FN TSE=F SLTH=T;
TR 71 M=TCP_FN TSE=T SLTH=T;
TR 71 M=TCP_FN TSE=T SLTH=F;
TR 51 M=TCP_FN;

echo "Running 623/679 THDO_OPNCOUNT_QENTRY"
```

```
TR 50 M=THDO_OPNCOUNT_QENTRY;
TR 71 M=THDO_OPNCOUNT_QENTRY TSE=F SLTH=T;
TR 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=T;
TR 71 M=THDO_OPNCOUNT_QENTRY TSE=T SLTH=F;
TR 51 M=THDO_OPNCOUNT_QENTRY;

echo "Running 624/679 THDO_QCOUNT_QENTRY"
TR 50 M=THDO_QCOUNT_QENTRY;
TR 71 M=THDO_QCOUNT_QENTRY TSE=F SLTH=T;
TR 71 M=THDO_QCOUNT_QENTRY TSE=T SLTH=T;
TR 71 M=THDO_QCOUNT_QENTRY TSE=T SLTH=F;
TR 51 M=THDO_QCOUNT_QENTRY;

echo "Running 625/679 TOS_FN"
TR 50 M=TOS_FN;
TR 71 M=TOS_FN TSE=F SLTH=T;
TR 71 M=TOS_FN TSE=T SLTH=T;
TR 71 M=TOS_FN TSE=T SLTH=F;
TR 51 M=TOS_FN;

echo "Running 626/679 TRUNK_BITMAP"
TR 50 M=TRUNK_BITMAP;
TR 71 M=TRUNK_BITMAP TSE=F SLTH=T;
TR 71 M=TRUNK_BITMAP TSE=T SLTH=T;
TR 71 M=TRUNK_BITMAP TSE=T SLTH=F;
TR 51 M=TRUNK_BITMAP;

echo "Running 627/679 TRUNK_CBL_TABLE"
TR 50 M=TRUNK_CBL_TABLE;
TR 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
TR 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
TR 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
TR 51 M=TRUNK_CBL_TABLE;

echo "Running 628/679 TRUNK_GROUP"
TR 50 M=TRUNK_GROUP;
TR 71 M=TRUNK_GROUP TSE=F SLTH=T;
TR 71 M=TRUNK_GROUP TSE=T SLTH=T;
TR 71 M=TRUNK_GROUP TSE=T SLTH=F;
TR 51 M=TRUNK_GROUP;

echo "Running 629/679 TRUNK_MEMBER"
TR 50 M=TRUNK_MEMBER;
TR 71 M=TRUNK_MEMBER TSE=F SLTH=T;
TR 71 M=TRUNK_MEMBER TSE=T SLTH=T;
TR 71 M=TRUNK_MEMBER TSE=T SLTH=F;
TR 51 M=TRUNK_MEMBER;
```

```
echo "Running 630/679 TTL_FN"
TR 50 M=TTL_FN;
TR 71 M=TTL_FN TSE=F SLTH=T;
TR 71 M=TTL_FN TSE=T SLTH=T;
TR 71 M=TTL_FN TSE=T SLTH=F;
TR 51 M=TTL_FN;

echo "Running 631/679 TXLP_DEBUG_COUNTER0"
TR 50 M=TXLP_DEBUG_COUNTER0;
TR 71 M=TXLP_DEBUG_COUNTER0 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER0 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER0 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER0;

echo "Running 632/679 TXLP_DEBUG_COUNTER1"
TR 50 M=TXLP_DEBUG_COUNTER1;
TR 71 M=TXLP_DEBUG_COUNTER1 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER1 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER1 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER1;

echo "Running 633/679 TXLP_DEBUG_COUNTER2"
TR 50 M=TXLP_DEBUG_COUNTER2;
TR 71 M=TXLP_DEBUG_COUNTER2 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER2 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER2 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER2;

echo "Running 634/679 TXLP_DEBUG_COUNTER3"
TR 50 M=TXLP_DEBUG_COUNTER3;
TR 71 M=TXLP_DEBUG_COUNTER3 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER3 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER3 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER3;

echo "Running 635/679 TXLP_DEBUG_COUNTER4"
TR 50 M=TXLP_DEBUG_COUNTER4;
TR 71 M=TXLP_DEBUG_COUNTER4 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER4 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER4 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER4;

echo "Running 636/679 TXLP_DEBUG_COUNTER5"
TR 50 M=TXLP_DEBUG_COUNTER5;
TR 71 M=TXLP_DEBUG_COUNTER5 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER5 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER5 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER5;
```

```
echo "Running 637/679 TXLP_DEBUG_COUNTER6"
TR 50 M=TXLP_DEBUG_COUNTER6;
TR 71 M=TXLP_DEBUG_COUNTER6 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER6 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER6 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER6;

echo "Running 638/679 TXLP_DEBUG_COUNTER7"
TR 50 M=TXLP_DEBUG_COUNTER7;
TR 71 M=TXLP_DEBUG_COUNTER7 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER7 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER7 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER7;

echo "Running 639/679 TXLP_DEBUG_COUNTER8"
TR 50 M=TXLP_DEBUG_COUNTER8;
TR 71 M=TXLP_DEBUG_COUNTER8 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER8 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER8 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER8;

echo "Running 640/679 TXLP_DEBUG_COUNTER9"
TR 50 M=TXLP_DEBUG_COUNTER9;
TR 71 M=TXLP_DEBUG_COUNTER9 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER9 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER9 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER9;

echo "Running 641/679 TXLP_DEBUG_COUNTER10"
TR 50 M=TXLP_DEBUG_COUNTER10;
TR 71 M=TXLP_DEBUG_COUNTER10 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER10 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER10 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER10;

echo "Running 642/679 TXLP_DEBUG_COUNTER11"
TR 50 M=TXLP_DEBUG_COUNTER11;
TR 71 M=TXLP_DEBUG_COUNTER11 TSE=F SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER11 TSE=T SLTH=T;
TR 71 M=TXLP_DEBUG_COUNTER11 TSE=T SLTH=F;
TR 51 M=TXLP_DEBUG_COUNTER11;

echo "Running 643/679 TXLP_INT2EXT_STREAM_MAP_TABLE"
TR 50 M=TXLP_INT2EXT_STREAM_MAP_TABLE;
TR 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=F SLTH=T;
TR 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=T SLTH=T;
TR 71 M=TXLP_INT2EXT_STREAM_MAP_TABLE TSE=T SLTH=F;
```

```
TR 51 M=TXLP_INT2EXT_STREAM_MAP_TABLE;

echo "Running 644/679 TXLP_PORT_ADDR_MAP_TABLE"
TR 50 M=TXLP_PORT_ADDR_MAP_TABLE;
TR 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=F SLTH=T;
TR 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=T SLTH=T;
TR 71 M=TXLP_PORT_ADDR_MAP_TABLE TSE=T SLTH=F;
TR 51 M=TXLP_PORT_ADDR_MAP_TABLE;

echo "Running 647/679 TXLP_PORT_STREAM_BITMAP_TABLE"
TR 50 M=TXLP_PORT_STREAM_BITMAP_TABLE;
TR 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=F SLTH=T;
TR 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=T SLTH=T;
TR 71 M=TXLP_PORT_STREAM_BITMAP_TABLE TSE=T SLTH=F;
TR 51 M=TXLP_PORT_STREAM_BITMAP_TABLE;

echo "Running 649/679 TXLP_STREAM_ADDR_MAP_TABLE"
TR 50 M=TXLP_STREAM_ADDR_MAP_TABLE;
TR 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=F SLTH=T;
TR 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=T SLTH=T;
TR 71 M=TXLP_STREAM_ADDR_MAP_TABLE TSE=T SLTH=F;
TR 51 M=TXLP_STREAM_ADDR_MAP_TABLE;

echo "Running 652/679 UDF_CONDITIONAL_CHECK_TABLE_CAM"
TR 50 M=UDF_CONDITIONAL_CHECK_TABLE_CAM;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=F SLTH=T;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=T SLTH=T;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_CAM TSE=T SLTH=F;
TR 51 M=UDF_CONDITIONAL_CHECK_TABLE_CAM;

echo "Running 653/679 UDF_CONDITIONAL_CHECK_TABLE_RAM"
TR 50 M=UDF_CONDITIONAL_CHECK_TABLE_RAM;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=F SLTH=T;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=T SLTH=T;
TR 71 M=UDF_CONDITIONAL_CHECK_TABLE_RAM TSE=T SLTH=F;
TR 51 M=UDF_CONDITIONAL_CHECK_TABLE_RAM;

echo "Running 654/679 UNKNOWN_HGI_BITMAP"
TR 50 M=UNKNOWN_HGI_BITMAP;
TR 71 M=UNKNOWN_HGI_BITMAP TSE=F SLTH=T;
TR 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=T;
TR 71 M=UNKNOWN_HGI_BITMAP TSE=T SLTH=F;
TR 51 M=UNKNOWN_HGI_BITMAP;

echo "Running 655/679 UNKNOWN_MCAST_BLOCK_MASK"
TR 50 M=UNKNOWN_MCAST_BLOCK_MASK;
TR 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=F SLTH=T;
TR 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=T;
```

```
TR 71 M=UNKNOWN_MCAST_BLOCK_MASK TSE=T SLTH=F;
TR 51 M=UNKNOWN_MCAST_BLOCK_MASK;

echo "Running 656/679 UNKNOWN_UCAST_BLOCK_MASK"
TR 50 M=UNKNOWN_UCAST_BLOCK_MASK;
TR 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=F SLTH=T;
TR 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=T;
TR 71 M=UNKNOWN_UCAST_BLOCK_MASK TSE=T SLTH=F;
TR 51 M=UNKNOWN_UCAST_BLOCK_MASK;

echo "Running 657/679 VFI"
TR 50 M=VFI;
TR 71 M=VFI TSE=F SLTH=T;
TR 71 M=VFI TSE=T SLTH=T;
TR 71 M=VFI TSE=T SLTH=F;
TR 51 M=VFI;

echo "Running 658/679 VFI_1"
TR 50 M=VFI_1;
TR 71 M=VFI_1 TSE=F SLTH=T;
TR 71 M=VFI_1 TSE=T SLTH=T;
TR 71 M=VFI_1 TSE=T SLTH=F;
TR 51 M=VFI_1;

echo "Running 659/679 VFP_HASH_FIELD_BMAP_TABLE_A"
TR 50 M=VFP_HASH_FIELD_BMAP_TABLE_A;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=F SLTH=T;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=T SLTH=T;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_A TSE=T SLTH=F;
TR 51 M=VFP_HASH_FIELD_BMAP_TABLE_A;

echo "Running 660/679 VFP_HASH_FIELD_BMAP_TABLE_B"
TR 50 M=VFP_HASH_FIELD_BMAP_TABLE_B;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=F SLTH=T;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=T SLTH=T;
TR 71 M=VFP_HASH_FIELD_BMAP_TABLE_B TSE=T SLTH=F;
TR 51 M=VFP_HASH_FIELD_BMAP_TABLE_B;

echo "Running 661/679 VFP_POLICY_TABLE"
TR 50 M=VFP_POLICY_TABLE;
TR 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
TR 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
TR 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
TR 51 M=VFP_POLICY_TABLE;

echo "Running 662/679 VFP_TCAM"
TR 50 M=VFP_TCAM;
TR 71 M=VFP_TCAM TSE=F SLTH=T;
```

```
TR 71 M=VFP_TCAM TSE=T SLTH=T;
TR 71 M=VFP_TCAM TSE=T SLTH=F;
TR 51 M=VFP_TCAM;

echo "Running 663/679 VLAN_MAC"
TR 50 M=VLAN_MAC;
TR 71 M=VLAN_MAC TSE=F SLTH=T;
TR 71 M=VLAN_MAC TSE=T SLTH=T;
TR 71 M=VLAN_MAC TSE=T SLTH=F;
TR 51 M=VLAN_MAC;

echo "Running 664/679 VLAN_MAC_OVERFLOW"
TR 50 M=VLAN_MAC_OVERFLOW;
TR 71 M=VLAN_MAC_OVERFLOW TSE=F SLTH=T;
TR 71 M=VLAN_MAC_OVERFLOW TSE=T SLTH=T;
TR 71 M=VLAN_MAC_OVERFLOW TSE=T SLTH=F;
TR 51 M=VLAN_MAC_OVERFLOW;

echo "Running 665/679 VLAN_MPLS"
TR 50 M=VLAN_MPLS;
TR 71 M=VLAN_MPLS TSE=F SLTH=T;
TR 71 M=VLAN_MPLS TSE=T SLTH=T;
TR 71 M=VLAN_MPLS TSE=T SLTH=F;
TR 51 M=VLAN_MPLS;

echo "Running 666/679 VLAN_OR_VFI_MAC_COUNT"
TR 50 M=VLAN_OR_VFI_MAC_COUNT;
TR 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
TR 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
TR 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
TR 51 M=VLAN_OR_VFI_MAC_COUNT;

echo "Running 667/679 VLAN_OR_VFI_MAC_LIMIT"
TR 50 M=VLAN_OR_VFI_MAC_LIMIT;
TR 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
TR 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
TR 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
TR 51 M=VLAN_OR_VFI_MAC_LIMIT;

echo "Running 668/679 VLAN_PROFILE_2"
TR 50 M=VLAN_PROFILE_2;
TR 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
TR 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
TR 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
TR 51 M=VLAN_PROFILE_2;

echo "Running 669/679 VLAN_PROFILE_TAB"
TR 50 M=VLAN_PROFILE_TAB;
```

```
TR 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
TR 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
TR 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
TR 51 M=VLAN_PROFILE_TAB;

echo "Running 670/679 VLAN_PROTOCOL"
TR 50 M=VLAN_PROTOCOL;
TR 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
TR 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
TR 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
TR 51 M=VLAN_PROTOCOL;

echo "Running 671/679 VLAN_PROTOCOL_DATA"
TR 50 M=VLAN_PROTOCOL_DATA;
TR 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
TR 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
TR 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
TR 51 M=VLAN_PROTOCOL_DATA;

echo "Running 672/679 VLAN_SUBNET"
TR 50 M=VLAN_SUBNET;
TR 71 M=VLAN_SUBNET TSE=F SLTH=T;
TR 71 M=VLAN_SUBNET TSE=T SLTH=T;
TR 71 M=VLAN_SUBNET TSE=T SLTH=F;
TR 51 M=VLAN_SUBNET;

echo "Running 673/679 VLAN_SUBNET_DATA_ONLY"
TR 50 M=VLAN_SUBNET_DATA_ONLY;
TR 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
TR 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
TR 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
TR 51 M=VLAN_SUBNET_DATA_ONLY;

echo "Running 674/679 VLAN_SUBNET_ONLY"
TR 50 M=VLAN_SUBNET_ONLY;
TR 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
TR 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
TR 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
TR 51 M=VLAN_SUBNET_ONLY;

echo "Running 675/679 VLAN_TAB"
TR 50 M=VLAN_TAB;
TR 71 M=VLAN_TAB TSE=F SLTH=T;
TR 71 M=VLAN_TAB TSE=T SLTH=T;
TR 71 M=VLAN_TAB TSE=T SLTH=F;
TR 51 M=VLAN_TAB;

echo "Running 676/679 VLAN_XLATE"
```

```
TR 50 M=VLAN_XLATE;
TR 71 M=VLAN_XLATE TSE=F SLTH=T;
TR 71 M=VLAN_XLATE TSE=T SLTH=T;
TR 71 M=VLAN_XLATE TSE=T SLTH=F;
TR 51 M=VLAN_XLATE;

echo "Running 677/679 VLAN_XLATE_OVERFLOW"
TR 50 M=VLAN_XLATE_OVERFLOW;
TR 71 M=VLAN_XLATE_OVERFLOW TSE=F SLTH=T;
TR 71 M=VLAN_XLATE_OVERFLOW TSE=T SLTH=T;
TR 71 M=VLAN_XLATE_OVERFLOW TSE=T SLTH=F;
TR 51 M=VLAN_XLATE_OVERFLOW;

echo "Running 678/679 VRF"
TR 50 M=VRF;
TR 71 M=VRF TSE=F SLTH=T;
TR 71 M=VRF TSE=T SLTH=T;
TR 71 M=VRF TSE=T SLTH=F;
TR 51 M=VRF;


echo "Test result at the end of memory tests ... "
tl;

# Re-initialize to clean up of various read/wrires to MMU memories
set rctest=true;
set rcload=true;
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done;

echo "Running counter read/write test ..."
tr 31
$done;

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done;

echo "Running L2 overflow insert test ..."
tr 33
$done;
```

```
if !$?LIKE_BCM56248 \
  'echo "Running L2 hash test ..."; \
   tr 34; \
   $done; \
   echo "Running L2 delete by port test ..."; \
   tr 35; \
   $done; \
   echo "Running L2 delete by vlan test ..."; \
   tr 36; \
   $done;'

if $?run_full_sanity \
  'echo "Running IPV4 overflow insert test ..."; \
   tr 87 IPMCEnable=False; \
   tr 87 IPMCEnable=True; \
   $done;'

if $?run_full_sanity \
  'echo "Running IPV6 hash test ..."; \
   tr 88 IPMCEnable=False; \
   tr 88 IPMCEnable=True; \
   $done;'

if $?run_full_sanity \
  'echo "Running IPV6 overflow insert test ..."; \
   tr 85 IPMCEnable=False; \
   tr 85 IPMCEnable=True; \
   $done;'

if $?run_full_sanity \
  'echo "Running IPV6 hash test ..."; \
   tr 86 IPMCEnable=False; \
   tr 86 IPMCEnable=True; \
   $done;'

echo "Running VLAN translate overflow insert test ..."
tr 100

if $?run_full_sanity \
  'echo "Running VLAN translate hash tests ..."; \
   rc; \
   tr 101 hash=0; \
   tr 101 hash=1; \
   tr 101 hash=2; \
   tr 101 hash=3; \
   tr 101 hash=4; \
   tr 101 hash=5; \
```

```
  $done;'

echo "Running Egress VLAN translate overflow insert test ..."
tr 102;
$done;

if $?run_full_sanity \
  'echo "Running Egress VLAN translate hash tests ..."; \
   rc; \
   tr 103 hash=0; \
   tr 103 hash=1; \
   tr 103 hash=2; \
   tr 103 hash=3; \
   tr 103 hash=4; \
   tr 103 hash=5; \
   $done;'

if $?run_full_sanity \
  'echo "Running MPLS overflow insert test ..."; \
   tr 104; \
   $done;'

if $?run_full_sanity \
  'echo "Running MPLS hash tests ..."; \
   tr 105 hash=0; \
   tr 105 hash=1; \
   tr 105 hash=2; \
   tr 105 hash=3; \
   tr 105 hash=4; \
   tr 105 hash=5; \
   $done;'

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done;

echo "Testing CPU DMA loopback ...";
tr 17 c=5
$done;

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Reload ..."; \
   tr 22; \
   $done;'

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Simple ..."; \
   tr 23; \
```

```
   $done;'

if $?run_full_sanity \
  'echo "Testing CPU DMA, Scatter/Gather Random ..."; \
   tr 24; \
   $done;'

#Internal snake Loopback
if $?run_full_sanity \
  'echo "Running internal snake on all ports, MAC loopback ..."; \
   tr 39 loopbackmode=mac snakepath=two PBM=e; \
   $done;'

if $?run_full_sanity \
  'echo "Running internal snake on all ports, PHY loopback ..."; \
   tr 39 loopbackmode=phy snakepath=two PBM=e; \
   $done;'

echo "Running Mac loopback test case  ...";
tr 18
$done;

echo "Running PHY External loopback test case ..."
tr 19 epbm=none
$done;

if $?run_full_sanity \
  'echo "Running BCM Packet Send ..."; \
   tr 40; \
   $done;'

if $?run_full_sanity \
  'echo "Running BCM Packet Receive ..."; \
   tr 41; \
   $done;'

if $?run_full_sanity \
  'echo "Running MAC loopback V2 on all ports ..."; \
   tr 48 pbm=e smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single; \
   $done;'

if $?run_full_sanity \
  'echo "Running PHY loopback V2 on all ports ..."; \
   tr 49 pbm=e smi=52 dmi=83 vlan=23 pi=0x01204007; \
   $done;'

#Traffic Test
if $?run_full_sanity "local ext_phy_mode MAC" else "local ext_phy_mode external"
```

```
echo "Running Traffic Test in external mode on xe port..."
#tr 72 RM=$ext_phy_mode;
tr 72 RM=PHY
$done;

#SNMP
if $?run_full_sanity \
  'echo "SNMP MIB Object Test"; \
   tr 73; \
   $done;'

#Reload Test
#echo "TX Reload Test"
#tr 90
#$done

#echo "RX Reload Test"
#tr 91
#$done

echo "Running Software Error Recovery Test ..."
config parity_enable=1;
rcload rc.soc
linkscan off
tr 144
$done

if $?EXT_MEM_SUPPORT \
  'echo "DDR memory Test"; \
   config add pbmp_ext_mem=0x2222; \
   rc; \
   ddrphytune $CIs plot=false ct=1 pt=1; \
   tr 140 dn=$DNs ww=255 rw=255 bna=1000000 ea=0xffffff pm=1; \
   config delete pbmp_ext_mem; \
   $done; '

set rct=t; set rcl=t;
# Show status
date;
tl;
local returnCode $?;

echo Tests Complete.  Reinitializing ...
config refresh;
rcload rc.soc
counter off
l2mode off
```

```
# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sb2sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: llm_appl.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    llm_appl.h
* Purpose: llm application definitions common to SDK and uKernel.
*
*         Messages between SDK and uKernel.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/llm_appl.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_general.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_general.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_scheduler_end2end.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_scheduler_end2end.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: decode.c,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Routines to Decode ethernet/ip packets and print various amounts of
* information.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/decode.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.38.6.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*
* All Rights Reserved.$
*
* Module: Service Meter(global meter)
*
* Purpose:
*     These routines manage the handling of service meter(global meter)
*      functionality
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/policer.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_tm_fap_multi_devices_8_priorities_example.c,v 1.1.2.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_tm_fap_multi_devices_8_priorities_example.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bm3200_init.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

```
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ==============================================================
* == bm3200_init.h - BM3200 Initialization defines          ==
* ==============================================================
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/bm3200_init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFe2000CommonDriver.h,v 1.8 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* sbFe2000CommonDriver.h : FE2000 Common defines
*
*-----------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fe2k_common/sbFe2000CommonDriver.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcmx/policer.c
* Purpose:    BCMX Policer APIs
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcmx/policer.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.63 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     PORT CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/port.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_llp_mirror.c,v 1.12 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/ARAD/ARAD_PP/arad_pp_llp_mirror.c
No license file was found, but licenses were detected in source scan.

```
# $Id: husanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$

# Hurricane (BCM56142) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

if $?BCM56142_A0 \
  'local BCM56142 1'
if $?BCM56143_A0 \
  'local BCM56143 1'
if $?BCM56144_A0 \
  'local BCM56144 1'
if $?BCM56146_A0 \
```

```
   'local BCM56146 1'
if $?BCM56147_A0 \
   'local BCM56147 1'
if $?BCM56149_A0 \
   'local BCM56149 1'

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
```

```
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
```

```
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EINITBUF_DATA_RAM_0";
tr 50 M=EGR_EINITBUF_DATA_RAM_0;
tr 51 M=EGR_EINITBUF_DATA_RAM_0;
tr 52 M=EGR_EINITBUF_DATA_RAM_0;
tr 71 M=EGR_EINITBUF_DATA_RAM_0 TSE=F SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_0 TSE=T SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_0 TSE=T SLTH=F;
echo " EGR_EINITBUF_DATA_RAM_1";
tr 50 M=EGR_EINITBUF_DATA_RAM_1;
tr 51 M=EGR_EINITBUF_DATA_RAM_1;
tr 52 M=EGR_EINITBUF_DATA_RAM_1;
tr 71 M=EGR_EINITBUF_DATA_RAM_1 TSE=F SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_1 TSE=T SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_1 TSE=T SLTH=F;
echo " EGR_EINITBUF_DATA_RAM_2";
tr 50 M=EGR_EINITBUF_DATA_RAM_2;
tr 51 M=EGR_EINITBUF_DATA_RAM_2;
tr 52 M=EGR_EINITBUF_DATA_RAM_2;
tr 71 M=EGR_EINITBUF_DATA_RAM_2 TSE=F SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_2 TSE=T SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_2 TSE=T SLTH=F;
echo " EGR_EINITBUF_DATA_RAM_3";
```

```
tr 50 M=EGR_EINITBUF_DATA_RAM_3;
tr 51 M=EGR_EINITBUF_DATA_RAM_3;
tr 52 M=EGR_EINITBUF_DATA_RAM_3;
tr 71 M=EGR_EINITBUF_DATA_RAM_3 TSE=F SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_3 TSE=T SLTH=T;
tr 71 M=EGR_EINITBUF_DATA_RAM_3 TSE=T SLTH=F;
echo " EGR_EINITBUF_ECC_RAM";
tr 50 M=EGR_EINITBUF_ECC_RAM;
tr 51 M=EGR_EINITBUF_ECC_RAM;
tr 52 M=EGR_EINITBUF_ECC_RAM;
tr 71 M=EGR_EINITBUF_ECC_RAM TSE=F SLTH=T;
tr 71 M=EGR_EINITBUF_ECC_RAM TSE=T SLTH=T;
tr 71 M=EGR_EINITBUF_ECC_RAM TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
```

```
echo " EGR_MASK";
tr 50 M=EGR_MASK;
tr 51 M=EGR_MASK;
tr 52 M=EGR_MASK;
tr 71 M=EGR_MASK TSE=F SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=T;
tr 71 M=EGR_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP_TABLE";
tr 50 M=EGR_MOD_MAP_TABLE;
tr 51 M=EGR_MOD_MAP_TABLE;
tr 52 M=EGR_MOD_MAP_TABLE;
tr 71 M=EGR_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP_TABLE TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;

echo " EGR_PBE_DEBUG";
#tr 50 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 51 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 52 M=EGR_PBE_DEBUG; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=F SLTH=T; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=T SLTH=T; # EGR_PBE_DEBUG table is NOTEST;
#tr 71 M=EGR_PBE_DEBUG TSE=T SLTH=F; # EGR_PBE_DEBUG table is NOTEST;
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
```

```
tr 71 M=EGR_VLAN TSE=T SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
```

```
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#TR 52 m=fp_slice_key_cONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
```

```
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " FP_UDF_OFFSET";
tr 50 M=FP_UDF_OFFSET;
tr 51 M=FP_UDF_OFFSET;
tr 52 M=FP_UDF_OFFSET;
tr 71 M=FP_UDF_OFFSET TSE=F SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=T;
tr 71 M=FP_UDF_OFFSET TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_PORT_FIELD_SEL";
tr 50 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
#tr 51 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
#tr 52 M=IFP_PORT_FIELD_SEL IS=0 IE=0;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=F SLTH=T;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=T SLTH=T;
tr 71 M=IFP_PORT_FIELD_SEL S=0 C=1 TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
```

```
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP_TABLE";
tr 50 M=ING_MOD_MAP_TABLE;
tr 51 M=ING_MOD_MAP_TABLE;
tr 52 M=ING_MOD_MAP_TABLE;
tr 71 M=ING_MOD_MAP_TABLE TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP_TABLE TSE=T SLTH=F;
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
```

```
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH_TABLE";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH_TABLE TSE=T SLTH=F;
echo " IPV6_PROXY_ENABLE_TABLE";
tr 50 M=IPV6_PROXY_ENABLE_TABLE;
tr 51 M=IPV6_PROXY_ENABLE_TABLE;
tr 52 M=IPV6_PROXY_ENABLE_TABLE;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=F SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=T;
tr 71 M=IPV6_PROXY_ENABLE_TABLE TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2X";
tr 50 M=L2X;
tr 51 M=L2X;
tr 52 M=L2X;
tr 71 M=L2X TSE=F SLTH=T;
tr 71 M=L2X TSE=T SLTH=T;
tr 71 M=L2X TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
```

```
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
```

```
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
```

```
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " LPORT_TAB";
tr 50 M=LPORT_TAB;
tr 51 M=LPORT_TAB;
tr 52 M=LPORT_TAB;
tr 71 M=LPORT_TAB TSE=F SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=T;
tr 71 M=LPORT_TAB TSE=T SLTH=F;
echo " MAC_BLOCK";
tr 50 M=MAC_BLOCK;
tr 51 M=MAC_BLOCK;
tr 52 M=MAC_BLOCK;
tr 71 M=MAC_BLOCK TSE=F SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=T;
tr 71 M=MAC_BLOCK TSE=T SLTH=F;
echo " MMU_AGING_CTR";
tr 50 M=MMU_AGING_CTR;
tr 51 M=MMU_AGING_CTR;
```

```
tr 52 M=MMU_AGING_CTR;
tr 71 M=MMU_AGING_CTR TSE=F SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=T;
tr 71 M=MMU_AGING_CTR TSE=T SLTH=F;
echo " MMU_AGING_EXP";
tr 50 M=MMU_AGING_EXP;
tr 51 M=MMU_AGING_EXP;
tr 52 M=MMU_AGING_EXP;
tr 71 M=MMU_AGING_EXP TSE=F SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=T;
tr 71 M=MMU_AGING_EXP TSE=T SLTH=F;
echo " MMU_ARB_TDM_TABLE";
tr 50 M=MMU_ARB_TDM_TABLE;
tr 51 M=MMU_ARB_TDM_TABLE;
tr 52 M=MMU_ARB_TDM_TABLE;
tr 71 M=MMU_ARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=MMU_ARB_TDM_TABLE TSE=T SLTH=F;
echo " MMU_CBPCellHeader";
tr 50 M=MMU_CBPCellHeader;
tr 51 M=MMU_CBPCellHeader;
tr 52 M=MMU_CBPCellHeader;
tr 71 M=MMU_CBPCellHeader TSE=F SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=T;
tr 71 M=MMU_CBPCellHeader TSE=T SLTH=F;
echo " MMU_CBPData0";
tr 50 M=MMU_CBPData0;
tr 51 M=MMU_CBPData0;
tr 52 M=MMU_CBPData0;
tr 71 M=MMU_CBPData0 TSE=F SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=T;
tr 71 M=MMU_CBPData0 TSE=T SLTH=F;
echo " MMU_CBPData1";
tr 50 M=MMU_CBPData1;
tr 51 M=MMU_CBPData1;
tr 52 M=MMU_CBPData1;
tr 71 M=MMU_CBPData1 TSE=F SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=T;
tr 71 M=MMU_CBPData1 TSE=T SLTH=F;
echo " MMU_CBPData2";
tr 50 M=MMU_CBPData2;
tr 51 M=MMU_CBPData2;
tr 52 M=MMU_CBPData2;
tr 71 M=MMU_CBPData2 TSE=F SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=T;
tr 71 M=MMU_CBPData2 TSE=T SLTH=F;
echo " MMU_CBPData3";
tr 50 M=MMU_CBPData3;
```

```
tr 51 M=MMU_CBPData3;
tr 52 M=MMU_CBPData3;
tr 71 M=MMU_CBPData3 TSE=F SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=T;
tr 71 M=MMU_CBPData3 TSE=T SLTH=F;
echo " MMU_CBPData4";
tr 50 M=MMU_CBPData4;
tr 51 M=MMU_CBPData4;
tr 52 M=MMU_CBPData4;
tr 71 M=MMU_CBPData4 TSE=F SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=T;
tr 71 M=MMU_CBPData4 TSE=T SLTH=F;
echo " MMU_CBPData5";
tr 50 M=MMU_CBPData5;
tr 51 M=MMU_CBPData5;
tr 52 M=MMU_CBPData5;
tr 71 M=MMU_CBPData5 TSE=F SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=T;
tr 71 M=MMU_CBPData5 TSE=T SLTH=F;
echo " MMU_CBPData6";
tr 50 M=MMU_CBPData6;
tr 51 M=MMU_CBPData6;
tr 52 M=MMU_CBPData6;
tr 71 M=MMU_CBPData6 TSE=F SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=T;
tr 71 M=MMU_CBPData6 TSE=T SLTH=F;
echo " MMU_CBPData7";
tr 50 M=MMU_CBPData7;
tr 51 M=MMU_CBPData7;
tr 52 M=MMU_CBPData7;
tr 71 M=MMU_CBPData7 TSE=F SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=T;
tr 71 M=MMU_CBPData7 TSE=T SLTH=F;
echo " MMU_CBPPktHeader0";
tr 50 M=MMU_CBPPktHeader0;
tr 51 M=MMU_CBPPktHeader0;
tr 52 M=MMU_CBPPktHeader0;
tr 71 M=MMU_CBPPktHeader0 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader0 TSE=T SLTH=F;
echo " MMU_CBPPktHeader1";
tr 50 M=MMU_CBPPktHeader1;
tr 51 M=MMU_CBPPktHeader1;
tr 52 M=MMU_CBPPktHeader1;
tr 71 M=MMU_CBPPktHeader1 TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader1 TSE=T SLTH=F;
echo " MMU_CBPPktHeader_EXT";
```

```
tr 50 M=MMU_CBPPktHeader_EXT;
tr 51 M=MMU_CBPPktHeader_EXT;
tr 52 M=MMU_CBPPktHeader_EXT;
tr 71 M=MMU_CBPPktHeader_EXT TSE=F SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=T;
tr 71 M=MMU_CBPPktHeader_EXT TSE=T SLTH=F;
echo " MMU_CCP";
tr 50 M=MMU_CCP;
tr 51 M=MMU_CCP;
tr 52 M=MMU_CCP;
tr 71 M=MMU_CCP TSE=F SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=T;
tr 71 M=MMU_CCP TSE=T SLTH=F;
echo " MMU_CFAP";
tr 50 M=MMU_CFAP;
tr 51 M=MMU_CFAP;
tr 52 M=MMU_CFAP;
tr 71 M=MMU_CFAP TSE=F SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=T;
tr 71 M=MMU_CFAP TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL0";
tr 50 M=MMU_IPMC_GROUP_TBL0;
tr 51 M=MMU_IPMC_GROUP_TBL0;
tr 52 M=MMU_IPMC_GROUP_TBL0;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL0 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL1";
tr 50 M=MMU_IPMC_GROUP_TBL1;
tr 51 M=MMU_IPMC_GROUP_TBL1;
tr 52 M=MMU_IPMC_GROUP_TBL1;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL1 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL2";
tr 50 M=MMU_IPMC_GROUP_TBL2;
tr 51 M=MMU_IPMC_GROUP_TBL2;
tr 52 M=MMU_IPMC_GROUP_TBL2;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL2 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL3";
tr 50 M=MMU_IPMC_GROUP_TBL3;
tr 51 M=MMU_IPMC_GROUP_TBL3;
tr 52 M=MMU_IPMC_GROUP_TBL3;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL3 TSE=T SLTH=F;
```

```
echo " MMU_IPMC_GROUP_TBL4";
tr 50 M=MMU_IPMC_GROUP_TBL4;
tr 51 M=MMU_IPMC_GROUP_TBL4;
tr 52 M=MMU_IPMC_GROUP_TBL4;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL4 TSE=T SLTH=F;
echo " MMU_IPMC_GROUP_TBL5";
tr 50 M=MMU_IPMC_GROUP_TBL5;
tr 51 M=MMU_IPMC_GROUP_TBL5;
tr 52 M=MMU_IPMC_GROUP_TBL5;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=F SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=T;
tr 71 M=MMU_IPMC_GROUP_TBL5 TSE=T SLTH=F;
echo " MMU_IPMC_VLAN_TBL";
tr 50 M=MMU_IPMC_VLAN_TBL;
tr 51 M=MMU_IPMC_VLAN_TBL;
tr 52 M=MMU_IPMC_VLAN_TBL;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=F SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=T;
tr 71 M=MMU_IPMC_VLAN_TBL TSE=T SLTH=F;
echo " MMU_MAX_BUCKET_GPORT";
tr 50 M=MMU_MAX_BUCKET_GPORT;
tr 51 M=MMU_MAX_BUCKET_GPORT;
tr 52 M=MMU_MAX_BUCKET_GPORT;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=F SLTH=T;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=T SLTH=T;
tr 71 M=MMU_MAX_BUCKET_GPORT TSE=T SLTH=F;
echo " MMU_MIN_BUCKET_GPORT";
tr 50 M=MMU_MIN_BUCKET_GPORT;
tr 51 M=MMU_MIN_BUCKET_GPORT;
tr 52 M=MMU_MIN_BUCKET_GPORT;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=F SLTH=T;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=T SLTH=T;
tr 71 M=MMU_MIN_BUCKET_GPORT TSE=T SLTH=F;
echo " MMU_XQ0";
tr 50 M=MMU_XQ0;
tr 51 M=MMU_XQ0;
tr 52 M=MMU_XQ0;
tr 71 M=MMU_XQ0 TSE=F SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=T;
tr 71 M=MMU_XQ0 TSE=T SLTH=F;
echo " MMU_XQ10";
tr 50 M=MMU_XQ10;
tr 51 M=MMU_XQ10;
tr 52 M=MMU_XQ10;
tr 71 M=MMU_XQ10 TSE=F SLTH=T;
tr 71 M=MMU_XQ10 TSE=T SLTH=T;
```

```
tr 71 M=MMU_XQ10 TSE=T SLTH=F;
echo " MMU_XQ11";
tr 50 M=MMU_XQ11;
tr 51 M=MMU_XQ11;
tr 52 M=MMU_XQ11;
tr 71 M=MMU_XQ11 TSE=F SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=T;
tr 71 M=MMU_XQ11 TSE=T SLTH=F;
echo " MMU_XQ12";
tr 50 M=MMU_XQ12;
tr 51 M=MMU_XQ12;
tr 52 M=MMU_XQ12;
tr 71 M=MMU_XQ12 TSE=F SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=T;
tr 71 M=MMU_XQ12 TSE=T SLTH=F;
echo " MMU_XQ13";
tr 50 M=MMU_XQ13;
tr 51 M=MMU_XQ13;
tr 52 M=MMU_XQ13;
tr 71 M=MMU_XQ13 TSE=F SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=T;
tr 71 M=MMU_XQ13 TSE=T SLTH=F;
echo " MMU_XQ14";
tr 50 M=MMU_XQ14;
tr 51 M=MMU_XQ14;
tr 52 M=MMU_XQ14;
tr 71 M=MMU_XQ14 TSE=F SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=T;
tr 71 M=MMU_XQ14 TSE=T SLTH=F;
echo " MMU_XQ15";
tr 50 M=MMU_XQ15;
tr 51 M=MMU_XQ15;
tr 52 M=MMU_XQ15;
tr 71 M=MMU_XQ15 TSE=F SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=T;
tr 71 M=MMU_XQ15 TSE=T SLTH=F;
echo " MMU_XQ16";
tr 50 M=MMU_XQ16;
tr 51 M=MMU_XQ16;
tr 52 M=MMU_XQ16;
tr 71 M=MMU_XQ16 TSE=F SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=T;
tr 71 M=MMU_XQ16 TSE=T SLTH=F;
echo " MMU_XQ17";
tr 50 M=MMU_XQ17;
tr 51 M=MMU_XQ17;
tr 52 M=MMU_XQ17;
tr 71 M=MMU_XQ17 TSE=F SLTH=T;
```

```
tr 71 M=MMU_XQ17 TSE=T SLTH=T;
tr 71 M=MMU_XQ17 TSE=T SLTH=F;
echo " MMU_XQ18";
tr 50 M=MMU_XQ18;
tr 51 M=MMU_XQ18;
tr 52 M=MMU_XQ18;
tr 71 M=MMU_XQ18 TSE=F SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=T;
tr 71 M=MMU_XQ18 TSE=T SLTH=F;
echo " MMU_XQ19";
tr 50 M=MMU_XQ19;
tr 51 M=MMU_XQ19;
tr 52 M=MMU_XQ19;
tr 71 M=MMU_XQ19 TSE=F SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=T;
tr 71 M=MMU_XQ19 TSE=T SLTH=F;
echo " MMU_XQ2";
tr 50 M=MMU_XQ2;
tr 51 M=MMU_XQ2;
tr 52 M=MMU_XQ2;
tr 71 M=MMU_XQ2 TSE=F SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=T;
tr 71 M=MMU_XQ2 TSE=T SLTH=F;
echo " MMU_XQ20";
tr 50 M=MMU_XQ20;
tr 51 M=MMU_XQ20;
tr 52 M=MMU_XQ20;
tr 71 M=MMU_XQ20 TSE=F SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=T;
tr 71 M=MMU_XQ20 TSE=T SLTH=F;
echo " MMU_XQ21";
tr 50 M=MMU_XQ21;
tr 51 M=MMU_XQ21;
tr 52 M=MMU_XQ21;
tr 71 M=MMU_XQ21 TSE=F SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=T;
tr 71 M=MMU_XQ21 TSE=T SLTH=F;
echo " MMU_XQ22";
tr 50 M=MMU_XQ22;
tr 51 M=MMU_XQ22;
tr 52 M=MMU_XQ22;
tr 71 M=MMU_XQ22 TSE=F SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=T;
tr 71 M=MMU_XQ22 TSE=T SLTH=F;
echo " MMU_XQ23";
tr 50 M=MMU_XQ23;
tr 51 M=MMU_XQ23;
tr 52 M=MMU_XQ23;
```

```
tr 71 M=MMU_XQ23 TSE=F SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=T;
tr 71 M=MMU_XQ23 TSE=T SLTH=F;
echo " MMU_XQ24";
tr 50 M=MMU_XQ24;
tr 51 M=MMU_XQ24;
tr 52 M=MMU_XQ24;
tr 71 M=MMU_XQ24 TSE=F SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=T;
tr 71 M=MMU_XQ24 TSE=T SLTH=F;
echo " MMU_XQ25";
tr 50 M=MMU_XQ25;
tr 51 M=MMU_XQ25;
tr 52 M=MMU_XQ25;
tr 71 M=MMU_XQ25 TSE=F SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=T;
tr 71 M=MMU_XQ25 TSE=T SLTH=F;
echo " MMU_XQ26";
tr 50 M=MMU_XQ26;
tr 51 M=MMU_XQ26;
tr 52 M=MMU_XQ26;
tr 71 M=MMU_XQ26 TSE=F SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=T;
tr 71 M=MMU_XQ26 TSE=T SLTH=F;
echo " MMU_XQ27";
tr 50 M=MMU_XQ27;
tr 51 M=MMU_XQ27;
tr 52 M=MMU_XQ27;
tr 71 M=MMU_XQ27 TSE=F SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=T;
tr 71 M=MMU_XQ27 TSE=T SLTH=F;
echo " MMU_XQ28";
tr 50 M=MMU_XQ28;
tr 51 M=MMU_XQ28;
tr 52 M=MMU_XQ28;
tr 71 M=MMU_XQ28 TSE=F SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=T;
tr 71 M=MMU_XQ28 TSE=T SLTH=F;
echo " MMU_XQ29";
tr 50 M=MMU_XQ29;
tr 51 M=MMU_XQ29;
tr 52 M=MMU_XQ29;
tr 71 M=MMU_XQ29 TSE=F SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=T;
tr 71 M=MMU_XQ29 TSE=T SLTH=F;
echo " MMU_XQ3";
tr 50 M=MMU_XQ3;
tr 51 M=MMU_XQ3;
```

```
tr 52 M=MMU_XQ3;
tr 71 M=MMU_XQ3 TSE=F SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=T;
tr 71 M=MMU_XQ3 TSE=T SLTH=F;
echo " MMU_XQ4";
tr 50 M=MMU_XQ4;
tr 51 M=MMU_XQ4;
tr 52 M=MMU_XQ4;
tr 71 M=MMU_XQ4 TSE=F SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=T;
tr 71 M=MMU_XQ4 TSE=T SLTH=F;
echo " MMU_XQ5";
tr 50 M=MMU_XQ5;
tr 51 M=MMU_XQ5;
tr 52 M=MMU_XQ5;
tr 71 M=MMU_XQ5 TSE=F SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=T;
tr 71 M=MMU_XQ5 TSE=T SLTH=F;
echo " MMU_XQ6";
tr 50 M=MMU_XQ6;
tr 51 M=MMU_XQ6;
tr 52 M=MMU_XQ6;
tr 71 M=MMU_XQ6 TSE=F SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=T;
tr 71 M=MMU_XQ6 TSE=T SLTH=F;
echo " MMU_XQ7";
tr 50 M=MMU_XQ7;
tr 51 M=MMU_XQ7;
tr 52 M=MMU_XQ7;
tr 71 M=MMU_XQ7 TSE=F SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=T;
tr 71 M=MMU_XQ7 TSE=T SLTH=F;
echo " MMU_XQ8";
tr 50 M=MMU_XQ8;
tr 51 M=MMU_XQ8;
tr 52 M=MMU_XQ8;
tr 71 M=MMU_XQ8 TSE=F SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=T;
tr 71 M=MMU_XQ8 TSE=T SLTH=F;
echo " MMU_XQ9";
tr 50 M=MMU_XQ9;
tr 51 M=MMU_XQ9;
tr 52 M=MMU_XQ9;
tr 71 M=MMU_XQ9 TSE=F SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=T;
tr 71 M=MMU_XQ9 TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
```

```
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_EM";
tr 50 M=MODPORT_MAP_EM;
tr 51 M=MODPORT_MAP_EM;
tr 52 M=MODPORT_MAP_EM;
tr 71 M=MODPORT_MAP_EM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_EM TSE=T SLTH=F;
echo " MODPORT_MAP_IM";
tr 50 M=MODPORT_MAP_IM;
tr 51 M=MODPORT_MAP_IM;
tr 52 M=MODPORT_MAP_IM;
tr 71 M=MODPORT_MAP_IM TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_IM TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PORT_COS_MAP";
tr 50 M=PORT_COS_MAP;
tr 51 M=PORT_COS_MAP;
tr 52 M=PORT_COS_MAP;
tr 71 M=PORT_COS_MAP TSE=F SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=T;
tr 71 M=PORT_COS_MAP TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_COUNT";
tr 50 M=PORT_OR_TRUNK_MAC_COUNT;
tr 51 M=PORT_OR_TRUNK_MAC_COUNT;
tr 52 M=PORT_OR_TRUNK_MAC_COUNT;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_COUNT TSE=T SLTH=F;
echo " PORT_OR_TRUNK_MAC_LIMIT";
```

```
tr 50 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 51 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 52 M=PORT_OR_TRUNK_MAC_LIMIT;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=PORT_OR_TRUNK_MAC_LIMIT TSE=T SLTH=F;
echo " PORT_TAB";
tr 50 M=PORT_TAB;
tr 51 M=PORT_TAB;
tr 52 M=PORT_TAB;
tr 71 M=PORT_TAB TSE=F SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=T;
tr 71 M=PORT_TAB TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP_TABLE";
tr 50 M=SOURCE_TRUNK_MAP_TABLE;
tr 51 M=SOURCE_TRUNK_MAP_TABLE;
tr 52 M=SOURCE_TRUNK_MAP_TABLE;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP_TABLE TSE=T SLTH=F;
echo " SRC_MODID_BLOCK";
tr 50 M=SRC_MODID_BLOCK;
tr 51 M=SRC_MODID_BLOCK;
tr 52 M=SRC_MODID_BLOCK;
tr 71 M=SRC_MODID_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_BLOCK TSE=T SLTH=F;
echo " STG_TAB";
tr 50 M=STG_TAB;
tr 51 M=STG_TAB;
tr 52 M=STG_TAB;
tr 71 M=STG_TAB TSE=F SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=T;
tr 71 M=STG_TAB TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
```

```
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_EGR_MASK";
tr 50 M=TRUNK_EGR_MASK;
tr 51 M=TRUNK_EGR_MASK;
tr 52 M=TRUNK_EGR_MASK;
tr 71 M=TRUNK_EGR_MASK TSE=F SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=T;
tr 71 M=TRUNK_EGR_MASK TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
```

```
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VLAN_MAC";
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE_TAB";
tr 50 M=VLAN_PROFILE_TAB;
tr 51 M=VLAN_PROFILE_TAB;
tr 52 M=VLAN_PROFILE_TAB;
tr 71 M=VLAN_PROFILE_TAB TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_TAB TSE=T SLTH=F;
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
```

```
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN_TAB";
tr 50 M=VLAN_TAB;
tr 51 M=VLAN_TAB;
tr 52 M=VLAN_TAB;
tr 71 M=VLAN_TAB TSE=F SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=T;
tr 71 M=VLAN_TAB TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
```

```
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
```

```
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done
#no mpls in hurricane
#echo "Running MPLS overflow insert test ..."
#tr 104
#$done

#echo "Running MPLS hash tests ..."
#tr 105 hash=0
#tr 105 hash=1
#tr 105 hash=2
#tr 105 hash=3
#tr 105 hash=4
#tr 105 hash=5
```

```
#$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done

tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007
$done

#Internal snake Loopback
echo "Running internal snake on all ports, MAC loopback ..."
tr 39 loopbackmode=mac snakepath=two PBM=e
$done

echo "Running internal snake on all ports, PHY loopback ..."
tr 39 loopbackmode=phy snakepath=two PBM=e
$done

if $?BCM56142_A0 \
'echo "bcm56142 <24ge+1xXUAI[10]+2HGd[12]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=xe speed=10G; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
```

```
tr 19 pbm=ge speed=1000; \
tr 19 pbm=xe speed=10G; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX'
$done

if $?BCM56143_A0 \
'echo "bcm56143 <24ge+2xHGd[12]+2x2.5G> tr 18 & tr 19 tests"; \
port hg an=f sp=12000; \
port ge24-ge25 an=f rxpau=f txpau=f sp=2500; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge24-ge25 speed=2500; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=ge0-ge23 speed=10; \
tr 19 pbm=ge0-ge23 speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge24-ge25 speed=2500; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX'
$done

if $?BCM56144_A0 \
'echo "bcm56144 <16ge+2x2.5G+2x2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=ge0-ge15 speed=10; \
tr 18 pbm=ge0-ge15 speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge16-ge19 speed=2500; \
tr 18 pbm=ge speed=MAX; \
tr 19 pbm=ge0-ge15 speed=10; \
tr 19 pbm=ge0-ge15 speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge16-ge19 speed=2500; \
tr 19 pbm=ge speed=MAX'
$done

if $?BCM56146_A0 \
'echo "bcm56146 <24fe+2x2.5G+2x2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=fe speed=10; \
tr 18 pbm=fe speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=ge speed=MAX; \
tr 19 pbm=fe speed=10; \
tr 19 pbm=fe speed=100; \
tr 19 pbm=ge speed=1000; \
```

```
tr 19 pbm=ge speed=2500; \
tr 19 pbm=ge speed=MAX'
$done

if $?BCM56147_A0 \
'echo "bcm56147 <24fe+1xHG+2x2.5G> tr 18 & tr 19 tests"; \
tr 18 pbm=fe speed=10; \
tr 18 pbm=fe speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=ge speed=2500; \
tr 18 pbm=ge speed=MAX; \
tr 18 pbm=hg speed=12G; \
tr 18 pbm=hg speed=MAX; \
tr 19 pbm=fe speed=10; \
tr 19 pbm=fe speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=ge speed=2500; \
tr 19 pbm=ge speed=MAX; \
tr 19 pbm=hg speed=12G; \
tr 19 pbm=hg speed=MAX'
$done

if $?BCM56149_A0 \
'echo "bcm56149 <24ge+4xe[10]> tr 18 & tr 19 tests"; \
tr 18 pbm=ge speed=10; \
tr 18 pbm=ge speed=100; \
tr 18 pbm=ge speed=1000; \
tr 18 pbm=xe speed=10G; \
tr 19 pbm=ge speed=10; \
tr 19 pbm=ge speed=100; \
tr 19 pbm=ge speed=1000; \
tr 19 pbm=xe speed=10G'
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=e
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=e
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73
$done
```

```
#Reload Test
echo "TX Reload Test"
tr 90
$done

echo "RX Reload Test"
tr 91
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/husanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_lif.h,v 1.18 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_lif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:	mbcm.c
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/sirius/mbcm.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_res_tag_bitmap.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/shr_res_tag_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_mim_mp.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_mim_mp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: lb.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    lb.c
* Purpose: Manages common LB functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/lb.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: imfswap32.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       imfswap32.h
```

```
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/sbx/imfswap32.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: l3.c,v 1.18 Broadcom SDK $
* $Id:
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:    L3 CLI commands
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/l3.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       vlan.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       numelport.c
* Purpose:    Common numel & portlists for all chips.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/numelport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfG2EplibMvtEntryConsole.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/g2eplib/sbZfG2EplibMvtEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_swp_p_pp_api.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/dpp/UserInterface/ui_swp_p_pp_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: next_hop.c,v 1.37 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       next_hop.c
*
* Purpose:
*    Implements next hop broadcast.  See next_hop_trans.txt for
*    more information.
*
* Requires:    nh_tx, cputrans
*
* Notes:
*    This module provides a broadcast mechanism allowing one CPU to send
*    to all others in the system.  It uses the next hop packet transport
*    sending.  It is not reliable.  All CPUs in the system must have this
*    running in order for packets to be properly forwarded.
*
*    When a NEXT_HOP packet is received, the source CPU KEY and sequence
```

```
*    number are examined.  If the packet has been seen before, it is
*    discarded.  Otherwise, it is queued for local processing.  If the
*    packet is a broadcast or if the unicast address is unknown, then
*    the packet is also forwarded out all local stack ports.
*
*    If the source CPU is unknown, it is added to the local (ie,
*    local to this file) database.  If the DB is full, the variable
*    key_lru_replace_enable indicates whether the least recently used
*    CPU key in the data base should be replaced with the new
*    key.
*
*    Future Enhancement:  Permit a callback to be registered that
*    passes the old and new CPU keys when a replacement occurs.
*
*    Stack ports may be marked as "duplex".  Packets received on a duplex
*    port will not be forwarded back out that port.  It is not required
*    that ports be marked as duplex:  If a packet is sent back on a duplex
*    port, the receiving CPU should discard the packet.
*
*    Packets may be directed to a specific CPU by KEY.  Currently,
*    no attempt is made to expedite the routing; the packet still gets
*    flooded to all CPUs; the difference is that only packets with
*    the local KEY or broadcast KEY as destination are sent up the
*    local stack (local callback is made).  In the future, routing
*    may be implemented so that the packet is only sent out a single
*    stack port when possible.
*
*    This module uses the tx packet allocation routines implemented in
*    cputrans.
*
*    Loop-back is not supported at this layer.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cputrans/next_hop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* ARAD FABRIC CELL H
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ingress_traffic_mgmt.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_ingress_traffic_mgmt.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_fc_tx.c,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B Example script - Flow Control transmission
*
* How to run
*      - fc_tx_run(int unit, int is_llfc, int nbr_queues_per_port)
*        e.g. fc_tx_run(unit, 1, 4)       /* LLFC Configuration */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_fc_tx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mem.c,v 1.81 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag memory commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/mem.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ver.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
* $All Rights Reserved.$
*
* TDM autogenerated version
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/tdm_ver.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_port.c,v 1.13 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FIFO DMA
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/cmn/dfe_fifo_dma.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: gen_pkt.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Packet generator for diagnostic (TR) tests.
* This packet generator can be used to generate random L2 and L3 Ethernet
* packets complete with CRC. Created in addition to existing packet generator
8 for added flexibility.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/gen_pkt.c
No license file was found, but licenses were detected in source scan.

```
/**
* \file dbal_api.c
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* System wide Logical Table Manager.
*
```

```
* To be used for:
*   Access of physical table
*   Access of pure software tables
*   Activation of access procedutes (dispatcher) which is
*     equivalent to 'MBCM and arad_pp_dbal' on SDK6 for JR1.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/dbal/dbal_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: policer.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       policer.h
* Purpose:     Policer internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/policer.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: init.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     init.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/init.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/dpp_defs.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/dnx_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEpBfPriTableEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEpBfPriTableEntry.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_QUADRA28.
* This file provides all basic definitions required to program the BCMI_QUADRA28.
*
* This file is autogenerated. Please do not edit.
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/bcmi_quadra28_defs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mirror.c,v 1.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/tbx/mirror.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/harrier/mirror.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy_unimac.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy_unimac.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassHashInputW0.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassHashInputW0.hx
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_snake.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    cint_snake.c
* Purpose: Example for sending 80Gb traffic per device (snake)
*          We inject 10Gb from a specific port with a pre-defined MAC address and
*          without a vlan tag, and send the traffic to the next
*          port using the MACT, by assigning a different vlan ID per port.
*
* This example can be used on a single card, two cards with two CPUs,
* or two cards controlled by a single CPU (rpc / central management).
*
* This configuration can place an 80 Gb load on the device while using
* a single 10 Gb traffic generator port. It may be used as a base for:
*     o   L2-based forwarding.
*     o   Testing the device capabilities under full rate.
* Due to the snake application setup, a packet arriving from the traffic
* generator port is sent internally eight times until it returns to the
```

```
* traffic generator port. Therefore, 10G traffic from the generator port
* results in 80G traffic in the device.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_snake.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: c3hppc_ocm_store_load_test1.c,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/c3hppc_ocm_store_load_test1.c
No license file was found, but licenses were detected in source scan.

```
/**
*
*
* $Id: tmu_diags_c.stg,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
* g3p1_tmu_diags.c: Guadalupe2k V1.3 microcode diagnostics routines
*
* This file provides the public interface to the Guadalupe2k V1.3
* microcode.  Only explicitly documented elements (types  & functions)
* are supported, external interfaces.  Other elements are exported only
* for debugging convenience.
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated.
* Edits to this file will be lost when it is regenerated.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/g3p1_tmu_diags.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_line_tgs.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_line_tgs.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_delta_list.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/SAND/Utils/sand_delta_list.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/SAND/Utils/sand_delta_list.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: flashDrvLib.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    flashDrvLib.c
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/gto/mpc8548/vxworks-6.5/flashDrvLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks6x/bcm56218/flashDrvLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/raptor/vxworks5x/bcm56218/flashDrvLib.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/jag/bcm4704/flashDrvLib.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_drv.h,v 1.1.2.1 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON DRV H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/dnxf/ramon/ramon_drv.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_dune_fpga_download.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_dune_fpga_download.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm56680_b0.c
* Purpose:    bcm56680_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm56680_b0.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_ofp_rates.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_ofp_rates.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: infix.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/infix.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_fap20v.h,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_fap20v.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: uc_msg.c,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/uc_msg.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: merlin_sesto_enum.h 661 2014-08-14 23:20:49Z kirand $ *
*                                                                            *
*  Description   :  Enum types used by Serdes API functions                  *
*                                                                            *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                *
*      Broadcom Corporation                                                  *
*      5300 California Avenue                                                *
*      Irvine, CA  92617                                                     *
*                                                                            *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                            *
*                                                                            *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/libs/phymod/chip/sesto/tier1/sesto_serdes/merlin_sesto_src/merlin_sesto_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_interrupts.h,v 1.20 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 INTERRUPTS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_interrupts.h
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane MIPS/ARM cores software interface.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndcpu.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndcpu.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_enablers.c,v 6.4.5 2016/04/06 mbotner Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_enablers.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_fap21v_acc_ips.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/appl/dpp/UserInterface/ui_fap21v_acc_ips.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: techsupport_vlan.c  Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    techsupport_vlan.c
* Purpose: This file implements techsupport utility for
*          vlan.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/vlan/techsupport_vlan.c
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: bcm53280_b0.c
* Purpose: bcm53280_b0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/mcm/bcm53280_b0.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dfe_drv.h,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* Switch-on-a-Chip Driver.
*
* This file also includes the more common include files so the
* individual driver files don't have to include as much.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/cmn/dfe_drv.h
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56540sanity.soc,v 1.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph3 BCM56540, BCM56545 Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

local pbmge 0x3fffffffffffe
if "expr $bcm56540_4x10_2x42 + 0" \
   'local pbmhg 0x3c000000000000; local testhg20 1; local pbmhg20 0x30000000000000; \
    local pbmhg42 0xc000000000000; local pbmport 0x3fffffffffffe'
if !"expr $bcm56540_4x10_2x42 + 0" \
   'local testxe 1; local pbmxe 0x3c000000000000; local pbmhg 0xc0000000000000; \
    local pbmhg42 0xc0000000000000; local pbmport 0xffffffffffffe'

# Turn off Mem cache and Parity checks for mem tests
config add mem_cache_enable=0
config add parity_enable=0

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off
```

```
ibodsync off
init
init misc

local done 'echo "   Done"'

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done

echo "Running PCI S-Channel Buf ..."
tr 4
$done

init soc
debug -warn
echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done
debug +warn

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks (No Mem Cache) ..."
tr 21
$done

fb4_mem.soc

# Re-initialize to clean up of various read/writes to MMU memories
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
```

```
$done

echo "Running counter read/write test ..."
tr 31
$done

#Hashing tests - TBD
#tr 55

echo "Running MDIO Linkscan test"
tr 60
$done

#echo "Testing CPU DMA loopback ..."
#tr 17
$done

#echo "Testing CPU DMA, Scatter/Gather Reload ..."
#tr 22
#$done

#echo "Testing CPU DMA, Scatter/Gather Simple ..."
#tr 23
$done

#echo "Testing CPU DMA, Scatter/Gather Random ..."
#tr 24
$done

#MAC Loopback
echo "Testing MAC Loopback - 1 Gb/s all GE ports"
tr 18 PortBitMap=$pbmge Speed=1000
$done

if !"expr $testxe + 0" \
      'echo "Testing MAC Loopback - 10 Gb/s all XE ports"; \
       tr 18 PortBitMap=$pbmxe Speed=10G; $done'

echo "Testing MAC Loopback - 21 Gb/s all HG21 ports"
tr 18 PortBitMap=$pbmhg Speed=20G
$done

echo "Testing MAC Loopback - 42 Gb/s all HG42 ports"
tr 18 PortBitMap=$pbmhg42 Speed=42G
$done

#PHY Loopback
echo "Testing PHY Loopback - 1 Gb/s all GE ports"
```

```
tr 19 PortBitMap=$pbmge Speed=1000
$done

if !"expr $testxe + 0" \
      'echo "Testing PHY Loopback - 10 Gb/s all XE ports"; \
       tr 19 PortBitMap=$pbmxe Speed=10G; $done'

if !"expr $testhg20 + 0" \
      'echo "Testing PHY Loopback - 21 Gb/s all HG21 ports"; \
       tr 19 PortBitMap=$pbmhg20 speed=21G; $done'

echo "Testing PHY Loopback - 42 Gb/s all HG42 ports"
tr 19 PortBitMap=$pbmhg42 Speed=42G
$done

echo "Running MAC loopback V2 on all ports ..."
tr 48 pbm=$pbmport
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 pbm=$pbmport
$done

#Internal snake Loopback
echo "Running internal snake on GE ports, MAC loopback ..."
tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmge
$done

echo "Running internal snake on GE ports, PHY loopback ..."
tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmge
$done

if !"expr $testxe + 0" \
      'echo "Running internal snake on XE ports, MAC loopback ..."; \
       tr 39 LoopbackMode=MAC snakepath=TWOways PortBitMap=$pbmxe; $done'

if !"expr $testxe + 0" \
      'echo "Running internal snake on XE ports, PHY loopback ..."; \
       tr 39 LoopbackMode=PHY snakepath=TWOways PortBitMap=$pbmxe; $done'

#Traffic Test
echo "Running Traffic Test on GE ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmge c=10 sp=1000
$done

echo "Running Traffic Test on GE ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmge c=10 sp=1000
$done
```

```
if !"expr $testxe + 0" \
      'echo "Running Traffic Test on XE ports in MAC mode ..."; \
       tr 72 RunMode=MAC PortBitMap=$pbmxe c=10 sp=10G; $done'

if !"expr $testxe + 0" \
      'echo "Running Traffic Test on XE ports in PHY mode ..."; \
       tr 72 RunMode=PHY PortBitMap=$pbmxe c=10 sp=10G; $done'

echo "Running Traffic Test on HG ports in MAC mode ..."
tr 72 RunMode=MAC PortBitMap=$pbmhg c=10 sp=max
$done

echo "Running Traffic Test on HG ports in PHY mode ..."
tr 72 RunMode=PHY PortBitMap=$pbmhg c=10 sp=max
$done

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xe2-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
#
# tr 72 rm=external pbm=xe0,xe4 an=f sp=10g
# tr 72 rm=external pbm=xe1,xe5 an=f sp=10g
# tr 72 rm=external pbm=xe2,xe6 an=f sp=10g
# tr 72 rm=external pbm=xe3,xe7 an=f sp=10g
# tr 72 rm=external pbm=xe8,xe12 an=f sp=10g
# tr 72 rm=external pbm=xe9,xe13 an=f sp=10g
# tr 72 rm=external pbm=xe10,xe14 an=f sp=10g
# tr 72 rm=external pbm=xe11,xe15 an=f sp=10g
# ...
# tr 72 rm=external pbm=xe56,xe60 an=f sp=10g
# tr 72 rm=external pbm=xe57,xe61 an=f sp=10g
# tr 72 rm=external pbm=xe58,xe62 an=f sp=10g
# tr 72 rm=external pbm=xe59,xe63 an=f sp=10g

# if you have cable with following paring
#    xe0-xe4, xe1-xe5, xem-xe6, xe3-xe7
#    xe8-xe12, xe9-xe13, xe10-xe14, xe11-xe15
#    ...
#    xe56-xe60, xe57-xe61, xe58-xe62, xe59-xe63
# echo "Running external loopback ..."
# tr 20 tpbm=xe0-xe3 di=4 an=f s=10g
# tr 20 tpbm=xe8-xe11 di=4 an=f s=10g
# tr 20 tpbm=xe16-xe19 di=4 an=f s=10g
# tr 20 tpbm=xe24-xe27 di=4 an=f s=10g
# tr 20 tpbm=xe32-xe35 di=4 an=f s=10g
```

```
# tr 20 tpbm=xe40-xe43 di=4 an=f s=10g
# tr 20 tpbm=xe48-xe51 di=4 an=f s=10g
# tr 20 tpbm=xe56-xe59 di=4 an=f s=10g
# $done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56540sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fabric.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DPP DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: knet.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       knet.h
* Purpose:     Definitions for the knet type.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/knet.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: stg.c,v 1.62 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       stg.c
* Purpose:     Spanning tree group support
*
* Multiple spanning trees (MST) is supported in
* BCM5690, etc.  STGs are created and VLANs may be added to each STG.
*
* Per-VLAN spanning tree (PVST) is supported in BCM5632.  This module
* supports PVST on BCM5632 by having 4k virtual STGs and allowing only
* a single VLAN per STG.  Before the application can create a second
* STG, it must remove all but one VLAN from the default STG.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/stg.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: caladan_cmds.c,v 1.15.20.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       caladan_cmds.c
* Purpose:     FE-2000/Caladan3-specific diagnostic shell commands
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/sbx/caladan_cmds.c
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  falcon16_tsc_diag.c                                    *
*  Created On    :  03 Nov 2015                                            *
*  Created By    :  Brent Roberts                                          *
*  Description   :  Diagnostic APIs for Serdes IPs                         *
*  Revision      :     *
```

```
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/src/falcon16_tsc_diag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dcb.h,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/dcb.h
* Purpose:     Define dma control block (DCB) operations
*             A uniform set of operations is defined here and loaded
*             into SOC_CONTROL during initialization.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dcb.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibCIT.hx,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/**
* @file sbZfSbQe2000ElibCIT.h
*
* <pre>
*
* ==============================================================
* ==  sbZfSbQe2000ElibCIT.h - Class Instruction Table ZFrame  ==
* ==============================================================
```

```
*
* WORKING REVISION: $Id: sbZfSbQe2000ElibCIT.hx,v 1.4 Broadcom SDK $
*
* Copyright (c) Sandburst, Inc. 2004
* All Rights Reserved.  Unpublished rights reserved under the copyright
* laws of the United States.
*
* The software contained on this media is proprietary to and embodies the
* confidential technology of Sandburst, Inc. Possession, use, duplication
* or dissemination of the software and media is authorized only pursuant
* to a valid written license from Sandburst, Inc.
*
* RESTRICTED RIGHTS LEGEND Use, duplication, or disclosure by the U.S.
* Government is subject to restrictions as set forth in Subparagraph
* (c) (1) (ii) of DFARS 252.227-7013, or in FAR 52.227-19, as applicable.
*
*
* MODULE NAME:
*
*     sbZfSbQe2000ElibCIT.h
*
* ABSTRACT:
*
*     Class Instruction Table ZFrame Definition.
*
* LANGUAGE:
*
*     ZFrame
*
* AUTHORS:
*
*     Travis B. Sawyer
*
* CREATION DATE:
*
*     30-November-2004
* </pre>
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2kep/sbZfSbQe2000ElibCIT.hx
No license file was found, but licenses were detected in source scan.

```
#
# $Id: stk.soc,v 1.71 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
```

```
# Broadcom Proprietary and Confidential. All rights reserved.$

# stk: start stacking on various reference designs
# first arg is hex mac address (default taken from station_mac_address)
#
# config values used:
# station_mac_address
# slot   (defaults to 0)
# stkcos   (defaults to no override, usually 0)
# stkvlan   (defaults to no override, usually 1)
# stktrunk          (defaults to 1)
# slstacking  (defaults to 0)
# stkrsvmod  (defaults to 1)
# stkloadbal  (defaults to 1)
# stknhmod  (defaults to 31)
#       stkhwlinkscan           (defaults to 1)
#       stktopodelay            (defaults to 0)
#       stktopomasterdelay      (defaults to 500000)
#       stksim                  (defaults to 0)


# Platform values used:
# This list is not complete.
# sdk_xgs3_48g   <- Dual Firebolt platform.
# sdk_xgs3_48f   <- Dual Felix platform.
# sdk_xgs3_16j   <- Goldwing platform.
# sdk_xgs3_48g5g <- Raptor platform.
# sdk_xgs3_24g4g <- Raven platform.
# sdk_xgs3_48g4x <- Triumph platform.
# sdk_xgs3_4g24x <- Scorpion platform.
# sdk_xgs3_48g4x <- Valkyrie platform.
# sdk_xgs3_48g4x2 <- Triumph2 platform.
# sdk_xgs3_48g2  <- Dual Raven EB platform.
# sdk_xgs3_24g2  <- BCM5652x BCM56143/144/146
# sdk_xgs3_24g3  <- BCM56142
# sdk_xgs3_16h   <- HUMV
# sdk_xgs3_16h2  <- HUMV+
# sdk_xgs3_12h   <- Conqueror, BCM56721
# sdk_xgs3_24g8x <- BCM956639K25S
# sdk_xgs3_28g6x <- BCM956526K29
# sdk_xgs3_25g6x <- BCM956636K25S
# sdk_xgs3_24f2x <- BCM956132K
# sdk_xgs3_16m   <- BCM956840 16x40g
# sdk_xgs3_32k   <- BCM956840 32x20g
# sdk_xgs3_48x   <- BCM956840 48x10g
# sdk_xgs3_64x   <- BCM956840 64x10g
# sdk_xgs5_24g   <- BCM956440
# sdk_xgs5_24x   <- BCM956640
```

```
# sdk_xgs5_48g8x <- BCM956643, BCM956547+bcm56547_2x42
# sdk_xgs5_48g3m <- BCM956547
# sdk_xgs5_8g4h  <- BCM956270
# bcm56547_3x42  <- BCM956547+bcm56547_3x42
# bcm56340_4x10  <- BCM956340 + bcm56340_4x10
# sdk_xgs5_24g2  <- BCM956340
# bcm53415r      <- BCM953415R
# bcm956160k      <- BCM956160K

# final character definition
# x = 10G
# g = 1G
# f = 100M
# h = higig
# j = 2.5G < We could have used o but o looks like 0.
# k = 20G
# m = 40G

local mac $station_mac_address

# default discovery timers
local disc_timeout 10000000
local disc_config   1000000
local disc_poll      200000

# chassis discovery timers
local chassis_disc_config   1000000
local chassis_disc_poll      200000

#
# "large device" discovery timers
#
# As devices get larger, it takes longer to complete board
# programming. The "disc_config" time needs to be longer than the
# board programming time for a stack to properly converge. The
# "disc_poll" time is made longer in proportion to disc_config so
# roughly the same number of probe packets is issued by discovery.
#
local large_disc_config   4000000
local large_disc_poll      800000

# atp timeout
local cts_timeout 300000

if $?stksim \
 "local disc_timeout 150000000; \
  local disc_config   75000000; \
  local disc_poll      4000000; \
```

```
  local cts_timeout    5000000; \
  st Timeout state=TOPO    timeout=720000000; \
  st Timeout state=ATTACH  timeout=120000000"


if $?1 "local mac 0x$1"

if !$?slot "local slot 0"

if !$?stkcos "local stkcos -1"
if !$?stkvlan "local stkvlan -1"
if !$?stktrunk "local stktrunk 1"
if !$?stkrsvmod "local stkrsvmod 1"
if !$?stkports 'local stkports "(0,25)"'
if !$?stk_rsvd_modids "local stk_rsvd_modids 0"
if !$?stkloadbal "local stkloadbal 1"
if !$?stknhmod "local stknhmod 31"
if !$?stkhwlinkscan "local stkhwlinkscan 1"
if !$?stktopodelay "local stktopodelay 0"
if !$?stktopomasterdelay "local stktopomasterdelay 500000"


cpudb create
cpudb current 0
if $?lancelot \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=1 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard lancelot; \
 local stackable 1"
if $?white_knight || $?merlin \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=1 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
```

```
 local stackable 1"
if $?white_knight "local stkboard white_knight"
if $?merlin "local stkboard merlin"
if $?draco_b2b || $?galahad \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=13; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stackable 1"
if $?draco_b2b "local stkboard draco_b2b"
if $?galahad "local stkboard galahad"
if $?tucana && !$?magnum && !$?slstacking \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=56; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=2; \
 dbparse object=local_key key=$mac; \
 local stackable 1"
if $?tucana || $?magnum && $?slstacking  \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=2; \
 dbparse object=local_key key=$mac; \
 stackmode unit=0 sl=t; \
 local stackable 1"
if $?tucana "local stkboard tucana"
if $?magnum "local stkboard magnum"
if $?guenevere \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=1 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard guenevere; \
 local stackable 1"
if $?lynxalot \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=2; \
 dbparse object=cpudb_stk_port unit=2 port=5; \
 dbparse object=cpudb_stk_port unit=2 port=6; \
```

```
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard lynxalot; \
 local stackable 1"
if $?herc || $?cfm  || $?cfm_xgs1 || $?cfm_xgs2 \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=1 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard cfm_xgs2; \
      local disc_config   $chassis_disc_config; \
      local disc_poll     $chassis_disc_poll; \
 local stackable 1"
if $?cfm_xgs3 || $?cfm_xgs3_8x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=1 slot_id=$slot dest_unit=0 base_dest_port=20; \
 dbparse object=cpudb_stk_port unit=0 port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
```

```
      local disc_config   $chassis_disc_config; \
      local disc_poll     $chassis_disc_poll; \
 local stackable 1"
if $?cfm_xgs1 "local stkboard cfm_xgs1"
if $?cfm_xgs2 "local stkboard cfm_xgs2"
if $?cfm_xgs3  || $?cfm_xgs3_8x "local stkboard cfm_xgs3"
if $?lm_xgs2_48g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=1 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local disc_config   $chassis_disc_config; \
      local disc_poll     $chassis_disc_poll; \
      local stkboard lm_xgs2_48g; \
 local stackable 1"
if $?lm24g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=1 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard lm24g; \
 local stackable 1"
if $?lm2x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=1 base_dest_port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard lm2x; \
 local stackable 1"
if $?lm6x || $?lm_xgs1_6x || $?lm_xgs2_6x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=1 base_dest_port=2; \
```

```
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local disc_config   $chassis_disc_config; \
      local disc_poll     $chassis_disc_poll; \
 local stackable 1"
if $?lm6x "local stkboard lm6x"
if $?lm_xgs1_6x "local stkboard lm_xgs1_6x"
if $?lm_xgs2_6x "local stkboard lm_xgs2_6x"
if $?sl24f2g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=27; \
 dbparse object=cpudb_stk_port_str sp_string=$stkports; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 stackmode unit=0 sl=t; \
      local stkboard sl24f2g; \
 local stackable 1"
if $?sdk_xgs3_24g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?lm_xgs3_48g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_stk_port unit=1 port=24; \
 dbparse object=cpudb_stk_port unit=1 port=25; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local disc_config   $chassis_disc_config; \
      local disc_poll     $chassis_disc_poll; \
```

```
        local stkboard lm_xgs3_48g; \
  local stackable 1"
 if $?sdk_xgs3_12g \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=0 dest_unit=0 base_dest_port=13; \
  dbparse object=cpudb_stk_port unit=0 port=12; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
        local stkboard sdk_xgs3_24g; \
  local stackable 1"
 if $?sdk_xgs3_2hg \
        "dbparse object=cpudb_entry key=$mac mac=$mac \
                master_pri=0 slot_id=0 dest_unit=0 base_dest_port=13; \
        dbparse object=cpudb_stk_port unit=0 port=12; \
        dbparse object=cpudb_stk_port unit=0 port=0; \
        dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
        dbparse object=local_key key=$mac; \
        local stackable 1"
 if $?lm_xgs3_12x \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=$slot dest_unit=1 base_dest_port=28; \
  dbparse object=cpudb_stk_port unit=0 port=3; \
  dbparse object=cpudb_stk_port unit=0 port=4; \
  dbparse object=cpudb_stk_port unit=0 port=5; \
  dbparse object=cpudb_stk_port unit=0 port=6; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=0; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
        local disc_config   $chassis_disc_config; \
        local disc_poll     $chassis_disc_poll; \
        local stkboard lm_xgs3_12x; \
  local stackable 1"
 if $?lm_56800_12x \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=20; \
  dbparse object=cpudb_stk_port unit=0 port=0; \
  dbparse object=cpudb_stk_port unit=0 port=1; \
  dbparse object=cpudb_stk_port unit=0 port=2; \
  dbparse object=cpudb_stk_port unit=0 port=3; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
        local disc_config   $chassis_disc_config; \
        local disc_poll     $chassis_disc_poll; \
        local stkboard lm_56800_12x; \
  local stackable 1"
```

```
if $?sdk_xgs2_12g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=1 slot_id=0 dest_unit=0 base_dest_port=13; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs2_12g; \
 local stackable 1"
if $?sdk_xgs3_48f \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=1 port=27; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_48f; \
 local stackable 1"
if $?sdk_xgs3_48g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=0 dest_unit=0 base_dest_port=28; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_stk_port unit=1 port=24; \
 dbparse object=cpudb_stk_port unit=1 port=25; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_48g; \
 local stackable 1"
if $?sdk_xgs3_20x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=20; \
 dbparse object=cpudb_stk_port unit=0 port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
```

```
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_stk_port unit=0 port=18; \
 dbparse object=cpudb_stk_port unit=0 port=19; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_20x; \
 local stackable 1"
if $?sdk_xgs3_16j \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=20; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_stk_port unit=0 port=18; \
 dbparse object=cpudb_stk_port unit=0 port=19; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_20x; \
 local stackable 1"
if $?sdk_xgs3_16h \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=20; \
 dbparse object=cpudb_stk_port unit=0 port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_20x; \
 local stackable 1"
if $?sdk_xgs3_48g5g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
```

```
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_48g5g; \
      local stknhmod 15; \
      local stk_rsvd_modids 4294901760; \
      local stkrsvmod 0; \
 local stackable 1"
if $?sdk_xgs3_24g4g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_24g; \
      local stknhmod 15; \
      local stk_rsvd_modids 4294901760; \
      local stkrsvmod 0; \
 local stackable 1"
if $?sdk_xgs3_48g4x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_stk_port unit=0 port=30; \
 dbparse object=cpudb_stk_port unit=0 port=31; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_48g4x && $?stksim \
      "local disc_timeout 600000000"
if $?sdk_xgs3_48g4x2 || $?sdk_xgs3_24g2 || $?bcm956160k \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_24g3 \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
```

```
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_4g24x || $?sdk_xgs3_64x || $?sdk_xgs3_48x || $?sdk_xgs3_32k \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_stk_port unit=0 port=18; \
 dbparse object=cpudb_stk_port unit=0 port=19; \
 dbparse object=cpudb_stk_port unit=0 port=20; \
 dbparse object=cpudb_stk_port unit=0 port=21; \
 dbparse object=cpudb_stk_port unit=0 port=22; \
 dbparse object=cpudb_stk_port unit=0 port=23; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_20x; \
      local disc_config   $large_disc_config; \
      local disc_poll     $large_disc_poll; \
 local stackable 1"
if $?sdk_xgs3_48g2 \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=1 port=2; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
```

```
        local stkboard sdk_xgs3_48g2; \
        local stknhmod 15; \
        local stk_rsvd_modids 4294901760; \
        local stkrsvmod 0; \
 local stackable 1"
if $?sdk_xgs3_16h2 || $?bcm56725_16x16 \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_stk_port unit=0 port=18; \
 dbparse object=cpudb_stk_port unit=0 port=19; \
 dbparse object=cpudb_stk_port unit=0 port=20; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
        local stkboard sdk_xgs3_20x; \
 local stackable 1"
if $?sdk_xgs3_12h && !$?bcm56725_16x16\
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=17; \
 dbparse object=cpudb_stk_port unit=0 port=18; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
        local stkboard sdk_xgs3_20x; \
 local stackable 1"
if $?sdk_xgs3_24g8x \
```

```
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_stk_port unit=0 port=30; \
 dbparse object=cpudb_stk_port unit=0 port=38; \
 dbparse object=cpudb_stk_port unit=0 port=42; \
 dbparse object=cpudb_stk_port unit=0 port=50; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
      local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_28g6x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_stk_port unit=0 port=46; \
 dbparse object=cpudb_stk_port unit=0 port=50; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_25g6x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_stk_port unit=0 port=42; \
 dbparse object=cpudb_stk_port unit=0 port=50; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
 local stackable 1"
if $?sdk_xgs3_24f2x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
```

```
 local stackable 1"
if $?sdk_xgs3_16m \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=1; \
 dbparse object=cpudb_stk_port unit=0 port=2; \
 dbparse object=cpudb_stk_port unit=0 port=3; \
 dbparse object=cpudb_stk_port unit=0 port=4; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
      local disc_config   $large_disc_config; \
      local disc_poll     $large_disc_poll; \
 local stackable 1"
if $?sdk_xgs5_8g4h \
   "dbparse object=cpudb_entry key=$mac mac=$mac \
      master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
   dbparse object=cpudb_stk_port unit=0 port=9; \
   dbparse object=cpudb_stk_port unit=0 port=10; \
   dbparse object=cpudb_stk_port unit=0 port=11; \
   dbparse object=cpudb_stk_port unit=0 port=12; \
   dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
   dbparse object=local_key key=$mac; \
   local stkboard sdk_xgs3_24g; \
   local stackable 1"
if $?sdk_xgs5_24g \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
 local stackable 1"
```

```
if $?sdk_xgs5_24x \
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=5; \
 dbparse object=cpudb_stk_port unit=0 port=6; \
 dbparse object=cpudb_stk_port unit=0 port=7; \
 dbparse object=cpudb_stk_port unit=0 port=8; \
 dbparse object=cpudb_stk_port unit=0 port=9; \
 dbparse object=cpudb_stk_port unit=0 port=10; \
 dbparse object=cpudb_stk_port unit=0 port=11; \
 dbparse object=cpudb_stk_port unit=0 port=12; \
 dbparse object=cpudb_stk_port unit=0 port=13; \
 dbparse object=cpudb_stk_port unit=0 port=14; \
 dbparse object=cpudb_stk_port unit=0 port=15; \
 dbparse object=cpudb_stk_port unit=0 port=16; \
 dbparse object=cpudb_stk_port unit=0 port=21; \
 dbparse object=cpudb_stk_port unit=0 port=22; \
 dbparse object=cpudb_stk_port unit=0 port=23; \
 dbparse object=cpudb_stk_port unit=0 port=24; \
 dbparse object=cpudb_stk_port unit=0 port=25; \
 dbparse object=cpudb_stk_port unit=0 port=26; \
 dbparse object=cpudb_stk_port unit=0 port=27; \
 dbparse object=cpudb_stk_port unit=0 port=28; \
 dbparse object=cpudb_stk_port unit=0 port=29; \
 dbparse object=cpudb_stk_port unit=0 port=30; \
 dbparse object=cpudb_stk_port unit=0 port=31; \
 dbparse object=cpudb_stk_port unit=0 port=32; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
      local disc_config   $large_disc_config; \
      local disc_poll     $large_disc_poll; \
 local stackable 1"
if $?sdk_xgs5_48g8x || $?bcm56547_2x42\
 "dbparse object=cpudb_entry key=$mac mac=$mac \
  master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
 dbparse object=cpudb_stk_port unit=0 port=50; \
 dbparse object=cpudb_stk_port unit=0 port=51; \
 dbparse object=cpudb_stk_port unit=0 port=52; \
 dbparse object=cpudb_stk_port unit=0 port=53; \
 dbparse object=cpudb_stk_port unit=0 port=54; \
 dbparse object=cpudb_stk_port unit=0 port=55; \
 dbparse object=cpudb_stk_port unit=0 port=56; \
 dbparse object=cpudb_stk_port unit=0 port=57; \
 dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
 dbparse object=local_key key=$mac; \
 local stkboard sdk_xgs3_24g; \
      local disc_config   $large_disc_config; \
```

```
        local disc_poll     $large_disc_poll; \
  local stackable 1"
 if $?sdk_xgs5_24g2 \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
  dbparse object=cpudb_stk_port unit=0 port=54; \
  dbparse object=cpudb_stk_port unit=0 port=55; \
  dbparse object=cpudb_stk_port unit=0 port=56; \
  dbparse object=cpudb_stk_port unit=0 port=57; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
        local stkboard sdk_xgs3_24g; \
  local stackable 1"
 if $?bcm56340_4x10 || $?sdk_xgs5_48g3m \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
  dbparse object=cpudb_stk_port unit=0 port=50; \
  dbparse object=cpudb_stk_port unit=0 port=51; \
  dbparse object=cpudb_stk_port unit=0 port=52; \
  dbparse object=cpudb_stk_port unit=0 port=53; \
  dbparse object=cpudb_stk_port unit=0 port=54; \
  dbparse object=cpudb_stk_port unit=0 port=55; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
  local stkboard sdk_xgs3_24g; \
  local stackable 1"
 if $?bcm56547_3x42 || $?sdk_xgs5_48g3m2 \
  "dbparse object=cpudb_entry key=$mac mac=$mac \
   master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
  dbparse object=cpudb_stk_port unit=0 port=42; \
  dbparse object=cpudb_stk_port unit=0 port=43; \
  dbparse object=cpudb_stk_port unit=0 port=44; \
  dbparse object=cpudb_stk_port unit=0 port=45; \
  dbparse object=cpudb_stk_port unit=0 port=46; \
  dbparse object=cpudb_stk_port unit=0 port=47; \
  dbparse object=cpudb_stk_port unit=0 port=48; \
  dbparse object=cpudb_stk_port unit=0 port=49; \
  dbparse object=cpudb_stk_port unit=0 port=50; \
  dbparse object=cpudb_stk_port unit=0 port=51; \
  dbparse object=cpudb_stk_port unit=0 port=52; \
  dbparse object=cpudb_stk_port unit=0 port=53; \
  dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
  dbparse object=local_key key=$mac; \
  local stkboard sdk_xgs3_24g; \
  local stackable 1"
 if $?bcm53415r \
        "dbparse object=cpudb_entry key=$mac mac=$mac \
              master_pri=0 slot_id=$slot dest_unit=0 base_dest_port=0; \
```

```
        dbparse object=cpudb_stk_port unit=0 port=14; \
        dbparse object=cpudb_stk_port unit=0 port=15; \
        dbparse object=cpudb_stk_port unit=0 port=16; \
        dbparse object=cpudb_stk_port unit=0 port=17; \
        dbparse object=cpudb_unit_mod_ids pref_mod_id=-1 mod_ids_req=1; \
        dbparse object=local_key key=$mac; \
        local stkboard sdk_xgs3_24g; \
        local stackable 1"


if $?stackable \
 "cts nexthop db=0 vlan=$stkvlan cos=$stkcos srcmod=$stknhmod; \
  cts atp cos=$stkcos vlan=$stkvlan; \
       cts timeout RetryTO=$cts_timeout retries=10;\
  rpc start; \
  st start cos=$stkcos vlan=$stkvlan autotrunk=$stktrunk \
          reservedmodid=$stkrsvmod rsvdmodidbmp=$stk_rsvd_modids \
          loadbalance=$stkloadbal \
          board=$stkboard \
          timeout=$disc_timeout \
          cfgtimeout=$disc_config \
          retrx=$disc_poll \
          hwlinkscan=$stkhwlinkscan \
          topodelay=$stktopodelay \
          topomasterdelay=$stktopomasterdelay"

if !$?stackable 'echo "This platform is not recognized as stackable"'
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/stk.soc
No license file was found, but licenses were detected in source scan.

```
/*

* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident2p.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2p.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: xgxs5.c,v 1.14 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       xgxs.c
* Purpose:     Broadcom 10/100/1000/2500/10000/12000/13000/16000 SerDes
*              (SerDes-XGXS5/Unicore)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/xgxs5.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_rif.h,v 1.10 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_rif.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dport.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/common/dport.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* THIS SOFTWARE IS OFFERED "AS IS", AND BROADCOM GRANTS NO WARRANTIES OF ANY
* KIND, EXPRESS OR IMPLIED, BY STATUTE, COMMUNICATION OR OTHERWISE.
* BROADCOM SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY,
* FITNESS FOR A SPECIFIC PURPOSE OR NONINFRINGEMENT CONCERNING THIS SOFTWARE.
*
* $Id: link.c,v 1.1.2.1 Broadcom SDK $
*
```

```
* File:    link.c
* Purpose: Caladan3 link related drivers
* Requires:
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/caladan3/link.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: topology.c,v 1.30 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       topology.c
* Purpose:     Sample topology analysis implementation
* Requires:
* Notes:
*    Although this is set up to generate data on a db_ref object,
*    this code is not re-entrant and care should be taken to ensure
*    that topology create is not called multiple times simultaneously.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/stktask/topology.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaEgMemShapingEntry.c,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaEgMemShapingEntry.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       soc/shared/dcbformats/type36.h
* Purpose:     Define dma control block (DCB) format for a type36 DCB
```

```
*           used by the 56870 (Trident 3)
*
*           This file is shared between the SDK and the embedded applications.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/dcbformats/type36.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: qax_appl_intr_cb_func.h, v1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Purpose:     Implement CallBacks function for ARAD interrupts.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/QAX/qax_intr_cb_func.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hercules.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hercules.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/hercules.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ratelimit.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     ratelimit.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/include/soc/ea/tk371x/ratelimit.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    protect.c
*
* Purpose:
*
* Functions:
*      _bcm_ptp_intr_context
*      _bcm_ptp_mutex_create
*      _bcm_ptp_mutex_destroy
*      _bcm_ptp_mutex_take
*      _bcm_ptp_mutex_give
*      _bcm_ptp_sem_create
*      _bcm_ptp_sem_destroy
*      _bcm_ptp_sem_take
*      _bcm_ptp_sem_give
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/common/ptp/protect.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fe1600_fabric_cell.h,v 1.5 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON_FE1600 FABRIC CELL H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/fe1600/fe1600_fabric_cell.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: dpp_multicast_egress.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_multicast_egress.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_pp_data.h,v 1.00 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    diag_pp_data.h
* Purpose:    Types and structures used import/export PP data
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/diag_pp_data.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_pure_defi_pcp_api.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_pure_defi_pcp_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_db.c,v 1.62 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dnx/legacy/sw_db.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/sw_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: multicast.c,v  $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):

* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/dpp_multicast.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/dnx_multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains a set of functions which can be used to parse an
* SDK CLI command into a symbolic PHY operation.
*
* For example usage, please refer to e.g. $SDK/src/appl/diag/port.c.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/phymod/phymod_symop.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: port.c,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       port.c
* Purpose:     Manages untagged priority setting for port
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/shadow/port.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: field.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*  Field driver service.
*  Purpose: Handle the chip variant design for Field Processor
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/robo/tbx/voyager/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* HND SiliconBackplane chipcommon support.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: hndchipc.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/hndchipc.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/hndchipc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: diag_signals_dump.h,v 1.0 28/10/2014 19:13 idanu Exp $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       diag_signals_dump.h
* Purpose:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dcmn/diag_signals_dump.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bcm89500util.c,v 1.28 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Arm Processor Subsystem remote management CLI commands
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/aps/bcm89500util.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: shr_resmgr.h,v 1.7 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allocator.h
* Purpose:    Internal routines to the BCM library for allocating
*             gu2 resources.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/shared/shr_resmgr.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppc_api_llp_filter.h,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppc/include/soc_ppc_api_llp_filter.h
*
* MODULE PREFIX:  soc_ppc_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPC/ppc_api_llp_filter.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision    :  $Id: eagle_tsc_internal.h 1138 2015-09-17 20:58:34Z kirand $ *
*                                                                           *
*  Description :  Internal API functions                                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without          *
```

```
*  the written permission of:                                    *
*      Broadcom Corporation                                       *
*      5300 California Avenue                                     *
*      Irvine, CA  92617                                         *
*                                                        *
*  All information contained in this document is Broadcom Corporation           *
*  company private proprietary, and trade secret.                        *
*                                                        *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/eagle_tsc_internal.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bfd.c,v 1.15 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bfd.c
* Purpose:    Bidirectional Forwarding Detection APIs.
*
* Notes:      BFD functions will return BCM_E_UAVAIL unless the following
*             feature is available:  soc_feature_bfd
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/bfd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tunnel.c,v 1.32 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    tunnel.c
* Purpose: Manages tunnel configuration
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tunnel.c
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: trident2plus_ifp.c Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    trident2plus_ifp.c
* Purpose: Maintains all the debug information for ifp
*          feature for trident2plus.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/techsupport/ifp/trident2plus_ifp.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: c3hppc_sws.h,v 1.22 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* c3hppc_sws.h : C3-HPPC SWS defines
*
*------------------------------------------------------------------------------*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/test/caladan3/c3hppc_sws.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfSbQe2000ElibFMVTConsole.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2kep/sbZfSbQe2000ElibFMVTConsole.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id:$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       cint_stubs.h
* Purpose:    stubs for CINT portability interfaces
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/cint/cint_stubs.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: timesync.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Timesync Internal functions and definitions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/timesync.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600InaEsetPriEntryConsole.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600InaEsetPriEntryConsole.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l3.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l3.c
* Purpose:     BCM l3 API
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/caladan3/g3p1/l3.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*                                                                                       *
*  Revision      :   *
```

```
*                                                                    *
*  Description   :  Functions used internally and available in debug shell only        *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                *
*  the written permission of:                                        *
*      Broadcom Corporation                                           *
*      5300 California Avenue                                         *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation                *
*  company private proprietary, and trade secret.                              *
*                                                                    *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/common/srds_api_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/public/srds_api_types_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_debug_functions.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_access.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_debug_functions.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/common/srds_api_types.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/public/srds_api_types_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/falcon16/tier1/include/falcon16_tsc_types.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pmf_low_level_ce.c,v 1.106 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dpp/ARAD/arad_pmf_low_level_ce.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: er_cmdmem.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:        er_cmdmem.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/er_cmdmem.h
No license file was found, but licenses were detected in source scan.

```
# $Id: Make.config,v 1.429.8.1.4.2 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Helper makefile for integrating the phymod library into the SDK builds.
#
# Ths following line in Make.config replaces the $PHYMOD/make/rules.mk file
# with this helper makefile:
#
#   export PHYMOD_MAKE_RULES = $(SDK)/make/Make.phymod
#

# Map phymod library name to SDK library name
ifeq (,$(lib))
lib = $(LIBNAME)
endif

# Duplicate phymod rule for C source compilation
$(BLDDIR)/%.$(OBJSUFFIX): %.c $(BLDDIR)/.tree
 @$(ECHO) 'Compiling $(LOCALDIR)/$<'
 $(Q)$(CC) $(CPPFLAGS) $(CFLAGS) -c $< -o $@

# Include SDK library rules to shopprt Linux shared library builds
include $(SDK)/make/Make.lib
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/make/Make.phymod
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*  Revision      :  $Id: srds_api_enum.h 977 2015-03-19 02:24:29Z kirand $ *
```

```
*                                                                    *
*  Description   :  Enum types used by Serdes API functions          *
*                                                                    *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                        *
*      Broadcom Corporation                                          *
*      5300 California Avenue                                        *
*      Irvine, CA  92617                                             *
*                                                                    *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                    *
*                                                                    *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle/tier1/common/srds_api_enum.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       allmems_s.i
* Purpose:     Independent memory descriptions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/allmems_s.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_general.h,v 1.39 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_general.h

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rx.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       rx.c
* Purpose:     rx activation code.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dcmn/rx.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_diag.h,v 1.11 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* FE1600 DEFS H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dfe/fe1600/fe1600_diag.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: api_grammar.tab.c.c,v 1.327 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
/* Skeleton implementation for Bison's Yacc-like parsers in C

   Copyright (C) 1984, 1989, 1990, 2000, 2001, 2002, 2003, 2004, 2005, 2006
  Free Software Foundation, Inc.

  This program is free software: you can redistribute it and/or modify
  it under the terms of the GNU General Public License as published by
  the Free Software Foundation, either version 3 of the License, or
  (at your option) any later version.
```

```
  This program is distributed in the hope that it will be useful,
  but WITHOUT ANY WARRANTY; without even the implied warranty of
  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
  GNU General Public License for more details.

  You should have received a copy of the GNU General Public License
  along with this program.  If not, see <http://www.gnu.org/licenses/>.  */
/* As a special exception, you may create a larger work that contains
  part or all of the Bison parser skeleton and distribute that work
  under terms of your choice, so long as that work isn't itself a
  parser generator using the skeleton or a modified version thereof
  as a parser skeleton.  Alternatively, if you modify or redistribute
  the parser skeleton itself, you may (at your option) remove this
  special exception, which will cause the skeleton and the resulting
  Bison output files to be licensed under the GNU General Public
  License without this special exception.

  This special exception was added by the Free Software Foundation in
  version 2.2 of Bison.  */
/*
* $Id: api_grammar.tab.c,v 1.3 2011/11/04 00:39:32 dkelley Exp $
* $Copyright: (c) 2011 Broadcom Corp.
* All Rights Reserved.$
*
* File:       api_grammar.y
* Purpose:     API mode parser
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/api/api_grammar.tab.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* Definition file for the BCMI_VIPER_XGXS.
* This file provides all basic definitions required to program the BCMI_VIPER_XGXS.
*
* This file is autogenerated. Please do not edit.
```

```
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/include/phymod/chip/bcmi_viper_xgxs_defs.h
No license file was found, but licenses were detected in source scan.

```
# $Id:
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

# Dram dq swaps for BCM88470

#Dram HW properties

#RX polarity
config add phy_rx_polarity_flip.BCM88470=0


#TX polarity
config add phy_tx_polarity_flip.BCM88470=0

#rx lane swap
config add phy_rx_lane_map.BCM88470=0x3210
config add phy_rx_lane_map_quad0.BCM88470=0x3210
config add phy_rx_lane_map_quad1.BCM88470=0x3210
config add phy_rx_lane_map_quad2.BCM88470=0x3210
config add phy_rx_lane_map_quad3.BCM88470=0x3210
config add phy_rx_lane_map_quad4.BCM88470=0x3210
config add phy_rx_lane_map_quad5.BCM88470=0x3210
config add phy_rx_lane_map_quad6.BCM88470=0x3210
config add phy_rx_lane_map_quad7.BCM88470=0x3210
config add phy_rx_lane_map_quad8.BCM88470=0x3210
config add phy_rx_lane_map_quad9.BCM88470=0x3210
config add phy_rx_lane_map_quad10.BCM88470=0x3120
config add phy_rx_lane_map_quad11.BCM88470=0x3210


#tx lane swap
config add phy_tx_lane_map.BCM88470=0x3210
config add phy_tx_lane_map_quad0.BCM88470=0x3210
config add phy_tx_lane_map_quad1.BCM88470=0x3210
config add phy_tx_lane_map_quad2.BCM88470=0x3210
config add phy_tx_lane_map_quad3.BCM88470=0x3210
config add phy_tx_lane_map_quad4.BCM88470=0x3210
config add phy_tx_lane_map_quad5.BCM88470=0x3210
```

```
config add phy_tx_lane_map_quad6.BCM88470=0x3210
config add phy_tx_lane_map_quad7.BCM88470=0x3210
config add phy_tx_lane_map_quad8.BCM88470=0x3210
config add phy_tx_lane_map_quad9.BCM88470=0x3210
config add phy_tx_lane_map_quad10.BCM88470=0x3120
config add phy_tx_lane_map_quad11.BCM88470=0x3210

# Dram dq swaps for BCM88470
config add ext_ram_dq_swap_dram0_byte0_bit0.BCM88470=1
config add ext_ram_dq_swap_dram0_byte0_bit1.BCM88470=0
config add ext_ram_dq_swap_dram0_byte0_bit2.BCM88470=5
config add ext_ram_dq_swap_dram0_byte0_bit3.BCM88470=4
config add ext_ram_dq_swap_dram0_byte0_bit4.BCM88470=3
config add ext_ram_dq_swap_dram0_byte0_bit5.BCM88470=2
config add ext_ram_dq_swap_dram0_byte0_bit6.BCM88470=6
config add ext_ram_dq_swap_dram0_byte0_bit7.BCM88470=7
config add ext_ram_dq_swap_dram0_byte1_bit0.BCM88470=7
config add ext_ram_dq_swap_dram0_byte1_bit1.BCM88470=3
config add ext_ram_dq_swap_dram0_byte1_bit2.BCM88470=5
config add ext_ram_dq_swap_dram0_byte1_bit3.BCM88470=1
config add ext_ram_dq_swap_dram0_byte1_bit4.BCM88470=4
config add ext_ram_dq_swap_dram0_byte1_bit5.BCM88470=0
config add ext_ram_dq_swap_dram0_byte1_bit6.BCM88470=6
config add ext_ram_dq_swap_dram0_byte1_bit7.BCM88470=2
config add ext_ram_dq_swap_dram0_byte2_bit0.BCM88470=5
config add ext_ram_dq_swap_dram0_byte2_bit1.BCM88470=1
config add ext_ram_dq_swap_dram0_byte2_bit2.BCM88470=7
config add ext_ram_dq_swap_dram0_byte2_bit3.BCM88470=3
config add ext_ram_dq_swap_dram0_byte2_bit4.BCM88470=4
config add ext_ram_dq_swap_dram0_byte2_bit5.BCM88470=2
config add ext_ram_dq_swap_dram0_byte2_bit6.BCM88470=0
config add ext_ram_dq_swap_dram0_byte2_bit7.BCM88470=6
config add ext_ram_dq_swap_dram0_byte3_bit0.BCM88470=3
config add ext_ram_dq_swap_dram0_byte3_bit1.BCM88470=2
config add ext_ram_dq_swap_dram0_byte3_bit2.BCM88470=5
config add ext_ram_dq_swap_dram0_byte3_bit3.BCM88470=7
config add ext_ram_dq_swap_dram0_byte3_bit4.BCM88470=6
config add ext_ram_dq_swap_dram0_byte3_bit5.BCM88470=1
config add ext_ram_dq_swap_dram0_byte3_bit6.BCM88470=4
config add ext_ram_dq_swap_dram0_byte3_bit7.BCM88470=0
config add ext_ram_dq_swap_dram1_byte0_bit0.BCM88470=6
config add ext_ram_dq_swap_dram1_byte0_bit1.BCM88470=7
config add ext_ram_dq_swap_dram1_byte0_bit2.BCM88470=5
config add ext_ram_dq_swap_dram1_byte0_bit3.BCM88470=3
config add ext_ram_dq_swap_dram1_byte0_bit4.BCM88470=1
config add ext_ram_dq_swap_dram1_byte0_bit5.BCM88470=0
config add ext_ram_dq_swap_dram1_byte0_bit6.BCM88470=4
config add ext_ram_dq_swap_dram1_byte0_bit7.BCM88470=2
```

```
config add ext_ram_dq_swap_dram1_byte1_bit0.BCM88470=3
config add ext_ram_dq_swap_dram1_byte1_bit1.BCM88470=1
config add ext_ram_dq_swap_dram1_byte1_bit2.BCM88470=5
config add ext_ram_dq_swap_dram1_byte1_bit3.BCM88470=6
config add ext_ram_dq_swap_dram1_byte1_bit4.BCM88470=0
config add ext_ram_dq_swap_dram1_byte1_bit5.BCM88470=2
config add ext_ram_dq_swap_dram1_byte1_bit6.BCM88470=7
config add ext_ram_dq_swap_dram1_byte1_bit7.BCM88470=4
config add ext_ram_dq_swap_dram1_byte2_bit0.BCM88470=0
config add ext_ram_dq_swap_dram1_byte2_bit1.BCM88470=3
config add ext_ram_dq_swap_dram1_byte2_bit2.BCM88470=1
config add ext_ram_dq_swap_dram1_byte2_bit3.BCM88470=4
config add ext_ram_dq_swap_dram1_byte2_bit4.BCM88470=6
config add ext_ram_dq_swap_dram1_byte2_bit5.BCM88470=5
config add ext_ram_dq_swap_dram1_byte2_bit6.BCM88470=7
config add ext_ram_dq_swap_dram1_byte2_bit7.BCM88470=2
config add ext_ram_dq_swap_dram1_byte3_bit0.BCM88470=2
config add ext_ram_dq_swap_dram1_byte3_bit1.BCM88470=6
config add ext_ram_dq_swap_dram1_byte3_bit2.BCM88470=1
config add ext_ram_dq_swap_dram1_byte3_bit3.BCM88470=7
config add ext_ram_dq_swap_dram1_byte3_bit4.BCM88470=4
config add ext_ram_dq_swap_dram1_byte3_bit5.BCM88470=0
config add ext_ram_dq_swap_dram1_byte3_bit6.BCM88470=5
config add ext_ram_dq_swap_dram1_byte3_bit7.BCM88470=3
config add ext_ram_dq_swap_dram2_byte0_bit0.BCM88470=7
config add ext_ram_dq_swap_dram2_byte0_bit1.BCM88470=4
config add ext_ram_dq_swap_dram2_byte0_bit2.BCM88470=0
config add ext_ram_dq_swap_dram2_byte0_bit3.BCM88470=2
config add ext_ram_dq_swap_dram2_byte0_bit4.BCM88470=3
config add ext_ram_dq_swap_dram2_byte0_bit5.BCM88470=1
config add ext_ram_dq_swap_dram2_byte0_bit6.BCM88470=6
config add ext_ram_dq_swap_dram2_byte0_bit7.BCM88470=5
config add ext_ram_dq_swap_dram2_byte1_bit0.BCM88470=2
config add ext_ram_dq_swap_dram2_byte1_bit1.BCM88470=4
config add ext_ram_dq_swap_dram2_byte1_bit2.BCM88470=0
config add ext_ram_dq_swap_dram2_byte1_bit3.BCM88470=6
config add ext_ram_dq_swap_dram2_byte1_bit4.BCM88470=5
config add ext_ram_dq_swap_dram2_byte1_bit5.BCM88470=3
config add ext_ram_dq_swap_dram2_byte1_bit6.BCM88470=1
config add ext_ram_dq_swap_dram2_byte1_bit7.BCM88470=7
config add ext_ram_dq_swap_dram2_byte2_bit0.BCM88470=1
config add ext_ram_dq_swap_dram2_byte2_bit1.BCM88470=7
config add ext_ram_dq_swap_dram2_byte2_bit2.BCM88470=3
config add ext_ram_dq_swap_dram2_byte2_bit3.BCM88470=6
config add ext_ram_dq_swap_dram2_byte2_bit4.BCM88470=5
config add ext_ram_dq_swap_dram2_byte2_bit5.BCM88470=0
config add ext_ram_dq_swap_dram2_byte2_bit6.BCM88470=2
config add ext_ram_dq_swap_dram2_byte2_bit7.BCM88470=4
```

```
config add ext_ram_dq_swap_dram2_byte3_bit0.BCM88470=0
config add ext_ram_dq_swap_dram2_byte3_bit1.BCM88470=7
config add ext_ram_dq_swap_dram2_byte3_bit2.BCM88470=4
config add ext_ram_dq_swap_dram2_byte3_bit3.BCM88470=6
config add ext_ram_dq_swap_dram2_byte3_bit4.BCM88470=2
config add ext_ram_dq_swap_dram2_byte3_bit5.BCM88470=5
config add ext_ram_dq_swap_dram2_byte3_bit6.BCM88470=3
config add ext_ram_dq_swap_dram2_byte3_bit7.BCM88470=1

# Dram bank addr swaps for BCM88470
config add ext_ram_addr_bank_swap_dram0_bit7.BCM88470=4
config add ext_ram_addr_bank_swap_dram0_bit11.BCM88470=5
config add ext_ram_addr_bank_swap_dram0_bit13.BCM88470=15
config add ext_ram_addr_bank_swap_dram0_bit14.BCM88470=17
config add ext_ram_addr_bank_swap_dram0_bit5.BCM88470=6
config add ext_ram_addr_bank_swap_dram0_bit0.BCM88470=7
config add ext_ram_addr_bank_swap_dram0_bit8.BCM88470=8
config add ext_ram_addr_bank_swap_dram0_bit1.BCM88470=9
config add ext_ram_addr_bank_swap_dram0_bit4.BCM88470=10
config add ext_ram_addr_bank_swap_dram0_bit16.BCM88470=11
config add ext_ram_addr_bank_swap_dram0_bit15.BCM88470=12
config add ext_ram_addr_bank_swap_dram0_bit12.BCM88470=13
config add ext_ram_addr_bank_swap_dram0_bit6.BCM88470=0
config add ext_ram_addr_bank_swap_dram0_bit2.BCM88470=1
config add ext_ram_addr_bank_swap_dram0_bit9.BCM88470=2
config add ext_ram_addr_bank_swap_dram0_bit10.BCM88470=14
config add ext_ram_addr_bank_swap_dram0_bit17.BCM88470=16
config add ext_ram_addr_bank_swap_dram1_bit10.BCM88470=4
config add ext_ram_addr_bank_swap_dram1_bit14.BCM88470=5
config add ext_ram_addr_bank_swap_dram1_bit7.BCM88470=15
config add ext_ram_addr_bank_swap_dram1_bit12.BCM88470=17
config add ext_ram_addr_bank_swap_dram1_bit4.BCM88470=6
config add ext_ram_addr_bank_swap_dram1_bit6.BCM88470=7
config add ext_ram_addr_bank_swap_dram1_bit9.BCM88470=8
config add ext_ram_addr_bank_swap_dram1_bit1.BCM88470=9
config add ext_ram_addr_bank_swap_dram1_bit5.BCM88470=10
config add ext_ram_addr_bank_swap_dram1_bit11.BCM88470=11
config add ext_ram_addr_bank_swap_dram1_bit8.BCM88470=12
config add ext_ram_addr_bank_swap_dram1_bit13.BCM88470=13
config add ext_ram_addr_bank_swap_dram1_bit0.BCM88470=0
config add ext_ram_addr_bank_swap_dram1_bit15.BCM88470=1
config add ext_ram_addr_bank_swap_dram1_bit2.BCM88470=2
config add ext_ram_addr_bank_swap_dram1_bit17.BCM88470=14
config add ext_ram_addr_bank_swap_dram1_bit16.BCM88470=16
config add ext_ram_addr_bank_swap_dram2_bit15.BCM88470=4
config add ext_ram_addr_bank_swap_dram2_bit5.BCM88470=5
config add ext_ram_addr_bank_swap_dram2_bit11.BCM88470=15
config add ext_ram_addr_bank_swap_dram2_bit7.BCM88470=17
```

```
config add ext_ram_addr_bank_swap_dram2_bit17.BCM88470=6
config add ext_ram_addr_bank_swap_dram2_bit0.BCM88470=7
config add ext_ram_addr_bank_swap_dram2_bit16.BCM88470=8
config add ext_ram_addr_bank_swap_dram2_bit2.BCM88470=9
config add ext_ram_addr_bank_swap_dram2_bit13.BCM88470=10
config add ext_ram_addr_bank_swap_dram2_bit9.BCM88470=11
config add ext_ram_addr_bank_swap_dram2_bit12.BCM88470=12
config add ext_ram_addr_bank_swap_dram2_bit6.BCM88470=13
config add ext_ram_addr_bank_swap_dram2_bit14.BCM88470=0
config add ext_ram_addr_bank_swap_dram2_bit8.BCM88470=1
config add ext_ram_addr_bank_swap_dram2_bit1.BCM88470=2
config add ext_ram_addr_bank_swap_dram2_bit4.BCM88470=14
config add ext_ram_addr_bank_swap_dram2_bit10.BCM88470=16

##Dram HW properties
config add ext_ram_present.BCM88470=3
config add dram_type_DDR4_MICRON_Y4016AABG_JD_F_4GBIT=1
config add ext_ram_freq.BCM88470=1600
config add ext_ram_abi.BCM88470=0
config add ext_ram_write_dbi.BCM88470=0
config add ext_ram_read_dbi.BCM88470=0
config add ext_ram_write_crc.BCM88470=0
config add ext_ram_read_crc.BCM88470=0
config add ext_ram_cmd_par_latency.BCM88470=6
config add ext_ram_type.BCM88470=DDR4
config add ext_ram_total_size.BCM88470=3000
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm88470_board.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfKaRbClassProtocolEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/qe2k/sbZfKaRbClassProtocolEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.80 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* MMU/Cosq soc routines
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/trident2/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: misc.h,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     misc.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/misc.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       fields_h.i
* Purpose:     Field declarations.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/fields_h.i
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer_pp_eg_encap_access.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/JER/JER_PP/jer_pp_eg_encap_access.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/bist.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: warmboot.c,v 1.13 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     warmboot.c
* Purpose:     Sample Warm Boot cache in the Linux filesystem.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/warmboot.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.103 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/robo/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*                                                                                        *
*  Revision      :  $Id: falcon_api_uc_vars_rdwr_defns.h 1187 2015-10-19 20:35:15Z kirand $ *
*                                                                                        *
```

```
*  Description   :  Read/Write macros to Falcon IP's uC RAM's User variables              *
*                                                                                          *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                    *
*  No portions of this material may be reproduced in any form without                    *
*  the written permission of:                                                              *
*      Broadcom Corporation                                                                *
*      5300 California Avenue                                                              *
*      Irvine, CA  92617                                                                   *
*                                                                                          *
*  All information contained in this document is Broadcom Corporation                     *
*  company private proprietary, and trade secret.                                          *
*                                                                                          *
*******************************************************************************************
*******************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon_api_uc_vars_rdwr_defns.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vxlan.h,v 1.19 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains VXLAN definitions internal to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/esw/vxlan.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_tmc_api_multicast_egress.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/jer2_tmc/src/soc_jer2_tmcapi_multicast_egress.c
*
* MODULE PREFIX:  soc_jer2_tmcmult_eg
*
* FILE DESCRIPTION:  refer to H file.
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
```

* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
**********/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/TMC/tmc_api_multicast_egress.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: hash.c,v 1.1.8.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: hash.c
* Purpose: Greyhound hash table calculation routines
* Requires:
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound/hash.c
No license file was found, but licenses were detected in source scan.

/* $Id: arad_pp_api_eg_vlan_edit.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/PPD/ppd_api_eg_vlan_edit.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* zm73xx.h Digital Power Monitor
*
* Driver Supports PowerOne zm7304, zm7308, zm7316 & zm7332
*
* <http://www.power-one.com>
*

```
* This driver's initial intent is use on the Broadcom MetroCore Chassis boards.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/zm73xx.h
No license file was found, but licenses were detected in source scan.

```
/*******************************************************************************
*******************************************************************************
*  File Name     :  merlin16_debug_functions.c                                *
*  Created On    :  03 Nov 2015                                               *
*  Created By    :  Brent Roberts                                             *
*  Description   :  APIs for Serdes IPs                                       *
*  Revision      :   *
*                                                                             *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                *
*  No portions of this material may be reproduced in any form without        *
*  the written permission of:                                                 *
*      Broadcom Corporation                                                   *
*      5300 California Avenue                                                 *
*      Irvine, CA  92617                                                      *
*                                                                             *
*  All information contained in this document is Broadcom Corporation        *
*  company private proprietary, and trade secret.                             *
*                                                                             *
*******************************************************************************
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/merlin16/tier1/merlin16_debug_functions.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: jer2_arad_api_framework.h,v 1.167 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnx/legacy/ARAD/arad_api_framework.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bist.c,v 1.21 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
```

* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Memory Built-in Self Test
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/mbist.c
No license file was found, but licenses were detected in source scan.

/* Id
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$ */
/* ---- text pkg ----*/
//stream 0
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000000000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200

27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280802e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228080aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224080a093281f4c03fd8000
224080a093281f4d03fda000
224080a093281f4e03fdc000
224080a093281f4f03fde000
224080a093281f4803fd0000
224080a093281f4903fd2000
224080a093281f4a03fd4000
224080a093281f4b03fd6000
224080a093281f4403fc8000

224080a093281f4503fca000
224080a093281f4603fcc000
224080a093281f4703fce000
224080a093281f4003fc0000
224080a093281f4103fc2000
224080a093281f4203fc4000
224080a093281f4303fc6000
224080a2ffe81330027f8000
24c4007dffe0000000000000
22408061ffe81f5403fe8000
22408061ffe81f5503fea000
22408061ffe81f5603fec000
22408061ffe81f5703fee000
24c440a2ffe0000000000001
22808069ffe0000000000000
22408068fff01ff400000000
22408068fff01ff500000000
22408068fff01ff600000000
22408068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22808069ffe0000000000000
24c4007dffe0000000000001
2240806fffe81f5003fe0000
2240806fffe81f5103fe2000
2240806fffe81f5203fe4000
2240806fffe81f5303fe6000
24c480a2ffe0000000000001
22808077ffe0000000000000
22408076fff01ff000000000
22408076fff01ff100000000
22408076fff01ff200000000
22408076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22808077ffe0000000000000
24c4007dffe0000000000001
22c0807afff8007d00000000
228080a4ffe0000000000000
000000000000000000000000
224080a6ffe81f2d03ff6000
224080a6ffe81f2c03ff4000
224080a6ffe81f2b03ff2000
224080a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000

000000000000000000000000
000000000000000000000000
2c971c16ffe0003000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224080a8ffe81f5603e2c000
224080a8ffe81f5703e2e000
224080a8ffe81f5803e30000
2c171c38ffe0003000000000
224080a8ffe81f5903e32000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
224080a8ffe81f6003e40000
224080a8ffe81f6103e42000
224080a8ffe81f6203e44000
224080a8ffe81f6303e46000
224080a8ffe81f6403e48000
224080a8ffe81f6503e4a000
224080a8ffe81f6603e4c000
224080a8ffe81f6703e4e000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
228080b0ffe0000000000000
24c41f15fff01f1508000000
228080adffe0000000000000
24c41f15fff01f1540000000
228080adffe0000000000000
24c41f15fff01f1520000000
228080adffe0000000000000
24c41f15fff01f1502000000
228080adffe0000000000000
24c41f15fff01f1504000000
228080adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228081a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000

44c41f15fff009a000001000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f79ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f78ffe0000055555555
4c971c78ffe0003000000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
445900a2fff01f39aaaaaaaa
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
453f03a2fff100a200000001
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428100de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281015affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000

44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241015093281f4c03fd8000
4241015093281f4d03fda000
4241015093281f4e03fdc000
4241015093281f4f03fde000
4241015093281f4803fd0000
4241015093281f4903fd2000
4241015093281f4a03fd4000
4241015093281f4b03fd6000
4241015093281f4403fc8000
4241015093281f4503fca000
4241015093281f4603fcc000
4241015093281f4703fce000
4241015093281f4003fc0000
4241015093281f4103fc2000
4241015093281f4203fc4000
4241015093281f4303fc6000
42410152ffe81330027f8000
42410154ffe81f5403fe8000
42410154ffe81f5503fea000
42410154ffe81f5603fec000
42410154ffe81f5703fee000
42410154ffe81f5003fe0000
42410154ffe81f5103fe2000
42410154ffe81f5203fe4000
42410154ffe81f5303fe6000

44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42410156ffe81f2d03ff6000
42410156ffe81f2c03ff4000
42410156ffe81f2b03ff2000
42410156ffe81f2a03ff0000
445900a2fff01f3855555555
453f03a2fff100a200000001
44c81f38fff01f38ffffffff
44c81f39fff01f39ffffffff
4c971c38ffe0003000000000
4c930c39ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
44c81f38fff01f76ffffffff
44c81f39fff01f77ffffffff
44c81f78fff01f79ffffffff
4c971c38ffe0003000000000
4c930c78ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f7855555555
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410158ffe81f5603e2c000
42410158ffe81f5703e2e000
42410158ffe81f5803e30000
42410158ffe81f5903e32000

000000000000000000000000
000000000000000000000000
445900a2fff01f7755555555
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410158ffe81f6603e4c000
42410158ffe81f6703e4e000
000000000000000000000000
42810160ffe0000000000000
44c41f15fff01f1508000000
4281015dffe0000000000000
44c41f15fff01f1540000000
4281015dffe0000000000000
44c41f15fff01f1510000000
4281015dffe0000000000000
44c41f15fff01f1502000000
4281015dffe0000000000000
44c41f15fff01f1504000000
4281015dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428101a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc0000000000000000000

24c41f56fff01f0cee220000
2240819dffe81f5603e2c000
24c41f57fff01f0cff220000
2240819dffe81f5703e2e000
24c41f58fff01f0dee110000
2240819dffe81f5803e30000
24c41f59fff01f0dff110000
2240819dffe81f5903e32000
24c41f5afff00b0eee000000
2240819dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240819dffe81f5b03e36000
24c41f5efff01f10ee440000
2240819dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240819dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240819dffe81f6003e40000
24c41f61fff01f11ff550000
2240819dffe81f6103e42000
24c41f62fff01f12ee660000
2240819dffe81f6203e44000
24c41f63fff01f12ff660000
2240819dffe81f6303e46000
24c41f64fff01f13ee770000
2240819dffe81f6403e48000
24c41f65fff01f13ff770000
2240819dffe81f6503e4a000
24c41f66fff01f14ee880000
2240819dffe81f6603e4c000
24c41f67fff01f14ff880000
2240819dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228081a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000

2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 1
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000010000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
253920a2fff001aa00000001
2c971c78ffe0003000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c171c38ffe0003000000000

281e10b893381f0700000000
ff8000000000000000000000
2280882e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228088aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
245900a2fff01f39aaaaaaaa
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
224088a6ffe81f2d03ff6000
224088a6ffe81f2c03ff4000
224088a6ffe81f2b03ff2000
224088a6ffe81f2a03ff0000
253f03a2fff100a200000001
224088a093281f4c03fd8000
224088a093281f4d03fda000
224088a093281f4e03fdc000
224088a093281f4f03fde000
224088a093281f4803fd0000
224088a093281f4903fd2000
224088a093281f4a03fd4000
224088a093281f4b03fd6000
224088a093281f4403fc8000
224088a093281f4503fca000
224088a093281f4603fcc000
224088a093281f4703fce000
224088a093281f4003fc0000
224088a093281f4103fc2000
224088a093281f4203fc4000

224088a093281f4303fc6000
224088a2ffe81330027f8000
245900a2fff01f3855555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
224088a4ffe81f5403fe8000
224088a4ffe81f5503fea000
224088a4ffe81f5603fec000
224088a4ffe81f5703fee000
224088a4ffe81f5003fe0000
224088a4ffe81f5103fe2000
224088a4ffe81f5203fe4000
224088a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff

24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224088a8ffe81f5603e2c000
224088a8ffe81f5703e2e000
224088a8ffe81f5803e30000
224088a8ffe81f5903e32000
224088a8ffe81f5a03e34000
224088a8ffe81f5b03e36000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
224088a8ffe81f6603e4c000
224088a8ffe81f6703e4e000
000000000000000000000000
228088b0ffe0000000000000
24c41f15fff01f1508000000
228088adffe0000000000000
24c41f15fff01f1540000000
228088adffe0000000000000
24c41f15fff01f1501000000
228088adffe0000000000000
24c41f15fff01f1502000000
228088adffe0000000000000
24c41f15fff01f1504000000
228088adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228089a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000011000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000

44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
44c41f38ffe0000055555555
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b8fff81f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428108de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281095affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000

44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42410950ffe81f4c03fd8000
42410950ffe81f4d03fda000
42410950ffe81f4e03fdc000
42410950ffe81f4f03fde000
42410950ffe81f4803fd0000
42410950ffe81f4903fd2000
42410950ffe81f4a03fd4000
42410950ffe81f4b03fd6000
42410950ffe81f4403fc8000
42410950ffe81f4503fca000
42410950ffe81f4603fcc000
42410950ffe81f4703fce000
42410950ffe81f4003fc0000
42410950ffe81f4103fc2000
42410950ffe81f4203fc4000
42410950ffe81f4303fc6000
42410952ffe81330027f8000
4c971c38ffe0003000000000
4c930c38ffe0003800000000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000

42410954ffe81f5403fe8000
42410954ffe81f5503fea000
42410954ffe81f5603fec000
42410954ffe81f5703fee000
42410954ffe81f5003fe0000
42410954ffe81f5103fe2000
42410954ffe81f5203fe4000
42410954ffe81f5303fe6000
445900a2fff01f7955555555
453f03a2fff100a200000001
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42410956ffe81f2d03ff6000
42410956ffe81f2c03ff4000
42410956ffe81f2b03ff2000
42410956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42410958ffe81f5603e2c000
42410958ffe81f5703e2e000
42410958ffe81f5803e30000
42410958ffe81f5903e32000
2240899dffe81f5a03e34000
2240899dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42410958ffe81f6003e40000
42410958ffe81f6103e42000

42410958ffe81f6203e44000
42410958ffe81f6303e46000
42410958ffe81f6403e48000
42410958ffe81f6503e4a000
42410958ffe81f6603e4c000
42410958ffe81f6703e4e000
000000000000000000000000
42810960ffe0000000000000
44c41f15fff01f1508000000
4281095dffe0000000000000
44c41f15fff01f1540000000
4281095dffe0000000000000
44c41f15fff01f1501000000
4281095dffe0000000000000
44c41f15fff01f1502000000
4281095dffe0000000000000
44c41f15fff01f1504000000
4281095dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428109a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240899dffe81f5603e2c000
24c41f57fff01f0cff220000
2240899dffe81f5703e2e000
24c41f58fff01f0dee110000
2240899dffe81f5803e30000

24c41f59fff01f0dff110000
2240899dffe81f5903e32000
24c41f5afff00b0eee000000
2240899dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240899dffe81f5b03e36000
24c41f5efff01f10ee440000
2240899dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240899dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240899dffe81f6003e40000
24c41f61fff01f11ff550000
2240899dffe81f6103e42000
24c41f62fff01f12ee660000
2240899dffe81f6203e44000
24c41f63fff01f12ff660000
2240899dffe81f6303e46000
24c41f64fff01f13ee770000
2240899dffe81f6403e48000
24c41f65fff01f13ff770000
2240899dffe81f6503e4a000
24c41f66fff01f14ee880000
2240899dffe81f6603e4c000
24c41f67fff01f14ff880000
2240899dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228089a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 2
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000020000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c50736fff007aa00000000
24c60b36fff108aa00000000
24c7072ffff207aa00000000
2928807effe80f7a03ef9800
24c40f08fff20faa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c40b0afff208aa00000000
24c41f39ffe00000aaaaaaaa
24c41f38ffe0000055555555
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e0430d
27fc0056ffe81f0a03e5c20d
27fc0052ffe81f2803e9c10d
27fc0036ffe81f3403e1000d
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280902e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228090aaffe0000000000000
```

2c971c38ffe0003000000000
2c171c78ffe0003000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
224090a093281f4803fd0000
224090a093281f4903fd2000
224090a093281f4a03fd4000
224090a093281f4b03fd6000
224090a093281f4403fc8000
224090a093281f4503fca000
224090a093281f4603fcc000
224090a093281f4703fce000
224090a2ffe81330027f8000
245900a2fff01f79aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
24c81f38fff01f78ffffffff
24c81f39fff01f79ffffffff
2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000

24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
224090a4ffe81f5403fe8000
224090a4ffe81f5503fea000
224090a4ffe81f5603fec000
224090a4ffe81f5703fee000
224090a4ffe81f5003fe0000
224090a4ffe81f5103fe2000
224090a4ffe81f5203fe4000
224090a4ffe81f5303fe6000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
24c81f38fff01f76ffffffff
24c81f39fff01f77ffffffff
24c81f78fff01f79ffffffff
2c971c38ffe0003000000000
2c930c78ffe0003800000000
2c171c76ffe0003000000000
2c130c78ffe0003800000000
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7855555555
253f03a2fff100a200000001
245900a2fff01f7755555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a6ffe81f2d03ff6000
224090a6ffe81f2c03ff4000
224090a6ffe81f2b03ff2000
224090a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000

224090a8ffe81f5603e2c000
224090a8ffe81f5703e2e000
224090a8ffe81f5803e30000
224090a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
224090a8ffe81f5e03e3c000
224090a8ffe81f5f03e3e000
224090a8ffe81f6203e44000
224090a8ffe81f6303e46000
224090a8ffe81f6403e48000
224090a8ffe81f6503e4a000
224090a8ffe81f6603e4c000
224090a8ffe81f6703e4e000
000000000000000000000000
228090b0ffe0000000000000
24c41f15fff01f1508000000
228090adffe0000000000000
24c41f15fff01f1540000000
228090adffe0000000000000
24c41f15fff01f1500800000
228090adffe0000000000000
24c41f15fff01f1502000000
228090adffe0000000000000
24c41f15fff01f1504000000
228090adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228091a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000021000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000

44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f38ffe0000055555555
4c971c38ffe0003000000000
4c930c38ffe0003800000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04307
47fc0056ffe81f0a03e5c207
47fc0052ffe81f2803e9c107
47fc0036ffe81f3403e10007
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428110de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281115affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000

44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241115093281f4c03fd8000
4241115093281f4d03fda000
4241115093281f4e03fdc000
4241115093281f4f03fde000
4241115093281f4803fd0000
4241115093281f4903fd2000
4241115093281f4a03fd4000
4241115093281f4b03fd6000
4241115093281f4403fc8000
4241115093281f4503fca000
4241115093281f4603fcc000
4241115093281f4703fce000
4241115093281f4003fc0000
4241115093281f4103fc2000
4241115093281f4203fc4000
4241115093281f4303fc6000
42411152ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411156ffe81f2d03ff6000
42411156ffe81f2c03ff4000
42411156ffe81f2b03ff2000
42411156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000

44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42411154ffe81f5403fe8000
42411154ffe81f5503fea000
42411154ffe81f5603fec000
42411154ffe81f5703fee000
42411154ffe81f5003fe0000
42411154ffe81f5103fe2000
42411154ffe81f5203fe4000
42411154ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c171c38ffe0003000000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
445900a2ffe81f5703e72000
453f03a2fff100a200000001
4c971c26ffe0003000000000
4c971c78ffe0005000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411158ffe81f5603e2c000
42411158ffe81f5703e2e000
42411158ffe81f5803e30000
42411158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
4c171c38ffe0003000000000
4c971c78ffe0005800000000
445900a2ffe81f6603e70000
453f03a2fff100a200000001
445900a2ffe81f6703e72000
453f03a2fff100a200000001
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42411158ffe81f6603e4c000
42411158ffe81f6703e4e000

000000000000000000000000
42811160ffe0000000000000
44c41f15fff01f1508000000
4281115dffe0000000000000
44c41f15fff01f1540000000
4281115dffe0000000000000
44c41f15fff01f1501000000
4281115dffe0000000000000
44c41f15fff01f1502000000
4281115dffe0000000000000
44c41f15fff01f1504000000
4281115dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428111a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240919dffe81f5603e2c000
24c41f57fff01f0cff220000
2240919dffe81f5703e2e000
24c41f58fff01f0dee110000
2240919dffe81f5803e30000
24c41f59fff01f0dff110000
2240919dffe81f5903e32000
24c41f5afff00b0eee000000
2240919dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240919dffe81f5b03e36000

24c41f5efff01f10ee440000
2240919dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240919dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240919dffe81f6003e40000
24c41f61fff01f11ff550000
2240919dffe81f6103e42000
24c41f62fff01f12ee660000
2240919dffe81f6203e44000
24c41f63fff01f12ff660000
2240919dffe81f6303e46000
24c41f64fff01f13ee770000
2240919dffe81f6403e48000
24c41f65fff01f13ff770000
2240919dffe81f6503e4a000
24c41f66fff01f14ee880000
2240919dffe81f6603e4c000
24c41f67fff01f14ff880000
2240919dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228091a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 3
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000030000

24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280982e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
228098aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000

24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
224098a093281f4c03fd8000
224098a093281f4d03fda000
224098a093281f4e03fdc000
224098a093281f4f03fde000
224098a093281f4803fd0000
224098a093281f4903fd2000
224098a093281f4a03fd4000
224098a093281f4b03fd6000
224098a093281f4403fc8000
224098a093281f4503fca000
224098a093281f4603fcc000
224098a093281f4703fce000
224098a093281f4003fc0000
224098a093281f4103fc2000
224098a093281f4203fc4000
224098a093281f4303fc6000
000000000000000000000000
24c4007dffe0000000000000
22409861ffe81f5403fe8000
22409861ffe81f5503fea000
22409861ffe81f5603fec000
22409861ffe81f5703fee000
24c440a2ffe0000000000001
22809869ffe0000000000000
22409868fff01ff400000000
22409868fff01ff500000000
22409868fff01ff600000000

22409868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
22809869ffe0000000000000
24c4007dffe0000000000001
2240986fffe81f5003fe0000
2240986fffe81f5103fe2000
2240986fffe81f5203fe4000
2240986fffe81f5303fe6000
24c480a2ffe0000000000001
22809877ffe0000000000000
22409876fff01ff000000000
22409876fff01ff100000000
22409876fff01ff200000000
22409876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
22809877ffe0000000000000
24c4007dffe0000000000001
224098a2fff8007d00000000
000000000000000000000000
224098a8ffe81330027f8000
224098a4ffe81f2d03ff6000
224098a4ffe81f2c03ff4000
224098a4ffe81f2b03ff2000
224098a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
2c971c26ffe0003000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
2c171c38ffe0003000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
224098a6ffe81f5603e2c000
224098a6ffe81f5703e2e000
224098a6ffe81f5803e30000
224098a6ffe81f5903e32000
224098a6ffe81f5a03e34000
224098a6ffe81f5b03e36000

245900a2ffe81f6603e70000
253f03a2fff100a200000001
224098a6ffe81f6003e40000
224098a6ffe81f6103e42000
224098a6ffe81f6203e44000
224098a6ffe81f6303e46000
224098a6ffe81f6603e4c000
245900a2ffe81f6703e72000
253f03a2fff100a200000001
224098a6ffe81f6703e4e000
228098b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
228098adffe0000000000000
24c41f15fff01f1520000000
228098adffe0000000000000
24c41f15fff01f1502000000
228098adffe0000000000000
24c41f15fff01f1504000000
228098adffe0000000000000
24c41f15fff01f1540000000
228098adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
228099a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000031000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f39ffe00000aaaaaaaa
44c41f14fff00baa00000000

44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
44c41f38ffe0000055555555
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
4c971c38ffe0003000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04308
47fc0056ffe81f0a03e5c208
47fc0052ffe81f2803e9c108
47fc0036ffe81f3403e10008
481204b8fff81f0400000000
481608b8fff81f0500000000
481a0cb8fff81f0600000000
4c930c38ffe0003800000000
481e10b8fff81f0700000000
ff8000000000000000000000
428118de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281195affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000

44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
42411950ffe81f4c03fd8000
42411950ffe81f4d03fda000
42411950ffe81f4e03fdc000
42411950ffe81f4f03fde000
42411950ffe81f4803fd0000
42411950ffe81f4903fd2000
42411950ffe81f4a03fd4000
42411950ffe81f4b03fd6000
42411950ffe81f4403fc8000
42411950ffe81f4503fca000
42411950ffe81f4603fcc000
42411950ffe81f4703fce000
42411950ffe81f4003fc0000
42411950ffe81f4103fc2000
42411950ffe81f4203fc4000
42411950ffe81f4303fc6000
42411952ffe81330027f8000
4c171c76ffe0003000000000
4c130c79ffe0003800000000
445900a2fff01f7655555555
453f03a2fff100a200000001
445900a2fff01f7955555555
453f03a2fff100a200000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42411956ffe81f2d03ff6000
42411956ffe81f2c03ff4000
42411956ffe81f2b03ff2000
42411956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42411954ffe81f5403fe8000
42411954ffe81f5503fea000
42411954ffe81f5603fec000
42411954ffe81f5703fee000

42411954ffe81f5003fe0000
42411954ffe81f5103fe2000
42411954ffe81f5203fe4000
42411954ffe81f5303fe6000
445900a2fff01f77aaaaaaaa
453f03a2fff100a200000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c77ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42411958ffe81f5603e2c000
42411958ffe81f5703e2e000
42411958ffe81f5803e30000
42411958ffe81f5903e32000
2240999dffe81f5a03e34000
2240999dffe81f5b03e36000
000000000000000000000000
445900a2ffe81f6703eee000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
42411958ffe81f6603e4c000
42411958ffe81f6703e4e000
4c971c78ffe0006800000000
42811960ffe0000000000000
44c41f15fff01f1508000000
4281195dffe0000000000000
44c41f15fff01f1540000000
4281195dffe0000000000000

44c41f15fff01f1500800000
4281195dffe0000000000000
44c41f15fff01f1502000000
4281195dffe0000000000000
44c41f15fff01f1504000000
4281195dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428119a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240999dffe81f5603e2c000
24c41f57fff01f0cff220000
2240999dffe81f5703e2e000
24c41f58fff01f0dee110000
2240999dffe81f5803e30000
24c41f59fff01f0dff110000
2240999dffe81f5903e32000
24c41f5afff00b0eee000000
2240999dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240999dffe81f5b03e36000
24c41f5efff01f10ee440000
2240999dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240999dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240999dffe81f6003e40000

24c41f61fff01f11ff550000
2240999dffe81f6103e42000
24c41f62fff01f12ee660000
2240999dffe81f6203e44000
24c41f63fff01f12ff660000
2240999dffe81f6303e46000
24c41f64fff01f13ee770000
2240999dffe81f6403e48000
24c41f65fff01f13ff770000
2240999dffe81f6503e4a000
24c41f66fff01f14ee880000
2240999dffe81f6603e4c000
24c41f67fff01f14ff880000
2240999dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
228099a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 4
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000040000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f06fff28baa00000000
24c41f13fff00baa00000000

24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f79ffe00000aaaaaaaa
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
24c41f78ffe0000055555555
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
2c971c78ffe0003000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
253920a2fff001aa00000001
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281214b893381f0400000000
29141820fff81f1100000000
281a18b893381f0600000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280a02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a0aaffe0000000000000
24c41f4cfff01f0411150000
24c41f4dfff01f0422250000
24c41f4efff01f0433350000
24c41f4ffff01f0444450000
24c41f48fff01f0455550000
24c41f49fff01f0466650000
24c41f4afff01f0477750000
24c41f4bfff01f0400750000
24c41f44fff01f0611160000
24c41f45fff01f0622260000
24c41f46fff01f0633360000
24c41f47fff01f0644460000

24c41f40fff01f0655560000
24c41f41fff01f0666660000
24c41f42fff01f0677760000
24c41f43fff01f0600760000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0003000000000
2240a0a093281f4c03fd8000
2240a0a093281f4d03fda000
2240a0a093281f4e03fdc000
2240a0a093281f4f03fde000
2240a0a093281f4803fd0000
2240a0a093281f4903fd2000
2240a0a093281f4a03fd4000
2240a0a093281f4b03fd6000
2240a0a093281f4403fc8000
2240a0a093281f4503fca000
2240a0a093281f4603fcc000
2240a0a093281f4703fce000
2240a0a093281f4003fc0000
2240a0a093281f4103fc2000
2240a0a093281f4203fc4000
2240a0a093281f4303fc6000
2240a0a2ffe81330027f8000
24c4007dffe0000000000000
2240a061ffe81f5403fe8000
2240a061ffe81f5503fea000
2240a061ffe81f5603fec000
2240a061ffe81f5703fee000
24c440a2ffe0000000000001
2280a069ffe0000000000000
2240a068fff01ff400000000
2240a068fff01ff500000000
2240a068fff01ff600000000
2240a068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280a069ffe0000000000000
24c4007dffe0000000000001
2240a06fffe81f5003fe0000

2240a06fffe81f5103fe2000
2240a06fffe81f5203fe4000
2240a06fffe81f5303fe6000
24c480a2ffe0000000000001
2280a077ffe0000000000000
2240a076fff01ff000000000
2240a076fff01ff100000000
2240a076fff01ff200000000
2240a076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280a077ffe0000000000000
24c4007dffe0000000000001
000000000000000000000000
22c0a07afff8007d00000000
2280a0a4ffe0000000000000
2240a0a6ffe81f2d03ff6000
2240a0a6ffe81f2c03ff4000
2240a0a6ffe81f2b03ff2000
2240a0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
245900a2fff01f77aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
000000000000000000000000
000000000000000000000000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a0a8ffe81f5603e2c000
2240a0a8ffe81f5703e2e000
2240a0a8ffe81f5803e30000
2240a0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240a0a8ffe81f6003e40000
2240a0a8ffe81f6103e42000
000000000000000000000000
000000000000000000000000

2240a0a8ffe81f6403e48000
2240a0a8ffe81f6503e4a000
2240a0a8ffe81f6603e4c000
2240a0a8ffe81f6703e4e000
2280a0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280a0adffe0000000000000
24c41f15fff01f1540000000
2280a0adffe0000000000000
24c41f15fff01f1520000000
2280a0adffe0000000000000
24c41f15fff01f1502000000
2280a0adffe0000000000000
24c41f15fff01f1504000000
2280a0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000041000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f77ffe00000aaaaaaaa
44c41f14fff00baa00000000
44c41f76ffe0000055555555
4c971c76ffe0003000000000
4c930c77ffe0003800000000
4c171c38ffe0003000000000
453920a2fff001aa00000001
000000000000000000000000

000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428120de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281215affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241215093281f4c03fd8000

4241215093281f4d03fda000
4241215093281f4e03fdc000
4241215093281f4f03fde000
4241215093281f4803fd0000
4241215093281f4903fd2000
4241215093281f4a03fd4000
4241215093281f4b03fd6000
4241215093281f4403fc8000
4241215093281f4503fca000
4241215093281f4603fcc000
4241215093281f4703fce000
4241215093281f4003fc0000
4241215093281f4103fc2000
4241215093281f4203fc4000
4241215093281f4303fc6000
42412152ffe81330027f8000
42412154ffe81f5403fe8000
42412154ffe81f5503fea000
42412154ffe81f5603fec000
42412154ffe81f5703fee000
42412154ffe81f5003fe0000
42412154ffe81f5103fe2000
42412154ffe81f5203fe4000
42412154ffe81f5303fe6000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42412156ffe81f2d03ff6000
42412156ffe81f2c03ff4000
42412156ffe81f2b03ff2000
42412156ffe81f2a03ff0000
4c171c76ffe0003400000000
445900a2fff01f39aaaaaaaa
453f03a2fff100a200000001
445900a2fff01f3855555555
453f03a2fff100a200000001
445900a2fff01f7755555555
453f03a2fff100a200000001
445900a2fff01f76aaaaaaaa
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
4c991122ffe0003000000000

4c993344ffe0003200000000
4c995566ffe0003400000000
4c997788ffe0003600000000
4c9999aaffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
4c99bbccffe0003a00000000
4c100c78ffe0003000000000
4c100c79ffe0003100000000
445900a2fff01f7800000011
453f03a2fff100a200000001
445900a2fff01f7900000022
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412158ffe81f5603e2c000
42412158ffe81f5703e2e000
42412158ffe81f5803e30000
42412158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
053f03a2fff100a200000001
4c171c78ffe0003000000000
4c130c76ffe0003800000000
445900a2fff01f7911223344
453f03a2fff100a200000001
445900a2fff01f7855667788
453f03a2fff100a200000001
445900a2fff01f7699aabbcc
42412158ffe81f6603e4c000
42412158ffe81f6703e4e000
453f03a2fff100a200000001
42812160ffe0000000000000
44c41f15fff01f1508000000
4281215dffe0000000000000
44c41f15fff01f1540000000
4281215dffe0000000000000
44c41f15fff01f1510000000
4281215dffe0000000000000
44c41f15fff01f1502000000
4281215dffe0000000000000
44c41f15fff01f1504000000
4281215dffe0000000000000

44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428121a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a19dffe81f5803e30000
24c41f59fff01f0dff110000
2240a19dffe81f5903e32000
24c41f5afff00b0eee000000
2240a19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a19dffe81f6003e40000
24c41f61fff01f11ff550000
2240a19dffe81f6103e42000
24c41f62fff01f12ee660000
2240a19dffe81f6203e44000
24c41f63fff01f12ff660000
2240a19dffe81f6303e46000

24c41f64fff01f13ee770000
2240a19dffe81f6403e48000
24c41f65fff01f13ff770000
2240a19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240a19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 5
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000050000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f28fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800

24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
2c991122ffe0003000000000
2c993344ffe0003200000000
2c995566ffe0003400000000
2c997788ffe0003600000000
2c9999aaffe0003800000000
2c99bbccffe0003a00000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c130c39ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04305
27fc0056ffe81f0a03e5c205
27fc0052ffe81f2803e9c105
27fc0036ffe81f3403e10005
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
2c130c38ffe0003400000000
281e10b893381f0700000000
ff8000000000000000000000
2280a82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280a8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c41f54fff00f28888c0000
24c41f55fff00f28007c0000

24c41f56ffe0000000000000
24c41f57ffe0000000000000
24c41f50fff20f0b888c0000
24c41f51fff20f0b007c0000
24c41f52ffe0000000000000
24c41f53ffe0000000000000
245900a2fff01f3911223344
253f03a2fff100a200000001
245900a2fff01f3855667788
2240a8a093281f4c03fd8000
2240a8a093281f4d03fda000
2240a8a093281f4e03fdc000
2240a8a093281f4f03fde000
2240a8a093281f4803fd0000
2240a8a093281f4903fd2000
2240a8a093281f4a03fd4000
2240a8a093281f4b03fd6000
2240a8a093281f4403fc8000
2240a8a093281f4503fca000
2240a8a093281f4603fcc000
2240a8a093281f4703fce000
2240a8a093281f4003fc0000
2240a8a093281f4103fc2000
2240a8a093281f4203fc4000
2240a8a093281f4303fc6000
2240a8a2ffe81330027f8000
2240a8a4ffe81f5403fe8000
2240a8a4ffe81f5503fea000
2240a8a4ffe81f5603fec000
2240a8a4ffe81f5703fee000
2240a8a4ffe81f5003fe0000
2240a8a4ffe81f5103fe2000
2240a8a4ffe81f5203fe4000
2240a8a4ffe81f5303fe6000
2c130c38ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f3899aabbcc
253f03a2fff100a200000001
2c110c38ffe0003000000000
2c110c39ffe0003200000000
2c110c78ffe0003400000000
2c110c79ffe0003600000000
2c110c76ffe0003800000000
2c110c77ffe0003a00000000
245900a2fff01f3800001122
253f03a2fff100a200000001
245900a2fff01f3900003344
253f03a2fff100a200000001

245900a2fff01f7800005566
253f03a2fff100a200000001
245900a2fff01f7900007788
253f03a2fff100a200000001
245900a2fff01f76000099aa
253f03a2fff100a200000001
245900a2fff01f770000bbcc
253f03a2fff100a200000001
2c971c16ffe0003000000000
2c930c19ffe0003800000000
2c171c38ffe0003000000000
2c130c79ffe0003800000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
245900a2ffe81f5703e72000
253f03a2fff100a200000001
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
245900a2ffe81f5603e70000
253f03a2fff100a200000001
245900a2ffe81f5903ef2000
253f03a2fff100a200000001
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240a8a8ffe81f5603e2c000
2240a8a8ffe81f5703e2e000
2240a8a8ffe81f5803e30000
2240a8a8ffe81f5903e32000
2240a8a8ffe81f5a03e34000
2240a8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240a8a8ffe81f6603e4c000
2240a8a8ffe81f6703e4e000
2280a8b0ffe0000000000000

24c41f15fff01f1508000000
2280a8adffe0000000000000
24c41f15fff01f1540000000
2280a8adffe0000000000000
24c41f15fff01f1510000000
2280a8adffe0000000000000
24c41f15fff01f1502000000
2280a8adffe0000000000000
24c41f15fff01f1504000000
2280a8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280a9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000051000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
4c171c38ffe0005000000000
49201826fff81f1400000000

47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481204b893381f0400000000
481624b893381f0500000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff8000000000000000000000
428128de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281295affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511190000
44c41f49fff01f0522290000
44c41f4afff01f0533390000
44c41f4bfff01f0544490000
44c41f44fff01f0555590000
44c41f45fff01f0566690000
44c41f46fff01f0577790000
44c41f47fff01f0500790000
44c41f40fff01f0599990000
44c41f41fff01f05aaa90000
44c41f42fff01f05bbb90000
44c41f43fff01f0500790000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241295093281f4c03fd8000
4241295093281f4d03fda000
4241295093281f4e03fdc000
4241295093281f4f03fde000
4241295093281f4803fd0000
4241295093281f4903fd2000
4241295093281f4a03fd4000

4241295093281f4b03fd6000
4241295093281f4403fc8000
4241295093281f4503fca000
4241295093281f4603fcc000
4241295093281f4703fce000
4241295093281f4003fc0000
4241295093281f4103fc2000
4241295093281f4203fc4000
4241295093281f4303fc6000
42412952ffe81330027f8000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42412954ffe81f5403fe8000
42412954ffe81f5503fea000
42412954ffe81f5603fec000
42412954ffe81f5703fee000
42412954ffe81f5003fe0000
42412954ffe81f5103fe2000
42412954ffe81f5203fe4000
42412954ffe81f5303fe6000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
42412956ffe81f2d03ff6000
42412956ffe81f2c03ff4000
42412956ffe81f2b03ff2000
42412956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000

44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42412958ffe81f5603e2c000
42412958ffe81f5703e2e000
42412958ffe81f5803e30000
42412958ffe81f5903e32000
2240a99dffe81f5a03e34000
2240a99dffe81f5b03e36000
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42412958ffe81f6203e44000
42412958ffe81f6303e46000
42412958ffe81f6403e48000
42412958ffe81f6503e4a000
42412958ffe81f6603e4c000
42412958ffe81f6703e4e000
42812960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281295dffe0000000000000
44c41f15fff01f1540000000
4281295dffe0000000000000
44c41f15fff01f1501000000
4281295dffe0000000000000
44c41f15fff01f1502000000
4281295dffe0000000000000
44c41f15fff01f1504000000
4281295dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428129a0ffe0000000000000

24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240a99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240a99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240a99dffe81f5803e30000
24c41f59fff01f0dff110000
2240a99dffe81f5903e32000
24c41f5afff00b0eee000000
2240a99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240a99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240a99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240a99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240a99dffe81f6003e40000
24c41f61fff01f11ff550000
2240a99dffe81f6103e42000
24c41f62fff01f12ee660000
2240a99dffe81f6203e44000
24c41f63fff01f12ff660000
2240a99dffe81f6303e46000
24c41f64fff01f13ee770000
2240a99dffe81f6403e48000
24c41f65fff01f13ff770000
2240a99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240a99dffe81f6603e4c000

24c41f67fff01f14ff880000
2240a99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280a9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 6
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000060000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
253920a2fff001aa00000001
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
000000000000000000000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000

000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff800000000000000000000
2280b02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b0aaffe0000000000000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000

24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
2240b0a093281f4803fd0000
2240b0a093281f4903fd2000
2240b0a093281f4a03fd4000
2240b0a093281f4b03fd6000
2240b0a093281f4403fc8000
2240b0a093281f4503fca000
2240b0a093281f4603fcc000
2240b0a093281f4703fce000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a2ffe81330027f8000
24c4007dffe0000000000000
2240b061ffe81f5403fe8000
2240b061ffe81f5503fea000
2240b061ffe81f5603fec000
2240b061ffe81f5703fee000
24c440a2ffe0000000000001
2280b069ffe0000000000000
2240b068fff01ff400000000
2240b068fff01ff500000000
2240b068fff01ff600000000
2240b068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b069ffe0000000000000
24c4007dffe0000000000001
2240b06fffe81f5003fe0000
2240b06fffe81f5103fe2000
2240b06fffe81f5203fe4000
2240b06fffe81f5303fe6000
24c480a2ffe0000000000001
2280b077ffe0000000000000
2240b076fff01ff000000000
2240b076fff01ff100000000
2240b076fff01ff200000000
2240b076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b077ffe0000000000000

24c4007dffe0000000000001
22c0b07afff8007d00000000
2280b0a4ffe0000000000000
000000000000000000000000
2240b0a6ffe81f2d03ff6000
2240b0a6ffe81f2c03ff4000
2240b0a6ffe81f2b03ff2000
2240b0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b0a8ffe81f5603e2c000
2240b0a8ffe81f5703e2e000
2240b0a8ffe81f5803e30000
2240b0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240b0a8ffe81f5e03e3c000
2240b0a8ffe81f5f03e3e000
2240b0a8ffe81f6203e44000
2240b0a8ffe81f6303e46000
2240b0a8ffe81f6403e48000
2240b0a8ffe81f6503e4a000
2240b0a8ffe81f6603e4c000
2240b0a8ffe81f6703e4e000
000000000000000000000000
2280b0b0ffe0000000000000
24c41f15fff01f1508000000
2280b0adffe0000000000000
24c41f15fff01f1540000000
2280b0adffe0000000000000
24c41f15fff01f1520000000
2280b0adffe0000000000000

24c41f15fff01f1502000000
2280b0adffe0000000000000
24c41f15fff01f1504000000
2280b0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000061000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04309
47fc0056ffe81f0a03e5c209
47fc0052ffe81f2803e9c109
47fc0036ffe81f3403e10009
481204b893381f0400000000
481608b893381f0500000000

481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428130de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281315affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241315093281f4c03fd8000
4241315093281f4d03fda000
4241315093281f4e03fdc000
4241315093281f4f03fde000
4241315093281f4803fd0000
4241315093281f4903fd2000
4241315093281f4a03fd4000
4241315093281f4b03fd6000
4241315093281f4403fc8000
4241315093281f4503fca000
4241315093281f4603fcc000
4241315093281f4703fce000
4241315093281f4003fc0000

4241315093281f4103fc2000
4241315093281f4203fc4000
4241315093281f4303fc6000
42413152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413156ffe81f2d03ff6000
42413156ffe81f2c03ff4000
42413156ffe81f2b03ff2000
42413156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42413154ffe81f5403fe8000
42413154ffe81f5503fea000
42413154ffe81f5603fec000
42413154ffe81f5703fee000
42413154ffe81f5003fe0000
42413154ffe81f5103fe2000
42413154ffe81f5203fe4000
42413154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000

4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413158ffe81f5603e2c000
42413158ffe81f5703e2e000
42413158ffe81f5803e30000
42413158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413158ffe81f6603e4c000
42413158ffe81f6703e4e000
42813160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281315dffe0000000000000
44c41f15fff01f1540000000
4281315dffe0000000000000
44c41f15fff01f1501000000
4281315dffe0000000000000
44c41f15fff01f1502000000
4281315dffe0000000000000
44c41f15fff01f1504000000
4281315dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428131a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000

24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b19dffe81f5803e30000
24c41f59fff01f0dff110000
2240b19dffe81f5903e32000
24c41f5afff00b0eee000000
2240b19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b19dffe81f6003e40000
24c41f61fff01f11ff550000
2240b19dffe81f6103e42000
24c41f62fff01f12ee660000
2240b19dffe81f6203e44000
24c41f63fff01f12ff660000
2240b19dffe81f6303e46000
24c41f64fff01f13ee770000
2240b19dffe81f6403e48000
24c41f65fff01f13ff770000
2240b19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000

2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280b1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 7
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000070000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
000000000000000000000000
29081816fff81f0c00000000

29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04302
27fc0056ffe81f0a03e5c202
27fc0052ffe81f2803e9c102
27fc0036ffe81f3403e10002
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280b82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280b8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000
24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c38ffe0005000000000
2240b8a093281f4c03fd8000
2240b8a093281f4d03fda000
2240b8a093281f4e03fdc000

2240b8a093281f4f03fde000
2240b8a093281f4803fd0000
2240b8a093281f4903fd2000
2240b8a093281f4a03fd4000
2240b8a093281f4b03fd6000
2240b8a093281f4403fc8000
2240b8a093281f4503fca000
2240b8a093281f4603fcc000
2240b8a093281f4703fce000
2240b8a093281f4003fc0000
2240b8a093281f4103fc2000
2240b8a093281f4203fc4000
2240b8a093281f4303fc6000
2c171c78ffe0005800000000
24c4007dffe0000000000000
2240b861ffe81f5403fe8000
2240b861ffe81f5503fea000
2240b861ffe81f5603fec000
2240b861ffe81f5703fee000
24c440a2ffe0000000000001
2280b869ffe0000000000000
2240b868fff01ff400000000
2240b868fff01ff500000000
2240b868fff01ff600000000
2240b868fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280b869ffe0000000000000
24c4007dffe0000000000001
2240b86fffe81f5003fe0000
2240b86fffe81f5103fe2000
2240b86fffe81f5203fe4000
2240b86fffe81f5303fe6000
24c480a2ffe0000000000001
2280b877ffe0000000000000
2240b876fff01ff000000000
2240b876fff01ff100000000
2240b876fff01ff200000000
2240b876fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280b877ffe0000000000000
24c4007dffe0000000000001
2240b8a2fff8007d00000000
2c171c76ffe0006000000000
2240b8a8ffe81330027f8000
2240b8a4ffe81f2d03ff6000
2240b8a4ffe81f2c03ff4000

2240b8a4ffe81f2b03ff2000
2240b8a4ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
253b03a2fff01f3900000001
253b03a2fff01f7800000001
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240b8a6ffe81f5603e2c000
2240b8a6ffe81f5703e2e000
2240b8a6ffe81f5803e30000
2240b8a6ffe81f5903e32000
2240b8a6ffe81f5a03e34000
2240b8a6ffe81f5b03e36000
253b03a2fff01f7900000001
253b03a2fff01f7600000001
2240b8a6ffe81f6003e40000
2240b8a6ffe81f6103e42000
2240b8a6ffe81f6203e44000
2240b8a6ffe81f6303e46000
2240b8a6ffe81f6603e4c000
253b03a2fff01f7700000001
253b03a2fff01f6800000001
2240b8a6ffe81f6703e4e000
253b03a2fff01f6900000001
2280b8b0ffe0000000000000
24c41f15fff01f1508000000
2280b8adffe0000000000000
24c41f15fff01f1520000000
2280b8adffe0000000000000
24c41f15fff01f1502000000
2280b8adffe0000000000000
24c41f15fff01f1504000000
2280b8adffe0000000000000
24c41f15fff01f1540000000
2280b8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000

000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280b9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000071000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c60f08ffe0000000000000
44c41f09ffe0000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430a
47fc0056ffe81f0a03e5c20a
47fc0052ffe81f2803e9c10a
47fc0036ffe81f3403e1000a
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428138de1540000000000000
44c540a29540000000000000

44c41f15fff01f1580000000
4281395affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000
44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241395093281f4c03fd8000
4241395093281f4d03fda000
4241395093281f4e03fdc000
4241395093281f4f03fde000
4241395093281f4803fd0000
4241395093281f4903fd2000
4241395093281f4a03fd4000
4241395093281f4b03fd6000
4241395093281f4403fc8000
4241395093281f4503fca000
4241395093281f4603fcc000
4241395093281f4703fce000
4241395093281f4003fc0000
4241395093281f4103fc2000
4241395093281f4203fc4000
4241395093281f4303fc6000
42413952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000

4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42413956ffe81f2d03ff6000
42413956ffe81f2c03ff4000
42413956ffe81f2b03ff2000
42413956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42413954ffe81f5403fe8000
42413954ffe81f5503fea000
42413954ffe81f5603fec000
42413954ffe81f5703fee000
42413954ffe81f5003fe0000
42413954ffe81f5103fe2000
42413954ffe81f5203fe4000
42413954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
4c971c16ffe0003000000000
4c930c19ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
445900a2ffe81f5603e70000
453f03a2fff100a200000001

44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42413958ffe81f5603e2c000
42413958ffe81f5703e2e000
42413958ffe81f5803e30000
42413958ffe81f5903e32000
2240b99dffe81f5a03e34000
2240b99dffe81f5b03e36000
445900a2ffe81f5603e70000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42413958ffe81f6603e4c000
42413958ffe81f6703e4e000
000000000000000000000000
42813960ffe0000000000000
44c41f15fff01f1508000000
4281395dffe0000000000000
44c41f15fff01f1540000000
4281395dffe0000000000000
44c41f15fff01f1500800000
4281395dffe0000000000000
44c41f15fff01f1502000000
4281395dffe0000000000000
44c41f15fff01f1504000000
4281395dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428139a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000

29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240b99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240b99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240b99dffe81f5803e30000
24c41f59fff01f0dff110000
2240b99dffe81f5903e32000
24c41f5afff00b0eee000000
2240b99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240b99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240b99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240b99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240b99dffe81f6003e40000
24c41f61fff01f11ff550000
2240b99dffe81f6103e42000
24c41f62fff01f12ee660000
2240b99dffe81f6203e44000
24c41f63fff01f12ff660000
2240b99dffe81f6303e46000
24c41f64fff01f13ee770000
2240b99dffe81f6403e48000
24c41f65fff01f13ff770000
2240b99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240b99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240b99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000

2280b9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 8
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000080000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
2c171c38ffe0005000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200

27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
281200b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280c02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c0aaffe0000000000000
24c41f4cfff01f0411100000
24c41f4dfff01f0422200000
24c41f4efff01f0433300000
24c41f4ffff01f0444400000
24c41f48fff01f0455500000
24c41f49fff01f0466600000
24c41f4afff01f0477700000
24c41f4bfff01f0400700000
24c41f44fff01f0499900000
24c41f45fff01f04aaa00000
24c41f46fff01f04bbb00000
24c41f47fff01f04ccc00000
24c41f40fff01f04ddd00000
24c41f41fff01f04eee00000
24c41f42fff01f04fff00000
24c41f43fff01f0400700000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
2c171c76ffe0006000000000
2240c0a093281f4c03fd8000
2240c0a093281f4d03fda000
2240c0a093281f4e03fdc000
2240c0a093281f4f03fde000
2240c0a093281f4803fd0000
2240c0a093281f4903fd2000
2240c0a093281f4a03fd4000
2240c0a093281f4b03fd6000
2240c0a093281f4403fc8000

2240c0a093281f4503fca000
2240c0a093281f4603fcc000
2240c0a093281f4703fce000
2240c0a093281f4003fc0000
2240c0a093281f4103fc2000
2240c0a093281f4203fc4000
2240c0a093281f4303fc6000
2240c0a2ffe81330027f8000
24c4007dffe0000000000000
2240c061ffe81f5403fe8000
2240c061ffe81f5503fea000
2240c061ffe81f5603fec000
2240c061ffe81f5703fee000
24c440a2ffe0000000000001
2280c069ffe0000000000000
2240c068fff01ff400000000
2240c068fff01ff500000000
2240c068fff01ff600000000
2240c068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280c069ffe0000000000000
24c4007dffe0000000000001
2240c06fffe81f5003fe0000
2240c06fffe81f5103fe2000
2240c06fffe81f5203fe4000
2240c06fffe81f5303fe6000
24c480a2ffe0000000000001
2280c077ffe0000000000000
2240c076fff01ff000000000
2240c076fff01ff100000000
2240c076fff01ff200000000
2240c076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280c077ffe0000000000000
24c4007dffe0000000000001
22c0c079fff8007d00000000
2280c0a4ffe0000000000000
2c171c68ffe0006800000000
2240c0a6ffe81f2d03ff6000
2240c0a6ffe81f2c03ff4000
2240c0a6ffe81f2b03ff2000
2240c0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000

253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c0a8ffe81f5603e2c000
2240c0a8ffe81f5703e2e000
2240c0a8ffe81f5803e30000
2240c0a8ffe81f5903e32000
253b03a2fff01f6800000001
253b03a2fff01f6900000001
000000000000000000000000
000000000000000000000000
2240c0a8ffe81f6003e40000
2240c0a8ffe81f6103e42000
2240c0a8ffe81f6203e44000
2240c0a8ffe81f6303e46000
2240c0a8ffe81f6403e48000
2240c0a8ffe81f6503e4a000
2240c0a8ffe81f6603e4c000
2240c0a8ffe81f6703e4e000
2280c0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280c0adffe0000000000000
24c41f15fff01f1540000000
2280c0adffe0000000000000
24c41f15fff01f1520000000
2280c0adffe0000000000000
24c41f15fff01f1502000000
2280c0adffe0000000000000
24c41f15fff01f1504000000
2280c0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000

44c41f15fff009a000081000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000
44c40f28fff00faa00000000
44c60f0bfff20faa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04303
47fc0056ffe81f0a03e5c203
47fc0052ffe81f2803e9c103
47fc0036ffe81f3403e10003
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428140de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281415affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000

44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff00f28888c0000
44c41f55fff00f28007c0000
44c41f56ffe0000000000000
44c41f57ffe0000000000000
44c41f50fff20f0b888c0000
44c41f51fff20f0b007c0000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241415093281f4c03fd8000
4241415093281f4d03fda000
4241415093281f4e03fdc000
4241415093281f4f03fde000
4241415093281f4803fd0000
4241415093281f4903fd2000
4241415093281f4a03fd4000
4241415093281f4b03fd6000
4241415093281f4403fc8000
4241415093281f4503fca000
4241415093281f4603fcc000
4241415093281f4703fce000
4241415093281f4003fc0000
4241415093281f4103fc2000
4241415093281f4203fc4000
4241415093281f4303fc6000
42414152ffe81330027f8000
42414154ffe81f5403fe8000
42414154ffe81f5503fea000
42414154ffe81f5603fec000
42414154ffe81f5703fee000
42414154ffe81f5003fe0000
42414154ffe81f5103fe2000
42414154ffe81f5203fe4000
42414154ffe81f5303fe6000

44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42414156ffe81f2d03ff6000
42414156ffe81f2c03ff4000
42414156ffe81f2b03ff2000
42414156ffe81f2a03ff0000
4c130c39ffe0005000000000
4c130c38ffe0005400000000
4c130c79ffe0005800000000
4c130c78ffe0005c00000000
4c130c77ffe0006000000000
4c130c76ffe0006400000000
4c130c69ffe0006800000000
4c130c68ffe0006c00000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
4c971c16ffe0003000000000
4c930c27ffe0003800000000
4c171c38ffe0003000000000
4c130c79ffe0003800000000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
445900a2ffe81f5703e72000
453f03a2fff100a200000001
445900a2ffe81f5603e70000
453f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414158ffe81f5603e2c000
42414158ffe81f5703e2e000
42414158ffe81f5803e30000
42414158ffe81f5903e32000

000000000000000000000000
000000000000000000000000
445900a2ffe81f6703ef2000
453f03a2fff100a200000001
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414158ffe81f6603e4c000
42414158ffe81f6703e4e000
000000000000000000000000
42814160ffe0000000000000
44c41f15fff01f1508000000
4281415dffe0000000000000
44c41f15fff01f1540000000
4281415dffe0000000000000
44c41f15fff01f1510000000
4281415dffe0000000000000
44c41f15fff01f1502000000
4281415dffe0000000000000
44c41f15fff01f1504000000
4281415dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428141a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc0000000000000000000

24c41f56fff01f0cee220000
2240c19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c19dffe81f5803e30000
24c41f59fff01f0dff110000
2240c19dffe81f5903e32000
24c41f5afff00b0eee000000
2240c19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c19dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c19dffe81f6003e40000
24c41f61fff01f11ff550000
2240c19dffe81f6103e42000
24c41f62fff01f12ee660000
2240c19dffe81f6203e44000
24c41f63fff01f12ff660000
2240c19dffe81f6303e46000
24c41f64fff01f13ee770000
2240c19dffe81f6403e48000
24c41f65fff01f13ff770000
2240c19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000

2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 9
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a000090000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f05fff18baa00000000
24c41f06fff28baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c50736fff007aa00000000
24c60b36fff108aa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7072ffff207aa00000000
24c40b0afff208aa00000000
24c41f79ffe00000aaaaaaaa
24c41f78ffe0000055555555
2c971c78ffe0003000000000
2c930c78ffe0003800000000
253920a2fff001aa00000001
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2c171c38ffe0003000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04306
27fc0056ffe81f0a03e5c206
27fc0052ffe81f2803e9c106
27fc0036ffe81f3403e10006
281204b893381f0400000000
281608b893381f0500000000
281a0cb893381f0600000000
000000000000000000000000

281e10b893381f0700000000
ff8000000000000000000000
2280c82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280c8aaffe0000000000000
24c41f4cfff01f0411110000
24c41f4dfff01f0422210000
24c41f4efff01f0433310000
24c41f4ffff01f0400410000
24c41f48fff01f0511120000
24c41f49fff01f0522220000
24c41f4afff01f0533320000
24c41f4bfff01f0500420000
24c41f44fff01f0611130000
24c41f45fff01f0622230000
24c41f46fff01f0633330000
24c41f47fff01f0600430000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
245900a2fff01f39aaaaaaaa
253f03a2fff100a200000001
245900a2fff01f3855555555
2c130c76ffe0003800000000
253f03a2fff100a200000001
245900a2fff01f7655555555
253f03a2fff100a200000001
24c81f38fff01f38ffffffff
24c81f39fff01f39ffffffff
2240c8a093281f4c03fd8000
2240c8a093281f4d03fda000
2240c8a093281f4e03fdc000
2240c8a093281f4f03fde000
2240c8a093281f4803fd0000
2240c8a093281f4903fd2000
2240c8a093281f4a03fd4000
2240c8a093281f4b03fd6000
2240c8a093281f4403fc8000
2240c8a093281f4503fca000
2240c8a093281f4603fcc000
2240c8a093281f4703fce000
2240c8a093281f4003fc0000
2240c8a093281f4103fc2000
2240c8a093281f4203fc4000
2240c8a093281f4303fc6000
2240c8a2ffe81330027f8000

2c971c38ffe0003000000000
2c930c39ffe0003800000000
2c171c76ffe0003000000000
2c130c79ffe0003800000000
245900a2fff01f7755555555
253f03a2fff100a200000001
245900a2fff01f76aaaaaaaa
253f03a2fff100a200000001
24c41f54fff1073611000000
24c41f55fff1073622000000
24c41f56fff1073633000000
24c41f57fff1073600400000
24c50b54fff20b3600000000
24c50b55fff20b3600000000
24c50b56fff20b3600000000
24c50b57fff20b3600000000
24c41f50fff3072f11100000
24c41f51fff3072f22100000
24c41f52fff3072f33100000
24c41f53fff3072f00400000
24c50b50fff00b0a00000000
24c50b51fff00b0a00000000
24c50b52fff00b0a00000000
24c50b53fff00b0a00000000
2240c8a4ffe81f5403fe8000
2240c8a4ffe81f5503fea000
2240c8a4ffe81f5603fec000
2240c8a4ffe81f5703fee000
2240c8a4ffe81f5003fe0000
2240c8a4ffe81f5103fe2000
2240c8a4ffe81f5203fe4000
2240c8a4ffe81f5303fe6000
245900a2fff01f7955555555
253f03a2fff100a200000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
2c130c39ffe0005000000000
2c130c38ffe0005400000000
2c130c79ffe0005800000000
2c130c78ffe0005c00000000

2c130c77ffe0006000000000
2c130c76ffe0006400000000
2c130c69ffe0006800000000
2c130c68ffe0006c00000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240c8a8ffe81f5603e2c000
2240c8a8ffe81f5703e2e000
2240c8a8ffe81f5803e30000
2240c8a8ffe81f5903e32000
2240c8a8ffe81f5a03e34000
2240c8a8ffe81f5b03e36000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240c8a8ffe81f6603e4c000
2240c8a8ffe81f6703e4e000
000000000000000000000000
2280c8b0ffe0000000000000
24c41f15fff01f1508000000
2280c8adffe0000000000000
24c41f15fff01f1540000000
2280c8adffe0000000000000
24c41f15fff01f1500800000
2280c8adffe0000000000000
24c41f15fff01f1502000000
2280c8adffe0000000000000
24c41f15fff01f1504000000
2280c8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280c9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a000091000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f11fff00baa00000000

44c41f12fff00baa00000000
44c41f13fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff81f0e0000d000
44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
453920a2fff001aa00000001
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
49081816fff81f0c00000000
49041818fff81f0d00000000
2b00181afff81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e04304
47fc0056ffe81f0a03e5c204
47fc0052ffe81f2803e9c104
47fc0036ffe81f3403e10004
481200b893381f0400000000
49141820fff81f1100000000
49181822fff81f1200000000
44c41f24ffe0000000000000
491c1824fff81f1300000000
ff800000000000000000000
428148de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281495affe0000000000000
44c41f4cfff01f0411100000
44c41f4dfff01f0422200000
44c41f4efff01f0433300000
44c41f4ffff01f0444400000
44c41f48fff01f0455500000
44c41f49fff01f0466600000
44c41f4afff01f0477700000
44c41f4bfff01f0400700000
44c41f44fff01f0499900000
44c41f45fff01f04aaa00000

44c41f46fff01f04bbb00000
44c41f47fff01f04ccc00000
44c41f40fff01f04ddd00000
44c41f41fff01f04eee00000
44c41f42fff01f04fff00000
44c41f43fff01f0400700000
44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241495093281f4c03fd8000
4241495093281f4d03fda000
4241495093281f4e03fdc000
4241495093281f4f03fde000
4241495093281f4803fd0000
4241495093281f4903fd2000
4241495093281f4a03fd4000
4241495093281f4b03fd6000
4241495093281f4403fc8000
4241495093281f4503fca000
4241495093281f4603fcc000
4241495093281f4703fce000
4241495093281f4003fc0000
4241495093281f4103fc2000
4241495093281f4203fc4000
4241495093281f4303fc6000
42414952ffe81330027f8000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000
44c50b52fff00b0b00000000
44c50b53fff00b0b00000000

42414954ffe81f5403fe8000
42414954ffe81f5503fea000
42414954ffe81f5603fec000
42414954ffe81f5703fee000
42414954ffe81f5003fe0000
42414954ffe81f5103fe2000
42414954ffe81f5203fe4000
42414954ffe81f5303fe6000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42414956ffe81f2d03ff6000
42414956ffe81f2c03ff4000
42414956ffe81f2b03ff2000
42414956ffe81f2a03ff0000
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
44c41f60fff01f11ee550000
44c41f61fff01f11ff550000
44c41f62fff01f12ee660000
44c41f63fff01f12ff660000
44c41f64fff01f13ee770000
44c41f65fff01f13ff770000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42414958ffe81f5603e2c000
42414958ffe81f5703e2e000
42414958ffe81f5803e30000
42414958ffe81f5903e32000
2240c99dffe81f5a03e34000
2240c99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
42414958ffe81f6003e40000
42414958ffe81f6103e42000

42414958ffe81f6203e44000
42414958ffe81f6303e46000
42414958ffe81f6403e48000
42414958ffe81f6503e4a000
42414958ffe81f6603e4c000
42414958ffe81f6703e4e000
42814960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281495dffe0000000000000
44c41f15fff01f1540000000
4281495dffe0000000000000
44c41f15fff01f1501000000
4281495dffe0000000000000
44c41f15fff01f1502000000
4281495dffe0000000000000
44c41f15fff01f1504000000
4281495dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428149a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240c99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240c99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240c99dffe81f5803e30000

24c41f59fff01f0dff110000
2240c99dffe81f5903e32000
24c41f5afff00b0eee000000
2240c99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240c99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240c99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240c99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240c99dffe81f6003e40000
24c41f61fff01f11ff550000
2240c99dffe81f6103e42000
24c41f62fff01f12ee660000
2240c99dffe81f6203e44000
24c41f63fff01f12ff660000
2240c99dffe81f6303e46000
24c41f64fff01f13ee770000
2240c99dffe81f6403e48000
24c41f65fff01f13ff770000
2240c99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240c99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240c99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280c9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

```
//stream 10
ff8000000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000a0000
24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f10fff00baa00000000
24c41f05fff18baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
000000000000000000000000
24c40f08fff00faa00000000
24c60f0bfff20faa00000000
2928807effe80f7a03ef9800
253920a2fff001aa00000001
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c41f3afff00f0800000000
24c41f3bfff20f0b00000000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
29081816fff81f0c00000000
29041818fff81f0d00000000
2803303effe0000100000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04300
27fc0056ffe81f0a03e5c200
27fc0052ffe81f2803e9c100
27fc0036ffe81f3403e10000
2910181efff81f1000000000
28161cb893381f0500000000
29181822fff81f1200000000
24c41f24ffe0000000000000
291c1824fff81f1300000000
ff8000000000000000000000
2280d02e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d0aaffe0000000000000
```

000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f48fff01f0511170000
24c41f49fff01f0522270000
24c41f4afff01f0533370000
24c41f4bfff01f0544470000
24c41f44fff01f0555570000
24c41f45fff01f0566670000
24c41f46fff01f0577770000
24c41f47fff01f0500770000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
24c400a2ffe0000000000001
24c420a2ffe0000000000001
24c41f54fff00f0811100000
24c41f55fff00f0822200000
24c41f56fff00f0833300000
24c41f57fff00f0800700000
24c41f50fff20f0b11100000
24c41f51fff20f0b22200000
24c41f52fff20f0b33300000
24c41f53fff20f0b00700000
000000000000000000000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d0a093281f4803fd0000
2240d0a093281f4903fd2000
2240d0a093281f4a03fd4000
2240d0a093281f4b03fd6000
2240d0a093281f4403fc8000
2240d0a093281f4503fca000
2240d0a093281f4603fcc000
2240d0a093281f4703fce000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
2240d0a2ffe81330027f8000
24c4007dffe0000000000000
2240d061ffe81f5403fe8000
2240d061ffe81f5503fea000
2240d061ffe81f5603fec000

2240d061ffe81f5703fee000
24c440a2ffe0000000000001
2280d069ffe0000000000000
2240d068fff01ff400000000
2240d068fff01ff500000000
2240d068fff01ff600000000
2240d068fff01ff700000000
24c41f3cfff00f0800010000
24c460a2ffe0000000000001
2280d069ffe0000000000000
24c4007dffe0000000000001
2240d06fffe81f5003fe0000
2240d06fffe81f5103fe2000
2240d06fffe81f5203fe4000
2240d06fffe81f5303fe6000
24c480a2ffe0000000000001
2280d077ffe0000000000000
2240d076fff01ff000000000
2240d076fff01ff100000000
2240d076fff01ff200000000
2240d076fff01ff300000000
24c41f3dfff20f0b00010000
24c4a0a2ffe0000000000001
2280d077ffe0000000000000
24c4007dffe0000000000001
22c0d07afff8007d00000000
2280d0a4ffe0000000000000
000000000000000000000000
2240d0a6ffe81f2d03ff6000
2240d0a6ffe81f2c03ff4000
2240d0a6ffe81f2b03ff2000
2240d0a6ffe81f2a03ff0000
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
24c41f5efff01f10ee440000
24c41f5ffff01f10ff440000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
24c41f64fff01f13ee770000
24c41f65fff01f13ff770000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000

2240d0a8ffe81f5603e2c000
2240d0a8ffe81f5703e2e000
2240d0a8ffe81f5803e30000
2240d0a8ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
2240d0a8ffe81f5e03e3c000
2240d0a8ffe81f5f03e3e000
2240d0a8ffe81f6203e44000
2240d0a8ffe81f6303e46000
2240d0a8ffe81f6403e48000
2240d0a8ffe81f6503e4a000
2240d0a8ffe81f6603e4c000
2240d0a8ffe81f6703e4e000
2280d0b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d0adffe0000000000000
24c41f15fff01f1540000000
2280d0adffe0000000000000
24c41f15fff01f1520000000
2280d0adffe0000000000000
24c41f15fff01f1502000000
2280d0adffe0000000000000
24c41f15fff01f1504000000
2280d0adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d1a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000a1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
2538c0a2fff01f3e00000001
24c41f0e8cd01f3e00000000

44c70708fff007aa00000000
44c40b09fff10aaa00000000
44c40f08fff20faa00000000
49241830fff80d0800000000
000000000000000000000000
44c41f14fff00baa00000000
44c7070afff207aa00000000
44c5070bffe0000000000000
44c40b0bfff20aaa00000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
453920a2fff001aa00000001
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181a8cd81f0e00000000
000000000000000000000000
49201826fff81f1400000000
47fc00b0ffe81fb003e0430b
47fc0056ffe81f0a03e5c20b
47fc0052ffe81f2803e9c10b
47fc0036ffe81f3403e1000b
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428150de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281515affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000

44c41f54fff3070811000000
44c41f55fff3070822000000
44c41f56fff3070833000000
44c41f57fff3070800400000
44c50b54fff00b0900000000
44c50b55fff00b0900000000
44c50b56fff00b0900000000
44c50b57fff00b0900000000
24c4e0a28cd3c01b00000000
000000000000000000000000
000000000000000000000000
4241515093281f4c03fd8000
4241515093281f4d03fda000
4241515093281f4e03fdc000
4241515093281f4f03fde000
4241515093281f4803fd0000
4241515093281f4903fd2000
4241515093281f4a03fd4000
4241515093281f4b03fd6000
4241515093281f4403fc8000
4241515093281f4503fca000
4241515093281f4603fcc000
4241515093281f4703fce000
4241515093281f4003fc0000
4241515093281f4103fc2000
4241515093281f4203fc4000
4241515093281f4303fc6000
42415152ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415156ffe81f2d03ff6000
42415156ffe81f2c03ff4000
42415156ffe81f2b03ff2000
42415156ffe81f2a03ff0000
44c41f50fff3070a11100000
44c41f51fff3070a22100000
44c41f52fff3070a33100000
44c41f53fff3070a00400000
44c50b50fff00b0b00000000
44c50b51fff00b0b00000000

44c50b52fff00b0b00000000
44c50b53fff00b0b00000000
42415154ffe81f5403fe8000
42415154ffe81f5503fea000
42415154ffe81f5603fec000
42415154ffe81f5703fee000
42415154ffe81f5003fe0000
42415154ffe81f5103fe2000
42415154ffe81f5203fe4000
42415154ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
000000000000000000000000
000000000000000000000000
2928847e2ec81f7a03e34000
2929047eece81f7a03e34000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415158ffe81f5603e2c000
42415158ffe81f5703e2e000
42415158ffe81f5803e30000
42415158ffe81f5903e32000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415158ffe81f6603e4c000
42415158ffe81f6703e4e000

42815160ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281515dffe0000000000000
44c41f15fff01f1540000000
4281515dffe0000000000000
44c41f15fff01f1501000000
4281515dffe0000000000000
44c41f15fff01f1502000000
4281515dffe0000000000000
44c41f15fff01f1504000000
4281515dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428151a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d19dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d19dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d19dffe81f5803e30000
24c41f59fff01f0dff110000
2240d19dffe81f5903e32000
24c41f5afff00b0eee000000
2240d19dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d19dffe81f5b03e36000

24c41f5efff01f10ee440000
2240d19dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d19dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d19dffe81f6003e40000
24c41f61fff01f11ff550000
2240d19dffe81f6103e42000
24c41f62fff01f12ee660000
2240d19dffe81f6203e44000
24c41f63fff01f12ff660000
2240d19dffe81f6303e46000
24c41f64fff01f13ee770000
2240d19dffe81f6403e48000
24c41f65fff01f13ff770000
2240d19dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d19dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d19dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d1a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 11
ff800000000000000000000
2c11047affe0002400000000
2c10007cffe0002300000000
24c41f15fff009a0000b0000

24c41f7cfff0067c00000000
2b2c087afff8067c00000000
24c41f04fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f07fff00baa00000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c70708fff007aa00000000
24c40b09fff10aaa00000000
2928807effe80f7a03ef9800
24c40e08fff20eaa00000000
29241830fff80e0800000000
ec400000ffe0000000000000
24c41f14fff00baa00000000
24c7070afff207aa00000000
24c40b0bfff20aaa00000000
253920a2fff001aa00000001
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
000000000000000000000000
29201826fff81f1400000000
27fc00b0ffe81fb003e04301
27fc0056ffe81f0a03e5c201
27fc0052ffe81f2803e9c101
27fc0036ffe81f3403e10001
281220b893381f0400000000
29141820fff81f1100000000
29181822fff81f1200000000
000000000000000000000000
281e10b893381f0700000000
ff800000000000000000000
2280d82e1540000000000000
24c540a29540000000000000
24c41f15fff01f1580000000
2280d8aaffe0000000000000
24c41f4cfff01f0411180000
24c41f4dfff01f0422280000
24c41f4efff01f0433380000
24c41f4ffff01f0444480000
24c41f48fff01f0455580000
24c41f49fff01f0466680000

24c41f4afff01f0477780000
24c41f4bfff01f0400780000
24c41f44fff01f0499980000
24c41f45fff01f04aaa80000
24c41f46fff01f04bbb80000
24c41f47fff01f0400780000
24c41f40fff01f0711140000
24c41f41fff01f0722240000
24c41f42fff01f0733340000
24c41f43fff01f0700440000
000000000000000000000000
000000000000000000000000
2240d8a093281f4c03fd8000
2240d8a093281f4d03fda000
2240d8a093281f4e03fdc000
2240d8a093281f4f03fde000
2240d8a093281f4803fd0000
2240d8a093281f4903fd2000
2240d8a093281f4a03fd4000
2240d8a093281f4b03fd6000
2240d8a093281f4403fc8000
2240d8a093281f4503fca000
2240d8a093281f4603fcc000
2240d8a093281f4703fce000
2240d8a093281f4003fc0000
2240d8a093281f4103fc2000
2240d8a093281f4203fc4000
2240d8a093281f4303fc6000
24c41f54fff3070811000000
24c41f55fff3070822000000
24c41f56fff3070833000000
24c41f57fff3070800400000
24c50b54fff00b0900000000
24c50b55fff00b0900000000
24c50b56fff00b0900000000
24c50b57fff00b0900000000
24c41f50fff3070a11100000
24c41f51fff3070a22100000
24c41f52fff3070a33100000
24c41f53fff3070a00400000
24c50b50fff00b0b00000000
24c50b51fff00b0b00000000
24c50b52fff00b0b00000000
24c50b53fff00b0b00000000
2240d8a2ffe81f5403fe8000
2240d8a2ffe81f5503fea000
2240d8a2ffe81f5603fec000
2240d8a2ffe81f5703fee000

2240d8a2ffe81f5003fe0000
2240d8a2ffe81f5103fe2000
2240d8a2ffe81f5203fe4000
2240d8a2ffe81f5303fe6000
2c171c38ffe0005000000000
2c171c78ffe0005800000000
2c171c76ffe0006000000000
2c171c68ffe0006800000000
253b03a2fff01f3800000001
253b03a2fff01f3900000001
253b03a2fff01f7800000001
253b03a2fff01f7900000001
2240d8a8ffe81330027f8000
000000000000000000000000
24c41f2dfff00f08c0000000
24c41f2cfff00f08c0020000
24c41f2bfff00f08c0040000
24c41f2afff00f08c0060000
2240d8a4ffe81f2d03ff6000
2240d8a4ffe81f2c03ff4000
2240d8a4ffe81f2b03ff2000
2240d8a4ffe81f2a03ff0000
253b03a2fff01f7600000001
253b03a2fff01f7700000001
253b03a2fff01f6800000001
253b03a2fff01f6900000001
24c41f56fff01f0cee220000
24c41f57fff01f0cff220000
24c41f58fff01f0dee110000
24c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
24c41f60fff01f11ee550000
24c41f61fff01f11ff550000
24c41f62fff01f12ee660000
24c41f63fff01f12ff660000
000000000000000000000000
000000000000000000000000
24c41f66fff01f14ee880000
24c41f67fff01f14ff880000
2240d8a6ffe81f5603e2c000
2240d8a6ffe81f5703e2e000
2240d8a6ffe81f5803e30000
2240d8a6ffe81f5903e32000
2240d8a6ffe81f5a03e34000
2240d8a6ffe81f5b03e36000

000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6003e40000
2240d8a6ffe81f6103e42000
2240d8a6ffe81f6203e44000
2240d8a6ffe81f6303e46000
2240d8a6ffe81f6603e4c000
000000000000000000000000
000000000000000000000000
2240d8a6ffe81f6703e4e000
2280d8b0ffe0000000000000
000000000000000000000000
24c41f15fff01f1508000000
2280d8adffe0000000000000
24c41f15fff01f1501000000
2280d8adffe0000000000000
24c41f15fff01f1502000000
2280d8adffe0000000000000
24c41f15fff01f1504000000
2280d8adffe0000000000000
24c41f15fff01f1540000000
2280d8adffe0000000000000
24c68115fff2e1f700000000
24c70115fff2e1f300000000
000000000000000000000000
290e007efff81f1500000000
24c703a2ffe0000000000001
2280d9a0ffe0000000000000
4c10007cffe0002300000000
4c11047affe0002400000000
44c41f15fff009a0000b1000
44901f7cfff8067c00000040
4929007effe80f7a03ef9800
4b2c0c7afff8067c00000000
44c41f04fff00baa00000000
44c41f05fff18baa00000000
44c41f06fff28baa00000000
44c41f07fff00baa00000000
44c41f0cfff00baa00000000
44c41f0dfff00baa00000000
000000000000000000000000
24c41f0efff00baa0000c000
44c41f08ffe0000000000000
44c41f09ffe0000000000000
44c40f08fff20faa00000000
49241830fff80d0800000000
44c41f0affe0000000000000
44c41f14fff00baa00000000

44c41f0bffe0000000000000
44c41f52ffe0000000000000
44c41f53ffe0000000000000
44c50736fff007aa00000000
44c60b36fff108aa00000000
44c7072ffff207aa00000000
44c40b0afff208aa00000000
49081816fff81f0c00000000
49041818fff81f0d00000000
2900181afff81f0e00000000
453920a2fff001aa00000001
49201826fff81f1400000000
47fc00b0ffe81fb003e0430c
47fc0056ffe81f0a03e5c20c
47fc0052ffe81f2803e9c10c
47fc0036ffe81f3403e1000c
481204b893381f0400000000
481608b893381f0500000000
481a0cb893381f0600000000
000000000000000000000000
481e10b893381f0700000000
ff800000000000000000000
428158de1540000000000000
44c540a29540000000000000
44c41f15fff01f1580000000
4281595affe0000000000000
44c41f4cfff01f0411110000
44c41f4dfff01f0422210000
44c41f4efff01f0433310000
44c41f4ffff01f0400410000
44c41f48fff01f0511120000
44c41f49fff01f0522220000
44c41f4afff01f0533320000
44c41f4bfff01f0500420000
44c41f44fff01f0611130000
44c41f45fff01f0622230000
44c41f46fff01f0633330000
44c41f47fff01f0600430000
44c41f40fff01f0711140000
44c41f41fff01f0722240000
44c41f42fff01f0733340000
44c41f43fff01f0700440000
44c41f54fff1073611000000
44c41f55fff1073622000000
44c41f56fff1073633000000
44c41f57fff1073600400000
44c50b54fff20b3600000000
44c50b55fff20b3600000000

44c50b56fff20b3600000000
44c50b57fff20b3600000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
4241595093281f4c03fd8000
4241595093281f4d03fda000
4241595093281f4e03fdc000
4241595093281f4f03fde000
4241595093281f4803fd0000
4241595093281f4903fd2000
4241595093281f4a03fd4000
4241595093281f4b03fd6000
4241595093281f4403fc8000
4241595093281f4503fca000
4241595093281f4603fcc000
4241595093281f4703fce000
4241595093281f4003fc0000
4241595093281f4103fc2000
4241595093281f4203fc4000
4241595093281f4303fc6000
42415952ffe81330027f8000
4c171c38ffe0005000000000
4c171c78ffe0005800000000
4c171c76ffe0006000000000
4c171c68ffe0006800000000
453b03a2fff01f3800000001
453b03a2fff01f3900000001
44c41f2dfff00f08c0000000
44c41f2cfff00f08c0020000
44c41f2bfff00f08c0040000
44c41f2afff00f08c0060000
42415956ffe81f2d03ff6000
42415956ffe81f2c03ff4000
42415956ffe81f2b03ff2000
42415956ffe81f2a03ff0000
44c41f50fff3072f11100000
44c41f51fff3072f22100000
44c41f52fff3072f33100000
44c41f53fff3072f00400000
44c50b50fff00b0a00000000
44c50b51fff00b0a00000000
44c50b52fff00b0a00000000
44c50b53fff00b0a00000000
42415954ffe81f5403fe8000
42415954ffe81f5503fea000
42415954ffe81f5603fec000
42415954ffe81f5703fee000

42415954ffe81f5003fe0000
42415954ffe81f5103fe2000
42415954ffe81f5203fe4000
42415954ffe81f5303fe6000
453b03a2fff01f7800000001
453b03a2fff01f7900000001
453b03a2fff01f7600000001
453b03a2fff01f7700000001
453b03a2fff01f6800000001
453b03a2fff01f6900000001
44c41f56fff01f0cee220000
44c41f57fff01f0cff220000
44c41f58fff01f0dee110000
44c41f59fff01f0dff110000
24c41f5afff00b0eee000000
24c41f5bfff00b0eff000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
44c41f66fff01f14ee880000
44c41f67fff01f14ff880000
42415958ffe81f5603e2c000
42415958ffe81f5703e2e000
42415958ffe81f5803e30000
42415958ffe81f5903e32000
2240d99dffe81f5a03e34000
2240d99dffe81f5b03e36000
000000000000000000000000
000000000000000000000000
44c41f79ffe00000ffffffff
44c41f78ffe00000ffffffff
4c971c78ffe0005000000000
4c971c78ffe0005800000000
4c971c78ffe0006000000000
4c971c78ffe0006800000000
42415958ffe81f6603e4c000
42415958ffe81f6703e4e000
42815960ffe0000000000000
000000000000000000000000
44c41f15fff01f1508000000
4281595dffe0000000000000
44c41f15fff01f1540000000
4281595dffe0000000000000

44c41f15fff01f1500800000
4281595dffe0000000000000
44c41f15fff01f1502000000
4281595dffe0000000000000
44c41f15fff01f1504000000
4281595dffe0000000000000
44c68115fff2e1f700000000
44c70115fff2e1f300000000
000000000000000000000000
490e007efff81f1500000000
44c703a2ffe0000000000001
428159a0ffe0000000000000
24c41f0cfff00baa00000000
24c41f0dfff00baa00000000
24c41f0efff00baa0000c000
24c41f10fff00baa00000000
24c41f11fff00baa00000000
24c41f12fff00baa00000000
24c41f13fff00baa00000000
24c41f14fff00baa00000000
29081816fff81f0c00000000
29041818fff81f0d00000000
2900181afff81f0e00000000
2910181efff81f1000000000
29141820fff81f1100000000
29181822fff81f1200000000
291c1824fff81f1300000000
29201826fff81f1400000000
000000000000000000000000
ffc00000000000000000000
24c41f56fff01f0cee220000
2240d99dffe81f5603e2c000
24c41f57fff01f0cff220000
2240d99dffe81f5703e2e000
24c41f58fff01f0dee110000
2240d99dffe81f5803e30000
24c41f59fff01f0dff110000
2240d99dffe81f5903e32000
24c41f5afff00b0eee000000
2240d99dffe81f5a03e34000
24c41f5bfff00b0eff000000
2240d99dffe81f5b03e36000
24c41f5efff01f10ee440000
2240d99dffe81f5e03e3c000
24c41f5ffff01f10ff440000
2240d99dffe81f5f03e3e000
24c41f60fff01f11ee550000
2240d99dffe81f6003e40000

24c41f61fff01f11ff550000
2240d99dffe81f6103e42000
24c41f62fff01f12ee660000
2240d99dffe81f6203e44000
24c41f63fff01f12ff660000
2240d99dffe81f6303e46000
24c41f64fff01f13ee770000
2240d99dffe81f6403e48000
24c41f65fff01f13ff770000
2240d99dffe81f6503e4a000
24c41f66fff01f14ee880000
2240d99dffe81f6603e4c000
24c41f67fff01f14ff880000
2240d99dffe81f6703e4e000
000000000000000000000000
24c41f78ffe00000ffffffff
2c930c78ffe0005000000000
2c930c78ffe0005400000000
2c930c78ffe0005800000000
2c930c78ffe0005c00000000
2c930c78ffe0006000000000
2c930c78ffe0006400000000
2c930c78ffe0006800000000
2c930c78ffe0006c00000000
2280d9a0ffe0000000000000
24c41f15fff009a004000000
290e007efff81f1500000000
24c703a2ffe0000000000001
000000000000000000000000
2aac004080181f3a00000000
2aac004082381f3b00000000
2aac044084581f3a00000000
2aac044086781f3c00000000
2aac044088981f3b00000000
2aac04408ab81f3d00000000
000000000000000000000000

//stream 12
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
ff800000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000000000000000000000
000000
```

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

0000000000000000000000000
0000000000000000000000000
0000000000000000000000000

```
000000000000000000000000
000000000000000000000000
000000000000000000000000
```

00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000
00000000000000000000000000

//taskmap
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00
00

```
00
00
00
00
00
00
ff
cf
ff
df
ff
ff
ff
ff
3f
fe
ff
ff
ff
ff
ff
ff
c3
ff
f3
ff
ff
ef
00
00
00
00
00
00
00
00
00
```

//nct
//nctable is not supported for this format

//pkginfo is not supported by this back end

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/test/caladan3/ucode/c3_exerciser_test1.oasm

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: switch.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       switch.h
* Purpose:     Switch internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/switch.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/fe2000/switch.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: b57proc.c,v 1.2 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/* All rights reserved.                                        */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/drv/bcm570x/b57proc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: wb_db_vswitch.h,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* VSWITCH warmboot functions
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/wb_db_vswitch.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* File Name  :  eagle2_tsc2pll_functions.h
* Created On :  29/04/2013
```

```
* Created By :  Kiran Divakar
* Description:  Header file with API functions for Serdes IPs
* Revision   :  $Id: eagle2_tsc2pll_functions.h 1490 2016-08-11 22:26:06Z cvazquez $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* No portions of this material may be reproduced in any form without
* the written permission of:
*
*     Broadcom Corporation
*     5300 California Avenue
*     Irvine, CA  92617
*
* All information contained in this document is Broadcom Corporation
* company private proprietary, and trade secret.
*****************************************************************************//**
* @file
* Protoypes of all API functions for engineering use
*//****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_functions.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_th2_methods.h $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM function prototypes for BCM56970
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/tdm/tomahawk2/tdm_th2_methods.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cint_snake_test.c,v 1.7 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Running snake test applicataion
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dfe/cint_snake_test.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: multicast.c,v 1.105 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:    multicast.c
* Purpose: Manages multicast functions
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/triumph/multicast.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600NmRandomNumGenEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600NmRandomNumGenEntry.hx
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: fe1600_stack.c,v 1.4 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC FE1600 STACK
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dfe/fe1600/fe1600_stack.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ipmc.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*
* File:       ipmc.h
* Purpose:     IPMC internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/sbx/caladan3/ipmc.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: socdiag.c,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* socdiag: low-level diagnostics shell for Orion (SOC) driver.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/socdiag.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: utils_defx.h,v 1.9 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/diag/dpp/utils_defx.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_dn_ratelimit_dml.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_dn_ratelimit_dml.c
*
* Purpose: examples of TM scheduler BCM API.
*
* - Port Scheduler
*   - HR Scheduler (SP mode).
*     - L1 CL Scheduler (WFQ independent mode), Hookup to HR Scheduler (SP1).
*       - L2 CL Schedulers (SP mode)
*         Instance 0 used for 10G channel.
*         Instance 1 used for 1G channel.
*         Instance 0 and 1 hookup to L1 CL Scheduler (W1, W2)(W1:W2=10:1).
```

```
*        - L3 CL Schedulers (SP mode)
*          Instance 0 used for 10G unicast channel.
*          Instance 1 used for 10G multicast channel.
*          Instance 2 used for 1G unicast channel.
*          Instance 3 used for 1G multicast channnel.
*          Instance 0 and 1 hookup to L2 CL Scheduler Instance 0 (SP1, SP0).
*          Instance 2 and 3 hookup to L2 CL Scheduler Instance 1 (SP1, SP0).
*          - Multicast VOQ and VOQ connector.
*            Instance 2 used for 10G multicast channel.
*            Instance 3 used for 1G multicast channel.
*            Instance 2 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L3 CL Scheduler Instance 1 (SP0, SP1, SP2,
SP3).
*            Instance 3 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L3 CL Scheduler Instance 3 (SP0, SP1, SP2,
SP3).
*          - L4 CL Schedulers (WFQ indenpendent mode)
*            Instance 0 used for 10G unicast CIR channel.
*            Instance 1 used for 10G unicast PIR channel.
*            Instance 2 used for 1G unicast CIR channel.
*            Instance 3 used for 1G unicast PIR channel.
*            Instance 0 and 1 hookup to L3 CL Scheduler Instance 0 (SP0, SP1).
*            Instance 2 and 3 hookup to L3 CL Scheduler Instance 2 (SP0, SP1).
*            - L5 CL Schedulers (SP composite mode).
*              Instance 0 used for 10G unicast ONU-1 channel.
*              Instance 1 used for 10G unicast ONU-2 channel.
*              Instance 2 used for 1G unicast ONU-3 channel.
*              Instance 3 used for 1G unicast ONU-4 channel.
*              Instance 0 hookup to L4 CL Scheduler Instance 0 and 1 (W1, W1).
*              Instance 1 hookup to L4 CL Scheduler Instance 0 and 1 (W2, W2).
*              Instance 2 hookup to L4 CL Scheduler Instance 2 and 3 (W1, W1).
*              Instance 3 hookup to L4 CL Scheduler Instance 2 and 3 (W2, W2).
*              - Unicast VOQ and VOQ connector.
*                Instance 0 used for 10G unicast ONU-1.
*                Instance 1 used for 10G unicast ONU-2.
*                Instance 4 used for 1G unicast ONU-3.
*                Instance 5 used for 1G unicast ONU-4.
*                Instance 0 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 0 (SP0, SP1,
SP2, SP3).
*                Instance 1 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 1 (SP0, SP1,
SP2, SP3).
*                Instance 4 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 2 (SP0, SP1,
SP2, SP3).
*                Instance 5 (COS 6:7, COS 4:5, COS 2:3, COS 0:1) hookup to L5 CL Scheduler Instance 3 (SP0, SP1,
SP2, SP3).
*
*******************************************************************************
*
*   (V0)       (L4.0)       (L3.0)
*  +-----+      +----+       +----+
```

```
* |    |COS:6,7 |    \        |    \
* |  V  |<-------|SP0  \       |     \
* |    |COS:4,5 |      +-------|W1     +
* |  O  |<-------|SP1  S |      |     W |_ _
* |    |COS:2,3 |    P |      |    F |  |  (L2.0)
* |  Q  |<-------|SP2    +      |W2   Q +   |   +----+
* |    |COS:0,1 |     / \    /|     /    |  |    \
* |    |<-------|SP3  /   \   / |    /    |_ _|SP0   \
*  +-----+       +----+    \ /  +----+         |      +
*    (V1)        (L4.1)     /   (L3.1)         |     S |_ _
*  +-----+       +----+    / \  +----+       _ _|     P |   |
* |    |COS:6,7 |    \   /   \ |    \    |  |SP1    +   |
* |  V  |<-------|SP0  \ /    \|     \    |  |     /   |
* |    |COS:4,5 |      +      |W1     +  |  |    /    |
* |  O  |<-------|SP1  S |      |     W |_ _|   +----+     |
* |    |COS:2,3 |    P |      |    F |                |
* |  Q  |<-------|SP2    +-------|W2   Q +                |UCAST
* |    |COS:0,1 |     /       |     /                |
* |    |<-------|SP3  /       |    /                 |
*  +-----+       +----+         +----+                  |      (L1.0)
*                                                |      +----+
*                                                |      |10G  \
*                                                |      |     \
*                                                |      |      +
*                                                |_ _ _ _|     H |_ _
*                                                       |SP0  R |   |
*                                                       |      +   |
*                                                       |     /    |  +----+
*                                                       |    /     |  |    \
*                                                       +----+     |_ _|     \
*                                                                  |TC0  P +
*                                                                  |    O |
*                                                                  |    R |
*                                                       (L1.1)      _ _|     T +
*                                                       +----+     |  |TC1   /
*                                                       |1G   \    |  |    /
*                                                       |     \    |  +----+
*                                                       |      +   |
*                                                       |    H |_ _|
*                                                 _ _ _ _|SP0  R |
*                                                |      |      +
*                                                |      |     /
*   (V2)        (L4.2)         (L3.2)                |      |    /
*  +-----+       +----+         +----+                |      +----+
* |    |COS:6,7 |    \        |    \                 |
* |  V  |<-------|SP0  \       |     \                |
* |    |COS:4,5 |      +-------|W1     +                |
* |  O  |<-------|SP1  S |      |     W |_ _             |UCAST
```

```
* |    |COS:2,3 |     P |      |     F |  |   (L2.1)      |
* |  Q  |<-------|SP2    +      |W2   Q +   |   +----+      |
* |    |COS:0,1 |      / \     /|      /    |  |     \     |
* |    |<-------|SP3  /   \   / |     /     |_ _|SP0   \    |
*  +-----+        +----+     \ /  +----+         |       +   |
*    (V3)         (L4.3)      /   (L3.3)         |     S |_ _|
*  +-----+        +----+     / \  +----+       _ _|     P |
* |    |COS:6,7 |     \   /   \ |     \     |  |SP1    +
* |  V  |<-------|SP0   \ /     \|      \    |  |      /
* |    |COS:4,5 |       +       |W1     +   |  |     /
* |  O  |<-------|SP1  S |       |     W |_ _|   +----+
* |    |COS:2,3 |     P |      |     F |
* |  Q  |<-------|SP2    +-------|W2   Q +
* |    |COS:0,1 |      /       |     /
* |    |<-------|SP3  /        |     /
*  +-----+        +----+         +----+
*
*                          SCHEDULER MODEL
*
* ******************************************************************************



*
* Note: If we want to use the WFQ independent mode, we must calculate the least
*    common multiple(LMM), then use the LMM divide the expect weight value(WE)
*    to calculate the actual weight value(WA).
*    For example: WE1 : WE2 : WE3 : WE4 = 4 : 3 : 3 : 2.
*       LMM = 12.
*       WA1 = LMM / WE1 = 12 / 4 = 3.
*       WA2 = LMM / WE2 = 12 / 3 = 4.
*       WA3 = LMM / WE3 = 12 / 3 = 4.
*       WA4 = LMM / WE4 = 12 / 2 = 6.
*       So WA1 : WA2 : WA3 : WA4 = 3 : 4 : 4 : 6.
*
* PP Model:
*     The PP model is created based on the TM model.
*     VOQ 0 (1000:1007) <--> 10G Unicast LLID 0 (LLID-1000, AC-0)
*     VOQ 1 (1008:1015) <--> 10G Unicast LLID 1 (LLID-1001, AC-1)

*     VOQ 2 (2000:2008) <--> 1G Unicast LLID 2 (LLID-2000, AC-2)
*     VOQ 3 (2008:2015) <--> 1G Unicast LLID 2 (LLID-2000, AC-3)

*
* Map PKT_PRI_CFI to System (TC/DP) by calling bcm_qos_map_add as follows:
*     Ingress(PKT_PRI/CFI)    System(TC/DP)
*     0/0,0/1,1/0,1/1         0/GREEN
*     2/0,2/1,3/0,3/1         1/GREEN
*     4/0,4/1,5/0,5/1         2/GREEN
```

```
*     6/0,6/1,7/0,7/1        3/GREEN
*
* Map PKT_PRI to System TC for 1G traffic by using PMF as follows:
*     Ingress(PKT_PRI/CFI)    System TC
*     0                  4
*     1                  5
*     2                  6
*     3                  7
*     4                  4
*     5                  5
*     6                  6
*     7                  7
*
* Map System TC to Ingress TC for 1G traffic by calling bcm_cosq_port_mapping_set as follows:
*     System TC              Ingress(TC/DP)
*     4                  0
*     5                  1
*     6                  2
*     7                  3
*
* Map System (TC/DP) to Egress TC for 1G traffic by calling bcm_cosq_gport_egress_map_set as follows:
*     System(TC/DP)          Egress TC
*     0/0,0/1,0/2,0/3        1
*     1/0,1/1,1/2,1/3        1
*     2/0,2/1,2/2,2/3        1
*     3/0,3/1,3/2,3/3        1
*
* Map System (TC/DP) to Egress TC for 10G traffic by calling bcm_cosq_gport_egress_map_set as follows:
*     System(TC/DP)          Egress TC
*     0/0,0/1,0/2,0/3        0
*     1/0,1/1,1/2,1/3        0
*     2/0,2/1,2/2,2/3        0
*     3/0,3/1,3/2,3/3        0
*
*
* We support the below 4 Rate limit:
*     1. Rate limit on 10G/1G PON.
*     2. Rate limit on LLID. (10G unicast/multicast LLID)
*     3. Rate limit on VOQ. (1G multicast queue)
*     4. Rate limit on AC. (1G unicast LLID AC)
* For QAX device, need add followed additional configuration.
*     device_core_mode.BCM88470=SINGLE_CORE
*     dtm_flow_nof_remote_cores_region_1.BCM88470=1
*     dtm_flow_nof_remote_cores_region_2.BCM88470=1
*     dtm_flow_nof_remote_cores_region_3.BCM88470=1
*     .......
*     dtm_flow_nof_remote_cores_region_60.BCM88470=1
*
```

```
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/cint_port_tpid.c
*     BCM> cint examples/dpp/pon/cint_pon_utils.c
*     BCM> cint examples/dpp/pon/cint_pon_dn_ratelimit_dml.c
*     BCM> cint
*     cint> pon_dn_ratelimit_init(0,4,128);
*     cint> pon_dn_ratelimit_setup(0);
*     cint> pon_dn_ratelimit_service_Init(0);
*     cint> pon_dn_ratelimit_service_setup(0);
*     cint> pon_dn_ratelimit_service_cleanup(0);
*     cint> pon_dn_ratelimit_cleanup(0);
*
* To Activate PFC Reception Settings on PON port132 Run:
*     BCM> cint examples/dpp/pon/cint_pon_pfc_inbnd_receive.c
*     BCM> cint
*     cint> cint_arad_test_pfc_inband_rec_set(0, 132);
*
* To Activate Mapping from PKT_PRI to System TC for 1G traffic Run:
*     BCM> cint examples/dpp/pon/cint_pon_cos_remark_llid_dml.c
*     BCM> cint
*     cint> pon_dn_cos_remark(0, 5);
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/pon/cint_pon_dn_ratelimit_dml.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: link.h,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       link.h
* Purpose:     LINK internal definitions to the BCM library.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dnx/legacy/link.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/dpp/link.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: trident.h,v 1.26 Broadcom SDK $
```

```
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       trident.h
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/trident.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  merlin_quadra28_field_access.c                                      *
*  Created On    :  29/04/2013                                                          *
*  Created By    :  Kiran Divakar                                                       *
*  Description   :  APIs to access Serdes IP Registers and Reg fields                   *
*  Revision      :  $Id: merlin_quadra28_field_access.c 924 2015-02-24 18:08:11Z eroes $ *
*                                                                                       *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                          *
*  No portions of this material may be reproduced in any form without                   *
*  the written permission of:                                                           *
*      Broadcom Corporation                                                             *
*      5300 California Avenue                                                           *
*      Irvine, CA  92617                                                                *
*                                                                                       *
*  All information contained in this document is Broadcom Corporation                   *
*  company private proprietary, and trade secret.                                       *
*                                                                                       *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/quadra28/tier1/quadra28_serdes/merlin_quadra28_field_access_c.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbZfFabBm9600BwR1Wct1AEntry.hx,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/fabric/sbZfFabBm9600BwR1Wct1AEntry.hx
No license file was found, but licenses were detected in source scan.

```
# $Id: bcm56638sanity.soc,v 1.5 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Triumph2 (BCM56634) Sanity
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.
#

echo "testsuite: started: sanity"
rcload rc.soc
counter off
l2mode off

# We need to print out port status since any cabling effects results.
*:ps

if $?1 'local full_test 1'

# Avoid link messages while testing
linkscan off

init
init misc
init mmu

local done 'echo "   Done"'

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

#Display some useful information
date
ver
soc

#Start Test
echo "Running PCI Compliance ..."
tr 2
$done
```

```
echo "Running PCI S-Channel Buf ..."
tr 4
$done

echo "Running Register reset defaults ..."
tr 1
$done

echo "Running Register read/write ..."
tr 3 mask64
$done

init soc; init misc; init mmu;
#Clean up after register read/write test.

rcload rc.soc
counter off
l2mode off
echo "Running CPU Benchmarks ..."
tr 21
$done
linkscan off

init soc; init mmu;
set rct=false

echo "Running Switching Memory Tests ..."

echo " ALTERNATE_EMIRROR_BITMAP";
tr 50 M=ALTERNATE_EMIRROR_BITMAP;
tr 51 M=ALTERNATE_EMIRROR_BITMAP;
tr 52 M=ALTERNATE_EMIRROR_BITMAP;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=T;
tr 71 M=ALTERNATE_EMIRROR_BITMAP S=0 C=0 TSE=T SLTH=F;
echo " ARB_TDM_TABLE";
tr 50 M=ARB_TDM_TABLE;
tr 51 M=ARB_TDM_TABLE;
tr 52 M=ARB_TDM_TABLE;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=F SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=T;
tr 71 M=ARB_TDM_TABLE S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP";
tr 50 M=CPU_COS_MAP;
tr 51 M=CPU_COS_MAP;
tr 52 M=CPU_COS_MAP;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=T;
```

```
tr 71 M=CPU_COS_MAP S=0 C=0 TSE=T SLTH=F;
echo " CPU_COS_MAP_DATA_ONLY";
tr 50 M=CPU_COS_MAP_DATA_ONLY;
tr 51 M=CPU_COS_MAP_DATA_ONLY;
tr 52 M=CPU_COS_MAP_DATA_ONLY;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_DATA_ONLY TSE=T SLTH=F;
echo " CPU_COS_MAP_ONLY";
tr 50 M=CPU_COS_MAP_ONLY;
tr 51 M=CPU_COS_MAP_ONLY;
tr 52 M=CPU_COS_MAP_ONLY;
tr 71 M=CPU_COS_MAP_ONLY TSE=F SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=T;
tr 71 M=CPU_COS_MAP_ONLY TSE=T SLTH=F;
echo " CPU_TS_MAP";
tr 50 M=CPU_TS_MAP;
tr 51 M=CPU_TS_MAP;
tr 52 M=CPU_TS_MAP;
tr 71 M=CPU_TS_MAP TSE=F SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=T;
tr 71 M=CPU_TS_MAP TSE=T SLTH=F;
echo " DSCP_TABLE";
tr 50 M=DSCP_TABLE;
tr 51 M=DSCP_TABLE;
tr 52 M=DSCP_TABLE;
tr 71 M=DSCP_TABLE TSE=F SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=T;
tr 71 M=DSCP_TABLE TSE=T SLTH=F;
echo " E2E_HOL_STATUS";
tr 50 M=E2E_HOL_STATUS;
tr 51 M=E2E_HOL_STATUS;
tr 52 M=E2E_HOL_STATUS;
tr 71 M=E2E_HOL_STATUS TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS TSE=T SLTH=F;
echo " E2E_HOL_STATUS_1";
tr 50 M=E2E_HOL_STATUS_1;
tr 51 M=E2E_HOL_STATUS_1;
tr 52 M=E2E_HOL_STATUS_1;
tr 71 M=E2E_HOL_STATUS_1 TSE=F SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=T;
tr 71 M=E2E_HOL_STATUS_1 TSE=T SLTH=F;
echo " EFP_COUNTER_TABLE";
tr 50 M=EFP_COUNTER_TABLE;
tr 51 M=EFP_COUNTER_TABLE;
tr 52 M=EFP_COUNTER_TABLE;
tr 71 M=EFP_COUNTER_TABLE TSE=F SLTH=T;
```

```
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_COUNTER_TABLE TSE=T SLTH=F;
echo " EFP_METER_TABLE";
tr 50 M=EFP_METER_TABLE;
tr 51 M=EFP_METER_TABLE;
tr 52 M=EFP_METER_TABLE;
tr 71 M=EFP_METER_TABLE TSE=F SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=T;
tr 71 M=EFP_METER_TABLE TSE=T SLTH=F;
echo " EFP_POLICY_TABLE";
tr 50 M=EFP_POLICY_TABLE;
tr 51 M=EFP_POLICY_TABLE;
tr 52 M=EFP_POLICY_TABLE;
tr 71 M=EFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=EFP_POLICY_TABLE TSE=T SLTH=F;
echo " EFP_TCAM";
tr 50 M=EFP_TCAM;
tr 51 M=EFP_TCAM;
tr 52 M=EFP_TCAM;
tr 71 M=EFP_TCAM TSE=F SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=T;
tr 71 M=EFP_TCAM TSE=T SLTH=F;
echo " EGR_COS_MAP";
tr 50 M=EGR_COS_MAP;
tr 51 M=EGR_COS_MAP;
tr 52 M=EGR_COS_MAP;
tr 71 M=EGR_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_COS_MAP TSE=T SLTH=F;
echo " EGR_CPU_COS_MAP";
tr 50 M=EGR_CPU_COS_MAP;
tr 51 M=EGR_CPU_COS_MAP;
tr 52 M=EGR_CPU_COS_MAP;
tr 71 M=EGR_CPU_COS_MAP TSE=F SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=T;
tr 71 M=EGR_CPU_COS_MAP TSE=T SLTH=F;
echo " EGR_DSCP_ECN_MAP";
tr 50 M=EGR_DSCP_ECN_MAP;
tr 51 M=EGR_DSCP_ECN_MAP;
tr 52 M=EGR_DSCP_ECN_MAP;
tr 71 M=EGR_DSCP_ECN_MAP TSE=F SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=T;
tr 71 M=EGR_DSCP_ECN_MAP TSE=T SLTH=F;
echo " EGR_DSCP_TABLE";
tr 50 M=EGR_DSCP_TABLE;
tr 51 M=EGR_DSCP_TABLE;
tr 52 M=EGR_DSCP_TABLE;
```

```
tr 71 M=EGR_DSCP_TABLE TSE=F SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=T;
tr 71 M=EGR_DSCP_TABLE TSE=T SLTH=F;
echo " EGR_EHG_QOS_MAPPING_TABLE";
tr 50 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 51 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 52 M=EGR_EHG_QOS_MAPPING_TABLE;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=F SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=T;
tr 71 M=EGR_EHG_QOS_MAPPING_TABLE TSE=T SLTH=F;
echo " EGR_EM_MTP_INDEX";
tr 50 M=EGR_EM_MTP_INDEX;
tr 51 M=EGR_EM_MTP_INDEX;
tr 52 M=EGR_EM_MTP_INDEX;
tr 71 M=EGR_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EGR_EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_ERSPAN";
tr 50 M=EGR_ERSPAN;
tr 51 M=EGR_ERSPAN;
tr 52 M=EGR_ERSPAN;
tr 71 M=EGR_ERSPAN TSE=F SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=T;
tr 71 M=EGR_ERSPAN TSE=T SLTH=F;
echo " EGR_FRAGMENT_ID_TABLE";
tr 50 M=EGR_FRAGMENT_ID_TABLE;
tr 51 M=EGR_FRAGMENT_ID_TABLE;
tr 52 M=EGR_FRAGMENT_ID_TABLE;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=F SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=T;
tr 71 M=EGR_FRAGMENT_ID_TABLE TSE=T SLTH=F;
echo " EGR_IM_MTP_INDEX";
tr 50 M=EGR_IM_MTP_INDEX;
tr 51 M=EGR_IM_MTP_INDEX;
tr 52 M=EGR_IM_MTP_INDEX;
tr 71 M=EGR_IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EGR_IM_MTP_INDEX TSE=T SLTH=F;
echo " EGR_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=EGR_IPFIX_DSCP_XLATE_TABLE;
```

```
tr 52 M=EGR_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " EGR_IPFIX_EOP_BUFFER";
tr 50 M=EGR_IPFIX_EOP_BUFFER;
tr 51 M=EGR_IPFIX_EOP_BUFFER;
tr 52 M=EGR_IPFIX_EOP_BUFFER;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " EGR_IPFIX_EXPORT_FIFO";
tr 50 M=EGR_IPFIX_EXPORT_FIFO;
tr 51 M=EGR_IPFIX_EXPORT_FIFO;
tr 52 M=EGR_IPFIX_EXPORT_FIFO;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " EGR_IPFIX_IPV4_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV4_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_IPV6_MASK_SET_A";
tr 50 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 51 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 52 M=EGR_IPFIX_IPV6_MASK_SET_A;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " EGR_IPFIX_PROFILE";
tr 50 M=EGR_IPFIX_PROFILE;
tr 51 M=EGR_IPFIX_PROFILE;
tr 52 M=EGR_IPFIX_PROFILE;
tr 71 M=EGR_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_PROFILE TSE=T SLTH=F;
echo " EGR_IPFIX_SESSION_TABLE";
tr 50 M=EGR_IPFIX_SESSION_TABLE;
tr 51 M=EGR_IPFIX_SESSION_TABLE;
tr 52 M=EGR_IPFIX_SESSION_TABLE;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=EGR_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " EGR_IPMC";
tr 50 M=EGR_IPMC;
```

```
tr 51 M=EGR_IPMC;
tr 52 M=EGR_IPMC;
tr 71 M=EGR_IPMC TSE=F SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=T;
tr 71 M=EGR_IPMC TSE=T SLTH=F;
echo " EGR_IP_TUNNEL";
tr 50 M=EGR_IP_TUNNEL;
tr 51 M=EGR_IP_TUNNEL;
tr 52 M=EGR_IP_TUNNEL;
tr 71 M=EGR_IP_TUNNEL TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_IPV6";
tr 50 M=EGR_IP_TUNNEL_IPV6;
tr 51 M=EGR_IP_TUNNEL_IPV6;
tr 52 M=EGR_IP_TUNNEL_IPV6;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_IPV6 TSE=T SLTH=F;
echo " EGR_IP_TUNNEL_MPLS";
tr 50 M=EGR_IP_TUNNEL_MPLS;
tr 51 M=EGR_IP_TUNNEL_MPLS;
tr 52 M=EGR_IP_TUNNEL_MPLS;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=F SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=T;
tr 71 M=EGR_IP_TUNNEL_MPLS TSE=T SLTH=F;
echo " EGR_L3_INTF";
tr 50 M=EGR_L3_INTF;
tr 51 M=EGR_L3_INTF;
tr 52 M=EGR_L3_INTF;
tr 71 M=EGR_L3_INTF TSE=F SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=T;
tr 71 M=EGR_L3_INTF TSE=T SLTH=F;
echo " EGR_L3_NEXT_HOP";
tr 50 M=EGR_L3_NEXT_HOP;
tr 51 M=EGR_L3_NEXT_HOP;
tr 52 M=EGR_L3_NEXT_HOP;
tr 71 M=EGR_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=EGR_L3_NEXT_HOP TSE=T SLTH=F;
echo " EGR_MAC_DA_PROFILE";
tr 50 M=EGR_MAC_DA_PROFILE;
tr 51 M=EGR_MAC_DA_PROFILE;
tr 52 M=EGR_MAC_DA_PROFILE;
tr 71 M=EGR_MAC_DA_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_MAC_DA_PROFILE TSE=T SLTH=F;
echo " EGRESS_MASK";
```

```
tr 50 M=EGRESS_MASK;
tr 51 M=EGRESS_MASK;
tr 52 M=EGRESS_MASK;
tr 71 M=EGRESS_MASK TSE=F SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=T;
tr 71 M=EGRESS_MASK TSE=T SLTH=F;
echo " EGR_MOD_MAP";
tr 50 M=EGR_MOD_MAP;
tr 51 M=EGR_MOD_MAP;
tr 52 M=EGR_MOD_MAP;
tr 71 M=EGR_MOD_MAP TSE=F SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=T;
tr 71 M=EGR_MOD_MAP TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_1";
tr 50 M=EGR_MPLS_EXP_MAPPING_1;
tr 51 M=EGR_MPLS_EXP_MAPPING_1;
tr 52 M=EGR_MPLS_EXP_MAPPING_1;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_1 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_MAPPING_2";
tr 50 M=EGR_MPLS_EXP_MAPPING_2;
tr 51 M=EGR_MPLS_EXP_MAPPING_2;
tr 52 M=EGR_MPLS_EXP_MAPPING_2;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_MAPPING_2 TSE=T SLTH=F;
echo " EGR_MPLS_EXP_PRI_MAPPING";
tr 50 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 51 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 52 M=EGR_MPLS_EXP_PRI_MAPPING;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_EXP_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_PRI_MAPPING";
tr 50 M=EGR_MPLS_PRI_MAPPING;
tr 51 M=EGR_MPLS_PRI_MAPPING;
tr 52 M=EGR_MPLS_PRI_MAPPING;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=F SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=T;
tr 71 M=EGR_MPLS_PRI_MAPPING TSE=T SLTH=F;
echo " EGR_MPLS_VC_AND_SWAP_LABEL_TABLE";
tr 50 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 51 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 52 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=F SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=T;
tr 71 M=EGR_MPLS_VC_AND_SWAP_LABEL_TABLE TSE=T SLTH=F;
```

```
echo " EGR_PERQ_XMT_COUNTERS";
tr 50 M=EGR_PERQ_XMT_COUNTERS;
tr 51 M=EGR_PERQ_XMT_COUNTERS;
tr 52 M=EGR_PERQ_XMT_COUNTERS;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PERQ_XMT_COUNTERS TSE=T SLTH=F;
echo " EGR_PRI_CNG_MAP";
tr 50 M=EGR_PRI_CNG_MAP;
tr 51 M=EGR_PRI_CNG_MAP;
tr 52 M=EGR_PRI_CNG_MAP;
tr 71 M=EGR_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=EGR_PRI_CNG_MAP TSE=T SLTH=F;
echo " EGR_PW_INIT_COUNTERS";
tr 50 M=EGR_PW_INIT_COUNTERS;
tr 51 M=EGR_PW_INIT_COUNTERS;
tr 52 M=EGR_PW_INIT_COUNTERS;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=F SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=T;
tr 71 M=EGR_PW_INIT_COUNTERS TSE=T SLTH=F;
echo " EGR_SERVICE_COUNTER_TABLE";
tr 50 M=EGR_SERVICE_COUNTER_TABLE;
tr 51 M=EGR_SERVICE_COUNTER_TABLE;
tr 52 M=EGR_SERVICE_COUNTER_TABLE;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VFI";
tr 50 M=EGR_VFI;
tr 51 M=EGR_VFI;
tr 52 M=EGR_VFI;
tr 71 M=EGR_VFI TSE=F SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=T;
tr 71 M=EGR_VFI TSE=T SLTH=F;
echo " EGR_VINTF_COUNTER_TABLE";
tr 50 M=EGR_VINTF_COUNTER_TABLE;
tr 51 M=EGR_VINTF_COUNTER_TABLE;
tr 52 M=EGR_VINTF_COUNTER_TABLE;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=EGR_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " EGR_VLAN";
tr 50 M=EGR_VLAN;
tr 51 M=EGR_VLAN;
tr 52 M=EGR_VLAN;
tr 71 M=EGR_VLAN TSE=F SLTH=T;
tr 71 M=EGR_VLAN TSE=T SLTH=T;
```

```
tr 71 M=EGR_VLAN TSE=T SLTH=F;
echo " EGR_VLAN_STG";
tr 50 M=EGR_VLAN_STG;
tr 51 M=EGR_VLAN_STG;
tr 52 M=EGR_VLAN_STG;
tr 71 M=EGR_VLAN_STG TSE=F SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=T;
tr 71 M=EGR_VLAN_STG TSE=T SLTH=F;
echo " EGR_VLAN_TAG_ACTION_PROFILE";
tr 50 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 51 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 52 M=EGR_VLAN_TAG_ACTION_PROFILE;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE";
tr 50 M=EGR_VLAN_XLATE;
tr 51 M=EGR_VLAN_XLATE;
tr 52 M=EGR_VLAN_XLATE;
tr 71 M=EGR_VLAN_XLATE TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE TSE=T SLTH=F;
echo " EGR_VLAN_XLATE_SCRATCH";
tr 50 M=EGR_VLAN_XLATE_SCRATCH;
#tr 51 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=EGR_VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=EGR_VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " EGR_WLAN_DVP";
tr 50 M=EGR_WLAN_DVP;
tr 51 M=EGR_WLAN_DVP;
tr 52 M=EGR_WLAN_DVP;
tr 71 M=EGR_WLAN_DVP TSE=F SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=T;
tr 71 M=EGR_WLAN_DVP TSE=T SLTH=F;
echo " EM_MTP_INDEX";
tr 50 M=EM_MTP_INDEX;
tr 51 M=EM_MTP_INDEX;
tr 52 M=EM_MTP_INDEX;
tr 71 M=EM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EM_MTP_INDEX TSE=T SLTH=F;
echo " EP_REDIRECT_EM_MTP_INDEX";
tr 50 M=EP_REDIRECT_EM_MTP_INDEX;
tr 51 M=EP_REDIRECT_EM_MTP_INDEX;
tr 52 M=EP_REDIRECT_EM_MTP_INDEX;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=F SLTH=T;
```

```
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=EP_REDIRECT_EM_MTP_INDEX TSE=T SLTH=F;
echo " ESM_RANGE_CHECK";
tr 50 M=ESM_RANGE_CHECK;
tr 51 M=ESM_RANGE_CHECK;
tr 52 M=ESM_RANGE_CHECK;
tr 71 M=ESM_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=ESM_RANGE_CHECK TSE=T SLTH=F;
echo " ET_INST_OPC_TABLE";
tr 50 M=ET_INST_OPC_TABLE;
tr 51 M=ET_INST_OPC_TABLE;
tr 52 M=ET_INST_OPC_TABLE;
tr 71 M=ET_INST_OPC_TABLE TSE=F SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=T;
tr 71 M=ET_INST_OPC_TABLE TSE=T SLTH=F;
echo " EXT_IFP_ACTION_PROFILE";
tr 50 M=EXT_IFP_ACTION_PROFILE;
tr 51 M=EXT_IFP_ACTION_PROFILE;
tr 52 M=EXT_IFP_ACTION_PROFILE;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=EXT_IFP_ACTION_PROFILE TSE=T SLTH=F;
echo " FP_COUNTER_TABLE";
tr 50 M=FP_COUNTER_TABLE;
tr 51 M=FP_COUNTER_TABLE;
tr 52 M=FP_COUNTER_TABLE;
tr 71 M=FP_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=FP_COUNTER_TABLE TSE=T SLTH=F;
echo " FP_GLOBAL_MASK_TCAM";
tr 50 M=FP_GLOBAL_MASK_TCAM;
tr 51 M=FP_GLOBAL_MASK_TCAM;
tr 52 M=FP_GLOBAL_MASK_TCAM;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=F SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=T;
tr 71 M=FP_GLOBAL_MASK_TCAM TSE=T SLTH=F;
echo " FP_METER_TABLE";
tr 50 M=FP_METER_TABLE;
tr 51 M=FP_METER_TABLE;
tr 52 M=FP_METER_TABLE;
tr 71 M=FP_METER_TABLE TSE=F SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=T;
tr 71 M=FP_METER_TABLE TSE=T SLTH=F;
echo " FP_POLICY_TABLE";
tr 50 M=FP_POLICY_TABLE;
tr 51 M=FP_POLICY_TABLE;
tr 52 M=FP_POLICY_TABLE;
```

```
tr 71 M=FP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=FP_POLICY_TABLE TSE=T SLTH=F;
echo " FP_PORT_FIELD_SEL";
tr 50 M=FP_PORT_FIELD_SEL;
tr 51 M=FP_PORT_FIELD_SEL;
tr 52 M=FP_PORT_FIELD_SEL;
tr 71 M=FP_PORT_FIELD_SEL TSE=F SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=T;
tr 71 M=FP_PORT_FIELD_SEL TSE=T SLTH=F;
echo " FP_PORT_METER_MAP";
tr 50 M=FP_PORT_METER_MAP;
tr 51 M=FP_PORT_METER_MAP;
tr 52 M=FP_PORT_METER_MAP;
tr 71 M=FP_PORT_METER_MAP TSE=F SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=T;
tr 71 M=FP_PORT_METER_MAP TSE=T SLTH=F;
echo " FP_RANGE_CHECK";
tr 50 M=FP_RANGE_CHECK;
tr 51 M=FP_RANGE_CHECK;
tr 52 M=FP_RANGE_CHECK;
tr 71 M=FP_RANGE_CHECK TSE=F SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=T;
tr 71 M=FP_RANGE_CHECK TSE=T SLTH=F;
echo " FP_SLICE_KEY_CONTROL";
tr 50 M=FP_SLICE_KEY_CONTROL;
#tr 51 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_KEY_CONTROL # test not supported on single-entry tables;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=F SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=T;
tr 71 M=FP_SLICE_KEY_CONTROL TSE=T SLTH=F;
echo " FP_SLICE_MAP";
tr 50 M=FP_SLICE_MAP;
#tr 51 M=FP_SLICE_MAP # test not supported on single-entry tables;
#tr 52 M=FP_SLICE_MAP # test not supported on single-entry tables;
tr 71 M=FP_SLICE_MAP TSE=F SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=T;
tr 71 M=FP_SLICE_MAP TSE=T SLTH=F;
echo " FP_STORM_CONTROL_METERS";
tr 50 M=FP_STORM_CONTROL_METERS;
tr 51 M=FP_STORM_CONTROL_METERS;
tr 52 M=FP_STORM_CONTROL_METERS;
tr 71 M=FP_STORM_CONTROL_METERS TSE=F SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=T;
tr 71 M=FP_STORM_CONTROL_METERS TSE=T SLTH=F;
echo " FP_TCAM";
tr 50 M=FP_TCAM;
tr 51 M=FP_TCAM;
```

```
tr 52 M=FP_TCAM;
tr 71 M=FP_TCAM TSE=F SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=T;
tr 71 M=FP_TCAM TSE=T SLTH=F;
echo " UDF_OFFSET";
tr 50 M=UDF_OFFSET;
tr 51 M=UDF_OFFSET;
tr 52 M=UDF_OFFSET;
tr 71 M=UDF_OFFSET TSE=F SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=T;
tr 71 M=UDF_OFFSET TSE=T SLTH=F;
echo " UDF_TCAM";
tr 50 M=UDF_TCAM;
tr 51 M=UDF_TCAM;
tr 52 M=UDF_TCAM;
tr 71 M=UDF_TCAM TSE=F SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=T;
tr 71 M=UDF_TCAM TSE=T SLTH=F;
echo " HG_TRUNK_FAILOVER_SET";
tr 50 M=HG_TRUNK_FAILOVER_SET;
tr 51 M=HG_TRUNK_FAILOVER_SET;
tr 52 M=HG_TRUNK_FAILOVER_SET;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=HG_TRUNK_FAILOVER_SET TSE=T SLTH=F;
echo " IARB_TDM_TABLE";
tr 50 M=IARB_TDM_TABLE;
tr 51 M=IARB_TDM_TABLE;
tr 52 M=IARB_TDM_TABLE;
tr 71 M=IARB_TDM_TABLE TSE=F SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=T;
tr 71 M=IARB_TDM_TABLE TSE=T SLTH=F;
echo " IFP_REDIRECTION_PROFILE";
tr 50 M=IFP_REDIRECTION_PROFILE;
tr 51 M=IFP_REDIRECTION_PROFILE;
tr 52 M=IFP_REDIRECTION_PROFILE;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=F SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=T;
tr 71 M=IFP_REDIRECTION_PROFILE TSE=T SLTH=F;
echo " IM_MTP_INDEX";
tr 50 M=IM_MTP_INDEX;
tr 51 M=IM_MTP_INDEX;
tr 52 M=IM_MTP_INDEX;
tr 71 M=IM_MTP_INDEX TSE=F SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=T;
tr 71 M=IM_MTP_INDEX TSE=T SLTH=F;
echo " ING_DVP_TABLE";
tr 50 M=ING_DVP_TABLE;
```

```
tr 51 M=ING_DVP_TABLE;
tr 52 M=ING_DVP_TABLE;
tr 71 M=ING_DVP_TABLE TSE=F SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=T;
tr 71 M=ING_DVP_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_DSCP_XLATE_TABLE";
tr 50 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 51 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 52 M=ING_IPFIX_DSCP_XLATE_TABLE;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_DSCP_XLATE_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_EOP_BUFFER";
tr 50 M=ING_IPFIX_EOP_BUFFER;
tr 51 M=ING_IPFIX_EOP_BUFFER;
tr 52 M=ING_IPFIX_EOP_BUFFER;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EOP_BUFFER TSE=T SLTH=F;
echo " ING_IPFIX_EXPORT_FIFO";
tr 50 M=ING_IPFIX_EXPORT_FIFO;
tr 51 M=ING_IPFIX_EXPORT_FIFO;
tr 52 M=ING_IPFIX_EXPORT_FIFO;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=F SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=T;
tr 71 M=ING_IPFIX_EXPORT_FIFO TSE=T SLTH=F;
echo " ING_IPFIX_FLOW_RATE_METER_TABLE";
tr 50 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 51 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 52 M=ING_IPFIX_FLOW_RATE_METER_TABLE;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_FLOW_RATE_METER_TABLE TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_A";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV4_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV4_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV4_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_A";
```

```
tr 50 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_A;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_A TSE=T SLTH=F;
echo " ING_IPFIX_IPV6_MASK_SET_B";
tr 50 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 51 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 52 M=ING_IPFIX_IPV6_MASK_SET_B;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=F SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=T;
tr 71 M=ING_IPFIX_IPV6_MASK_SET_B TSE=T SLTH=F;
echo " ING_IPFIX_PROFILE";
tr 50 M=ING_IPFIX_PROFILE;
tr 51 M=ING_IPFIX_PROFILE;
tr 52 M=ING_IPFIX_PROFILE;
tr 71 M=ING_IPFIX_PROFILE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_PROFILE TSE=T SLTH=F;
echo " ING_IPFIX_SESSION_TABLE";
tr 50 M=ING_IPFIX_SESSION_TABLE;
tr 51 M=ING_IPFIX_SESSION_TABLE;
tr 52 M=ING_IPFIX_SESSION_TABLE;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=F SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=T;
tr 71 M=ING_IPFIX_SESSION_TABLE TSE=T SLTH=F;
echo " ING_L3_NEXT_HOP";
tr 50 M=ING_L3_NEXT_HOP;
tr 51 M=ING_L3_NEXT_HOP;
tr 52 M=ING_L3_NEXT_HOP;
tr 71 M=ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=T;
tr 71 M=ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " ING_MOD_MAP";
tr 50 M=ING_MOD_MAP;
tr 51 M=ING_MOD_MAP;
tr 52 M=ING_MOD_MAP;
tr 71 M=ING_MOD_MAP TSE=F SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=T;
tr 71 M=ING_MOD_MAP TSE=T SLTH=F;
echo " ING_MPLS_EXP_MAPPING";
tr 50 M=ING_MPLS_EXP_MAPPING;
tr 51 M=ING_MPLS_EXP_MAPPING;
tr 52 M=ING_MPLS_EXP_MAPPING;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=F SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=T;
tr 71 M=ING_MPLS_EXP_MAPPING TSE=T SLTH=F;
```

```
echo " ING_PRI_CNG_MAP";
tr 50 M=ING_PRI_CNG_MAP;
tr 51 M=ING_PRI_CNG_MAP;
tr 52 M=ING_PRI_CNG_MAP;
tr 71 M=ING_PRI_CNG_MAP TSE=F SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=T;
tr 71 M=ING_PRI_CNG_MAP TSE=T SLTH=F;
echo " ING_PW_TERM_SEQ_NUM";
tr 50 M=ING_PW_TERM_SEQ_NUM;
tr 51 M=ING_PW_TERM_SEQ_NUM;
tr 52 M=ING_PW_TERM_SEQ_NUM;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=F SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=T;
tr 71 M=ING_PW_TERM_SEQ_NUM TSE=T SLTH=F;
echo " ING_SERVICE_COUNTER_TABLE";
tr 50 M=ING_SERVICE_COUNTER_TABLE;
tr 51 M=ING_SERVICE_COUNTER_TABLE;
tr 52 M=ING_SERVICE_COUNTER_TABLE;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_SERVICE_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VINTF_COUNTER_TABLE";
tr 50 M=ING_VINTF_COUNTER_TABLE;
tr 51 M=ING_VINTF_COUNTER_TABLE;
tr 52 M=ING_VINTF_COUNTER_TABLE;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=F SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=T;
tr 71 M=ING_VINTF_COUNTER_TABLE TSE=T SLTH=F;
echo " ING_VLAN_RANGE";
tr 50 M=ING_VLAN_RANGE;
tr 51 M=ING_VLAN_RANGE;
tr 52 M=ING_VLAN_RANGE;
tr 71 M=ING_VLAN_RANGE TSE=F SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=T;
tr 71 M=ING_VLAN_RANGE TSE=T SLTH=F;
echo " ING_VLAN_TAG_ACTION_PROFILE";
tr 50 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 51 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 52 M=ING_VLAN_TAG_ACTION_PROFILE;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=F SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=T;
tr 71 M=ING_VLAN_TAG_ACTION_PROFILE TSE=T SLTH=F;
echo " INITIAL_ING_L3_NEXT_HOP";
tr 50 M=INITIAL_ING_L3_NEXT_HOP;
tr 51 M=INITIAL_ING_L3_NEXT_HOP;
tr 52 M=INITIAL_ING_L3_NEXT_HOP;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=F SLTH=T;
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=T;
```

```
tr 71 M=INITIAL_ING_L3_NEXT_HOP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP";
tr 50 M=INITIAL_L3_ECMP;
tr 51 M=INITIAL_L3_ECMP;
tr 52 M=INITIAL_L3_ECMP;
tr 71 M=INITIAL_L3_ECMP TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP TSE=T SLTH=F;
echo " INITIAL_L3_ECMP_COUNT";
tr 50 M=INITIAL_L3_ECMP_COUNT;
tr 51 M=INITIAL_L3_ECMP_COUNT;
tr 52 M=INITIAL_L3_ECMP_COUNT;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=F SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=T;
tr 71 M=INITIAL_L3_ECMP_COUNT TSE=T SLTH=F;
echo " INITIAL_PROT_GROUP_TABLE";
tr 50 M=INITIAL_PROT_GROUP_TABLE;
tr 51 M=INITIAL_PROT_GROUP_TABLE;
tr 52 M=INITIAL_PROT_GROUP_TABLE;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_GROUP_TABLE TSE=T SLTH=F;
echo " INITIAL_PROT_NHI_TABLE";
tr 50 M=INITIAL_PROT_NHI_TABLE;
tr 51 M=INITIAL_PROT_NHI_TABLE;
tr 52 M=INITIAL_PROT_NHI_TABLE;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=F SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=T;
tr 71 M=INITIAL_PROT_NHI_TABLE TSE=T SLTH=F;
echo " IPORT_TABLE";
tr 50 M=IPORT_TABLE;
tr 51 M=IPORT_TABLE;
tr 52 M=IPORT_TABLE;
tr 71 M=IPORT_TABLE TSE=F SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=T;
tr 71 M=IPORT_TABLE TSE=T SLTH=F;
echo " IPV4_IN_IPV6_PREFIX_MATCH";
tr 50 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 51 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 52 M=IPV4_IN_IPV6_PREFIX_MATCH;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=F SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=T;
tr 71 M=IPV4_IN_IPV6_PREFIX_MATCH TSE=T SLTH=F;
echo " L2MC";
tr 50 M=L2MC;
tr 51 M=L2MC;
tr 52 M=L2MC;
tr 71 M=L2MC TSE=F SLTH=T;
```

```
tr 71 M=L2MC TSE=T SLTH=T;
tr 71 M=L2MC TSE=T SLTH=F;
echo " L2_ENTRY";
tr 50 M=L2_ENTRY;
tr 51 M=L2_ENTRY;
tr 52 M=L2_ENTRY;
tr 71 M=L2_ENTRY TSE=F SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=T;
tr 71 M=L2_ENTRY TSE=T SLTH=F;
echo " L2_ENTRY_ONLY";
tr 50 M=L2_ENTRY_ONLY;
tr 51 M=L2_ENTRY_ONLY;
tr 52 M=L2_ENTRY_ONLY;
tr 71 M=L2_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_ENTRY_ONLY TSE=T SLTH=F;
echo " L2_ENTRY_OVERFLOW";
tr 50 M=L2_ENTRY_OVERFLOW;
#tr 51 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_OVERFLOW # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_OVERFLOW TSE=F SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=T;
tr 71 M=L2_ENTRY_OVERFLOW TSE=T SLTH=F;
echo " L2_ENTRY_SCRATCH";
tr 50 M=L2_ENTRY_SCRATCH;
#tr 51 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L2_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=L2_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=L2_ENTRY_SCRATCH TSE=T SLTH=F;
echo " L2_HITDA_ONLY";
tr 50 M=L2_HITDA_ONLY;
tr 51 M=L2_HITDA_ONLY;
tr 52 M=L2_HITDA_ONLY;
tr 71 M=L2_HITDA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITDA_ONLY TSE=T SLTH=F;
echo " L2_HITSA_ONLY";
tr 50 M=L2_HITSA_ONLY;
tr 51 M=L2_HITSA_ONLY;
tr 52 M=L2_HITSA_ONLY;
tr 71 M=L2_HITSA_ONLY TSE=F SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=T;
tr 71 M=L2_HITSA_ONLY TSE=T SLTH=F;
echo " L2_MOD_FIFO";
tr 50 M=L2_MOD_FIFO;
tr 51 M=L2_MOD_FIFO;
tr 52 M=L2_MOD_FIFO;
```

```
tr 71 M=L2_MOD_FIFO TSE=F SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=T;
tr 71 M=L2_MOD_FIFO TSE=T SLTH=F;
echo " L2_USER_ENTRY";
tr 50 M=L2_USER_ENTRY;
tr 51 M=L2_USER_ENTRY;
tr 52 M=L2_USER_ENTRY;
tr 71 M=L2_USER_ENTRY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY TSE=T SLTH=F;
echo " L2_USER_ENTRY_DATA_ONLY";
tr 50 M=L2_USER_ENTRY_DATA_ONLY;
tr 51 M=L2_USER_ENTRY_DATA_ONLY;
tr 52 M=L2_USER_ENTRY_DATA_ONLY;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_DATA_ONLY TSE=T SLTH=F;
echo " L2_USER_ENTRY_ONLY";
tr 50 M=L2_USER_ENTRY_ONLY;
tr 51 M=L2_USER_ENTRY_ONLY;
tr 52 M=L2_USER_ENTRY_ONLY;
tr 71 M=L2_USER_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L2_USER_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_DEFIP";
tr 50 M=L3_DEFIP;
tr 51 M=L3_DEFIP;
tr 52 M=L3_DEFIP;
tr 71 M=L3_DEFIP TSE=F SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=T;
tr 71 M=L3_DEFIP TSE=T SLTH=F;
echo " L3_DEFIP_128";
tr 50 M=L3_DEFIP_128;
tr 51 M=L3_DEFIP_128;
tr 52 M=L3_DEFIP_128;
tr 71 M=L3_DEFIP_128 TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128 TSE=T SLTH=F;
echo " L3_DEFIP_128_DATA_ONLY";
tr 50 M=L3_DEFIP_128_DATA_ONLY;
tr 51 M=L3_DEFIP_128_DATA_ONLY;
tr 52 M=L3_DEFIP_128_DATA_ONLY;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_HIT_ONLY";
tr 50 M=L3_DEFIP_128_HIT_ONLY;
tr 51 M=L3_DEFIP_128_HIT_ONLY;
```

```
tr 52 M=L3_DEFIP_128_HIT_ONLY;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_128_ONLY";
tr 50 M=L3_DEFIP_128_ONLY;
tr 51 M=L3_DEFIP_128_ONLY;
tr 52 M=L3_DEFIP_128_ONLY;
tr 71 M=L3_DEFIP_128_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_128_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_DATA_ONLY";
tr 50 M=L3_DEFIP_DATA_ONLY;
tr 51 M=L3_DEFIP_DATA_ONLY;
tr 52 M=L3_DEFIP_DATA_ONLY;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_DATA_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_HIT_ONLY";
tr 50 M=L3_DEFIP_HIT_ONLY;
tr 51 M=L3_DEFIP_HIT_ONLY;
tr 52 M=L3_DEFIP_HIT_ONLY;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_HIT_ONLY TSE=T SLTH=F;
echo " L3_DEFIP_ONLY";
tr 50 M=L3_DEFIP_ONLY;
tr 51 M=L3_DEFIP_ONLY;
tr 52 M=L3_DEFIP_ONLY;
tr 71 M=L3_DEFIP_ONLY TSE=F SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=T;
tr 71 M=L3_DEFIP_ONLY TSE=T SLTH=F;
echo " L3_ECMP";
tr 50 M=L3_ECMP;
tr 51 M=L3_ECMP;
tr 52 M=L3_ECMP;
tr 71 M=L3_ECMP TSE=F SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=T;
tr 71 M=L3_ECMP TSE=T SLTH=F;
echo " L3_ECMP_GROUP";
tr 50 M=L3_ECMP_GROUP;
tr 51 M=L3_ECMP_GROUP;
tr 52 M=L3_ECMP_GROUP;
tr 71 M=L3_ECMP_GROUP TSE=F SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=T;
tr 71 M=L3_ECMP_GROUP TSE=T SLTH=F;
echo " L3_ENTRY_HIT_ONLY";
tr 50 M=L3_ENTRY_HIT_ONLY;
```

```
tr 51 M=L3_ENTRY_HIT_ONLY;
tr 52 M=L3_ENTRY_HIT_ONLY;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_HIT_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST";
tr 50 M=L3_ENTRY_IPV4_MULTICAST;
tr 51 M=L3_ENTRY_IPV4_MULTICAST;
tr 52 M=L3_ENTRY_IPV4_MULTICAST;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST";
tr 50 M=L3_ENTRY_IPV4_UNICAST;
tr 51 M=L3_ENTRY_IPV4_UNICAST;
tr 52 M=L3_ENTRY_IPV4_UNICAST;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV4_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV4_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV4_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV4_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST";
tr 50 M=L3_ENTRY_IPV6_MULTICAST;
tr 51 M=L3_ENTRY_IPV6_MULTICAST;
tr 52 M=L3_ENTRY_IPV6_MULTICAST;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_MULTICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_MULTICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST";
```

```
tr 50 M=L3_ENTRY_IPV6_UNICAST;
tr 51 M=L3_ENTRY_IPV6_UNICAST;
tr 52 M=L3_ENTRY_IPV6_UNICAST;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST TSE=T SLTH=F;
echo " L3_ENTRY_IPV6_UNICAST_SCRATCH";
tr 50 M=L3_ENTRY_IPV6_UNICAST_SCRATCH;
#tr 51 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
#tr 52 M=L3_ENTRY_IPV6_UNICAST_SCRATCH # test not supported on single-entry tables;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=F SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=T;
tr 71 M=L3_ENTRY_IPV6_UNICAST_SCRATCH TSE=T SLTH=F;
echo " L3_ENTRY_ONLY";
tr 50 M=L3_ENTRY_ONLY;
tr 51 M=L3_ENTRY_ONLY;
tr 52 M=L3_ENTRY_ONLY;
tr 71 M=L3_ENTRY_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_ONLY TSE=T SLTH=F;
echo " L3_ENTRY_VALID_ONLY";
tr 50 M=L3_ENTRY_VALID_ONLY;
tr 51 M=L3_ENTRY_VALID_ONLY;
tr 52 M=L3_ENTRY_VALID_ONLY;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=F SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=T;
tr 71 M=L3_ENTRY_VALID_ONLY TSE=T SLTH=F;
echo " L3_IIF";
tr 50 M=L3_IIF;
tr 51 M=L3_IIF;
tr 52 M=L3_IIF;
tr 71 M=L3_IIF TSE=F SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=T;
tr 71 M=L3_IIF TSE=T SLTH=F;
echo " L3_IPMC";
tr 50 M=L3_IPMC;
tr 51 M=L3_IPMC;
tr 52 M=L3_IPMC;
tr 71 M=L3_IPMC TSE=F SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=T;
tr 71 M=L3_IPMC TSE=T SLTH=F;
echo " L3_IPMC_1";
tr 50 M=L3_IPMC_1;
tr 51 M=L3_IPMC_1;
tr 52 M=L3_IPMC_1;
tr 71 M=L3_IPMC_1 TSE=F SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=T;
tr 71 M=L3_IPMC_1 TSE=T SLTH=F;
```

```
echo " L3_IPMC_REMAP";
tr 50 M=L3_IPMC_REMAP;
tr 51 M=L3_IPMC_REMAP;
tr 52 M=L3_IPMC_REMAP;
tr 71 M=L3_IPMC_REMAP TSE=F SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=T;
tr 71 M=L3_IPMC_REMAP TSE=T SLTH=F;
echo " L3_MTU_VALUES";
tr 50 M=L3_MTU_VALUES;
tr 51 M=L3_MTU_VALUES;
tr 52 M=L3_MTU_VALUES;
tr 71 M=L3_MTU_VALUES TSE=F SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=T;
tr 71 M=L3_MTU_VALUES TSE=T SLTH=F;
echo " L3_TUNNEL";
tr 50 M=L3_TUNNEL;
tr 51 M=L3_TUNNEL;
tr 52 M=L3_TUNNEL;
tr 71 M=L3_TUNNEL TSE=F SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=T;
tr 71 M=L3_TUNNEL TSE=T SLTH=F;
echo " LMEP";
tr 50 M=LMEP;
tr 51 M=LMEP;
tr 52 M=LMEP;
tr 71 M=LMEP TSE=F SLTH=T;
tr 71 M=LMEP TSE=T SLTH=T;
tr 71 M=LMEP TSE=T SLTH=F;
echo " LPORT";
tr 50 M=LPORT;
tr 51 M=LPORT;
tr 52 M=LPORT;
tr 71 M=LPORT TSE=F SLTH=T;
tr 71 M=LPORT TSE=T SLTH=T;
tr 71 M=LPORT TSE=T SLTH=F;
echo " PORT_MAC_BLOCK";
tr 50 M=PORT_MAC_BLOCK;
tr 51 M=PORT_MAC_BLOCK;
tr 52 M=PORT_MAC_BLOCK;
tr 71 M=PORT_MAC_BLOCK TSE=F SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=T;
tr 71 M=PORT_MAC_BLOCK TSE=T SLTH=F;
echo " MAID_REDUCTION";
tr 50 M=MAID_REDUCTION;
tr 51 M=MAID_REDUCTION;
tr 52 M=MAID_REDUCTION;
tr 71 M=MAID_REDUCTION TSE=F SLTH=T;
tr 71 M=MAID_REDUCTION TSE=T SLTH=T;
```

```
tr 71 M=MAID_REDUCTION TSE=T SLTH=F;
echo " MA_INDEX";
tr 50 M=MA_INDEX;
tr 51 M=MA_INDEX;
tr 52 M=MA_INDEX;
tr 71 M=MA_INDEX TSE=F SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=T;
tr 71 M=MA_INDEX TSE=T SLTH=F;
echo " MA_STATE";
tr 50 M=MA_STATE;
tr 51 M=MA_STATE;
tr 52 M=MA_STATE;
tr 71 M=MA_STATE TSE=F SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=T;
tr 71 M=MA_STATE TSE=T SLTH=F;
echo " AGING_CTR";
tr 50 M=AGING_CTR;
tr 51 M=AGING_CTR;
tr 52 M=AGING_CTR;
tr 71 M=AGING_CTR TSE=F SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=T;
tr 71 M=AGING_CTR TSE=T SLTH=F;
echo " AGING_EXP";
tr 50 M=AGING_EXP;
tr 51 M=AGING_EXP;
tr 52 M=AGING_EXP;
tr 71 M=AGING_EXP TSE=F SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=T;
tr 71 M=AGING_EXP TSE=T SLTH=F;
echo " CBPDATA0";
tr 50 M=CBPDATA0;
tr 51 M=CBPDATA0;
tr 52 M=CBPDATA0;
tr 71 M=CBPDATA0 TSE=F SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=T;
tr 71 M=CBPDATA0 TSE=T SLTH=F;
echo " CBPDATA1";
tr 50 M=CBPDATA1;
tr 51 M=CBPDATA1;
tr 52 M=CBPDATA1;
tr 71 M=CBPDATA1 TSE=F SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=T;
tr 71 M=CBPDATA1 TSE=T SLTH=F;
echo " CBPDATA2";
tr 50 M=CBPDATA2;
tr 51 M=CBPDATA2;
tr 52 M=CBPDATA2;
tr 71 M=CBPDATA2 TSE=F SLTH=T;
```

```
tr 71 M=CBPDATA2 TSE=T SLTH=T;
tr 71 M=CBPDATA2 TSE=T SLTH=F;
echo " CBPDATA3";
tr 50 M=CBPDATA3;
tr 51 M=CBPDATA3;
tr 52 M=CBPDATA3;
tr 71 M=CBPDATA3 TSE=F SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=T;
tr 71 M=CBPDATA3 TSE=T SLTH=F;
echo " CBPDATA4";
tr 50 M=CBPDATA4;
tr 51 M=CBPDATA4;
tr 52 M=CBPDATA4;
tr 71 M=CBPDATA4 TSE=F SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=T;
tr 71 M=CBPDATA4 TSE=T SLTH=F;
echo " CBPDATA5";
tr 50 M=CBPDATA5;
tr 51 M=CBPDATA5;
tr 52 M=CBPDATA5;
tr 71 M=CBPDATA5 TSE=F SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=T;
tr 71 M=CBPDATA5 TSE=T SLTH=F;
echo " CBPDATA6";
tr 50 M=CBPDATA6;
tr 51 M=CBPDATA6;
tr 52 M=CBPDATA6;
tr 71 M=CBPDATA6 TSE=F SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=T;
tr 71 M=CBPDATA6 TSE=T SLTH=F;
echo " CBPDATA7";
tr 50 M=CBPDATA7;
tr 51 M=CBPDATA7;
tr 52 M=CBPDATA7;
tr 71 M=CBPDATA7 TSE=F SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=T;
tr 71 M=CBPDATA7 TSE=T SLTH=F;
echo " CBPDATA8";
tr 50 M=CBPDATA8;
tr 51 M=CBPDATA8;
tr 52 M=CBPDATA8;
tr 71 M=CBPDATA8 TSE=F SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=T;
tr 71 M=CBPDATA8 TSE=T SLTH=F;
echo " CBPDATA9";
tr 50 M=CBPDATA9;
tr 51 M=CBPDATA9;
tr 52 M=CBPDATA9;
```

```
tr 71 M=CBPDATA9 TSE=F SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=T;
tr 71 M=CBPDATA9 TSE=T SLTH=F;
echo " CBPDATA10";
tr 50 M=CBPDATA10;
tr 51 M=CBPDATA10;
tr 52 M=CBPDATA10;
tr 71 M=CBPDATA10 TSE=F SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=T;
tr 71 M=CBPDATA10 TSE=T SLTH=F;
echo " CBPDATA11";
tr 50 M=CBPDATA11;
tr 51 M=CBPDATA11;
tr 52 M=CBPDATA11;
tr 71 M=CBPDATA11 TSE=F SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=T;
tr 71 M=CBPDATA11 TSE=T SLTH=F;
echo " CBPDATA12";
tr 50 M=CBPDATA12;
tr 51 M=CBPDATA12;
tr 52 M=CBPDATA12;
tr 71 M=CBPDATA12 TSE=F SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=T;
tr 71 M=CBPDATA12 TSE=T SLTH=F;
echo " CBPDATA13";
tr 50 M=CBPDATA13;
tr 51 M=CBPDATA13;
tr 52 M=CBPDATA13;
tr 71 M=CBPDATA13 TSE=F SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=T;
tr 71 M=CBPDATA13 TSE=T SLTH=F;
echo " CBPDATA14";
tr 50 M=CBPDATA14;
tr 51 M=CBPDATA14;
tr 52 M=CBPDATA14;
tr 71 M=CBPDATA14 TSE=F SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=T;
tr 71 M=CBPDATA14 TSE=T SLTH=F;
echo " CBPDATA15";
tr 50 M=CBPDATA15;
tr 51 M=CBPDATA15;
tr 52 M=CBPDATA15;
tr 71 M=CBPDATA15 TSE=F SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=T;
tr 71 M=CBPDATA15 TSE=T SLTH=F;
echo " CBPDATA16";
tr 50 M=CBPDATA16;
tr 51 M=CBPDATA16;
```

```
tr 52 M=CBPDATA16;
tr 71 M=CBPDATA16 TSE=F SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=T;
tr 71 M=CBPDATA16 TSE=T SLTH=F;
echo " CBPDATA17";
tr 50 M=CBPDATA17;
tr 51 M=CBPDATA17;
tr 52 M=CBPDATA17;
tr 71 M=CBPDATA17 TSE=F SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=T;
tr 71 M=CBPDATA17 TSE=T SLTH=F;
echo " CBPDATA18";
tr 50 M=CBPDATA18;
tr 51 M=CBPDATA18;
tr 52 M=CBPDATA18;
tr 71 M=CBPDATA18 TSE=F SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=T;
tr 71 M=CBPDATA18 TSE=T SLTH=F;
echo " CBPDATA19";
tr 50 M=CBPDATA19;
tr 51 M=CBPDATA19;
tr 52 M=CBPDATA19;
tr 71 M=CBPDATA19 TSE=F SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=T;
tr 71 M=CBPDATA19 TSE=T SLTH=F;
echo " CBPDATA20";
tr 50 M=CBPDATA20;
tr 51 M=CBPDATA20;
tr 52 M=CBPDATA20;
tr 71 M=CBPDATA20 TSE=F SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=T;
tr 71 M=CBPDATA20 TSE=T SLTH=F;
echo " CBPDATA21";
tr 50 M=CBPDATA21;
tr 51 M=CBPDATA21;
tr 52 M=CBPDATA21;
tr 71 M=CBPDATA21 TSE=F SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=T;
tr 71 M=CBPDATA21 TSE=T SLTH=F;
echo " CBPDATA22";
tr 50 M=CBPDATA22;
tr 51 M=CBPDATA22;
tr 52 M=CBPDATA22;
tr 71 M=CBPDATA22 TSE=F SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=T;
tr 71 M=CBPDATA22 TSE=T SLTH=F;
echo " CBPDATA23";
tr 50 M=CBPDATA23;
```

```
tr 51 M=CBPDATA23;
tr 52 M=CBPDATA23;
tr 71 M=CBPDATA23 TSE=F SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=T;
tr 71 M=CBPDATA23 TSE=T SLTH=F;
echo " CBPDATA24";
tr 50 M=CBPDATA24;
tr 51 M=CBPDATA24;
tr 52 M=CBPDATA24;
tr 71 M=CBPDATA24 TSE=F SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=T;
tr 71 M=CBPDATA24 TSE=T SLTH=F;
echo " CBPDATA25";
tr 50 M=CBPDATA25;
tr 51 M=CBPDATA25;
tr 52 M=CBPDATA25;
tr 71 M=CBPDATA25 TSE=F SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=T;
tr 71 M=CBPDATA25 TSE=T SLTH=F;
echo " CBPDATA26";
tr 50 M=CBPDATA26;
tr 51 M=CBPDATA26;
tr 52 M=CBPDATA26;
tr 71 M=CBPDATA26 TSE=F SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=T;
tr 71 M=CBPDATA26 TSE=T SLTH=F;
echo " CBPDATA27";
tr 50 M=CBPDATA27;
tr 51 M=CBPDATA27;
tr 52 M=CBPDATA27;
tr 71 M=CBPDATA27 TSE=F SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=T;
tr 71 M=CBPDATA27 TSE=T SLTH=F;
echo " CBPDATA28";
tr 50 M=CBPDATA28;
tr 51 M=CBPDATA28;
tr 52 M=CBPDATA28;
tr 71 M=CBPDATA28 TSE=F SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=T;
tr 71 M=CBPDATA28 TSE=T SLTH=F;
echo " CBPDATA29";
tr 50 M=CBPDATA29;
tr 51 M=CBPDATA29;
tr 52 M=CBPDATA29;
tr 71 M=CBPDATA29 TSE=F SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=T;
tr 71 M=CBPDATA29 TSE=T SLTH=F;
echo " CBPDATA30";
```

```
tr 50 M=CBPDATA30;
tr 51 M=CBPDATA30;
tr 52 M=CBPDATA30;
tr 71 M=CBPDATA30 TSE=F SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=T;
tr 71 M=CBPDATA30 TSE=T SLTH=F;
echo " CBPDATA31";
tr 50 M=CBPDATA31;
tr 51 M=CBPDATA31;
tr 52 M=CBPDATA31;
tr 71 M=CBPDATA31 TSE=F SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=T;
tr 71 M=CBPDATA31 TSE=T SLTH=F;
echo " CBPPKTHEADER2";
tr 50 M=CBPPKTHEADER2;
tr 51 M=CBPPKTHEADER2;
tr 52 M=CBPPKTHEADER2;
tr 71 M=CBPPKTHEADER2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM0";
tr 50 M=CBPPKTHEADER0_MEM0;
tr 51 M=CBPPKTHEADER0_MEM0;
tr 52 M=CBPPKTHEADER0_MEM0;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM1";
tr 50 M=CBPPKTHEADER0_MEM1;
tr 51 M=CBPPKTHEADER0_MEM1;
tr 52 M=CBPPKTHEADER0_MEM1;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM2";
tr 50 M=CBPPKTHEADER0_MEM2;
tr 51 M=CBPPKTHEADER0_MEM2;
tr 52 M=CBPPKTHEADER0_MEM2;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM2 TSE=T SLTH=F;
echo " CBPPKTHEADER0_MEM3";
tr 50 M=CBPPKTHEADER0_MEM3;
tr 51 M=CBPPKTHEADER0_MEM3;
tr 52 M=CBPPKTHEADER0_MEM3;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER0_MEM3 TSE=T SLTH=F;
```

```
echo " CBPPKTHEADER1_MEM0";
tr 50 M=CBPPKTHEADER1_MEM0;
tr 51 M=CBPPKTHEADER1_MEM0;
tr 52 M=CBPPKTHEADER1_MEM0;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM0 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM1";
tr 50 M=CBPPKTHEADER1_MEM1;
tr 51 M=CBPPKTHEADER1_MEM1;
tr 52 M=CBPPKTHEADER1_MEM1;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM1 TSE=T SLTH=F;
echo " CBPPKTHEADER1_MEM2";
tr 50 M=CBPPKTHEADER1_MEM2;
tr 51 M=CBPPKTHEADER1_MEM2;
tr 52 M=CBPPKTHEADER1_MEM2;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=F SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=T;
tr 71 M=CBPPKTHEADER1_MEM2 TSE=T SLTH=F;
echo " CCP";
tr 50 M=CCP;
tr 51 M=CCP;
tr 52 M=CCP;
tr 71 M=CCP TSE=F SLTH=T;
tr 71 M=CCP TSE=T SLTH=T;
tr 71 M=CCP TSE=T SLTH=F;
echo " CCP_RELEASE_FIFO";
tr 50 M=CCP_RELEASE_FIFO;
tr 51 M=CCP_RELEASE_FIFO;
tr 52 M=CCP_RELEASE_FIFO;
tr 71 M=CCP_RELEASE_FIFO TSE=F SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=T;
tr 71 M=CCP_RELEASE_FIFO TSE=T SLTH=F;
echo " CELLCHK";
tr 50 M=CELLCHK;
tr 51 M=CELLCHK;
tr 52 M=CELLCHK;
tr 71 M=CELLCHK TSE=F SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=T;
tr 71 M=CELLCHK TSE=T SLTH=F;
echo " CELLLINK";
tr 50 M=CELLLINK;
tr 51 M=CELLLINK;
tr 52 M=CELLLINK;
tr 71 M=CELLLINK TSE=F SLTH=T;
tr 71 M=CELLLINK TSE=T SLTH=T;
```

```
tr 71 M=CELLLINK TSE=T SLTH=F;
echo " CFAP";
tr 50 M=CFAP;
tr 51 M=CFAP;
tr 52 M=CFAP;
tr 71 M=CFAP TSE=F SLTH=T;
tr 71 M=CFAP TSE=T SLTH=T;
tr 71 M=CFAP TSE=T SLTH=F;
echo " IPMC_GROUP0";
tr 50 M=IPMC_GROUP0;
tr 51 M=IPMC_GROUP0;
tr 52 M=IPMC_GROUP0;
tr 71 M=IPMC_GROUP0 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP0 TSE=T SLTH=F;
echo " IPMC_GROUP1";
tr 50 M=IPMC_GROUP1;
tr 51 M=IPMC_GROUP1;
tr 52 M=IPMC_GROUP1;
tr 71 M=IPMC_GROUP1 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP1 TSE=T SLTH=F;
echo " IPMC_GROUP2";
tr 50 M=IPMC_GROUP2;
tr 51 M=IPMC_GROUP2;
tr 52 M=IPMC_GROUP2;
tr 71 M=IPMC_GROUP2 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP2 TSE=T SLTH=F;
echo " IPMC_GROUP3";
tr 50 M=IPMC_GROUP3;
tr 51 M=IPMC_GROUP3;
tr 52 M=IPMC_GROUP3;
tr 71 M=IPMC_GROUP3 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP3 TSE=T SLTH=F;
echo " IPMC_GROUP4";
tr 50 M=IPMC_GROUP4;
tr 51 M=IPMC_GROUP4;
tr 52 M=IPMC_GROUP4;
tr 71 M=IPMC_GROUP4 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP4 TSE=T SLTH=F;
echo " IPMC_GROUP5";
tr 50 M=IPMC_GROUP5;
tr 51 M=IPMC_GROUP5;
tr 52 M=IPMC_GROUP5;
tr 71 M=IPMC_GROUP5 TSE=F SLTH=T;
```

```
tr 71 M=IPMC_GROUP5 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP5 TSE=T SLTH=F;
echo " IPMC_GROUP6";
tr 50 M=IPMC_GROUP6;
tr 51 M=IPMC_GROUP6;
tr 52 M=IPMC_GROUP6;
tr 71 M=IPMC_GROUP6 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP6 TSE=T SLTH=F;
echo " IPMC_GROUP7";
tr 50 M=IPMC_GROUP7;
tr 51 M=IPMC_GROUP7;
tr 52 M=IPMC_GROUP7;
tr 71 M=IPMC_GROUP7 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP7 TSE=T SLTH=F;
echo " IPMC_GROUP8";
tr 50 M=IPMC_GROUP8;
tr 51 M=IPMC_GROUP8;
tr 52 M=IPMC_GROUP8;
tr 71 M=IPMC_GROUP8 TSE=F SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=T;
tr 71 M=IPMC_GROUP8 TSE=T SLTH=F;
echo " IPMC_VLAN";
tr 50 M=IPMC_VLAN;
tr 51 M=IPMC_VLAN;
tr 52 M=IPMC_VLAN;
tr 71 M=IPMC_VLAN TSE=F SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=T;
tr 71 M=IPMC_VLAN TSE=T SLTH=F;
echo " PFAP";
tr 50 M=PFAP;
tr 51 M=PFAP;
tr 52 M=PFAP;
tr 71 M=PFAP TSE=F SLTH=T;
tr 71 M=PFAP TSE=T SLTH=T;
tr 71 M=PFAP TSE=T SLTH=F;
echo " PKTLINK0";
tr 50 M=PKTLINK0;
tr 51 M=PKTLINK0;
tr 52 M=PKTLINK0;
tr 71 M=PKTLINK0 TSE=F SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=T;
tr 71 M=PKTLINK0 TSE=T SLTH=F;
echo " PKTLINK1";
tr 50 M=PKTLINK1;
tr 51 M=PKTLINK1;
tr 52 M=PKTLINK1;
```

```
tr 71 M=PKTLINK1 TSE=F SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=T;
tr 71 M=PKTLINK1 TSE=T SLTH=F;
echo " PKTLINK2";
tr 50 M=PKTLINK2;
tr 51 M=PKTLINK2;
tr 52 M=PKTLINK2;
tr 71 M=PKTLINK2 TSE=F SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=T;
tr 71 M=PKTLINK2 TSE=T SLTH=F;
echo " PKTLINK3";
tr 50 M=PKTLINK3;
tr 51 M=PKTLINK3;
tr 52 M=PKTLINK3;
tr 71 M=PKTLINK3 TSE=F SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=T;
tr 71 M=PKTLINK3 TSE=T SLTH=F;
echo " PKTLINK4";
tr 50 M=PKTLINK4;
tr 51 M=PKTLINK4;
tr 52 M=PKTLINK4;
tr 71 M=PKTLINK4 TSE=F SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=T;
tr 71 M=PKTLINK4 TSE=T SLTH=F;
echo " PKTLINK5";
tr 50 M=PKTLINK5;
tr 51 M=PKTLINK5;
tr 52 M=PKTLINK5;
tr 71 M=PKTLINK5 TSE=F SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=T;
tr 71 M=PKTLINK5 TSE=T SLTH=F;
echo " PKTLINK6";
tr 50 M=PKTLINK6;
tr 51 M=PKTLINK6;
tr 52 M=PKTLINK6;
tr 71 M=PKTLINK6 TSE=F SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=T;
tr 71 M=PKTLINK6 TSE=T SLTH=F;
echo " PKTLINK7";
tr 50 M=PKTLINK7;
tr 51 M=PKTLINK7;
tr 52 M=PKTLINK7;
tr 71 M=PKTLINK7 TSE=F SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=T;
tr 71 M=PKTLINK7 TSE=T SLTH=F;
echo " PKTLINK8";
tr 50 M=PKTLINK8;
tr 51 M=PKTLINK8;
```

```
tr 52 M=PKTLINK8;
tr 71 M=PKTLINK8 TSE=F SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=T;
tr 71 M=PKTLINK8 TSE=T SLTH=F;
echo " PKTLINK9";
tr 50 M=PKTLINK9;
tr 51 M=PKTLINK9;
tr 52 M=PKTLINK9;
tr 71 M=PKTLINK9 TSE=F SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=T;
tr 71 M=PKTLINK9 TSE=T SLTH=F;
echo " PKTLINK10";
tr 50 M=PKTLINK10;
tr 51 M=PKTLINK10;
tr 52 M=PKTLINK10;
tr 71 M=PKTLINK10 TSE=F SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=T;
tr 71 M=PKTLINK10 TSE=T SLTH=F;
echo " PKTLINK11";
tr 50 M=PKTLINK11;
tr 51 M=PKTLINK11;
tr 52 M=PKTLINK11;
tr 71 M=PKTLINK11 TSE=F SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=T;
tr 71 M=PKTLINK11 TSE=T SLTH=F;
echo " PKTLINK12";
tr 50 M=PKTLINK12;
tr 51 M=PKTLINK12;
tr 52 M=PKTLINK12;
tr 71 M=PKTLINK12 TSE=F SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=T;
tr 71 M=PKTLINK12 TSE=T SLTH=F;
echo " PKTLINK13";
tr 50 M=PKTLINK13;
tr 51 M=PKTLINK13;
tr 52 M=PKTLINK13;
tr 71 M=PKTLINK13 TSE=F SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=T;
tr 71 M=PKTLINK13 TSE=T SLTH=F;
echo " PKTLINK14";
tr 50 M=PKTLINK14;
tr 51 M=PKTLINK14;
tr 52 M=PKTLINK14;
tr 71 M=PKTLINK14 TSE=F SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=T;
tr 71 M=PKTLINK14 TSE=T SLTH=F;
echo " PKTLINK15";
tr 50 M=PKTLINK15;
```

```
tr 51 M=PKTLINK15;
tr 52 M=PKTLINK15;
tr 71 M=PKTLINK15 TSE=F SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=T;
tr 71 M=PKTLINK15 TSE=T SLTH=F;
echo " PKTLINK16";
tr 50 M=PKTLINK16;
tr 51 M=PKTLINK16;
tr 52 M=PKTLINK16;
tr 71 M=PKTLINK16 TSE=F SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=T;
tr 71 M=PKTLINK16 TSE=T SLTH=F;
echo " PKTLINK17";
tr 50 M=PKTLINK17;
tr 51 M=PKTLINK17;
tr 52 M=PKTLINK17;
tr 71 M=PKTLINK17 TSE=F SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=T;
tr 71 M=PKTLINK17 TSE=T SLTH=F;
echo " PKTLINK18";
tr 50 M=PKTLINK18;
tr 51 M=PKTLINK18;
tr 52 M=PKTLINK18;
tr 71 M=PKTLINK18 TSE=F SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=T;
tr 71 M=PKTLINK18 TSE=T SLTH=F;
echo " PKTLINK19";
tr 50 M=PKTLINK19;
tr 51 M=PKTLINK19;
tr 52 M=PKTLINK19;
tr 71 M=PKTLINK19 TSE=F SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=T;
tr 71 M=PKTLINK19 TSE=T SLTH=F;
echo " PKTLINK20";
tr 50 M=PKTLINK20;
tr 51 M=PKTLINK20;
tr 52 M=PKTLINK20;
tr 71 M=PKTLINK20 TSE=F SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=T;
tr 71 M=PKTLINK20 TSE=T SLTH=F;
echo " PKTLINK21";
tr 50 M=PKTLINK21;
tr 51 M=PKTLINK21;
tr 52 M=PKTLINK21;
tr 71 M=PKTLINK21 TSE=F SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=T;
tr 71 M=PKTLINK21 TSE=T SLTH=F;
echo " PKTLINK22";
```

```
tr 50 M=PKTLINK22;
tr 51 M=PKTLINK22;
tr 52 M=PKTLINK22;
tr 71 M=PKTLINK22 TSE=F SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=T;
tr 71 M=PKTLINK22 TSE=T SLTH=F;
echo " PKTLINK23";
tr 50 M=PKTLINK23;
tr 51 M=PKTLINK23;
tr 52 M=PKTLINK23;
tr 71 M=PKTLINK23 TSE=F SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=T;
tr 71 M=PKTLINK23 TSE=T SLTH=F;
echo " PKTLINK24";
tr 50 M=PKTLINK24;
tr 51 M=PKTLINK24;
tr 52 M=PKTLINK24;
tr 71 M=PKTLINK24 TSE=F SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=T;
tr 71 M=PKTLINK24 TSE=T SLTH=F;
echo " PKTLINK25";
tr 50 M=PKTLINK25;
tr 51 M=PKTLINK25;
tr 52 M=PKTLINK25;
tr 71 M=PKTLINK25 TSE=F SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=T;
tr 71 M=PKTLINK25 TSE=T SLTH=F;
echo " PKTLINK26";
tr 50 M=PKTLINK26;
tr 51 M=PKTLINK26;
tr 52 M=PKTLINK26;
tr 71 M=PKTLINK26 TSE=F SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=T;
tr 71 M=PKTLINK26 TSE=T SLTH=F;
echo " PKTLINK27";
tr 50 M=PKTLINK27;
tr 51 M=PKTLINK27;
tr 52 M=PKTLINK27;
tr 71 M=PKTLINK27 TSE=F SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=T;
tr 71 M=PKTLINK27 TSE=T SLTH=F;
echo " PKTLINK28";
tr 50 M=PKTLINK28;
tr 51 M=PKTLINK28;
tr 52 M=PKTLINK28;
tr 71 M=PKTLINK28 TSE=F SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=T;
tr 71 M=PKTLINK28 TSE=T SLTH=F;
```

```
echo " PKTLINK29";
tr 50 M=PKTLINK29;
tr 51 M=PKTLINK29;
tr 52 M=PKTLINK29;
tr 71 M=PKTLINK29 TSE=F SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=T;
tr 71 M=PKTLINK29 TSE=T SLTH=F;
echo " PKTLINK30";
tr 50 M=PKTLINK30;
tr 51 M=PKTLINK30;
tr 52 M=PKTLINK30;
tr 71 M=PKTLINK30 TSE=F SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=T;
tr 71 M=PKTLINK30 TSE=T SLTH=F;
echo " PKTLINK31";
tr 50 M=PKTLINK31;
tr 51 M=PKTLINK31;
tr 52 M=PKTLINK31;
tr 71 M=PKTLINK31 TSE=F SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=T;
tr 71 M=PKTLINK31 TSE=T SLTH=F;
echo " PKTLINK32";
tr 50 M=PKTLINK32;
tr 51 M=PKTLINK32;
tr 52 M=PKTLINK32;
tr 71 M=PKTLINK32 TSE=F SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=T;
tr 71 M=PKTLINK32 TSE=T SLTH=F;
echo " PKTLINK33";
tr 50 M=PKTLINK33;
tr 51 M=PKTLINK33;
tr 52 M=PKTLINK33;
tr 71 M=PKTLINK33 TSE=F SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=T;
tr 71 M=PKTLINK33 TSE=T SLTH=F;
echo " PKTLINK34";
tr 50 M=PKTLINK34;
tr 51 M=PKTLINK34;
tr 52 M=PKTLINK34;
tr 71 M=PKTLINK34 TSE=F SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=T;
tr 71 M=PKTLINK34 TSE=T SLTH=F;
echo " PKTLINK35";
tr 50 M=PKTLINK35;
tr 51 M=PKTLINK35;
tr 52 M=PKTLINK35;
tr 71 M=PKTLINK35 TSE=F SLTH=T;
tr 71 M=PKTLINK35 TSE=T SLTH=T;
```

```
tr 71 M=PKTLINK35 TSE=T SLTH=F;
echo " PKTLINK36";
tr 50 M=PKTLINK36;
tr 51 M=PKTLINK36;
tr 52 M=PKTLINK36;
tr 71 M=PKTLINK36 TSE=F SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=T;
tr 71 M=PKTLINK36 TSE=T SLTH=F;
echo " PKTLINK37";
tr 50 M=PKTLINK37;
tr 51 M=PKTLINK37;
tr 52 M=PKTLINK37;
tr 71 M=PKTLINK37 TSE=F SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=T;
tr 71 M=PKTLINK37 TSE=T SLTH=F;
echo " PKTLINK38";
tr 50 M=PKTLINK38;
tr 51 M=PKTLINK38;
tr 52 M=PKTLINK38;
tr 71 M=PKTLINK38 TSE=F SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=T;
tr 71 M=PKTLINK38 TSE=T SLTH=F;
echo " PKTLINK39";
tr 50 M=PKTLINK39;
tr 51 M=PKTLINK39;
tr 52 M=PKTLINK39;
tr 71 M=PKTLINK39 TSE=F SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=T;
tr 71 M=PKTLINK39 TSE=T SLTH=F;
echo " PKTLINK40";
tr 50 M=PKTLINK40;
tr 51 M=PKTLINK40;
tr 52 M=PKTLINK40;
tr 71 M=PKTLINK40 TSE=F SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=T;
tr 71 M=PKTLINK40 TSE=T SLTH=F;
echo " PKTLINK41";
tr 50 M=PKTLINK41;
tr 51 M=PKTLINK41;
tr 52 M=PKTLINK41;
tr 71 M=PKTLINK41 TSE=F SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=T;
tr 71 M=PKTLINK41 TSE=T SLTH=F;
echo " PKTLINK42";
tr 50 M=PKTLINK42;
tr 51 M=PKTLINK42;
tr 52 M=PKTLINK42;
tr 71 M=PKTLINK42 TSE=F SLTH=T;
```

```
tr 71 M=PKTLINK42 TSE=T SLTH=T;
tr 71 M=PKTLINK42 TSE=T SLTH=F;
echo " PKTLINK43";
tr 50 M=PKTLINK43;
tr 51 M=PKTLINK43;
tr 52 M=PKTLINK43;
tr 71 M=PKTLINK43 TSE=F SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=T;
tr 71 M=PKTLINK43 TSE=T SLTH=F;
echo " PKTLINK44";
tr 50 M=PKTLINK44;
tr 51 M=PKTLINK44;
tr 52 M=PKTLINK44;
tr 71 M=PKTLINK44 TSE=F SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=T;
tr 71 M=PKTLINK44 TSE=T SLTH=F;
echo " PKTLINK45";
tr 50 M=PKTLINK45;
tr 51 M=PKTLINK45;
tr 52 M=PKTLINK45;
tr 71 M=PKTLINK45 TSE=F SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=T;
tr 71 M=PKTLINK45 TSE=T SLTH=F;
echo " PKTLINK46";
tr 50 M=PKTLINK46;
tr 51 M=PKTLINK46;
tr 52 M=PKTLINK46;
tr 71 M=PKTLINK46 TSE=F SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=T;
tr 71 M=PKTLINK46 TSE=T SLTH=F;
echo " PKTLINK47";
tr 50 M=PKTLINK47;
tr 51 M=PKTLINK47;
tr 52 M=PKTLINK47;
tr 71 M=PKTLINK47 TSE=F SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=T;
tr 71 M=PKTLINK47 TSE=T SLTH=F;
echo " PKTLINK48";
tr 50 M=PKTLINK48;
tr 51 M=PKTLINK48;
tr 52 M=PKTLINK48;
tr 71 M=PKTLINK48 TSE=F SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=T;
tr 71 M=PKTLINK48 TSE=T SLTH=F;
echo " PKTLINK49";
tr 50 M=PKTLINK49;
tr 51 M=PKTLINK49;
tr 52 M=PKTLINK49;
```

```
tr 71 M=PKTLINK49 TSE=F SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=T;
tr 71 M=PKTLINK49 TSE=T SLTH=F;
echo " PKTLINK50";
tr 50 M=PKTLINK50;
tr 51 M=PKTLINK50;
tr 52 M=PKTLINK50;
tr 71 M=PKTLINK50 TSE=F SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=T;
tr 71 M=PKTLINK50 TSE=T SLTH=F;
echo " PKTLINK51";
tr 50 M=PKTLINK51;
tr 51 M=PKTLINK51;
tr 52 M=PKTLINK51;
tr 71 M=PKTLINK51 TSE=F SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=T;
tr 71 M=PKTLINK51 TSE=T SLTH=F;
echo " PKTLINK52";
tr 50 M=PKTLINK52;
tr 51 M=PKTLINK52;
tr 52 M=PKTLINK52;
tr 71 M=PKTLINK52 TSE=F SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=T;
tr 71 M=PKTLINK52 TSE=T SLTH=F;
echo " PKTLINK53";
tr 50 M=PKTLINK53;
tr 51 M=PKTLINK53;
tr 52 M=PKTLINK53;
tr 71 M=PKTLINK53 TSE=F SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=T;
tr 71 M=PKTLINK53 TSE=T SLTH=F;
echo " PKTLINK54";
tr 50 M=PKTLINK54;
tr 51 M=PKTLINK54;
tr 52 M=PKTLINK54;
tr 71 M=PKTLINK54 TSE=F SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=T;
tr 71 M=PKTLINK54 TSE=T SLTH=F;
echo " PQE";
tr 50 M=PQE;
tr 51 M=PQE;
tr 52 M=PQE;
tr 71 M=PQE TSE=F SLTH=T;
tr 71 M=PQE TSE=T SLTH=T;
tr 71 M=PQE TSE=T SLTH=F;
echo " RDEHEADER_MEM0";
tr 50 M=RDEHEADER_MEM0;
tr 51 M=RDEHEADER_MEM0;
```

```
tr 52 M=RDEHEADER_MEM0;
tr 71 M=RDEHEADER_MEM0 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM0 TSE=T SLTH=F;
echo " RDEHEADER_MEM1";
tr 50 M=RDEHEADER_MEM1;
tr 51 M=RDEHEADER_MEM1;
tr 52 M=RDEHEADER_MEM1;
tr 71 M=RDEHEADER_MEM1 TSE=F SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=T;
tr 71 M=RDEHEADER_MEM1 TSE=T SLTH=F;
echo " RDE_COSPCP";
tr 50 M=RDE_COSPCP;
tr 51 M=RDE_COSPCP;
tr 52 M=RDE_COSPCP;
tr 71 M=RDE_COSPCP TSE=F SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=T;
tr 71 M=RDE_COSPCP TSE=T SLTH=F;
echo " RDE_DESCP";
tr 50 M=RDE_DESCP;
tr 51 M=RDE_DESCP;
tr 52 M=RDE_DESCP;
tr 71 M=RDE_DESCP TSE=F SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=T;
tr 71 M=RDE_DESCP TSE=T SLTH=F;
echo " RDE_FREELIST";
tr 50 M=RDE_FREELIST;
tr 51 M=RDE_FREELIST;
tr 52 M=RDE_FREELIST;
tr 71 M=RDE_FREELIST TSE=F SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=T;
tr 71 M=RDE_FREELIST TSE=T SLTH=F;
echo " RDE_PKTLINK";
tr 50 M=RDE_PKTLINK;
tr 51 M=RDE_PKTLINK;
tr 52 M=RDE_PKTLINK;
tr 71 M=RDE_PKTLINK TSE=F SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=T;
tr 71 M=RDE_PKTLINK TSE=T SLTH=F;
echo " RDE_PRCP";
tr 50 M=RDE_PRCP;
tr 51 M=RDE_PRCP;
tr 52 M=RDE_PRCP;
tr 71 M=RDE_PRCP TSE=F SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=T;
tr 71 M=RDE_PRCP TSE=T SLTH=F;
echo " TOQRDE";
tr 50 M=TOQRDE;
```

```
tr 51 M=TOQRDE;
tr 52 M=TOQRDE;
tr 71 M=TOQRDE TSE=F SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=T;
tr 71 M=TOQRDE TSE=T SLTH=F;
echo " WAMU_MEM0";
tr 50 M=WAMU_MEM0;
tr 51 M=WAMU_MEM0;
tr 52 M=WAMU_MEM0;
tr 71 M=WAMU_MEM0 TSE=F SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=T;
tr 71 M=WAMU_MEM0 TSE=T SLTH=F;
echo " WAMU_MEM1";
tr 50 M=WAMU_MEM1;
tr 51 M=WAMU_MEM1;
tr 52 M=WAMU_MEM1;
tr 71 M=WAMU_MEM1 TSE=F SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=T;
tr 71 M=WAMU_MEM1 TSE=T SLTH=F;
echo " WAMU_MEM2";
tr 50 M=WAMU_MEM2;
tr 51 M=WAMU_MEM2;
tr 52 M=WAMU_MEM2;
tr 71 M=WAMU_MEM2 TSE=F SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=T;
tr 71 M=WAMU_MEM2 TSE=T SLTH=F;
echo " WAMU_MEM3";
tr 50 M=WAMU_MEM3;
tr 51 M=WAMU_MEM3;
tr 52 M=WAMU_MEM3;
tr 71 M=WAMU_MEM3 TSE=F SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=T;
tr 71 M=WAMU_MEM3 TSE=T SLTH=F;
echo " WRED_CFG_CELL";
tr 50 M=WRED_CFG_CELL;
tr 51 M=WRED_CFG_CELL;
tr 52 M=WRED_CFG_CELL;
tr 71 M=WRED_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_CFG_CELL TSE=T SLTH=F;
echo " WRED_CFG_PACKET";
tr 50 M=WRED_CFG_PACKET;
tr 51 M=WRED_CFG_PACKET;
tr 52 M=WRED_CFG_PACKET;
tr 71 M=WRED_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_CFG_CELL";
```

```
tr 50 M=WRED_PORT_CFG_CELL;
tr 51 M=WRED_PORT_CFG_CELL;
tr 52 M=WRED_PORT_CFG_CELL;
tr 71 M=WRED_PORT_CFG_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_CELL TSE=T SLTH=F;
echo " WRED_PORT_CFG_PACKET";
tr 50 M=WRED_PORT_CFG_PACKET;
tr 51 M=WRED_PORT_CFG_PACKET;
tr 52 M=WRED_PORT_CFG_PACKET;
tr 71 M=WRED_PORT_CFG_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_CFG_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_0_CELL";
tr 50 M=WRED_PORT_THD_0_CELL;
tr 51 M=WRED_PORT_THD_0_CELL;
tr 52 M=WRED_PORT_THD_0_CELL;
tr 71 M=WRED_PORT_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_0_PACKET";
tr 50 M=WRED_PORT_THD_0_PACKET;
tr 51 M=WRED_PORT_THD_0_PACKET;
tr 52 M=WRED_PORT_THD_0_PACKET;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_PORT_THD_1_CELL";
tr 50 M=WRED_PORT_THD_1_CELL;
tr 51 M=WRED_PORT_THD_1_CELL;
tr 52 M=WRED_PORT_THD_1_CELL;
tr 71 M=WRED_PORT_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_CELL TSE=T SLTH=F;
echo " WRED_PORT_THD_1_PACKET";
tr 50 M=WRED_PORT_THD_1_PACKET;
tr 51 M=WRED_PORT_THD_1_PACKET;
tr 52 M=WRED_PORT_THD_1_PACKET;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_PORT_THD_1_PACKET TSE=T SLTH=F;
echo " WRED_THD_0_CELL";
tr 50 M=WRED_THD_0_CELL;
tr 51 M=WRED_THD_0_CELL;
tr 52 M=WRED_THD_0_CELL;
tr 71 M=WRED_THD_0_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_0_CELL TSE=T SLTH=F;
```

```
echo " WRED_THD_0_PACKET";
tr 50 M=WRED_THD_0_PACKET;
tr 51 M=WRED_THD_0_PACKET;
tr 52 M=WRED_THD_0_PACKET;
tr 71 M=WRED_THD_0_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_0_PACKET TSE=T SLTH=F;
echo " WRED_THD_1_CELL";
tr 50 M=WRED_THD_1_CELL;
tr 51 M=WRED_THD_1_CELL;
tr 52 M=WRED_THD_1_CELL;
tr 71 M=WRED_THD_1_CELL TSE=F SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=T;
tr 71 M=WRED_THD_1_CELL TSE=T SLTH=F;
echo " WRED_THD_1_PACKET";
tr 50 M=WRED_THD_1_PACKET;
tr 51 M=WRED_THD_1_PACKET;
tr 52 M=WRED_THD_1_PACKET;
tr 71 M=WRED_THD_1_PACKET TSE=F SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=T;
tr 71 M=WRED_THD_1_PACKET TSE=T SLTH=F;
echo " MODPORT_MAP";
tr 50 M=MODPORT_MAP;
tr 51 M=MODPORT_MAP;
tr 52 M=MODPORT_MAP;
tr 71 M=MODPORT_MAP TSE=F SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=T;
tr 71 M=MODPORT_MAP TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR";
tr 50 M=MODPORT_MAP_MIRROR;
tr 51 M=MODPORT_MAP_MIRROR;
tr 52 M=MODPORT_MAP_MIRROR;
tr 71 M=MODPORT_MAP_MIRROR TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR TSE=T SLTH=F;
echo " MODPORT_MAP_MIRROR_1";
tr 50 M=MODPORT_MAP_MIRROR_1;
tr 51 M=MODPORT_MAP_MIRROR_1;
tr 52 M=MODPORT_MAP_MIRROR_1;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=T;
tr 71 M=MODPORT_MAP_MIRROR_1 TSE=T SLTH=F;
echo " MODPORT_MAP_SW";
tr 50 M=MODPORT_MAP_SW;
tr 51 M=MODPORT_MAP_SW;
tr 52 M=MODPORT_MAP_SW;
tr 71 M=MODPORT_MAP_SW TSE=F SLTH=T;
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=T;
```

```
tr 71 M=MODPORT_MAP_SW TSE=T SLTH=F;
echo " MPLS_ENTRY";
tr 50 M=MPLS_ENTRY;
tr 51 M=MPLS_ENTRY;
tr 52 M=MPLS_ENTRY;
tr 71 M=MPLS_ENTRY TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY TSE=T SLTH=F;
echo " MPLS_ENTRY_SCRATCH";
tr 50 M=MPLS_ENTRY_SCRATCH;
#tr 51 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
#tr 52 M=MPLS_ENTRY_SCRATCH # test not supported on single-entry tables;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=F SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=T;
tr 71 M=MPLS_ENTRY_SCRATCH TSE=T SLTH=F;
echo " MPLS_STATION_TCAM";
tr 50 M=MPLS_STATION_TCAM;
tr 51 M=MPLS_STATION_TCAM;
tr 52 M=MPLS_STATION_TCAM;
tr 71 M=MPLS_STATION_TCAM TSE=F SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=T;
tr 71 M=MPLS_STATION_TCAM TSE=T SLTH=F;
echo " NONUCAST_TRUNK_BLOCK_MASK";
tr 50 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 51 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 52 M=NONUCAST_TRUNK_BLOCK_MASK;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=F SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=T;
tr 71 M=NONUCAST_TRUNK_BLOCK_MASK TSE=T SLTH=F;
echo " PHB2_COS_MAP";
tr 50 M=PHB2_COS_MAP;
tr 51 M=PHB2_COS_MAP;
tr 52 M=PHB2_COS_MAP;
tr 71 M=PHB2_COS_MAP TSE=F SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=T;
tr 71 M=PHB2_COS_MAP TSE=T SLTH=F;
echo " PORT_CBL_TABLE";
tr 50 M=PORT_CBL_TABLE;
tr 51 M=PORT_CBL_TABLE;
tr 52 M=PORT_CBL_TABLE;
tr 71 M=PORT_CBL_TABLE TSE=F SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=T;
tr 71 M=PORT_CBL_TABLE TSE=T SLTH=F;
echo " COS_MAP";
tr 50 M=COS_MAP;
tr 51 M=COS_MAP;
tr 52 M=COS_MAP;
tr 71 M=COS_MAP TSE=F SLTH=T;
```

```
tr 71 M=COS_MAP TSE=T SLTH=T;
tr 71 M=COS_MAP TSE=T SLTH=F;
echo " PORT_LAG_FAILOVER_SET";
tr 50 M=PORT_LAG_FAILOVER_SET;
tr 51 M=PORT_LAG_FAILOVER_SET;
tr 52 M=PORT_LAG_FAILOVER_SET;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=F SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=T;
tr 71 M=PORT_LAG_FAILOVER_SET TSE=T SLTH=F;
echo " MAC_LIMIT_COUNT_TABLE";
tr 50 M=MAC_LIMIT_COUNT_TABLE;
tr 51 M=MAC_LIMIT_COUNT_TABLE;
tr 52 M=MAC_LIMIT_COUNT_TABLE;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=F SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=T;
tr 71 M=MAC_LIMIT_COUNT_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_MAC_LIMIT_CONTROL_1";
tr 50 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 51 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 52 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_MAC_LIMIT_CONTROL_1 TSE=T SLTH=F;
echo " PORT";
tr 50 M=PORT;
tr 51 M=PORT;
tr 52 M=PORT;
tr 71 M=PORT TSE=F SLTH=T;
tr 71 M=PORT TSE=T SLTH=T;
tr 71 M=PORT TSE=T SLTH=F;
echo " RMEP";
tr 50 M=RMEP;
tr 51 M=RMEP;
tr 52 M=RMEP;
tr 71 M=RMEP TSE=F SLTH=T;
tr 71 M=RMEP TSE=T SLTH=T;
tr 71 M=RMEP TSE=T SLTH=F;
echo " SOURCE_MOD_PROXY";
tr 50 M=SOURCE_MOD_PROXY;
tr 51 M=SOURCE_MOD_PROXY;
tr 52 M=SOURCE_MOD_PROXY;
tr 71 M=SOURCE_MOD_PROXY TSE=F SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=T;
tr 71 M=SOURCE_MOD_PROXY TSE=T SLTH=F;
echo " SOURCE_TRUNK_MAP";
tr 50 M=SOURCE_TRUNK_MAP;
tr 51 M=SOURCE_TRUNK_MAP;
tr 52 M=SOURCE_TRUNK_MAP;
```

```
tr 71 M=SOURCE_TRUNK_MAP TSE=F SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=T;
tr 71 M=SOURCE_TRUNK_MAP TSE=T SLTH=F;
echo " SOURCE_VP";
tr 50 M=SOURCE_VP;
tr 51 M=SOURCE_VP;
tr 52 M=SOURCE_VP;
tr 71 M=SOURCE_VP TSE=F SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=T;
tr 71 M=SOURCE_VP TSE=T SLTH=F;
echo " SRC_MODID_EGRESS";
tr 50 M=SRC_MODID_EGRESS;
tr 51 M=SRC_MODID_EGRESS;
tr 52 M=SRC_MODID_EGRESS;
tr 71 M=SRC_MODID_EGRESS TSE=F SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=T;
tr 71 M=SRC_MODID_EGRESS TSE=T SLTH=F;
echo " SRC_MODID_INGRESS_BLOCK";
tr 50 M=SRC_MODID_INGRESS_BLOCK;
tr 51 M=SRC_MODID_INGRESS_BLOCK;
tr 52 M=SRC_MODID_INGRESS_BLOCK;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=F SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=T;
tr 71 M=SRC_MODID_INGRESS_BLOCK TSE=T SLTH=F;
echo " VLAN_STG";
tr 50 M=VLAN_STG;
tr 51 M=VLAN_STG;
tr 52 M=VLAN_STG;
tr 71 M=VLAN_STG TSE=F SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=T;
tr 71 M=VLAN_STG TSE=T SLTH=F;
echo " SYSTEM_CONFIG_TABLE";
tr 50 M=SYSTEM_CONFIG_TABLE;
tr 51 M=SYSTEM_CONFIG_TABLE;
tr 52 M=SYSTEM_CONFIG_TABLE;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=SYSTEM_CONFIG_TABLE TSE=T SLTH=F;
echo " SYS_PORTMAP";
tr 50 M=SYS_PORTMAP;
tr 51 M=SYS_PORTMAP;
tr 52 M=SYS_PORTMAP;
tr 71 M=SYS_PORTMAP TSE=F SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=T;
tr 71 M=SYS_PORTMAP TSE=T SLTH=F;
echo " TCP_FN";
tr 50 M=TCP_FN;
tr 51 M=TCP_FN;
```

```
tr 52 M=TCP_FN;
tr 71 M=TCP_FN TSE=F SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=T;
tr 71 M=TCP_FN TSE=T SLTH=F;
echo " TOS_FN";
tr 50 M=TOS_FN;
tr 51 M=TOS_FN;
tr 52 M=TOS_FN;
tr 71 M=TOS_FN TSE=F SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=T;
tr 71 M=TOS_FN TSE=T SLTH=F;
echo " TRUNK32_CONFIG_TABLE";
tr 50 M=TRUNK32_CONFIG_TABLE;
tr 51 M=TRUNK32_CONFIG_TABLE;
tr 52 M=TRUNK32_CONFIG_TABLE;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_CONFIG_TABLE TSE=T SLTH=F;
echo " TRUNK32_PORT_TABLE";
tr 50 M=TRUNK32_PORT_TABLE;
tr 51 M=TRUNK32_PORT_TABLE;
tr 52 M=TRUNK32_PORT_TABLE;
tr 71 M=TRUNK32_PORT_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK32_PORT_TABLE TSE=T SLTH=F;
echo " TRUNK_BITMAP";
tr 50 M=TRUNK_BITMAP;
tr 51 M=TRUNK_BITMAP;
tr 52 M=TRUNK_BITMAP;
tr 71 M=TRUNK_BITMAP TSE=F SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=T;
tr 71 M=TRUNK_BITMAP TSE=T SLTH=F;
echo " TRUNK_CBL_TABLE";
tr 50 M=TRUNK_CBL_TABLE;
tr 51 M=TRUNK_CBL_TABLE;
tr 52 M=TRUNK_CBL_TABLE;
tr 71 M=TRUNK_CBL_TABLE TSE=F SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=T;
tr 71 M=TRUNK_CBL_TABLE TSE=T SLTH=F;
echo " PORT_TRUNK_EGRESS";
tr 50 M=PORT_TRUNK_EGRESS;
tr 51 M=PORT_TRUNK_EGRESS;
tr 52 M=PORT_TRUNK_EGRESS;
tr 71 M=PORT_TRUNK_EGRESS TSE=F SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=T;
tr 71 M=PORT_TRUNK_EGRESS TSE=T SLTH=F;
echo " TRUNK_GROUP";
tr 50 M=TRUNK_GROUP;
```

```
tr 51 M=TRUNK_GROUP;
tr 52 M=TRUNK_GROUP;
tr 71 M=TRUNK_GROUP TSE=F SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=T;
tr 71 M=TRUNK_GROUP TSE=T SLTH=F;
echo " TTL_FN";
tr 50 M=TTL_FN;
tr 51 M=TTL_FN;
tr 52 M=TTL_FN;
tr 71 M=TTL_FN TSE=F SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=T;
tr 71 M=TTL_FN TSE=T SLTH=F;
echo " VFI";
tr 50 M=VFI;
tr 51 M=VFI;
tr 52 M=VFI;
tr 71 M=VFI TSE=F SLTH=T;
tr 71 M=VFI TSE=T SLTH=T;
tr 71 M=VFI TSE=T SLTH=F;
echo " VFI_1";
tr 50 M=VFI_1;
tr 51 M=VFI_1;
tr 52 M=VFI_1;
tr 71 M=VFI_1 TSE=F SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=T;
tr 71 M=VFI_1 TSE=T SLTH=F;
echo " VFP_POLICY_TABLE";
tr 50 M=VFP_POLICY_TABLE;
tr 51 M=VFP_POLICY_TABLE;
tr 52 M=VFP_POLICY_TABLE;
tr 71 M=VFP_POLICY_TABLE TSE=F SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=T;
tr 71 M=VFP_POLICY_TABLE TSE=T SLTH=F;
echo " VFP_TCAM";
tr 50 M=VFP_TCAM;
tr 51 M=VFP_TCAM;
tr 52 M=VFP_TCAM;
tr 71 M=VFP_TCAM TSE=F SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=T;
tr 71 M=VFP_TCAM TSE=T SLTH=F;
echo " VLAN_COS_MAP";
tr 50 M=VLAN_COS_MAP;
tr 51 M=VLAN_COS_MAP;
tr 52 M=VLAN_COS_MAP;
tr 71 M=VLAN_COS_MAP TSE=F SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=T;
tr 71 M=VLAN_COS_MAP TSE=T SLTH=F;
echo " VLAN_MAC";
```

```
tr 50 M=VLAN_MAC;
tr 51 M=VLAN_MAC;
tr 52 M=VLAN_MAC;
tr 71 M=VLAN_MAC TSE=F SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=T;
tr 71 M=VLAN_MAC TSE=T SLTH=F;
echo " VLAN_MAC_SCRATCH";
tr 50 M=VLAN_MAC_SCRATCH;
#tr 51 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_MAC_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_MAC_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_MAC_SCRATCH TSE=T SLTH=F;
echo " VLAN_MPLS";
tr 50 M=VLAN_MPLS;
tr 51 M=VLAN_MPLS;
tr 52 M=VLAN_MPLS;
tr 71 M=VLAN_MPLS TSE=F SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=T;
tr 71 M=VLAN_MPLS TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_COUNT";
tr 50 M=VLAN_OR_VFI_MAC_COUNT;
tr 51 M=VLAN_OR_VFI_MAC_COUNT;
tr 52 M=VLAN_OR_VFI_MAC_COUNT;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_COUNT TSE=T SLTH=F;
echo " VLAN_OR_VFI_MAC_LIMIT";
tr 50 M=VLAN_OR_VFI_MAC_LIMIT;
tr 51 M=VLAN_OR_VFI_MAC_LIMIT;
tr 52 M=VLAN_OR_VFI_MAC_LIMIT;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=F SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=T;
tr 71 M=VLAN_OR_VFI_MAC_LIMIT TSE=T SLTH=F;
echo " VLAN_PROFILE_2";
tr 50 M=VLAN_PROFILE_2;
tr 51 M=VLAN_PROFILE_2;
tr 52 M=VLAN_PROFILE_2;
tr 71 M=VLAN_PROFILE_2 TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE_2 TSE=T SLTH=F;
echo " VLAN_PROFILE";
tr 50 M=VLAN_PROFILE;
tr 51 M=VLAN_PROFILE;
tr 52 M=VLAN_PROFILE;
tr 71 M=VLAN_PROFILE TSE=F SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=T;
tr 71 M=VLAN_PROFILE TSE=T SLTH=F;
```

```
echo " VLAN_PROTOCOL";
tr 50 M=VLAN_PROTOCOL;
tr 51 M=VLAN_PROTOCOL;
tr 52 M=VLAN_PROTOCOL;
tr 71 M=VLAN_PROTOCOL TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL TSE=T SLTH=F;
echo " VLAN_PROTOCOL_DATA";
tr 50 M=VLAN_PROTOCOL_DATA;
tr 51 M=VLAN_PROTOCOL_DATA;
tr 52 M=VLAN_PROTOCOL_DATA;
tr 71 M=VLAN_PROTOCOL_DATA TSE=F SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=T;
tr 71 M=VLAN_PROTOCOL_DATA TSE=T SLTH=F;
echo " VLAN_SUBNET";
tr 50 M=VLAN_SUBNET;
tr 51 M=VLAN_SUBNET;
tr 52 M=VLAN_SUBNET;
tr 71 M=VLAN_SUBNET TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET TSE=T SLTH=F;
echo " VLAN_SUBNET_DATA_ONLY";
tr 50 M=VLAN_SUBNET_DATA_ONLY;
tr 51 M=VLAN_SUBNET_DATA_ONLY;
tr 52 M=VLAN_SUBNET_DATA_ONLY;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_DATA_ONLY TSE=T SLTH=F;
echo " VLAN_SUBNET_ONLY";
tr 50 M=VLAN_SUBNET_ONLY;
tr 51 M=VLAN_SUBNET_ONLY;
tr 52 M=VLAN_SUBNET_ONLY;
tr 71 M=VLAN_SUBNET_ONLY TSE=F SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=T;
tr 71 M=VLAN_SUBNET_ONLY TSE=T SLTH=F;
echo " VLAN";
tr 50 M=VLAN;
tr 51 M=VLAN;
tr 52 M=VLAN;
tr 71 M=VLAN TSE=F SLTH=T;
tr 71 M=VLAN TSE=T SLTH=T;
tr 71 M=VLAN TSE=T SLTH=F;
echo " VLAN_XLATE";
tr 50 M=VLAN_XLATE;
tr 51 M=VLAN_XLATE;
tr 52 M=VLAN_XLATE;
tr 71 M=VLAN_XLATE TSE=F SLTH=T;
tr 71 M=VLAN_XLATE TSE=T SLTH=T;
```

```
tr 71 M=VLAN_XLATE TSE=T SLTH=F;
echo " VLAN_XLATE_SCRATCH";
tr 50 M=VLAN_XLATE_SCRATCH;
#tr 51 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
#tr 52 M=VLAN_XLATE_SCRATCH # test not supported on single-entry tables;
tr 71 M=VLAN_XLATE_SCRATCH TSE=F SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=T;
tr 71 M=VLAN_XLATE_SCRATCH TSE=T SLTH=F;
echo " VRF";
tr 50 M=VRF;
tr 51 M=VRF;
tr 52 M=VRF;
tr 71 M=VRF TSE=F SLTH=T;
tr 71 M=VRF TSE=T SLTH=T;
tr 71 M=VRF TSE=T SLTH=F;
echo " WLAN_SVP_TABLE";
tr 50 M=WLAN_SVP_TABLE;
tr 51 M=WLAN_SVP_TABLE;
tr 52 M=WLAN_SVP_TABLE;
tr 71 M=WLAN_SVP_TABLE TSE=F SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=T;
tr 71 M=WLAN_SVP_TABLE TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport0";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport0";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport0 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport1";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport1";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport1 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport2";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport2";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport2 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_RX_TUNNEL_MASK.gxport3";
tr 50 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 51 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
tr 52 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3;
```

```
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_RX_TUNNEL_MASK.gxport3 TSE=T SLTH=F;
echo " XPORT_EHG_TX_TUNNEL_DATA.gxport3";
tr 50 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 51 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 52 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=F SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=T;
tr 71 M=XPORT_EHG_TX_TUNNEL_DATA.gxport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport0";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport0";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport0 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport2";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport2";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
```

```
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport2 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport3";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport3";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport3 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_RX_TUNNEL_MASK.xqport5";
tr 50 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 51 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 52 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_RX_TUNNEL_MASK.xqport5 TSE=T SLTH=F;
echo " XQPORT_EHG_TX_TUNNEL_DATA.xqport5";
tr 50 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 51 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 52 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=F SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=T;
tr 71 M=XQPORT_EHG_TX_TUNNEL_DATA.xqport5 TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_RX_TUNNEL_DATA;
```

```
tr 51 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_RX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_DATA TSE=T SLTH=F;
echo " SPORT_EHG_RX_TUNNEL_MASK";
tr 50 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 51 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 52 M=SPORT_EHG_RX_TUNNEL_MASK;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=F SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=T;
tr 71 M=SPORT_EHG_RX_TUNNEL_MASK TSE=T SLTH=F;
echo " SPORT_EHG_TX_TUNNEL_DATA";
tr 50 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 51 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 52 M=SPORT_EHG_TX_TUNNEL_DATA;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=F SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=T;
tr 71 M=SPORT_EHG_TX_TUNNEL_DATA TSE=T SLTH=F;

# Deal with external memories, if configured
echo " EXT_L2_MOD_FIFO";
tr 50 M=EXT_L2_MOD_FIFO;
tr 51 M=EXT_L2_MOD_FIFO;
tr 52 M=EXT_L2_MOD_FIFO;
if !$?full_test \
  "local iter_cmd 'ITER=4' "
if $?ext_ip4c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV4"; \
   tr 50 M=EXT_ACL144_TCAM_IPV4; \
   tr 51 M=EXT_ACL144_TCAM_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_ACL144_TCAM_IPV6"; \
   tr 50 M=EXT_ACL144_TCAM_IPV6; \
   tr 51 M=EXT_ACL144_TCAM_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_ACL144_TCAM_L2"; \
   tr 50 M=EXT_ACL144_TCAM_L2; \
   tr 51 M=EXT_ACL144_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL144_TCAM_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_ACL288_TCAM_IPV4"; \
   tr 50 M=EXT_ACL288_TCAM_IPV4; \
   tr 51 M=EXT_ACL288_TCAM_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL288_TCAM_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
```

```
  'echo " EXT_ACL288_TCAM_L2"; \
   tr 50 M=EXT_ACL288_TCAM_L2; \
   tr 51 M=EXT_ACL288_TCAM_L2 $iter_cmd; \
   tr 52 M=EXT_ACL288_TCAM_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
   tr 50 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT; \
   tr 51 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_MASK (tr 50 only)"; \
   tr 50 M=EXT_ACL360_TCAM_MASK;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_IPV6_LONG; \
   tr 51 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV4; \
   tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
   tr 50 M=EXT_ACL432_TCAM_DATA_L2_IPV6; \
   tr 51 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_ACL432_TCAM_DATA_L2_IPV6 $iter_cmd;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
 $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_MASK (tr 50 only)"; \
   tr 50 M=EXT_ACL432_TCAM_MASK;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV4"; \
   tr 50 M=EXT_DEFIP_DATA_IPV4; \
   tr 51 M=EXT_DEFIP_DATA_IPV4 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_64"; \
   tr 50 M=EXT_DEFIP_DATA_IPV6_64; \
   tr 51 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_128"; \
   tr 50 M=EXT_DEFIP_DATA_IPV6_128; \
   tr 51 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd; \
   tr 52 M=EXT_DEFIP_DATA_IPV6_128 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_DST_HIT_BITS_IPV4"; \
```

```
    tr 50 M=EXT_DST_HIT_BITS_IPV4; \
    tr 51 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 50 M=EXT_DST_HIT_BITS_IPV6_64; \
    tr 51 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 50 M=EXT_DST_HIT_BITS_IPV6_128; \
    tr 51 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 50 M=EXT_DST_HIT_BITS_L2; \
    tr 51 M=EXT_DST_HIT_BITS_L2 $iter_cmd; \
    tr 52 M=EXT_DST_HIT_BITS_L2 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL144_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV6"; \
    tr 50 M=EXT_FP_CNTR_ACL144_IPV6; \
    tr 51 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_L2"; \
    tr 50 M=EXT_FP_CNTR_ACL144_L2; \
    tr 51 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_IPV4"; \
    tr 50 M=EXT_FP_CNTR_ACL288_IPV4; \
    tr 51 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_L2"; \
    tr 50 M=EXT_FP_CNTR_ACL288_L2; \
    tr 51 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_CNTR_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_CNTR_ACL360_IPV6_SHORT $iter_cmd;'
```

```
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_CNTR_ACL432_IPV6_LONG; \
   tr 51 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
   tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV4; \
   tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
   tr 50 M=EXT_FP_CNTR_ACL432_L2_IPV6; \
   tr 51 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_IPV4"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_IPV4; \
   tr 51 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_IPV6"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_IPV6; \
   tr 51 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL144_L2"; \
   tr 50 M=EXT_FP_CNTR8_ACL144_L2; \
   tr 51 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL288_IPV4"; \
   tr 50 M=EXT_FP_CNTR8_ACL288_IPV4; \
   tr 51 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL288_L2"; \
   tr 50 M=EXT_FP_CNTR8_ACL288_L2; \
   tr 51 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL360_IPV6_SHORT"; \
   tr 50 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT; \
   tr 51 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd; \
   tr 52 M=EXT_FP_CNTR8_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR8_ACL432_IPV6_LONG"; \
   tr 50 M=EXT_FP_CNTR8_ACL432_IPV6_LONG; \
```

```
    tr 51 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV4"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV4; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_CNTR8_ACL432_L2_IPV6"; \
    tr 50 M=EXT_FP_CNTR8_ACL432_L2_IPV6; \
    tr 51 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_CNTR8_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV4 $iter_cmd;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_IPV6"; \
    tr 50 M=EXT_FP_POLICY_ACL144_IPV6; \
    tr 51 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_IPV6 $iter_cmd;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_POLICY_ACL144_L2"; \
    tr 50 M=EXT_FP_POLICY_ACL144_L2; \
    tr 51 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL144_L2 $iter_cmd;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_IPV4"; \
    tr 50 M=EXT_FP_POLICY_ACL288_IPV4; \
    tr 51 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL288_IPV4 $iter_cmd;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_POLICY_ACL288_L2"; \
    tr 50 M=EXT_FP_POLICY_ACL288_L2; \
    tr 51 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL288_L2 $iter_cmd;'
if $?ext_ip6s_acl_table_size \
   'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
    tr 50 M=EXT_FP_POLICY_ACL360_IPV6_SHORT; \
    tr 51 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL360_IPV6_SHORT $iter_cmd;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
    tr 50 M=EXT_FP_POLICY_ACL432_IPV6_LONG; \
    tr 51 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd; \
    tr 52 M=EXT_FP_POLICY_ACL432_IPV6_LONG $iter_cmd;'
if $?ext_l2ip4_acl_table_size \
```

```
  'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
   tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV4; \
   tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV4 $iter_cmd;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
   tr 50 M=EXT_FP_POLICY_ACL432_L2_IPV6; \
   tr 51 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd; \
   tr 52 M=EXT_FP_POLICY_ACL432_L2_IPV6 $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP"; \
   tr 50 M=EXT_IPV4_DEFIP; \
   tr 51 M=EXT_IPV4_DEFIP $iter_cmd; \
   tr 52 M=EXT_IPV4_DEFIP $iter_cmd;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_IPV4_DEFIP_TCAM"; \
   tr 50 M=EXT_IPV4_DEFIP_TCAM; \
   tr 51 M=EXT_IPV4_DEFIP_TCAM $iter_cmd; \
   tr 52 M=EXT_IPV4_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP"; \
   tr 50 M=EXT_IPV6_128_DEFIP; \
   tr 51 M=EXT_IPV6_128_DEFIP $iter_cmd; \
   tr 52 M=EXT_IPV6_128_DEFIP $iter_cmd;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_IPV6_128_DEFIP_TCAM"; \
   tr 50 M=EXT_IPV6_128_DEFIP_TCAM; \
   tr 51 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd; \
   tr 52 M=EXT_IPV6_128_DEFIP_TCAM $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP"; \
   tr 50 M=EXT_IPV6_64_DEFIP; \
   tr 51 M=EXT_IPV6_64_DEFIP $iter_cmd; \
   tr 52 M=EXT_IPV6_64_DEFIP $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_IPV6_64_DEFIP_TCAM"; \
   tr 50 M=EXT_IPV6_64_DEFIP_TCAM; \
   tr 51 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd; \
   tr 52 M=EXT_IPV6_64_DEFIP_TCAM $iter_cmd;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_L2_ENTRY_DATA"; \
   tr 50 M=EXT_L2_ENTRY_DATA; \
   tr 51 M=EXT_L2_ENTRY_DATA $iter_cmd; \
   tr 52 M=EXT_L2_ENTRY_DATA $iter_cmd;'
if $?ext_l2_fwd_table_size \
  'echo " EXT_L2_ENTRY_TCAM"; \
   tr 50 M=EXT_L2_ENTRY_TCAM; \
   tr 51 M=EXT_L2_ENTRY_TCAM $iter_cmd; \
```

```
    tr 52 M=EXT_L2_ENTRY_TCAM $iter_cmd;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV4; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV4 $iter_cmd;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_64; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_64 $iter_cmd;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 50 M=EXT_SRC_HIT_BITS_IPV6_128; \
    tr 51 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_IPV6_128 $iter_cmd;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 50 M=EXT_SRC_HIT_BITS_L2; \
    tr 51 M=EXT_SRC_HIT_BITS_L2 $iter_cmd; \
    tr 52 M=EXT_SRC_HIT_BITS_L2 $iter_cmd;'
$done

echo " EXT_L2_MOD_FIFO";
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=F SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=T;
tr 71 M=EXT_L2_MOD_FIFO S=0 C=0 TSE=T SLTH=F;
if $?ext_ip4c_acl_table_size \
   'echo " EXT_ACL144_TCAM_IPV4"; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_ACL144_TCAM_IPV6"; \
    tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_ACL144_TCAM_L2"; \
    tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL144_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_ACL288_TCAM_IPV4"; \
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_ACL288_TCAM_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
```

```
  'echo " EXT_ACL288_TCAM_L2"; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL288_TCAM_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_DATA_IPV6_SHORT"; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_DATA_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_ACL360_TCAM_MASK"; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL360_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_IPV6_LONG"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV4"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_DATA_L2_IPV6"; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_DATA_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size || $?ext_l2ip4_acl_table_size || \
 $?ext_l2ip6_acl_table_size \
  'echo " EXT_ACL432_TCAM_MASK"; \
   tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_ACL432_TCAM_MASK S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV4"; \
   tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_DEFIP_DATA_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_64"; \
   tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_DEFIP_DATA_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
  'echo " EXT_DEFIP_DATA_IPV6_128"; \
   tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
```

```
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DEFIP_DATA_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV4"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_DST_HIT_BITS_L2"; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_DST_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_IPV6"; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
   'echo " EXT_FP_CNTR_ACL144_L2"; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_IPV4"; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
   'echo " EXT_FP_CNTR_ACL288_L2"; \
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_CNTR_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
```

```
  'echo " EXT_FP_CNTR_ACL360_IPV6_SHORT"; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_IPV6_LONG"; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV4"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
  'echo " EXT_FP_CNTR_ACL432_L2_IPV6"; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_CNTR_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV4"; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_IPV6"; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2c_acl_table_size \
  'echo " EXT_FP_POLICY_ACL144_L2"; \
   tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL144_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_acl_table_size \
  'echo " EXT_FP_POLICY_ACL288_IPV4"; \
   tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL288_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_acl_table_size \
  'echo " EXT_FP_POLICY_ACL288_L2"; \
   tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL288_L2 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6s_acl_table_size \
  'echo " EXT_FP_POLICY_ACL360_IPV6_SHORT"; \
   tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=F SLTH=T; \
   tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=T; \
```

```
    tr 71 M=EXT_FP_POLICY_ACL360_IPV6_SHORT S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6f_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_IPV6_LONG"; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_IPV6_LONG S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip4_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV4"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2ip6_acl_table_size \
   'echo " EXT_FP_POLICY_ACL432_L2_IPV6"; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_FP_POLICY_ACL432_L2_IPV6 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP"; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_IPV4_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV4_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP"; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_IPV6_128_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_128_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP"; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_IPV6_64_DEFIP_TCAM"; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_IPV6_64_DEFIP_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_DATA"; \
```

```
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_DATA S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_L2_ENTRY_TCAM"; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_L2_ENTRY_TCAM S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip4_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV4"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV4 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6u_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_64"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_64 S=0 C=0 TSE=T SLTH=F;'
if $?ext_ip6_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_IPV6_128"; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_IPV6_128 S=0 C=0 TSE=T SLTH=F;'
if $?ext_l2_fwd_table_size \
   'echo " EXT_SRC_HIT_BITS_L2"; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=F SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=T; \
    tr 71 M=EXT_SRC_HIT_BITS_L2 S=0 C=0 TSE=T SLTH=F;'
$done

# Re-initialize to clean up of various read/wrires to MMU memories
set rct=true
rcload rc.soc
counter off
l2mode off
linkscan off

echo "Running counter width verification test ..."
tr 30
$done

echo "Running counter read/write test ..."
tr 31
$done

#L2/L3 hashing tests
echo "Running L2 insert/delete/lookup test ..."
tr 32
```

```
$done

echo "Running L2 overflow insert test ..."
tr 33
$done

echo "Running L2 hash test ..."
tr 34
$done

echo "Running L2 delete by port test ..."
tr 35
$done

echo "Running L2 delete by vlan test ..."
tr 36
$done

echo "Running IPV4 overflow insert test ..."
tr 87 IPMCEnable=False
tr 87 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 88 IPMCEnable=False
tr 88 IPMCEnable=True
$done

echo "Running IPV6 overflow insert test ..."
tr 85 IPMCEnable=False
tr 85 IPMCEnable=True
$done

echo "Running IPV6 hash test ..."
tr 86 IPMCEnable=False
tr 86 IPMCEnable=True
$done

echo "Running VLAN translate overflow insert test ..."
tr 100

echo "Running VLAN translate hash tests ..."
tr 101 hash=0
tr 101 hash=1
tr 101 hash=2
tr 101 hash=3
tr 101 hash=4
tr 101 hash=5
```

```
$done

echo "Running Egress VLAN translate overflow insert test ..."
tr 102
$done

echo "Running Egress VLAN translate hash tests ..."
tr 103 hash=0
tr 103 hash=1
tr 103 hash=2
tr 103 hash=3
tr 103 hash=4
tr 103 hash=5
$done

echo "Running MPLS overflow insert test ..."
tr 104
$done

echo "Running MPLS hash tests ..."
tr 105 hash=0
tr 105 hash=1
tr 105 hash=2
tr 105 hash=3
tr 105 hash=4
tr 105 hash=5
$done

echo "Running MDIO Linkscan test"
tr 60 readcount=10000
$done

echo "Testing CPU DMA loopback ..."
tr 17 c=5
$done

echo "Testing CPU DMA, Scatter/Gather Reload ..."
tr 22
$done

echo "Testing CPU DMA, Scatter/Gather Simple ..."
tr 23
$done

echo "Testing CPU DMA, Scatter/Gather Random ..."
tr 24
$done
```

```
#MAC Loopback
echo "Testing MAC Loopback - 10 Mb/s all GE ports"
tr 18 pbm=ge0 speed=10
$done

echo "Testing MAC Loopback - 100 Mb/s all GE ports"
tr 18 pbm=ge0 speed=100
$done

echo "Testing MAC Loopback - 1000 Mb/s all GE ports"
tr 18 pbm=ge0 speed=1000
$done

echo "Testing MAC Loopback - 10 Gb/s all XE ports"
tr 18 pbm=xe speed=10G
$done

echo "Testing MAC Loopback - 10 Gb/s all HG ports"
tr 18 pbm=hg speed=10G
$done

echo "Testing MAC Loopback - 12 Gb/s all HG ports"
tr 18 pbm=hg speed=12G
$done

echo "Testing MAC Loopback - 20/24 Gb/s all HG ports"
tr 18 pbm=hg speed=MAX
$done

#PHY Loopback
echo "Testing PHY Loopback - 10 Mb/s all GE ports"
tr 19 pbm=ge0 speed=10
$done

echo "Testing PHY Loopback - 100 Mb/s all GE ports"
tr 19 pbm=ge0 speed=100
$done

echo "Testing PHY Loopback - 1000 Mb/s all GE ports"
tr 19 pbm=ge0 speed=1000
$done

echo "Testing PHY Loopback - 10 Gb/s all XE ports"
tr 19 pbm=xe speed=10G
$done

echo "Testing PHY Loopback - 10 Gb/s all HG ports"
tr 19 pbm=hg speed=10G
```

```
$done

echo "Testing PHY Loopback - 12 Gb/s all HG ports"
tr 19 pbm=hg speed=12G
$done

echo "Testing PHY Loopback - 20/24 Gb/s all HG ports"
tr 19 pbm=hg speed=MAX;

echo "Running MAC loopback V2 on all ports ..."
tr 48 smi=103 dmi=42 vlan=5 pi=0x11335577 sendm=single pbm=ge0,hg
$done

echo "Running PHY loopback V2 on all ports ..."
tr 49 smi=52 dmi=83 vlan=23 pi=0x01204007 pbm=ge0,hg
$done

#Traffic Test
echo "Running Traffic Test in MAC mode ..."
tr 72 RM=MAC PBM=hg
$done

echo "Running Traffic Test in PHY mode ..."
tr 72 RM=PHY PBM=hg
$done

#SNMP
echo "SNMP MIB Object Test"
tr 73

echo "Running Soft Error Recovery test..."
linkscan off
tr 144
$done

# Show status
date
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
config refresh
rcload rc.soc
counter off
l2mode off

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
```

```
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/bcm56638sanity.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_ap_shim.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* $All Rights Reserved.$
*
* TDM chip to core API shim layer
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/apache/tdm_ap_shim.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: bcm1250MacEnd.c,v 1.3 2011/07/21 16:14:48 yshtil Exp $
* Copyright 2000,2001
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license to Wind River Systems, Inc.
* and may be used only in accordance with the terms and conditions of
* this license.  No title or ownership is transferred hereby.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/nsx/vxworks6x/bcm1125/bcm1250MacEnd.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: vlan.c,v 1.236 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Soc_petra-B VLAN Implementation
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/dpp/vlan.c

No license file was found, but licenses were detected in source scan.

```
/*
* From FreeBSD 2.2.7: Fundamental constants relating to ethernet.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: ethernet.h,v 1.2 Broadcom SDK $
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/proto/ethernet.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_stg.c,v 1.7 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_stg.c
* Purpose: Example of simple spanning-tree group configuration
*
* Default settings:
* It is assumed diag_init is executed:
*  o    All ports set with TPID 0x8100 and all packet formats (tagged/untagged) are accepted.
*  o    PVID of all ports set to VID = 1, thus untagged packet is associated to VLAN 1.
*  o    By default, learning is managed by device without interference from the CPU.
*  o    By default, aging is disabled.
*  o    All VLANs are mapped to Default STG (0).
*  o    STP state of all ports in default topology is set to forwarding.
*
* Note: Without running diag_init, ports are not associated with any TPID,
*       and thus all packets would be considered as untagged.
*       Besides, only untagged packets are accepted.
*
* Settings include:
*  o    Creating one STG.
*  o    Creating 2 VLANs.
*  o    Adding the VLANs to the stg.
*  o    Connecting the stg with 2 ports, for first port with stp state forward
*       and the second one with stp state block.
*
* Application Sequence:
*  o    Run application: main()
*  o    Add mac entries that forward traffic with the two vids from the two ports to a third port.
*  o    Send packets with one of the VLANs (in our example, vid = 100 or 300) on first port
*       (in our example, port 1) and check that it is indeed forwarded to the third port.
```

```
*  o    Send packets with one of the VLANs (in our example, vid = 100 or 300) on second port
*       (in our example, port 2) and see that it is dropped.
*  o    To delete the VLANs and stg that were created for the test use stg_revert().
*  o    Set bandwidth limitation of 500 Mbps on scheduler.
*
* Note: You can modify the ports, the VLANs, and the stp states that the script uses by changing
*       the values in the init() function.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_stg.c
No license file was found, but licenses were detected in source scan.

```
/* Copyright (c) 1999,2001,2003,2005 Wind River Systems, Inc. All Rights Reserved */
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/sysBusPci.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sysBusPci.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: ppd_api_llp_filter.h,v 1.8 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
/*****************************************************************
*
* FILENAME:       DuneDriver/ppd/include/soc_ppd_api_llp_filter.h
*
* MODULE PREFIX:  soc_ppd_llp
*
* FILE DESCRIPTION:
*
* REMARKS:
* SW License Agreement: Dune Networks (c). CONFIDENTIAL PROPRIETARY INFORMATION.
* Any use of this Software is subject to Software License Agreement
* included in the Driver User Manual of this device.
* Any use of this Software constitutes an agreement to the terms
* of the above Software License Agreement.
*****************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/PPD/ppd_api_llp_filter.h

No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
*****************************************************************************
*                                                                           *
*  Revision     :  $Id$ *
*                                                                           *
*  Description   :  Register access macros for EAGLE2_TSC2PLL                    *
*                                                                           *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                    *
*  No portions of this material may be reproduced in any form without            *
*  the written permission of:                                          *
*     Broadcom Corporation                                              *
*     5300 California Avenue                                            *
*     Irvine, CA  92617                                                 *
*                                                                           *
*  All information contained in this document is Broadcom Corporation            *
*  company private proprietary, and trade secret.                          *
*                                                                           *
*****************************************************************************
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/public/eagle2_tsc2pll_fields_public.h
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/eagle_dpll/tier1/eagle2_tsc2pll_fields.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.h,v 1.75 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       l2x.h
* Purpose:     Draco L2X hardware table manipulation support
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/l2x.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sflash.h,v 1.1 2013/12/02 08:34:59 kevinwu Exp $
* $Copyright: (c) 2013 Broadcom Corp.
* All Rights Reserved.$
*
```

* File: sflash.h
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/iproc/vxworks6x/bcm56450/sflash.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: sbZfKaQsE2QAddrConsole.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/sbx/qe2k/sbZfKaQsE2QAddrConsole.c
No license file was found, but licenses were detected in source scan.

/*
* $Id: nlmcmcrc.c,v 1.2.8.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/kbp/common/nlmcmcrc.c
No license file was found, but licenses were detected in source scan.

/* $Id: utils_dune_fpga_download.c,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/dpp/utils_dune_fpga_download.c
No license file was found, but licenses were detected in source scan.

/*
* Id
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_1588.c
* Purpose: 1588 protocol use examples

```
*
* BEFORE USING EXAMPLES IN THIS CINT:
* ------------------------------------:
* 1) 1588 is NOT SUPPORTED FOR ARAD A0, supported for ARAD B0 and above.
* 2) Make sure the Makefile used includes PTP feature.
* 3) Enable TS_PLL clock by enabling/un-commenting following soc property:
*     num_queues_pci.BCM88650=40
*     num_queues_uc1.BCM88650=8
*     custom_feature_ptp_cosq_port.BCM88650=204
*     ucode_port_204.BCM88650=CPU.40
*     tm_port_header_type_in_204.BCM88650=ETH
*     tm_port_header_type_out_204.BCM88650=ETH
*     tm_port_header_type_in_0.BCM88650=INJECTED_2
*     tm_port_header_type_out_0.BCM88650=TM
*     ext_1588_mac_enable_0.BCM88650=1
*     ext_1588_mac_enable_204.BCM88650=1
*     phy_1588_dpll_frequency_lock.BCM88650=1
*
*    (otherwise the TS clock would not run, as a result the CF won`t be updated)
* 4) In case the system contain more than one device, need to run Broadsync application (see 'Broadsync' section
below).
*
* Provides the following functionalities:
*
* - 1588 one/two step TC (Transparent clock).
* - trap/drop/snoop/fwd control over 1588 messages.
*
*    In transport clock mode, every fabric based system is observed by the network as a single transparent
*    clock entity, with the residence time calculated from the moment the PTP packet enters the system through
*    one port, to the time it exits through another.
*    when 1 step TC is enabled:
*       The system updates the correction field (CF) of Event messages
*    when 2 step TC is enabled:
*       The system records the TX time of Event messages in a FIFO (the application can later read the TX time from
the FIFO,
*       calculate residence time and update the relevant Follow up message)
*
*     Event Messages:
*       1. Sync
*       2. Delay_Req
*       3. Pdelay_Req
*       4. Pdelay_Resp
*     General Messages:
*       1. Announce
*       2. System
*       3. Follow_Up
*       4. Delay_Resp
*       5. Pdelay_Resp_Follow_Up
```

```
*       6. Management
*       7. Signaling
*
*    Supported 1588 encapsulations:
*      follwing 1588 encapsulations are supported:
*       1. 1588oE                    switched
*       2. 1588oUDPoIPoE             switched/IP routed
*       3. 1588oUDPoIPoIPoE          switched/IP routed/IP terminated
*       4. 1588oUDPoIPoMPLSoE        switched/MPLS routed/MPLS terminated
*       5. 1588oEoMPLSoE             switched/MPLS routed/MPLS terminated
*    CF update:
*       the CF (8 bytes) update is done in bytes number 2,3 (zero based).
*       additionally, least significant bit can be changed for internal use.
*
*    Broadsync:
*     1588 TC (Transparent clock) relay on clock synchronization between devices in the system i.e. Broadsync,
*     for Broadsync configuration see BCM shell "bs config" command (see example in cint_time.c).
*
*
*
*
*
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_1588.c
No license file was found, but licenses were detected in source scan.

```
/*
*
* $Id: cint_bfd_over_lag.c,v $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_bfd.c
* Purpose: Example of setting client/server BFD endpoint over LAG.
*
* Usage:
*
```

To run server example:

```
  cd
  cd ../../../../src/examples/dpp
  cint utility/cint_utils_l3.c
  cint cint_ip_route.c
```

```
  cint cint_bfd.c
  cint cint_bfd_over_lag.c
  cint cint_multi_device_utils.c
  cint
  int client_unit=0, server_unit=2;
  int port1=13,port2=14,port3=15;
  print bfd_endpoint_over_lag__init(port1,port2,client_unit,server_unit,15);
  print bfd_server_example(client_unit, server_unit);


*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/examples/dpp/cint_bfd_over_lag.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cosq.c,v 1.110 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* COS Queue Management
* Purpose: API to set different cosq, priorities, and scheduler registers.
*
* QE2000 Specific implementation
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/sbx/qe2000/cosq.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tdm_proc.c.$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
* All Rights Reserved.$
*
* TDM core operations
*/
/**
@name: tdm_core_prealloc
@param:
```

Unless special exceptions are needed for certain port speeds, this is the standard procedure to presort ports by speed

```
**/
/**
@name: tdm_core_postalloc
@param:

Unless special exceptions are needed for certain port speeds, this is the standard procedure to load time vectors into
TDM vector map
**/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/tdm/core/tdm_proc.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: CtcMcastApi.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     CtcMcastApi.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/CtcMcastApi.h
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       intenum.h
* Purpose:     Enumerated types for fields, memories, registers
* Supports:    bcm56504_a0
*              bcm56504_b0
*              bcm56314_a0
*              bcm56800_a0
*              bcm56514_a0
*              bcm56624_a0
*              bcm56624_b0
*              bcm56680_a0
```

```
*       bcm56680_b0
*       bcm56224_a0
*       bcm56224_b0
*       bcm56820_a0
*       bcm56725_a0
*       bcm53314_a0
*       bcm53324_a0
*       bcm56634_a0
*       bcm56634_b0
*       bcm56524_a0
*       bcm56524_b0
*       bcm56685_a0
*       bcm56685_b0
*       bcm56334_a0
*       bcm56334_b0
*       bcm88230_a0
*       bcm88230_b0
*       bcm88230_c0
*       bcm56840_a0
*       bcm56840_b0
*       bcm88650_a0
*       bcm88650_b0
*       bcm88660_a0
*       bcm2801pm_a0
*       bcm88202_a0
*       bcm88675_a0
*       bcm83207_a0
*       bcm83208_a0
*       bcm88732_a0
*       bcm56440_a0
*       bcm56440_b0
*       bcm88030_a0
*       bcm88030_a1
*       bcm88030_b0
*       bcm56640_a0
*       bcm88750_a0
*       bcm88750_b0
*       bcm88754_a0
*       bcm88950_a0
*       bcm88790_a0
*       bcm56850_a0
*       bcm56450_a0
*       bcm56450_b0
*       bcm56450_b1
*       bcm56340_a0
*       bcm56150_a0
*       bcm53400_a0
*       bcm56960_a0
```

```
*           bcm56860_a0
*           bcm56560_a0
*           bcm56560_b0
*           bcm56260_a0
*           bcm56260_b0
*           bcm88375_a0
*           bcm88470_a0
*           bcm88470_b0
*           bcm88270_a0
*           bcm8206_a0
*           bcm88675_b0
*           bcm88375_b0
*           bcm88680_a0
*           bcm88690_a0
*           bcm56160_a0
*           bcm56270_a0
*           bcm56965_a0
*           bcm56970_a0
*           bcm53570_a0
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/mcm/intenum.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: txrx.c,v 1.20 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       txrx.c
* Purpose:
* Requires:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/bcmx/txrx.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: sand_workload_status.c,v 1.5 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-

master/src/soc/dnx/legacy/SAND/Utils/sand_workload_status.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/SAND/Utils/sand_workload_status.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: mbcm_sat.h,v 1.73 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       mbcm_sat.h
* Purpose:     Multiplexing of the bcm layer for PP
*
* Different chip families require such different implementations
* of some basic BCM layer functionality that the functions are
* multiplexed to allow a fast runtime decision as to which function
* to call.  This file contains the basic declarations for this
* process.
*
*
* See internal/design/soft_arch/xgs_plan.txt for more info.
*
* Conventions:
*    MBCM_SAT is the multiplexed pp bcm prefix
*    _f is the function type declaration postfix
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/shared/mbcm_sat.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
--------------------------------------------------------------------------------
          IEEE 802.3 Table 28B-3 Flow Control Resolution
             Curt McDowell, Broadcom Corp. 04-14-04
                    Last Updated: 04-14-04
--------------------------------------------------------------------------------

In their local and remote advertisement registers, IEEE PHYs denote the
enabling of transmission and reception of pause frames in terms of a
PAUSE bit and an ASM_DIR bit.
```

IEEE 802.3-2000
Table 28B-2
Pause Encoding

PAUSE	ASM_DIR	TX	RX
0	0	0	0
0	1	1	0
1	0	1	1
1	1	0	1

IEEE 802.3-2000
Table 28B-3
Pause Resolution

Local		Remote		Local Resolution		Remote Resolution	
PAUSE	ASM_DIR	PAUSE	ASM_DIR	TX	RX	TX	RX
0	0	x	x	0	0	0	0
0	1	0	x	0	0	0	0
0	1	1	0	0	0	0	0
0	1	1	1	1	0	0	1
1	0	0	x	0	0	0	0
1	x	1	x	1	1	1	1
1	1	0	0	0	0	0	0
1	1	0	1	0	1	1	0

The Local Resolution portion of table, expressed as formulae:

Local Advert
LP = PAUSE
LA = ASM_DIR

Remote Advert
RP = PAUSE
RA = ASM_DIR

Local Resolution (MAC programming)
TX = Enable transmit of pause frames
RX = Enable receive of pause frames

(1) RX = LP RP + LP LA RA = LP (RP + LA RA)
(2) TX = LP RP + RP LA RA = RP (LP + LA RA)

Because the Broadcom PHY drivers return the advertisement information in terms of TX and RX enable, already converted from PAUSE/ASM_DIR, the formulae need to be converted to operate on TX and RX enable.

Local Advert
LT = TX pause
LR = RX pause

Remote Advert
RT = TX pause
RR = RX pause

MAC Result
TX = TX pause
RX = RX pause

Pause Resolution Truth Table

Local		Remote		Local Resolution	
LT	LR	RT	RR	TX	RX
0	0	0	0	0	0
0	0	0	1	0	0
0	0	1	0	0	0
0	0	1	1	0	0
0	1	0	0	0	0
0	1	0	1	1	1
0	1	1	0	0	1
0	1	1	1	1	1
1	0	0	0	0	0
1	0	0	1	1	0
1	0	1	0	0	0
1	0	1	1	0	0
1	1	0	0	0	0
1	1	0	1	1	1
1	1	1	0	0	0
1	1	1	1	1	1

(1) TX = LR RR + RR !RT LT = RR (LR + !RT LT)
(2) RX = LR RR + LR RT !LT = LR (RR + RT !LT)

These are the formulae used in bcm/esw/port.c:_bcm_port_update() to program the MAC TX/RX enables according to autonegotiation results.

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/doc/pause-resolution.txt
No license file was found, but licenses were detected in source scan.

```
/*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from the registers file.
* Edits to this file will be lost when it is regenerated.
*
* $Id: $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       bcm88675_a0.c
* Purpose:     bcm88675_a0 chip specific information (register, memories, etc)
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/mcm/bcm88675_a0.c
No license file was found, but licenses were detected in source scan.

```
# $Id:$
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
# Example configuration file for C3 SBX 4x10g+2xhg10+4x1g
# $Id: Broadcom SDK $
# Note A-A

pci_override_dev=0x34

# Default microcode is g3p1
# - g3p1 linecard Caladan3/Sirius
# - g3p1a lincard Caladan3/Arad
bcm88030_ucode.0=g3p1

# Use the common mode baseline TDM for this specific TDM instance
bcm88030_config.0=44

#
# ucode ports definition
#
ucode_num_port_override.0=1
ucode_num_ports.0=26


# ====================================================
```

```
# WC 0
# ====================================================
# Lane 0 (not being used in this use-case)
#
ucode_port.port1.0=clport0.xe.0.0:il1.il50n.0.0

# Lane 1
# (uses 8 Qs)
ucode_port.port2.0=clport0.hg10.0.1-1:il1.il50n.0.1
ucode_port.port3.0=clport0.hg10.0.1-1:il1.il50n.0.2
ucode_port.port4.0=clport0.hg10.0.1-1:il1.il50n.0.3
ucode_port.port5.0=clport0.hg10.0.1-1:il1.il50n.0.4
ucode_port.port6.0=clport0.hg10.0.1-1:il1.il50n.0.5
ucode_port.port7.0=clport0.hg10.0.1-1:il1.il50n.0.6
ucode_port.port8.0=clport0.hg10.0.1-1:il1.il50n.0.7
ucode_port.port9.0=clport0.hg10.0.1-1:il1.il50n.0.8

# Lane 2
#
ucode_port.port10.0=clport0.ge.0.2:il1.il50n.0.9

# Lane 3
#
ucode_port.port11.0=clport0.ge.0.3:il1.il50n.0.10


# ====================================================
# WC 1
# ====================================================
ucode_port.port12.0=clport0.xe.1.0:il1.il50n.0.11
ucode_port.port13.0=clport0.xe.1.1:il1.il50n.0.12
ucode_port.port14.0=clport0.xe.1.2:il1.il50n.0.13
ucode_port.port15.0=clport0.xe.1.3:il1.il50n.0.14


# ====================================================
# WC 2
# ====================================================
# Lane 0 (not being used in this use-case)
ucode_port.port16.0=clport0.xe.2.0:il1.il50n.0.15


# Lane 1
# (uses 8 Qs)
ucode_port.port17.0=clport0.hg10.2.1-1:il1.il50n.0.16
ucode_port.port18.0=clport0.hg10.2.1-1:il1.il50n.0.17
ucode_port.port19.0=clport0.hg10.2.1-1:il1.il50n.0.18
ucode_port.port20.0=clport0.hg10.2.1-1:il1.il50n.0.19
```

```
ucode_port.port21.0=clport0.hg10.2.1-1:il1.il50n.0.20
ucode_port.port22.0=clport0.hg10.2.1-1:il1.il50n.0.21
ucode_port.port23.0=clport0.hg10.2.1-1:il1.il50n.0.22
ucode_port.port24.0=clport0.hg10.2.1-1:il1.il50n.0.23

# Lane 2
#
ucode_port.port25.0=clport0.ge.2.2:il1.il50n.0.24

# Lane 3
#
ucode_port.port26.0=clport0.ge.2.3:il1.il50n.0.25

#==============================================================================


# Required so phy comes up in SGMII and NOT QSGMII
serdes_qsgmii_sgmii_override_ge0=2
serdes_qsgmii_sgmii_override_ge1=2
serdes_qsgmii_sgmii_override_ge2=2
serdes_qsgmii_sgmii_override_ge3=2


diag_emulator_partial_init=0
#lrp_bypass=1
load_firmware=0x1



xgxs_rx_lane_map_xe0=0x1230
xgxs_rx_lane_map_xe1=0x1032

xgxs_rx_lane_map_xe5=0x1230

xgxs_tx_lane_map_xe0=0x1032
xgxs_tx_lane_map_xe1=0x3210

xgxs_tx_lane_map_xe5=0x1032


phy_xaui_rx_polarity_flip_xe1=0x0001
phy_xaui_rx_polarity_flip_xe2=0x0001
phy_xaui_rx_polarity_flip_xe3=0x0001
phy_xaui_rx_polarity_flip_xe4=0x0001

phy_xaui_tx_polarity_flip_xe1=0x0001
phy_xaui_tx_polarity_flip_xe2=0x0001
phy_xaui_tx_polarity_flip_xe3=0x0001
```

```
phy_xaui_tx_polarity_flip_xe4=0x0001


#phy_xaui_rx_polarity_flip_ge0=0x0000
#phy_xaui_rx_polarity_flip_ge1=0x0001 /*was 0*/

#phy_xaui_tx_polarity_flip_ge0=0x0000 /*was 1*/
#phy_xaui_tx_polarity_flip_ge1=0x0000


#phy_xaui_rx_polarity_flip_xe5=0x0001
#phy_xaui_rx_polarity_flip_hg8=0x0001
#phy_xaui_rx_polarity_flip_ge2=0x0000
#phy_xaui_rx_polarity_flip_ge3=0x0001

#phy_xaui_tx_polarity_flip_xe5=0x0000
#phy_xaui_tx_polarity_flip_hg8=0x0000
#phy_xaui_tx_polarity_flip_ge2=0x0001
#phy_xaui_tx_polarity_flip_ge3=0x0001




#phy_port_primary_and_offset_ge0=0x0001
#phy_port_primary_and_offset_ge1=0x0002

#phy_port_primary_and_offset_ge2=0x0802
#phy_port_primary_and_offset_ge3=0x0803


# GE ports
# XXXTBD testing
#xgxs_rx_lane_map_ge0=0x1032
#xgxs_tx_lane_map_ge0=0x3210

#xgxs_rx_lane_map_ge0=0x1230
#xgxs_tx_lane_map_ge0=0x1032

#phy_xaui_rx_polarity_flip_ge0=0x0001
#phy_xaui_tx_polarity_flip_ge0=0x0001

#phy_port_primary_and_offset_ge0=0x0002

#phy_port_primary_and_offset_ge1=0x0001


#phy_xaui_rx_polarity_flip_ge0=0x0000
#phy_xaui_rx_polarity_flip_ge1=0x0001
```

```
#phy_xaui_tx_polarity_flip_ge0=0x0000
#phy_xaui_tx_polarity_flip_ge1=0x0000




# Original
#phy_port_primary_and_offset_ge0=0x2000
#phy_port_primary_and_offset_ge1=0x2001
#phy_port_primary_and_offset_ge2=0x2002
#phy_port_primary_and_offset_ge3=0x2003
#phy_port_primary_and_offset_ge4=0x2004
#phy_port_primary_and_offset_ge5=0x2005
#phy_port_primary_and_offset_ge6=0x2006
#phy_port_primary_and_offset_ge7=0x2007


# Original
#phy_port_primary_and_offset_ge8=0x2800
#phy_port_primary_and_offset_ge9=0x2801
#phy_port_primary_and_offset_ge10=0x2802
#phy_port_primary_and_offset_ge11=0x2803
#phy_port_primary_and_offset_ge12=0x2804
#phy_port_primary_and_offset_ge13=0x2805
#phy_port_primary_and_offset_ge14=0x2806
#phy_port_primary_and_offset_ge15=0x2807

#=========

phy_fiber_pref_ge=1
phy_automedium_ge=1

#C3 Fabric side IL lane swap (lane 1/3 swapped, lane 0/2 swapped)
#XXXTBD
xgxs_rx_lane_map_core0_il0=0x1032
xgxs_rx_lane_map_core1_il0=0x3210
xgxs_rx_lane_map_core2_il0=0x1032

xgxs_tx_lane_map_core0_il0=0x1032
xgxs_tx_lane_map_core1_il0=0x3210
xgxs_tx_lane_map_core2_il0=0x1032

port_init_speed_il0=10312
```

```
higig2_hdr_mode_hg0=1
higig2_hdr_mode_hg8=1


# KBP bus
esm_serdes_rx_polarity_flip=0xffffff
esm_serdes_rx_lane_map_core0=0x1032
esm_serdes_rx_lane_map_core2=0x1032
esm_serdes_tx_lane_map_core1=0x1032
esm_serdes_tx_lane_map_core4=0x1032
ext_tcam_tx_lane_swap=1
ext_tcam_rx_lane_swap=1

#Path to uCode for HPPC tests
#c3_ucode_path=/broadcom/ucode

#
# ddr tuning
#
ddr3_auto_tune=0


# System .21
ddr3_tune_rd_dq_wl1_rp_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl0_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_vref_ci10.0=0x0000079e
ddr3_tune_wr_dq_wl1_ci2.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci6.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rp_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dqs_ci8.0=0x95959797,0x99999797
ddr3_tune_vref_ci6.0=0x0000079e
ddr3_tune_rd_dq_wl0_rp_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_en_ci10.0=0x00a1a3a0,0x009ea19b
ddr3_tune_rd_data_dly_ci4.0=0x00000404
ddr3_tune_addrc_ci8.0=0x000000b0
ddr3_tune_rd_dq_wl0_rp_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci10.0=0x99999292,0x98989494
ddr3_tune_rd_en_ci2.0=0x009b9b9c,0x009fa19d
ddr3_tune_wr_dq_wl0_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci10.0=0x000000ae
ddr3_tune_wr_dq_wl0_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_vref_ci12.0=0x0000079e
ddr3_tune_rd_dq_wl0_rn_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_wl1_ci4.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci8.0=0x80808080
ddr3_tune_rd_dq_wl1_rp_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
```

ddr3_tune_wr_dq_wl1_ci10.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_rd_dq_wl0_rn_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dq_wl1_rp_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_ci10.0=0x80808080
ddr3_tune_vref_ci8.0=0x0000079e
ddr3_tune_rd_en_ci12.0=0x009a999b,0x00979a95
ddr3_tune_rd_data_dly_ci6.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci12.0=0x92929898,0x97979393
ddr3_tune_rd_dqs_ci0.0=0x91919696,0x96969797
ddr3_tune_rd_en_ci4.0=0x00999999,0x00959694
ddr3_tune_rd_data_dly_ci10.0=0x00000404
ddr3_tune_addrc_ci0.0=0x000000b0
ddr3_tune_wr_dq_wl0_ci14.0=0x95959595,0x95959595,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rn_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_addrc_ci12.0=0x000000b2
ddr3_tune_wr_dq_wl0_ci8.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_vref_ci14.0=0x0000075d
ddr3_tune_rd_dq_wl0_rn_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_wr_dq_wl1_ci6.0=0x93939393,0x93939393,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_wr_dq_wl1_ci12.0=0x94949494,0x94949494,0x93939393,0x93939393
ddr3_tune_rd_dq_wl1_rp_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_wr_dq_ci12.0=0x80808080
ddr3_tune_wr_dq_ci0.0=0x80808080
ddr3_tune_rd_en_ci14.0=0x00989899,0x009a9e97
ddr3_tune_rd_dq_wl0_rn_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci8.0=0x00000404
ddr3_tune_rd_dq_wl0_rp_ci6.0=0x84848484,0x84848484,0x84848484,0x84848484
ddr3_tune_rd_dqs_ci14.0=0x95959999,0x99999292
ddr3_tune_rd_dqs_ci2.0=0x91919797,0x96969696
ddr3_tune_rd_en_ci6.0=0x00989998,0x00969894
ddr3_tune_rd_data_dly_ci12.0=0x00000404
ddr3_tune_vref_ci0.0=0x000007df
ddr3_tune_addrc_ci2.0=0x000000ae
ddr3_tune_rd_dq_wl1_rn_ci8.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_addrc_ci14.0=0x000000b1
ddr3_tune_rd_dq_wl1_rn_ci10.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl0_rn_ci14.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_wr_dq_wl1_ci8.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_rd_dq_wl1_rp_ci4.0=0x8a8a8a8a,0x8a8a8a8a,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl1_ci14.0=0x94949494,0x94949494,0x92929292,0x92929292
ddr3_tune_wr_dq_wl0_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci14.0=0x80808080
ddr3_tune_wr_dq_ci2.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci2.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl0_rp_ci8.0=0x89898989,0x89898989,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci4.0=0x97979191,0x97979898

ddr3_tune_rd_en_ci8.0=0x00959596,0x009a9c98
ddr3_tune_rd_data_dly_ci14.0=0x00000404
ddr3_tune_vref_ci2.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci10.0=0x83838383,0x83838383,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_data_dly_ci0.0=0x00000404
ddr3_tune_addrc_ci4.0=0x000000af
ddr3_tune_rd_dq_wl1_rn_ci12.0=0x84848484,0x84848484,0x8a8a8a8a,0x8a8a8a8a
ddr3_tune_rd_dq_wl1_rn_ci0.0=0x89898989,0x89898989,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_dq_wl1_rp_ci6.0=0x8b8b8b8b,0x8b8b8b8b,0x8c8c8c8c,0x8c8c8c8c
ddr3_tune_wr_dq_wl0_ci2.0=0x92929292,0x92929292,0x93939393,0x93939393
ddr3_tune_wr_dq_wl1_ci0.0=0x93939393,0x93939393,0x92929292,0x92929292
ddr3_tune_wr_dq_ci4.0=0x80808080
ddr3_tune_rd_dq_wl0_rn_ci4.0=0x83838383,0x83838383,0x89898989,0x89898989
ddr3_tune_rd_dqs_ci6.0=0x90909393,0x99999898
ddr3_tune_vref_ci4.0=0x000007df
ddr3_tune_rd_dq_wl0_rp_ci12.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_data_dly_ci2.0=0x00000404
ddr3_tune_addrc_ci6.0=0x000000af
ddr3_tune_rd_dq_wl0_rp_ci0.0=0x89898989,0x89898989,0x84848484,0x84848484
ddr3_tune_rd_dq_wl1_rn_ci14.0=0x84848484,0x84848484,0x8b8b8b8b,0x8b8b8b8b
ddr3_tune_rd_en_ci0.0=0x009d9d9e,0x009a9c98
ddr3_tune_wr_dq_wl0_ci10.0=0x93939393,0x93939393,0x91919191,0x91919191
ddr3_tune_rd_dq_wl1_rn_ci2.0=0x89898989,0x89898989,0x8a8a8a8a,0x8a8a8a8a

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-c3-4x10g_2xhg10_4x1g-ilkn50.bcm
No license file was found, but licenses were detected in source scan.

/*
* BCM43XX Sonics SiliconBackplane PCMCIA core hardware definitions.
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $Id: sbpcmcia.h,v 1.1 Broadcom SDK $
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-6.6/sbpcmcia.h
No license file was found, but licenses were detected in source scan.

/*
* $Id: celldata.c,v 1.69 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*

```
* File:       celldata.c
* Purpose:     Diagnostic helper routines
* Notes:       Perform various MCU DDR tuning tasks on Easyrider.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/appl/diag/esw/celldata.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: hl65.h,v 1.20.72.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       hl65.h
* Purpose:     Hyperlite/Hypercore driver header file, auto-generated.
*/
/*****************************************************************************
*     Copyright (c) 1999-2008, Broadcom Corporation
*     All Rights Reserved
*     Confidential Property of Broadcom Corporation
*
*
* THIS SOFTWARE MAY ONLY BE USED SUBJECT TO AN EXECUTED SOFTWARE LICENSE
* AGREEMENT  BETWEEN THE USER AND BROADCOM.  YOU HAVE NO RIGHT TO USE OR
* EXPLOIT THIS MATERIAL EXCEPT SUBJECT TO THE TERMS OF SUCH AN AGREEMENT.
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:           Generated on         Mon Sep 22 12:04:36 2008
*                 MD5 Checksum         70565ec876bdd0354d6a4398fcc61be3
*
* Compiled with:  RDB Utility          5.0
*                 RDB Parser           3.0
*                 rdb2macro.pm         4.0
*                 Perl Interpreter     5.008008
*                 Operating System     linux
*
```

```
* Spec Versions:  aer                1
*               combo              1
*               dsc_1              1
*               dsc_2              1
*               dsc_3              1
*               dsc_4              1
*               ieee               1
*               rx66               1
*               tx66               1
*               xgxs               1
*
* Revision History:
*
* $brcm_Log: $
*
*****************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/hl65.h
No license file was found, but licenses were detected in source scan.

```
# $Id: config-sbx-bcmsim.bcm,v 1.6 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Example configuration file for SBX systems.
# config-sbx-bcmsim.bcm
#

os=unix

# Maximum number of COSes
bcm_num_cos=8
plisim=1

# By default,set this to match the number of cos levels
# If >1, logical port shaping is enabled in the qe
# otherwise, per flow shaping is enabled
qe_queues_per_ingress_shaper=8

# Maximum number of modules in the system (number of QEs)
num_modules=4

# Declare the fabric control ports on the BME (Unit 2)
#
#               +--- port (one based)
#               | +--- unit
#               | | +--- is SCI
```

```
#            | | |
#            v v v
port_is_sci.port1.2=1

# By default, run in standalone mode
diag_chassis=0

#soc_skip_reset=1
# Logging can be pointed to a file:
#diag_log_file=/var/log/bcm.log


# These properties determine the number of SPI channels assigned to
# each bus in the QE.  The QE (fabric) ports are numbered contiguously
# across SPI 0 then SPI 1
qe_spi_0.0=32
qe_spi_1.0=0

# These properties configure the default high speed channels on each SPI
qe_spi_0_subport_speed.port13.0=10000
qe_spi_1_subport_speed.port13.0=10000

# This property must be present for ucode_port properties to be used
# Otherwise, a default front panel to ucode to system port mapping is used
#ucode_num_ports.1=1

# The FE-2000 ucode port property values have the form:
#       fport:sysport
# Where ports are of the form:
#       gex.y      GbE ports, x=0,1, y=0-11
#       xex.y      XG/HG ports, x=0,1, y=0
#       spix.y     SPI-4.2 ports, x=0-1, y=0-63
#       pcix       CPU port, x=0
#
# The `fport' is the front-side port, and the `sysport' is the
# system-side port.
# Most system configurations use a QE-2000 CPU port,
# so the PCI port is typically not mapped to a microcode port.
#
# Note that an attached QE-2000 SPI port mapping must be
# `synchronized' with the FE-2000 SPI port mapping to ensure
# consistent SPI port calendars.  If SPI training fails, this
# is typically because the FE & QE have different calendar
# lengths.
#
# Here is an example configuration with 4 front-side ports
#
#qe_spi_0.0=4
```

```
#qe_spi_1.0=0
#ucode_num_ports.1=4
#ucode_port.port1.1=ge0.0:spi0.0
#ucode_port.port2.1=xe0.0:spi0.1
#ucode_port.port3.1=spi1.0:spi0.2
#ucode_port.port4.1=pci0:spi0.3

# To map a microcode port to HG port
#ucode_port.port5.1=hg0:spi0.13

# FE PCI does not deliver an ERH on receive
rx_parse_erh.1=0

# Set these to indicate the FE-2000 wide memory ports are
# connected to 2 x18 RAMs.  Otherwise they are assumed to
# connect to 1 x 36 RAM
# Broadcom MetroCore FE-2000 reference design uses 2 x18 RAMs
wide_sram0_x18.1=1
wide_sram1_x18.1=1

# Needed for sbx diags.
# FE2k reference design uses 4M parts but are only addressable to 2M
# np, 4Mx18 will look like 2Mx36 (FE reads 36 bits (2x18) in one cycle)
# wp, 2(4Mx18) will look like 2Mx72 (FE reads 72 (2x36) bits in one cycle)
wp_addr_width.1=21
wp_data_width.1=36
np0_data_width.1=18
np0_addr_width.1=21
np1_data_width.1=18
np1_addr_width.1=21

qe_mvt_old_configuration=0

# To have both XEs as HiGig use
# remove this line or pbmp_xport_xe 0x0
pbmp_xport_xe=0x3000000

# This is needed only for 12G HiGig
#xgxs_lcpll_12gbps=1

# memory table configurations
# These are defaults:
#smac_pyld_percent=25
#dmac_pyld_percent=25
#ipv4_sa_pyld_percent=25
#ipv4_da_pyld_percent=25
#ipv4mc_sg_pyld_percent=10
#ipv4mc_g_pyld_percent=10
```

```
#All ports are on SPI0
ucode_num_ports.1=32
ucode_port.port1.1=ge0.0:spi0.0
ucode_port.port2.1=ge0.1:spi0.1
ucode_port.port3.1=ge0.2:spi0.2
ucode_port.port4.1=ge0.3:spi0.3
ucode_port.port5.1=ge0.4:spi0.4
ucode_port.port6.1=ge0.5:spi0.5
ucode_port.port7.1=ge0.6:spi0.6
ucode_port.port8.1=ge0.7:spi0.7
ucode_port.port9.1=ge0.8:spi0.8
ucode_port.port10.1=ge0.9:spi0.9
ucode_port.port11.1=ge0.10:spi0.10
ucode_port.port12.1=ge0.11:spi0.11
ucode_port.port13.1=ge1.0:spi0.12
ucode_port.port14.1=ge1.1:spi0.13
ucode_port.port15.1=ge1.2:spi0.14
ucode_port.port16.1=ge1.3:spi0.15
ucode_port.port17.1=ge1.4:spi0.16
ucode_port.port18.1=ge1.5:spi0.17
ucode_port.port19.1=ge1.6:spi0.18
ucode_port.port20.1=ge1.7:spi0.19
ucode_port.port21.1=ge1.8:spi0.20
ucode_port.port22.1=ge1.9:spi0.21
ucode_port.port23.1=ge1.10:spi0.22
ucode_port.port24.1=ge1.11:spi0.23
ucode_port.port25.1=xe0.0:spi0.24
ucode_port.port26.1=xe1.0:spi0.25
ucode_port.port27.1=spi0
ucode_port.port28.1=spi1
ucode_port.port32.1=pci0:spi0.26
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/config-sbx-bcmsim.bcm
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_api_fabric.h,v 1.11 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/arad_api_fabric.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: bmacsec_port_ability.h,v 1.1 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/fcmap/include/bmacsec_port_ability.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: chipsim_appl.c,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       chipsim_appl.c
* Purpose:     main() for DPP Chipsim application integrated via bde interface
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/sim/dpp/chipsim_appl.c
No license file was found, but licenses were detected in source scan.

```
#
# $Id: jer.soc,v 1.90 Broadcom SDK $
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#

debug info
debug appl rcload warn
debug appl symtab warn
debug bcm rx,tx,link,attach warn
debug soc tests warn
debug soc rx,phy,schan,reg,socmem,dma,mem,miim,mii,intr,counter,ddr warn
debug soc common err
debug sys verinet warn
debug soc physim warn

if $?QMX_A0 || $?BCM88370_A0 || $?BCM88371_A0 || $?BCM88371M_A0 || $?BCM88375_A0 ||
$?BCM88376_A0 || $?BCM88376M_A0 || $?BCM88377_A0 || $?BCM88378_A0 || $?BCM88379_A0 || \
  $?QMX_A1 || $?BCM88370_A1 || $?BCM88371_A1 || $?BCM88371M_A1 || $?BCM88375_A1 ||
$?BCM88376_A1 || $?BCM88376M_A1 || $?BCM88377_A1 || $?BCM88378_A1 || $?BCM88379_A1 ||\
  $?QMX_B0 || $?BCM88370_B0 || $?BCM88371_B0 || $?BCM88371M_B0 || $?BCM88375_B0 ||
$?BCM88376_B0 || $?BCM88376M_B0 || $?BCM88377_B0 || $?BCM88378_B0 || $?BCM88379_B0  \
  'local QMX 1'
```

```
if $?JERICHO_A0 || $?BCM88670_A0 || $?BCM88671_A0 || $?BCM88671M_A0 || $?BCM88672_A0 ||
$?BCM88673_A0 || $?BCM88674_A0 || $?BCM88675_A0 || $?BCM88675M_A0 || $?BCM88676_A0 ||
$?BCM88676M_A0 || $?BCM88678_A0 || $?BCM88679_A0 || \
  $?JERICHO_A1 || $?BCM88670_A1 || $?BCM88671_A1 || $?BCM88671M_A1 || $?BCM88672_A1 ||
$?BCM88673_A1 || $?BCM88674_A1 || $?BCM88675_A1 || $?BCM88675M_A1 || $?BCM88676_A1 ||
$?BCM88676M_A1 || $?BCM88678_A1 || $?BCM88679_A1 || \
  $?JERICHO_B0 || $?BCM88670_B0 || $?BCM88671_B0 || $?BCM88671M_B0 || $?BCM88672_B0 ||
$?BCM88673_B0 || $?BCM88674_B0 || $?BCM88675_B0 || $?BCM88675M_B0 || $?BCM88676_B0 ||
$?BCM88676M_B0 || $?BCM88678_B0 || $?BCM88679_B0 \
  'local JERICHO 1'
if $?BCM88680_A0 ||  $?BCM88681_A0 ||  $?BCM88682_A0 || $?BCM88683_A0 ||  $?BCM88380_A0 ||
$?BCM88381_A0 \
  'local JERPLUS 1'

if $?BCM88690_A0 \
  'local JERTWO 1'

if $?QMX \
   'rcload bcm88375_board.soc'
if $?JERICHO \
   'rcload bcm88675_board.soc'

if $?JERPLUS \
   'rcload bcm88680_board.soc'

#
# For Jericho-2:
# This will have to change when we have bcm88690_board.soc
#
if $?JERTWO \
   'rcload bcm88680_board.soc'

# Load DRAM tuning properties from local File. RcLoad will not fail if file not found, and will not show errors of
missing file.
set RCError=off
debug appl shell warn
if $?QMX \
   'rcload /home/negev/bcm88375_dram_tune.soc'

if $?JERICHO \
   'rcload /home/negev/bcm88675_dram_tune.soc'

debug appl shell =
set RCError=on

set RCError=off
rcload combo28_dram.soc
set RCError=on
```

```
#Set fabric connect mode as FE for multi FAP system
if $?diag_chassis " \
  config add fabric_connect_mode.BCM88675=FE"

# Set modid:
# If diag_chassis is enabled (two line cards), and 'slot' is defined (slot is defined only when
# working without a management card - set modid to be 'slot'
# Otherwise (single line card, or management card), set modid to be 0 for unit 0, and 1 for unit != 0
if $?diag_chassis && $?slot "\
 local modid $slot" \
else "\
 local modid $unit"
expr $modid+0 == 1; if $? "local modid 2"

if $?module_id " \
 local modid $module_id"

echo "$unit: modid=$modid"

# Set base_modid:
# Id base_module_id is set, then set base_modid to have base_module_id value.
# Otherwise, set base_modid to be 0.
if $?base_module_id " \
 local base_modid $base_module_id" \
else " \
 local base_modid 0"

expr $base_modid > 0
if $? " \
 echo '$unit: base_modid=$base_modid'"

if $?diag_chassis " \
 local nof_devices 2" \
else "\
 local nof_devices 1"

if $?n_devices " \
 local nof_devices $n_devices"

expr $nof_devices > 1
if $? " \
 echo '$unit: nof_devices=$nof_devices'"

if $?mng_cpu " \
 echo '$unit:management card - polling is set on'; \
 config add polled_irq_mode.BCM88675=1; \
 config add schan_intr_enable.BCM88675=0; \
```

```
 config add tdma_intr_enable.BCM88675=0; \
 config add tslam_intr_enable.BCM88675=0; \
 config add miim_intr_enable.BCM88675=0; "

#Counters unavailable in cmodel
if $?cmodel " \
 config add counter_engine_sampling_interval=0;"

#default values in a case which these parameters are not exist
if !$?diag_cosq_disable "\
 local diag_cosq_disable 0"
if !$?warmboot "\
 local warmboot 0"
if !$?diag_disable "\
 local diag_disable 0"
if !$?diag_no_itmh_prog_mode "\
 local diag_no_itmh_prog_mode 0"
if !$?l2_mode "\
 local l2_mode 0"

if $?JERPLUS "\
 local diag_disable 0"
local init_others NoLinkscan=0
if $?JERPLUS "\
 local init_others 'NoIntr=1 NoLinkscan=1 NoApplStk=0'"

#Disable interrupts in cmodel
if $?cmodel "\
 local no_intr 1" \
else "\
 local no_intr 0"

#
# For Jericho-2, we TEMPORARILY disable some components to quickly enable
# a working PCID version.
#
if $?JERTWO "\
 local no_soc 0"

if $?JERTWO "\
 local no_intr 1"


#INIT_DNX ModID=$modid NofDevices=$nof_devices CosqDisable=$diag_cosq_disable NoAppl=$diag_disable
Warmboot=$warmboot NoRxLos=1 $init_others NoItmhProgMode=$diag_no_itmh_prog_mode
L2Mode=$l2_mode NoIntr=$no_intr NoSoc=$no_soc

INIT_DNX
```

```
#LED support section start
#Program of LED0
local ledcode_0 '02 05 67 2D 02 01 67 2D 02 11 67 2D 02 09 67 2D\
02 15 67 2D 02 0D 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex

#Program of LED1
local ledcode_1 '02 1D 67 2D 02 2D 67 2D 02 05 67 2D 02 0D 67 2D\
02 09 67 2D 02 01 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex


#Program of LED2
local ledcode_2 '02 01 67 2D 02 09 67 2D 02 0D 67 2D 02 05 67 2D\
02 2D 67 2D 02 1D 67 2D 86 E0 3A 06 28 32 00 32\
01 B7 97 75 3E 16 E0 CA 06 70 3E 77 3A 67 33 75\
3A 77 1C 12 A0 F8 15 1A 00 57 32 0E 87 57 32 0F\
87 57' #sdk88670.hex

# Download LED code into LED processors and enable (if applicable).
if $?feature_led_proc && !$?simulator \
   "led 0 prog $ledcode_0; \
    led 1 prog $ledcode_1; \
    led 2 prog $ledcode_2; \
    led auto on; \
    led 0 start; \
    led 1 start; \
    led 2 start"


echo "dnx.soc: Done............................."
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/dnx.soc
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
** ============================================================
** == if_sbqe2kreg.h - Register Definitions for SB QE2000  ==
** ============================================================
**
** WORKING REVISION: $Id: if_sbqe2kreg.h,v 1.3 Broadcom SDK $
**
```

```
** $Copyright: (c) 2016 Broadcom.
** Broadcom Proprietary and Confidential. All rights reserved.$
**
** MODULE NAME:
**
**     if_sbqe2kreg.h
**
** ABSTRACT:
**
**     Register definitions for use with the sbqe2000 NIC driver
**
** LANGUAGE:
**
**     C
**
** AUTHORS:
**
**     Travis B. Sawyer
**
** CREATION DATE:
**
**     21-March-2005
**
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/if_sbqe2kreg.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: family.h,v 1.17 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       family.h
* Purpose:    Define the chip families implemented under the BCM API
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/bcm_int/common/family.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: ui_rom_defi_timna_api.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/appl/dpp/UserInterface/ui_rom_defi_timna_api.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sw_state_res_tag_bitmap.c,v 1.6 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* Indexed resource management -- simple bitmap
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/shared/swstate/sw_state_res_tag_bitmap.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy54640.c,v 1.104 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy54640.c
* Purpose:     PHY driver for BCM54640
*
* Supported BCM54640 PHY:
*
*     Device  Ports   Media              MAC Interface
*     54640   4       Copper, Serdes     SGMII
*
* Workarounds:
*
* References:
* 54640-DS02-R.pdf          BCM54640 Data Sheet
*
*    +----------+   +---------------------------+
*    |         |  |           +->Copper      |<--> Magnetic
*    |  SGMII   |<->| SGMII    <-+             |
*    | (SerDes) |  |           |             |
*    |         |  |           +->SGMII/      |<--> (PHY)SFP (10/100/1000)
*    +----------+  |              1000BASE-X/ |<--> 1000BASE-X SFP
*       MAC        |              100BASE-FX  |<--> 100BASE-FX SFP
*                  |                       |
*                  |                       |
*                  +---------------------------+
```

```
*                       54640
*
* Notes:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy54640.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: starfighter_service.c,v 1.14 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter3/starfighter3_service.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/robo/gex/starfighter/starfighter_service.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: ramon_fabric_cell.h,v 1.6 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* RAMON FIFO DMA H
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dnxf/ramon/ramon_fifo_dma.h
No license file was found, but licenses were detected in source scan.

```
/* $Id: cfe_api.c,v 1.4 2011/07/21 16:14:24 yshtil Exp $
* Copyright 2000, 2001, 2002
* Broadcom Corporation. All rights reserved.
*
* This software is furnished under license and may be used and copied only
* in accordance with the following terms and conditions.  Subject to these
* conditions, you may download, copy, install, use, modify and distribute
* modified or unmodified copies of this software in source and/or binary
* form. No title or ownership is transferred hereby.
*
```

```
* 1) Any source code used, modified or distributed must reproduce and
*    retain this copyright notice and list of conditions as they appear in
*    the source file.
*
* 2) No right is granted to use any trade name, trademark, or logo of
*    Broadcom Corporation.  The "Broadcom Corporation" name may not be
*    used to endorse or promote products derived from this software
*    without the prior written permission of Broadcom Corporation.
*
* 3) THIS SOFTWARE IS PROVIDED "AS-IS" AND ANY EXPRESS OR IMPLIED
*    WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF
*    MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR
*    NON-INFRINGEMENT ARE DISCLAIMED. IN NO EVENT SHALL BROADCOM BE LIABLE
*    FOR ANY DAMAGES WHATSOEVER, AND IN PARTICULAR, BROADCOM SHALL NOT BE
*    LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
*    CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
*    SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
*    BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
*    WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
*    OR OTHERWISE), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/systems/vxworks/keystone/bcm53000/vxworks-5.5/cfe_api.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scache.h,v 1.16 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* This file contains structure and routine declarations for the
* storage cache management internal api.
*
* The scache is used to manage handles to persistent storage
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/scache.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: sbFabCommon.h,v 1.55 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
```

```
* Common defines for QE, BME Link config
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/sbFabCommon.h
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************************
*****************************************************************************************
*  File Name     :  falcon2_dino_pll_config.c                                  *
*  Created On    :  23/12/2013                                                 *
*  Created By    :  Kiran Divakar                                              *
*  Description   :  Falcon2 Dino PLL Configuration API                         *
*  Revision      :  $Id: falcon2_dino_pll_config.c 1400 2016-04-14 06:27:04Z cvazquez $ *
*                                                                              *
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$                                                  *
*  No portions of this material may be reproduced in any form without          *
*  the written permission of:                                                  *
*      Broadcom Corporation                                                    *
*      5300 California Avenue                                                  *
*      Irvine, CA  92617                                                       *
*                                                                              *
*  All information contained in this document is Broadcom Corporation          *
*  company private proprietary, and trade secret.                              *
*                                                                              *
*****************************************************************************************
*****************************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/libs/phymod/chip/dino/tier1/dino_serdes/falcon2_dino_src/falcon2_dino_pll_config.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: cint_pon_pfc_inbnd_receive.c,v 1.0 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File: cint_pon_pfc_inbnd_receive.c
*
* Purpose: examples of enable PFC receive on NNI port 132.
*
* To Activate Above Settings Run:
*     BCM> cint examples/dpp/pon/cint_pon_pfc_inbnd_receive.c
*     BCM> cint
*     cint> cint_arad_test_pfc_inband_rec_set(0, 132);
*
```

```
*/

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-
master/src/examples/dpp/pon/cint_pon_pfc_inbnd_receive.c
No license file was found, but licenses were detected in source scan.

# $Id: sanity.soc,v 1.9 Broadcom SDK $
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# Script to run all available tests as quickly as possible.
# For testing basic sanity of new drivers, simulators, chips, etc.

echo "testsuite: started: sanity"

# We need to print out port status since any cabling effects results.
*:ps

# Avoid link messages while testing
linkscan off

# Use expected COS configuration for tests
config add bcm_num_cos=4

init
init misc

local done 'echo "   Done"'

if $?slc "local sl 1"

# Set run command script not to fail on errors reported by commands
# this allows the script to continue if a test fails
set rcerror=false

# Set up test mode: don't stop on errors, show progress on each test
tm -stoponerror +progress
# Unselect all
ts -*

# Tests Start Here

echo Running CPU benchmarks ...
tr 21
$done

echo Running PCI tests ...
```

```
tr 2
$done

# Register test currently includes some non-existent registers, and fails.
#echo Running register tests ...
#tr 3
#$done

echo Running S-Channel message buffer test ...
tr 4
$done

echo Running BIST on CBP, ARL, and L3 tables ...
tr 5
$done

echo Running ARL tests
echo "   incrementing insert ..."
tr 7
echo "   decrementing insert ..."
tr 8
echo "   dma ..."
tr 15
echo "   overflow behavior ..."
tr 16
$done

# Link status test requires Linkscan to be running
rcload rc.soc

echo Running Link Status tests ...
tr 9
$done

echo Running GBP Available tests ...
tr 10
$done

echo Running HOL Status tests ...
tr 12
$done

echo Running COS Status tests ...
tr 13
$done

echo Running Back Pressure Discard tests ...
tr 14
```

```
$done

echo Running counter width verification test ...
tr 30
$done

echo Running counter read/write test ...
tr 31
$done

echo Running MDIO Linkscan test
tr 60 readcount=10000
$done

echo Running Switching Memory tests
# Note: Switching memory tests automatically put MMU in debug mode

local arl_writable "$?gsl || $?BCM5615_A0"

if $arl_writable \
 'echo "   ARL";  tr 50 m=ARL; tr 51 m=ARL'
echo "   MARL";   tr 50 m=MARL; tr 51 m=MARL
echo "   PTABLE";  tr 50 m=PTABLE; tr 51 m=PTABLE
echo "   VTABLE";  tr 50 m=VTABLE; tr 51 m=VTABLE
if $?ul \
 'echo "   STG";  tr 50 m=STG; tr 51 m=STG'

# Turn off caching for trunk table memory tests.
# init bcm turns on caching for these memories as a chip erratum workaround.

cache -tbmap -ttr

echo "   TBMAP";  tr 50 m=TBMAP; tr 51 m=TBMAP
echo "   TTR";   tr 50 m=TTR; tr 51 m=TTR

if !$?gsl '\
 echo "   IMASK"; tr 50 m=IMASK; tr 51 m=IMASK; \
 echo "   IRULE"; tr 50 m=IRULE; tr 51 m=IRULE'

echo "   GIMASK";  tr 50 m=GIMASK; tr 51 m=GIMASK
echo "   GIRULE";  tr 50 m=GIRULE; tr 51 m=GIRULE

if $?sml || $?ul '\
 echo "   METERING"; tr 50 m=METERING; tr 51 m=METERING; \
   tr 50 m=GMETERING; tr 51 m=GMETERING; \
 echo "   FFPCOUNTERS"; tr 50 m=FFPCOUNTERS; tr 51 m=FFPCOUNTERS; \
   tr 50 m=GFFPCOUNTERS; tr 51 m=GFFPCOUNTERS; \
 echo "   FFPPACKETCOUNTERS"; \
```

```
   tr 50 m=FFPPACKETCOUNTERS; \
   tr 51 m=FFPPACKETCOUNTERS; \
   tr 50 m=GFFPPACKETCOUNTERS; \
   tr 51 m=GFFPPACKETCOUNTERS'

echo "   L3IF";   tr 50 m=L3IF; tr 51 m=L3IF
echo "   L3";   tr 50 m=L3; tr 51 m=L3
echo "   DEFIP";  tr 50 m=DEF_IP; tr 51 m=DEF_IP
if $?sml || $?ul '\
 echo "   L3_IPMC"; tr 50 m=L3_IPMC; tr 51 m=L3_IPMC'

if !$?gsl '\
 echo "   CAB 0-3"; tr 50 m=CAB0; tr 51 m=CAB0; \
   tr 50 m=CAB1; tr 51 m=CAB1; \
   tr 50 m=CAB2; tr 51 m=CAB2; \
   tr 50 m=CAB3; tr 51 m=CAB3'

echo "   CBPDATA 0-3";  tr 50 m=CBPDATA0; tr 51 m=CBPDATA0
   tr 50 m=CBPDATA1; tr 51 m=CBPDATA1
   tr 50 m=CBPDATA2; tr 51 m=CBPDATA2
   tr 50 m=CBPDATA3; tr 51 m=CBPDATA3
echo "   CBPHEADER";  tr 50 m=CBPHEADER; tr 51 m=CBPHEADER
echo "   CCP";   tr 50 m=CCP; tr 51 m=CCP
echo "   CFAP";   tr 50 m=CFAP; tr 51 m=CFAP

if !$?gsl '\
 echo "   PID";  tr 50 m=PID; tr 51 m=PID; \
 echo "   PPP";  tr 50 m=PPP; tr 51 m=PPP; \
 echo "   SFAP";  tr 50 m=SFAP; tr 51 m=SFAP'

if  $?gsl "local max_xq 7"
if !$?gsl "local max_xq 25"

echo "   XQ 0-$max_xq,27"
for xq=0,$max_xq  'tr 50 m=XQ$xq; tr 51 m=XQ$xq'
   tr 50 m=XQ27; tr 51 m=XQ27
$done

# GBP Memory Test
# Load rc.soc first to set up SDRAMCONTROL registers.

local have_gbp !$?gsl

if $have_gbp \
 "echo Initializing for GBP test ...; \
  rcload rc.soc; \
  echo '   GBP (partial, every 8th address) ...'; \
  tr 50 m=GBP ii=8; \
```

```
  tr 51 m=GBP iter=10000"

# Loopback Tests
# Each test loads rc.soc in case a previous test failed

# Re-initialize to clean up of various read/writes to memories
rcload rc.soc
linkscan off

echo Testing CPU DMA loopback ...
tr 17 c=5
$done

echo Testing CPU DMA, Scatter/Gather Reload ...
tr 22
$done

echo Testing CPU DMA, Scatter/Gather Simple ...
tr 23
$done

echo Testing CPU DMA, Scatter/Gather Random ...
tr 24
$done

#--------- MAC Loopback ---------

if !$?sl "echo Testing MAC Loopback - 10 Mb/s all ports; \
   tr 18 pbm=e speed=10; echo done"

if !$?sl "echo Testing MAC Loopback - 100 Mb/s all ports; \
   tr 18 pbm=e speed=100; echo done"

echo Testing MAC Loopback - 1000 Mb/s gigabit ports
tr 18 pbm=ge speed=1000

$done

#--------- PHY Loopback ---------

# If you have SERDES ports (two on 5680 or two on 5600/5605) then run
# setenv serdes 1
# before running this script to avoid running 10/100 on SERDES ports.

if $?sl "local slowable fe"
if $?gsl && $?serdes "local slowable ge2-ge7"
if $?gsl && !$?serdes "local slowable ge"
if !$?sl && !$?gsl && $?serdes "local slowable fe"
```

```
if !$?sl && !$?gsl && !$?serdes "local slowable e"

echo Testing PHY Loopback - 10 Mb/s all capable ports
tr 19 pbm=$slowable speed=10 count=1

echo Testing PHY Loopback - 100 Mb/s all capable ports
tr 19 pbm=$slowable speed=100 count=1

echo Testing PHY Loopback - 1000 MB/s all capable ports
tr 19 pbm=ge speed=1000

$done

#--------- EXT Loopback ---------

# If you have external loopback cables connected as follows
# 1-2, 3-4, 5-6, 7-8, [..., 23-24, 25-26]
# then you can enable this script to perform external loopback at
# different speeds.  Before running this script, use:
# setenv ext10 1
# setenv ext100 1
# setenv ext1000 1
# or
# setenv extall 1
# If you have SERDES ports (two on 5680 or two on 5600/5605) then run
# setenv serdes 1
# before running this script to avoid running 10/100 on SERDES ports.

if $?sl "local fwd_slow 0x555555;  local bwd_slow 0xaaaaaa; \
  local fwd_fast ge0;       local bwd_fast ge1"
if $?gsl && $?serdes \
 "local fwd_slow 0x54;      local bwd_slow 0xa8; \
  local fwd_fast 0x55;      local bwd_fast 0xaa"
if $?gsl && !$?serdes \
 "local fwd_slow 0x55;      local bwd_slow 0xaa; \
  local fwd_fast 0x55;      local bwd_fast 0xaa"
if !$?sl && !$?gsl && $?serdes \
 "local fwd_slow 0x555555;  local bwd_slow 0xaaaaaa; \
  local fwd_fast ge0;       local bwd_fast ge1"
if !$?sl && !$?gsl && !$?serdes \
 "local fwd_slow 0x1555555; local bwd_slow 0x2aaaaaa; \
  local fwd_fast ge0;       local bwd_fast ge1"

if $?extall \
 "local ext10 1; local ext100 1; local ext1000 1"

if $?ext10 \
 "echo Testing External Loopback - 10 MB/s forward; \
```

```
  tr 20 tpbm=$fwd_slow di=1 speed=10 count=10; \
  echo Testing External Loopback - 10 MB/s reverse; \
  tr 20 tpbm=$bwd_slow di=-1 speed=10 count=10"

if $?ext100 \
 "echo Testing External Loopback - 100 MB/s forward; \
  tr 20 tpbm=$fwd_slow di=1 speed=100 count=10; \
  echo Testing External Loopback - 100 MB/s reverse; \
  tr 20 tpbm=$bwd_slow di=-1 speed=100 count=10"

if $?ext1000 \
 "echo Testing External Loopback - 1000 MB/s forward; \
  tr 20 tpbm=$fwd_fast di=1 speed=1000 count=10; \
  echo Testing External Loopback - 1000 MB/s reverse; \
  tr 20 tpbm=$bwd_fast di=-1 speed=1000 count=10"


#--------- MAC Loopback V2 ---------

if !$?sl "echo Testing MAC Loopback V2 - 10 Mb/s all ports; \
   tr 48 pbm=e speed=10; echo done"

if !$?sl "echo Testing MAC Loopback V2 - 100 Mb/s all ports; \
   tr 48 pbm=e speed=100; echo done"

echo Testing MAC Loopback V2 - 1000 Mb/s gigabit ports
tr 48 pbm=ge speed=1000

$done

#--------- PHY Loopback V2 ---------

# If you have SERDES ports (two on 5680 or two on 5600/5605) then run
# setenv serdes 1
# before running this script to avoid running 10/100 on SERDES ports.

if $?sl "local slowable fe"
if $?gsl && $?serdes "local slowable ge2-ge7"
if $?gsl && !$?serdes "local slowable ge"
if !$?sl && !$?gsl && $?serdes "local slowable fe"
if !$?sl && !$?gsl && !$?serdes "local slowable e"

echo Testing PHY Loopback V2 - 10 Mb/s all capable ports
tr 49 pbm=$slowable speed=10 count=1

echo Testing PHY Loopback V2 - 100 Mb/s all capable ports
tr 49 pbm=$slowable speed=100 count=1
```

```
echo Testing PHY Loopback V2 - 1000 MB/s all capable ports
tr 49 pbm=ge speed=1000

$done

echo Testing Filters
tr 70
$done

# Show status
tl
local returnCode $?

echo Tests Complete.  Reinitializing ...
rcload rc.soc

# We want to show the return code from the tl command which
# lists the results. The automated test infrastructure keys off of this
# value
echo "testsuite: finished: sanity: $returnCode"
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sanity.soc
No license file was found, but licenses were detected in source scan.

```
/* $Id: field.c,v 1.61 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field.c
* Purpose:     BCM56560 Field Processor installation functions.
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/apache/field.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: l2x.c,v 1.35 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* XGS GH L2 Table Manipulation API routines.
*
* A low-level L2 shadow table is optionally kept in soc->arlShadow by
* using a callback to get all inserts/deletes from the l2xmsg task. It
* can be disabled by setting the l2xmsg_avl property to 0.
```

```
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/esw/greyhound/l2x.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: phy84740.c,v 1.83 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       phy84740.c
* Purpose:    Phys Driver support for Broadcom 84740 40Gig
*             transceiver :XLAUI system side and PPI Line interface.
* Note:
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/phy/phy84740.c
No license file was found, but licenses were detected in source scan.

```
/*
* $Id$
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:       field_presel.c
* Purpose:     Field Processor routines Specific to Preselector Module.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/bcm/esw/tomahawk/field_presel.c
No license file was found, but licenses were detected in source scan.

```
/*****************************************************************************
* $Id$
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* $brcm_Workfile: $
* $brcm_Revision: $
* $brcm_Date: $
*
```

```
* Module Description:
*                    DO NOT EDIT THIS FILE DIRECTLY
*
* This module was generated magically with RDB from a source description
* file. You must edit the source file for changes to be made to this file.
*
*
* Date:          Generated on         Wed Jan 21 14:22:25 2009
*               MD5 Checksum         f9d424ae6d1d678638d610ed40ca6807
*
* Compiled with:  RDB Utility          5.0
*               RDB Parser           3.0
*               rdb2macro.pm         4.0
*               Perl Interpreter     5.008008
*               Operating System     linux
*
* Spec Versions:  DDR23_PHY_ADDR_CTL   1
*               DDR23_PHY_BYTE_LANE  04
*
* RDB Files:  /projects/ntsw-sw/home/zhongx/views/system_sim_ss_bringup/sdk/src/soc/phy/regs/ddr23/ddr23.rdb
*            /projects/ntsw-
sw/home/zhongx/views/system_sim_ss_bringup/sdk/src/soc/phy/regs/ddr23/ddr23_phy_addr_ctl.rdb
*            /projects/ntsw-
sw/home/zhongx/views/system_sim_ss_bringup/sdk/src/soc/phy/regs/ddr23/ddr23_phy_byte_lane.rdb
*
* Revision History:
*
* $brcm_Log: $
*
*******************************************************************************/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/phy/ddr23.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: nlmcmlogger.h,v 1.2.8.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/kbp/common/nlmcmlogger.h
No license file was found, but licenses were detected in source scan.

```
/*
```

```
* $Id: port_sw_db.c,v 1.43 Broadcom SDK $
*
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* SOC PORT SW DB
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dnx/legacy/port_sw_db.c
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/src/soc/dpp/port_sw_db.c
No license file was found, but licenses were detected in source scan.

```
/* $Id: arad_pp_extended_p2p.h,v 1.4 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/dpp/ARAD/ARAD_PP/arad_pp_frwrd_extend_p2p.h
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: cop_diags_h.stg,v 1.2 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* DO NOT EDIT THIS FILE!
* This file is auto-generated from sdk/caladan_ucode/t3p1/src/t3p1_cop_cfg.lrp.
* Edits to this file will be lost when it is regenerated.
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/sbx/t3p1/t3p1_cop_diags.h
No license file was found, but licenses were detected in source scan.

```
#
# $Id$
#
# $Copyright: (c) 2016 Broadcom.
# Broadcom Proprietary and Confidential. All rights reserved.$
#
# sysinit.soc
```

```
#
# This file is optional.  For VxWorks, it normally resides in
# flash:sysinit.soc, and is activated by setting the value of the
# "boot script" boot ROM parameter to "flash:sysinit.soc".
#
# If activated, sysinit.soc is executed a single time when the BCM
# image boots, before the rc.soc file is loaded on each unit.
#
# See below for sample contents (must be customized per installation).
# A typical use is to make host table entries, NFS mounts, and/or change
# the SAL home directory (see $SDK/doc/NFS.txt for more info).
#

host add fs-sj1-20 10.16.128.50
host add fs-sj1-35 10.16.128.65
host add fs-sj1-07 10.16.128.37
host add fs-sj1-15 10.16.128.45
nfs auth fs-sj1-35 10011 20
nfs auth fs-sj1-20 10012 20
nfs auth fs-sj1-07 4059 20
nfs auth fs-sj1-15 4059 20
nfs mount fs-sj1-35:/vol/vol3/ntsw-labguy /home/labguy
#nfs mount fs-sj1-20:/vol/vol2/home2/sdk /home/sdk
nfs mount fs-sj1-07:/vol/vol6/ntsw-sw2 /projects/ntsw-sw2
nfs mount fs-sj1-15:/vol/vol0/ntsw-sw /projects/ntsw-sw
cd -sethome /home/sdk
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/rc/sysinit.soc
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: tm.h,v 1.3 Broadcom SDK $
* $Copyright: (c) 2016 Broadcom.
* Broadcom Proprietary and Confidential. All rights reserved.$
*
* File:     tm.h
* Purpose:
*
*/
```

Found in path(s):
* /opt/cola/permits/1745002214_1689590998.9917314/0/bcm-sdk-master-zip/bcm-sdk-master/include/soc/ea/tk371x/tm.h

1.674 libevent 2.0.22

1.674.1 Available under license :

CMake - Cross Platform Makefile Generator
Copyright 2000-2013 Kitware, Inc.
Copyright 2000-2011 Insight Software Consortium
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.

* Neither the names of Kitware, Inc., the Insight Software Consortium,
 nor the names of their contributors may be used to endorse or promote
 products derived from this software without specific prior written
 permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The above copyright and license notice applies to distributions of
CMake in source and binary form. Some source files contain additional
notices of original copyright by their contributors; see each source
for details. Third-party software packages supplied with CMake under
compatible licenses provide their own copyright notices documented in
corresponding subdirectories.

CMake was initially developed by Kitware with the following sponsorship:

* National Library of Medicine at the National Institutes of Health
  as part of the Insight Segmentation and Registration Toolkit (ITK).

* US National Labs (Los Alamos, Livermore, Sandia) ASC Parallel
  Visualization Initiative.

* National Alliance for Medical Image Computing (NAMIC) is funded by the
  National Institutes of Health through the NIH Roadmap for Medical Research,
  Grant U54 EB005149.

* Kitware, Inc.

Libevent is available for use under the following license, commonly known
as the 3-clause (or "modified") BSD license:

==========

Copyright (c) 2000-2007 Niels Provos <provos@citi.umich.edu>
Copyright (c) 2007-2012 Niels Provos and Nick Mathewson

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
   derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
==========

Portions of Libevent are based on works by others, also made available by
them under the three-clause BSD license above. The copyright notices are
available in the corresponding source files; the license is as above. Here's
a list:

log.c:
  Copyright (c) 2000 Dug Song <dugsong@monkey.org>
  Copyright (c) 1993 The Regents of the University of California.

strlcpy.c:
  Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

win32select.c:
  Copyright (c) 2003 Michael A. Davis <mike@datanerds.net>

evport.c:
  Copyright (c) 2007 Sun Microsystems

ht-internal.h:
  Copyright (c) 2002 Christopher Clark

minheap-internal.h:
  Copyright (c) 2006 Maxim Yegorushkin <maxim.yegorushkin@gmail.com>

==========

The arc4module is available under the following, sometimes called the
"OpenBSD" license:

  Copyright (c) 1996, David Mazieres <dm@uun.org>
  Copyright (c) 2008, Damien Miller <djm@openbsd.org>

  Permission to use, copy, modify, and distribute this software for any
  purpose with or without fee is hereby granted, provided that the above
  copyright notice and this permission notice appear in all copies.

  THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
  WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
  MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
  ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
  WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
  ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
  OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

==========

The Windows timer code is based on code from libutp, which is
distributed under this license, sometimes called the "MIT" license.

Copyright (c) 2010 BitTorrent, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.675 icu 55

1.675.1 Available under license :

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
  "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
```

<title>ICU License - moved to LICENSE</title>
</head>

<body BGCOLOR="#ffffff">

  The ICU license is now in plain text format, see LICENSE.
Update links and software appropriately.

  2016 and later: Unicode, Inc. and others. License & terms of use:
http://www.unicode.org/copyright.html
  1995-2016 International Business Machines Corporation and others

</body>
</html>
COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright 1991-2019 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

The Google Chrome software developed by Google is licensed under
the BSD license. Other software included in this distribution is
provided under other licenses, as set forth below.

```
#
#  The BSD License
#  http://opensource.org/licenses/bsd-license.php
#  Copyright (C) 2006-2008, Google Inc.
#
#  All rights reserved.
#
#  Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are met:
#
#  Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
#  Redistributions in binary form must reproduce the above
# copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided with
# the distribution.
#  Neither the name of  Google Inc. nor the names of its
# contributors may be used to endorse or promote products derived from
# this software without specific prior written permission.
#
#
#  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
#  The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
#  * Libtabe (Chinese)
#    - https://sourceforge.net/project/?group_id=1519
#    - Its license terms and conditions are shown below.
#
#  * IPADIC (Japanese)
#    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#    - Its license terms and conditions are shown below.
#
```

```
# ---------COPYING.libtabe ---- BEGIN--------------------
#
# /*
#  * Copyright (c) 1999 TaBE Project.
#  * Copyright (c) 1999 Pai-Hsiang Hsiao.
#  * All rights reserved.
#  *
#  * Redistribution and use in source and binary forms, with or without
#  * modification, are permitted provided that the following conditions
#  * are met:
#  *
#  * . Redistributions of source code must retain the above copyright
#  *   notice, this list of conditions and the following disclaimer.
#  * . Redistributions in binary form must reproduce the above copyright
#  *   notice, this list of conditions and the following disclaimer in
#  *   the documentation and/or other materials provided with the
#  *   distribution.
#  * . Neither the name of the TaBE Project nor the names of its
#  *   contributors may be used to endorse or promote products derived
#  *   from this software without specific prior written permission.
#  *
#  * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#  * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#  * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#  * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#  * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#  * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#  * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#  * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#  * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#  * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#  * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#  * OF THE POSSIBILITY OF SUCH DAMAGE.
#  */
#
# /*
#  * Copyright (c) 1999 Computer Systems and Communication Lab,
#  *                  Institute of Information Science, Academia
#     *                  Sinica. All rights reserved.
#  *
#  * Redistribution and use in source and binary forms, with or without
#  * modification, are permitted provided that the following conditions
#  * are met:
#  *
#  * . Redistributions of source code must retain the above copyright
#  *   notice, this list of conditions and the following disclaimer.
#  * . Redistributions in binary form must reproduce the above copyright
#  *   notice, this list of conditions and the following disclaimer in
```

```
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#     University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END--------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN-------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
```

```
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
#  contravene any of the laws and regulations of the countries having
#  jurisdiction over the User or the intended distribution itself.
#
#  NO WARRANTY
#
#  The program was produced on an experimental basis in the course of the
#  research and development conducted during the project and is provided
#  to users as so produced on an experimental basis.  Accordingly, the
#  program is provided without any warranty whatsoever, whether express,
#  implied, statutory or otherwise.  The term "warranty" used herein
#  includes, but is not limited to, any warranty of the quality,
#  performance, merchantability and fitness for a particular purpose of
#  the program and the nonexistence of any infringement or violation of
#  any right of any third party.
#
#  Each user of the program will agree and understand, and be deemed to
#  have agreed and understood, that there is no warranty whatsoever for
#  the program and, accordingly, the entire risk arising from or
#  otherwise connected with the program is assumed by the user.
#
#  Therefore, neither ICOT, the copyright holder, or any other
#  organization that participated in or was otherwise related to the
#  development of the program and their respective officials, directors,
#  officers and other employees shall be held liable for any and all
#  damages, including, without limitation, general, special, incidental
#  and consequential damages, arising out of or otherwise in connection
#  with the use or inability to use the program or any product, material
#  or result produced or otherwise obtained by using the program,
#  regardless of whether they have been advised of, or otherwise had
#  knowledge of, the possibility of such damages at any time during the
#  project or thereafter.  Each user will be deemed to have agreed to the
#  foregoing by his or her commencement of use of the program.  The term
#  "use" as used herein includes, but is not limited to, the use,
#  modification, copying and distribution of the program and the
#  production of secondary products from the program.
#
#  In the case where the program, whether in its original form or
#  modified, was distributed or delivered to or received by a user from
#  any person, organization or entity other than ICOT, unless it makes or
```

```
#  grants independently of ICOT any specific warranty to the user in
#  writing, such person, organization or entity, will also be exempted
#  from and not be held liable to the user for any such damages as noted
#  above as far as the program is concerned.
#
#  ---------------COPYING.ipadic-----END----------------------------------
```

3. Lao Word Break Dictionary Data (laodict.txt)

```
#  Copyright (c) 2013 International Business Machines Corporation
#  and others. All Rights Reserved.
#
# Project: http://code.google.com/p/lao-dictionary/
# Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
# License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
#            (copied below)
#
#  This file is derived from the above dictionary, with slight
#  modifications.
#  --------------------------------------------------------------------
#  Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
#  All rights reserved.
#
#  Redistribution and use in source and binary forms, with or without
#  modification,
#  are permitted provided that the following conditions are met:
#
#
# Redistributions of source code must retain the above copyright notice, this
#  list of conditions and the following disclaimer. Redistributions in
#  binary form must reproduce the above copyright notice, this list of
#  conditions and the following disclaimer in the documentation and/or
#  other materials provided with the distribution.
#
#
# THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
# "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
# FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
# COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
# INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
# (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
# SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
# STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
# OF THE POSSIBILITY OF SUCH DAMAGE.
#  ----------------------------------------------------------------------
```

4. Burmese Word Break Dictionary Data (burmesedict.txt)

```
#  Copyright (c) 2014 International Business Machines Corporation
#  and others. All Rights Reserved.
#
#  This list is part of a project hosted at:
#    github.com/kanyawtech/myanmar-karen-word-lists
#
#  ---------------------------------------------------------------------------
#  Copyright (c) 2013, LeRoy Benjamin Sharon
#  All rights reserved.
#
#  Redistribution and use in source and binary forms, with or without
#  modification, are permitted provided that the following conditions
#  are met: Redistributions of source code must retain the above
#  copyright notice, this list of conditions and the following
#  disclaimer.  Redistributions in binary form must reproduce the
#  above copyright notice, this list of conditions and the following
#  disclaimer in the documentation and/or other materials provided
#  with the distribution.
#
#    Neither the name Myanmar Karen Word Lists, nor the names of its
#    contributors may be used to endorse or promote products derived
#    from this software without specific prior written permission.
#
#  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
#  CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
#  INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
#  MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
#  DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
#  BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
#  EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
#  TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
#  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
#  ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
#  TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
#  THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
#  SUCH DAMAGE.
#  ---------------------------------------------------------------------------
```

5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone Database for its time zone support. The ownership of the TZ database is explained in BCP 175: Procedure for Maintaining the Time Zone Database section 7.

7. Database Ownership
#
The TZ database itself is not an IETF Contribution or an IETF
document. Rather it is a pre-existing and regularly updated work
that is in the public domain, and is intended to remain in the
public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
not apply to the TZ Database or contributions that individuals make
to it. Should any claims be made and substantiated against the TZ
Database, the organization that is providing the IANA
Considerations defined in this RFC, under the memorandum of
understanding with the IETF, currently ICANN, may act in accordance
with all competent court orders. No ownership claims will be made
by ICANN or the IETF Trust on the database or the code. Any person
making a contribution to the database or code waives all rights to
future claims in that contribution or in the TZ Database.

6. Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
-*-makefile-*-
Copyright (C) 2016 and later: Unicode, Inc. and others.
License & terms of use: http://www.unicode.org/copyright.html
BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)

```
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
 $(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
 $(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
 $(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
 $(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<


## Dependency rules
%.d: $(srcdir)/%.c
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.c) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
```

```
  [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
 @echo "generating dependency information for $<"
 @$(SHELL) -ec '$(GEN_DEPS.cc) $< \
  | sed '\"s/\($*\)\.o[ :]*/\1.o $@ : /g'\" > $@; \
  [ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
 $(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
 $(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

##  Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
```

1.676 jcmturner-rpc 1.1.0

1.676.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.677 iproute 3.16.0

1.677.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.678 zlib 1.2.13

1.678.1 Available under license :

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright notice:

(C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be

appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

1.679 procps 3.2.8

1.679.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We

concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.680 go-immutable-radix 1.3.1

1.680.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"

means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser

General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this

License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any

liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis,

without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.

1.681 klauspost-compress 1.14.2

1.681.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: gzhttp/*

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Files: snappy/*
Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
// Copyright 2011 The Snappy-Go Authors. All rights reserved.
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

1.682 openssl 1.1.1t

1.682.1 Notifications :

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)

1.682.2 Available under license :

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a double license, i.e. both the conditions of

the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
```

```
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
```

```
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the
source code. And you must show them these terms so they know their
rights.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, so
that any problems introduced by others will not reflect on the original
authors' reputations.

Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that redistributors of a free
program will individually obtain patent licenses, in effect making the
program proprietary. To prevent this, we have made it clear that any
patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and
modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains
a notice placed by the copyright holder saying it may be distributed
under the terms of this General Public License. The "Program", below,
refers to any such program or work, and a "work based on the Program"
means either the Program or any derivative work under copyright law:
that is to say, a work containing the Program or a portion of it,
either verbatim or with modifications and/or translated into another
language. (Hereinafter, translation is included without limitation in
the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as

distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

```
/*
* Copyright 1999-2022 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the OpenSSL license (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/
```

1.683 go-testing-interface 1.14.1

1.683.1 Available under license :

The MIT License (MIT)

Copyright (c) 2016 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.684 x-sys 0.0.0-20220520151302-bc2c85ada10a

1.684.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.685 libtasn 4.0

1.685.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the
Document or a portion of it, either copied verbatim, or with

modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are

not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct

from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions

it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,

you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license

from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A

``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

@smallexample

@group
with the Invariant Sections being @var{list their titles}, with
the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge

for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General

Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs

(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all

subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;

keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further

restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission

to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free

patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.686 libusb-compat 0.1.0

1.686.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of

running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined

library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then

the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status

of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
libusb is covered by the LGPL:

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the
Free Software Foundation, Inc., 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA.

Alternatively, the files usb.h.in and/or usb.h may be licensed under the
BSD license:

Copyright (c) 2000-2003 Johannes Erdfelt <johannes@erdfelt.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.687 orion-ssh2 214

1.687.1 Available under license :

Copyright (c) 2007-2008 Trilead AG (http://www.trilead.com)

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

a.) Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
c.) Neither the name of Trilead nor the names of its contributors may
  be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR

CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Trilead SSH-2 for Java includes code that was written by Dr. Christian Plattner
during his PhD at ETH Zurich. The license states the following:

Copyright (c) 2005 - 2006 Swiss Federal Institute of Technology (ETH Zurich),
Department of Computer Science (http://www.inf.ethz.ch),
Christian Plattner. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

a.) Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
b.) Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
c.) Neither the name of ETH Zurich nor the names of its contributors may
be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The Java implementations of the AES, Blowfish and 3DES ciphers have been
taken (and slightly modified) from the cryptography package released by
"The Legion Of The Bouncy Castle".

Their license states the following:

Copyright (c) 2000 - 2004 The Legion Of The Bouncy Castle
(http://www.bouncycastle.org)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.688 quota 4.02

1.688.1 Available under license :

This package, the quota tools, are made available under the GNU Public License version 2, with the exception of files quota.c, quotaio_v1.c, quotaon.c, quotaops.c, quot.c, and quot.h which are made available under the BSD license (see headers of these files for details).

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it,

either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program,

and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component

itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to

apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

1.689 chardet 3.0.4

1.689.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You

can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those

libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other

program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,

instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the

original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF

SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.690 mohae-deepcopy 0.0.0-20170929034955-c48cc78d4826

1.690.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Joel

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.691 evanphx-json-patch 4.12.0+incompatible

1.691.1 Available under license :

Copyright (c) 2014, Evan Phoenix
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the Evan Phoenix nor the names of its contributors may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.692 golang-jwt 4.4.2

1.692.1 Available under license :

Copyright (c) 2012 Dave Grijalva
Copyright (c) 2021 golang-jwt maintainers

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.693 fdisk 2.32.1

1.693.1 Available under license :

7zXZF!t/5]oK3&K6Y^
CP#vMOoYL?6]2z({CLYj0
LFIU<>Q&}7!C}e6]]e`M,J}.dE,4hVmp
RsTk!]r!Quo1OE|FfP+A}XBT9 \<
0<P9{>s\36R)m.S(bCb7S<DP(`ka")^oy`r)7I%tU6@AS.SMoOfF3whA!!WIMcK')e/eJ1F
g\BI'W|j>jf_{JPp]oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R]w[xiue@F#Em0hu;,,x{R7V2!Vq~AG{EX -
"0h*5x)*x\n)#l$*w!:499X1il:"P+=22cmr3J}/0o9nlB?\N&(q=$pPc!ab,6f&v/RS>O./OW[INy(BM~]~uf$Ng|"_W[0;
OXy[aB*"/_U~fQHO(3[b%o)+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxflC
zCTJtjSN:$gE11QQ$7*5++V=4Xt9V?r3_Vd2o8h"F8~qM,ZI6=Qgtw|11np#_(+?}zp(;H!E2Nz'WW_WmA,

FSYzE*-exTWFt#|
rd>k\R>aXrvXS~"9=U$puaoqQb;\k,RD5(fu&#
?}w!nz>SbvY[R+t[BS=)d ;*l;._>KfBqxY(F|0.Ve%S61opMG
1%QsS|11np#_(~*'uM%S61opMG`'\YfRXvY[R+t[ BS=)d ;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[
BS=)d ;*l;._>KfB}&ea)F~H#@|DExb
Fw=|
;}8SPT"_p;27 *,D-sS|11np#_(~*'uM%S61opMG`'B=gD7-`rFTvDY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXx+sS|11np#_(~*'uM%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d ;*l;._>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
/*
* Copyright (c) 1989 The Regents of the University of California.
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*   must display the following acknowledgement:
* This product includes software developed by the University of
* California, Berkeley and its contributors.
* 4. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later
version.

The complete text of the license is available in the

../Documentation/licenses/COPYING.LGPLv2.1 file.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original

authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices

stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your

cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to

these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to

address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, and the entire permission notice in its entirety,
  including the disclaimer of warranties.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote
  products derived from this software without specific prior
  written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.
7zXZF!t/]o."w[7gp<G
H:Oed 18uyMQ9|FO6
87I8.mhGl^eb_X/UQKuB
)Cdk!B_M\/tw|11np#_(~*'uM%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxYm+sS|11np#_(~*'uM%S61opMG`'\YfRXvY[R+t[BS=)d
;*l;._>KfBqxY(F|0.Ve%S61opMG`'\YfRXvY[R+t[BS=)d ;*l;._>KfBqxY(F|0.Ve%Q?
sS|11np#_(~'u7gi}[IgYZ
This library is free software; you can redistribute it and/or
modify it under the terms of the Modified BSD License.

The complete text of the license is available in the
../Documentation/licenses/COPYING.BSD-3 file.
Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

1.694 python-certifi 2020.04.05.1

1.694.1 Available under license :

This packge contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****
This Source Code Form is subject to the terms of the Mozilla Public License,
v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain
one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.695 x-term 0.0.0-20210927222741-03fcf44c2211

1.695.1 Available under license :

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.696 snmp-4j 2.5.5

1.696.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SubIndexInfoImpl.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/SubIndexInfoImpl.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - RetrievalEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/RetrievalEvent.java
No license file was found, but licenses were detected in source scan.

```
2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE
2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/package.html

No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpEngineListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/SnmpEngineListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ConsoleLogFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/ConsoleLogFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - VariantVariable.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/VariantVariable.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - TableEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TableEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PduHandleCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/PduHandleCallback.java
No license file was found, but licenses were detected in source scan.

```
2004  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE
2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/asn1/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/package.html
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/package.html
No license file was found, but licenses were detected in source scan.

```
/*_############################################################################
 _##
 _##  SNMP4J 2 - Address.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Address.java
No license file was found, but licenses were detected in source scan.

```
/*_############################################################################
 _##
 _##  SNMP4J 2 - SnmpConfigurator.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
```

```
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/SnmpConfigurator.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityModels.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityModels.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthHMAC384SHA512.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
```

```
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthHMAC384SHA512.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityProtocols.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityProtocols.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SimpleOIDTextFormat.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
```

```
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/SimpleOIDTextFormat.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Opaque.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Opaque.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TableUtils.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
```

```
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TableUtils.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultTlsTmSecurityCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-
jar/org/snmp4j/transport/tls/DefaultTlsTmSecurityCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CounterListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
```

```
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/CounterListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - IpAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/IpAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AbstractSnmpUtility.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
```

```
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/AbstractSnmpUtility.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CounterEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/CounterEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SMIAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
```

```
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/SMIAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ConnectionOrientedTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-
jar/org/snmp4j/transport/ConnectionOrientedTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TsmSecurityParameters.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
```

```
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/TsmSecurityParameters.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UnsupportedAddressClassException.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/UnsupportedAddressClassException.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CommunityTarget.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/CommunityTarget.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageDispatcher.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/MessageDispatcher.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Null.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Null.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageException.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/MessageException.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultUdpTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/DefaultUdpTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AbstractTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/AbstractTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PropertiesTlsTmSecurityCallback.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/tls/PropertiesTlsTmSecurityCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SNMPv3SecurityModel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SNMPv3SecurityModel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
```

```
 _##
 _##  SNMP4J 2 - DefaultPDUFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/DefaultPDUFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportStateListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TransportStateListener.java

No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - VersionInfo.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/version/VersionInfo.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageDispatcherImpl.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-

jar/org/snmp4j/MessageDispatcherImpl.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SshTransportAdapter.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/ssh/SshTransportAdapter.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportStateReference.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/TransportStateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AssignableFromByteArray.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AssignableFromByteArray.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MPv2c.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
```

```
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MPv2c.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - EngineIdCacheSize.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/EngineIdCacheSize.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TcpTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
```

```
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TcpTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultSshTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/DefaultSshTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAESWith3DESKeyExtension.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##########################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/nonstandard/PrivAESWith3DESKeyExtension.java
No license file was found, but licenses were detected in source scan.

```
/*_##########################################################################
 _##
 _##  SNMP4J 2 - GenericAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##########################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/GenericAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##########################################################################
 _##
 _##  SNMP4J 2 - CommandResponder.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
```

```
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/CommandResponder.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SMIConstants.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/SMIConstants.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ConsoleLogAdapter.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
```

```
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/ConsoleLogAdapter.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityLevel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityLevel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - BERSerializable.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
```

```
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/asn1/BERSerializable.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ArgumentParser.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/ArgumentParser.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthenticationProtocol.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
```

```
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthenticationProtocol.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TreeEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TreeEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Gauge32.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
```

```
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Gauge32.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CipherPool.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/CipherPool.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UserTarget.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
```

```
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/UserTarget.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DecryptParams.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/DecryptParams.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PDUFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
```

```
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/PDUFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES128.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivAES128.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ResponseListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/ResponseListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ThreadPool.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/ThreadPool.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - NonStandardSecurityProtocol.java
 _##
```

```
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/nonstandard/NonStandardSecurityProtocol.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TimerFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TimerFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MaxAccess.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/MaxAccess.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - JavaLogAdapter.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/JavaLogAdapter.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - TLSTM.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TLSTM.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - BitString.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/BitString.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - DefaultTimerFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/DefaultTimerFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ReadonlyVariableCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/ReadonlyVariableCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmTimeEntry.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmTimeEntry.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AssignableFromInteger.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AssignableFromInteger.java

No license file was found, but licenses were detected in source scan.

```
/*_##########################################################################
 _##
 _##  SNMP4J 2 - UdpAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##########################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/UdpAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##########################################################################
 _##
 _##  SNMP4J 2 - MessageLength.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##########################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-

jar/org/snmp4j/transport/MessageLength.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SubIndexInfo.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/SubIndexInfo.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AssignableFromString.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AssignableFromString.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - MutablePDU.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/MutablePDU.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - TlsTmSecurityCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/tls/TlsTmSecurityCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - WorkerPool.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/WorkerPool.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - SshAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/SshAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthMD5.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthMD5.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityProtocol.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityProtocol.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CertifiedIdentity.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/CertifiedIdentity.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmUserTable.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
```

```
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmUserTable.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultTcpTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/DefaultTcpTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Salt.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
```

```
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/Salt.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MPv3.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MPv3.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecureTarget.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
```

```
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/SecureTarget.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - OID.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/OID.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TsmSecurityStateReference.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
```

```
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/TsmSecurityStateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityNameMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/tls/SecurityNameMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
```

```
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/TransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Integer32.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Integer32.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - VariableTextFormat.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
```

```
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/VariableTextFormat.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ScopedPDU.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/ScopedPDU.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityParameters.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
```

```
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityParameters.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - USM.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/USM.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CommandResponderEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
```

```
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/CommandResponderEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES256With3DESKeyExtension.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/nonstandard/PrivAES256With3DESKeyExtension.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmTimeTable.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
```

```
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmTimeTable.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultCounterListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/DefaultCounterListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmUserEntry.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
```

```
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmUserEntry.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - VariableBinding.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/VariableBinding.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES192.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
```

```
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivAES192.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmUser.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmUser.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportStateEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TransportStateEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityStateReference.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityStateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Session.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/Session.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivAES.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Variable.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Variable.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - User.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/User.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - NoLogger.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/NoLogger.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AbstractTarget.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/AbstractTarget.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Counter64.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Counter64.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SimpleMessageID.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/SimpleMessageID.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - SnmpURI.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/uri/SnmpURI.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - WorkerTask.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/WorkerTask.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - MultiThreadedMessageDispatcher.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/MultiThreadedMessageDispatcher.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES192With3DESKeyExtension.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/nonstandard/PrivAES192With3DESKeyExtension.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - OIDTextFormat.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/OIDTextFormat.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpConstants.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/SnmpConstants.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - AuthenticationFailureEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/AuthenticationFailureEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - Priv3DES.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/Priv3DES.java

No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageLengthDecoder.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/MessageLengthDecoder.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivDES.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivDES.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DummyTransport.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/DummyTransport.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TimeoutModel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/TimeoutModel.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - ThreadFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - SimpleVariableTextFormat.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/SimpleVariableTextFormat.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MultiThreadedTrapReceiver.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/test/MultiThreadedTrapReceiver.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TreeListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
```

```
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TreeListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - LogFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/LogFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SecurityModel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
```

```
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/SecurityModel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TSM.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/TSM.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - EnumerationIterator.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
```

```
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/EnumerationIterator.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthSHA.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthSHA.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Counter32.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
```

```
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/Counter32.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - BEROutputStream.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/asn1/BEROutputStream.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TimedMessageID.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/TimedMessageID.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpUriCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/uri/SnmpUriCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthenticationFailureListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
```

```
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/AuthenticationFailureListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CommonTimer.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/CommonTimer.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpUriResponse.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
```

```
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/uri/SnmpUriResponse.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthHMAC256SHA384.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthHMAC256SHA384.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultTimeoutModel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
```

```
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/DefaultTimeoutModel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthSHA2.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthSHA2.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MutableStateReference.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
```

```
 _##
 _##     http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MutableStateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PDUv1.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##     http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/PDUv1.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthHMAC192SHA256.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
```

```
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthHMAC192SHA256.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportMappings.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TransportMappings.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TlsAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
```

```
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/TlsAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MPv1.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MPv1.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - VariantVariableCallback.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
```

```
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/VariantVariableCallback.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivAES256.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivAES256.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AssignableFromIntArray.java
 _##
```

```
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AssignableFromIntArray.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - BER.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/asn1/BER.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpEngineEvent.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/SnmpEngineEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TreeUtils.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TreeUtils.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - SshSession.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/ssh/SshSession.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TaskScheduler.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TaskScheduler.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
```

```
 _##
 _##  SNMP4J 2 - AbstractVariable.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AbstractVariable.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Log4jLogAdapter.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/Log4jLogAdapter.java

No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CounterSupport.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/CounterSupport.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmSecurityStateReference.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-

jar/org/snmp4j/security/UsmSecurityStateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TableListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/TableListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PrivacyProtocol.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):

* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/PrivacyProtocol.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - SNMP4JSettings.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/SNMP4JSettings.java
No license file was found, but licenses were detected in source scan.

```
/*_###############################################################################
 _##
 _##  SNMP4J 2 - UsmUserListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _###############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/UsmUserListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - JavaLogFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/JavaLogFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UnsignedInteger32.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/UnsignedInteger32.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - ResponseEvent.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/ResponseEvent.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - LogControl.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
```

```
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/tools/console/LogControl.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageProcessingModel.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MessageProcessingModel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - RequestStatistics.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/RequestStatistics.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Log4jLogFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/Log4jLogFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PduHandle.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
```

```
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/PduHandle.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - StatusInformation.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/StatusInformation.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportListener.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
```

```
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/TransportListener.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - BERInputStream.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/asn1/BERInputStream.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - MessageID.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
```

```
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/MessageID.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UdpTransportMapping.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/transport/UdpTransportMapping.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - CertifiedTarget.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
```

```
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/CertifiedTarget.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AssignableFromLong.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/AssignableFromLong.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthHMAC128SHA224.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
```

```
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthHMAC128SHA224.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SchedulerTask.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/SchedulerTask.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - AuthGeneric.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
```

```
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/AuthGeneric.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TcpAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/TcpAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Snmp.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
```

```
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/Snmp.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TransportIpAddress.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/TransportIpAddress.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - UsmSecurityParameters.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
```

```
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/UsmSecurityParameters.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - TimeTicks.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/TimeTicks.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - LogLevel.java
 _##
```

```
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/LogLevel.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - SnmpRequest.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/tools/console/SnmpRequest.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - StateReference.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/mp/StateReference.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - OctetString.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/smi/OctetString.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - LogAdapter.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/LogAdapter.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - LogProxy.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/log/LogProxy.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - Target.java
```

```
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/Target.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - DefaultThreadFactory.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/util/DefaultThreadFactory.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
```

```
 _##  SNMP4J 2 - ByteArrayWindow.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/security/ByteArrayWindow.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
 _##
 _##  SNMP4J 2 - PDU.java
 _##
 _##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
 _##
 _##  Licensed under the Apache License, Version 2.0 (the "License");
 _##  you may not use this file except in compliance with the License.
 _##  You may obtain a copy of the License at
 _##
 _##      http://www.apache.org/licenses/LICENSE-2.0
 _##
 _##  Unless required by applicable law or agreed to in writing, software
 _##  distributed under the License is distributed on an "AS IS" BASIS,
 _##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 _##  See the License for the specific language governing permissions and
 _##  limitations under the License.
 _##
 _##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/PDU.java
No license file was found, but licenses were detected in source scan.

```
/*_##############################################################################
```

```
_##
_##  SNMP4J 2 - UsmUserEvent.java
_##
_##  Copyright (C) 2003-2016  Frank Fock and Jochen Katz (SNMP4J.org)
_##
_##  Licensed under the Apache License, Version 2.0 (the "License");
_##  you may not use this file except in compliance with the License.
_##  You may obtain a copy of the License at
_##
_##      http://www.apache.org/licenses/LICENSE-2.0
_##
_##  Unless required by applicable law or agreed to in writing, software
_##  distributed under the License is distributed on an "AS IS" BASIS,
_##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
_##  See the License for the specific language governing permissions and
_##  limitations under the License.
_##
_##############################################################################*/
```

Found in path(s):
* /opt/cola/permits/1144137761_1615854213.89/0/snmp4j-2-5-5-sources-1-jar/org/snmp4j/event/UsmUserEvent.java

1.697 edk2 1.30

1.697.1 Available under license :

```
License-History.txt
===================

This file contains the history of license change and contributor's agreement
changes.

Unless otherwise noted in a specific file, the EDK2 project is now licensed
under the terms listed in the License.txt file.  Terms under which Contributions
made prior to the move to the License.txt formulation are shown below.  Those
terms require notice of the terms themselves be preserved and presented with the
contributions.  This file serves that preservation purpose as a matter of
documenting the history of the project.

Key Dates
----------
* August 3, 2017

 Update the TianoCore Contribution Agreement from Version 1.0
 to Version 1.1 to cover open source documentation associated
 with the TianoCore project.
```

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:
https://opensource.org/licenses/BSD-2-Clause
Complete text of TianoCore Contribution Agreement 1.0 included below
Complete text of TianoCore Contribution Agreement 1.1 included below

Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for
the TianoCore Contribution Agreement.

References:
https://opensource.org/licenses/BSD-2-Clause
Complete text of TianoCore Contribution Agreement 1.0 included below
Complete text of TianoCore Contribution Agreement 1.1 included below
https://opensource.org/licenses/BSDplusPatent

Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
https://lists.01.org/pipermail/edk2-devel/2019-March/037500.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=1373

License.txt: BSD 2-Clause License

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in
the documentation and/or other materials provided with the
distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Contributions.txt: TianoCore Contribution Agreement 1.1

```
  ======================
  = Code Contributions =
  ======================

  To make a contribution to a TianoCore project, follow these steps.
  1. Create a change description in the format specified below to
     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
     that the project documents on its web page.  If the process is
     not documented, then submit the code on development email list
     for the project.
  5. It is preferred that contributions are submitted using the same
     copyright license as the base project. When that is not possible,
     then contributions using the following licenses can be accepted:
     * BSD (2-clause): http://opensource.org/licenses/BSD-2-Clause
     * BSD (3-clause): http://opensource.org/licenses/BSD-3-Clause
     * MIT: http://opensource.org/licenses/MIT
     * Python-2.0: http://opensource.org/licenses/Python-2.0
     * Zlib: http://opensource.org/licenses/Zlib

     For documentation:
     * FreeBSD Documentation License
       https://www.freebsd.org/copyright/freebsd-doc-license.html
```

Contributions of code put into the public domain can also be
accepted.

Contributions using other licenses might be accepted, but further
review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This

identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
made under the terms of the contribution agreement. This
agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
by their real/legal name and their email address.

==========
= TianoCore Contribution Agreement 1.1 =
==========

INTEL CORPORATION ("INTEL") MAKES AVAILABLE SOFTWARE, DOCUMENTATION ("DOCUMENTATION"), INFORMATION AND/OR OTHER MATERIALS FOR USE IN THE TIANOCORE OPEN SOURCE PROJECT (COLLECTIVELY "CONTENT"). USE OF THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT BETWEEN YOU AND INTEL AND/OR THE TERMS AND CONDITIONS OF LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. BY USING THE CONTENT, YOU AGREE THAT YOUR USE OF THE CONTENT IS GOVERNED BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU MAY NOT USE THE CONTENT.

Unless otherwise indicated, all Content (except Documentation) made available
on the TianoCore site is provided to you under the terms and conditions of the
BSD License ("BSD"). A copy of the BSD License is available at
http://opensource.org/licenses/bsd-license.php
or when applicable, in the associated License.txt file.

Unless otherwise indicated, all Documentation made available on the
TianoCore site is provided to you under the terms and conditions of the
FreeBSD Documentation License ("FreeBSD"). A copy of the license is
available at https://www.freebsd.org/copyright/freebsd-doc-license.html or,
when applicable, in the associated License.txt file.

Certain other content may be made available under other licenses as
indicated in or with such Content (for example, in a License.txt file).

You accept and agree to the following terms and conditions for Your present and future Contributions submitted to TianoCore site. Except for the license granted to Intel hereunder, You reserve all right, title, and interest in and to Your Contributions.

== SECTION 1: Definitions ==

* "You" or "Contributor" shall mean the copyright owner or legal entity authorized by the copyright owner that is making a Contribution hereunder. All other entities that control, are controlled by, or are under common control with that entity are considered to be a single Contributor. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
* "Contribution" shall mean any original work of authorship, including any modifications or additions to an existing work, that is intentionally submitted by You to the TianoCore site for inclusion in, or documentation of, any of the Content. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the TianoCore site or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the TianoCore site for the purpose of discussing and improving the Content, but excluding communication that is conspicuously marked or otherwise designated in writing by You as "Not a Contribution."

== SECTION 2: License for Contributions ==

* Contributor hereby agrees that redistribution and use of the Contribution in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
** Redistributions of source code must retain the Contributor's copyright notice, this list of conditions and the following disclaimer.
** Redistributions in binary form must reproduce the Contributor's copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Disclaimer. None of the names of Contributor, Intel, or the names of their respective contributors may be used to endorse or promote products derived from this software without specific prior written permission.
* Contributor grants a license (with the right to sublicense) under claims of Contributor's patents that Contributor can license that

are infringed by the Contribution (as delivered by Contributor) to
make, use, distribute, sell, offer for sale, and import the
Contribution and derivative works thereof solely to the minimum
extent necessary for licensee to exercise the granted copyright
license; this patent license applies solely to those portions of
the Contribution that are unmodified. No hardware per se is
licensed.

* EXCEPT AS EXPRESSLY SET FORTH IN SECTION 3 BELOW, THE
CONTRIBUTION IS PROVIDED BY THE CONTRIBUTOR "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
CONTRIBUTOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE
CONTRIBUTION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

== SECTION 3: Representations ==

* You represent that You are legally entitled to grant the above
license. If your employer(s) has rights to intellectual property
that You create that includes Your Contributions, You represent
that You have received permission to make Contributions on behalf
of that employer, that Your employer has waived such rights for
Your Contributions.

* You represent that each of Your Contributions is Your original
creation (see Section 4 for submissions on behalf of others).
You represent that Your Contribution submissions include complete
details of any third-party license or other restriction
(including, but not limited to, related patents and trademarks)
of which You are personally aware and which are associated with
any part of Your Contributions.

== SECTION 4: Third Party Contributions ==

* Should You wish to submit work that is not Your original creation,
You may submit it to TianoCore site separately from any
Contribution, identifying the complete details of its source
and of any license or other restriction (including, but not
limited to, related patents, trademarks, and license agreements)
of which You are personally aware, and conspicuously marking the
work as "Submitted on behalf of a third-party: [named here]".

== SECTION 5: Miscellaneous ==

* Applicable Laws. Any claims arising under or relating to this

Agreement shall be governed by the internal substantive laws of
the State of Delaware or federal courts located in Delaware,
without regard to principles of conflict of laws.
* Language. This Agreement is in the English language only, which
language shall be controlling in all respects, and all versions
of this Agreement in any other language shall be for accommodation
only and shall not be binding. All communications and notices made
or given pursuant to this Agreement, and all documentation and
support to be provided, unless otherwise noted, shall be in the
English language.

Contributions.txt: TianoCore Contribution Agreement 1.0

```
=====================
= Code Contributions =
=====================

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement.  Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.0
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page.  If the process is
   not documented, then submit the code on development email list
   for the project.
5. It is preferred that contributions are submitted using the same
   copyright license as the base project. When that is not possible,
   then contributions using the following licenses can be accepted:
   * BSD (2-clause): http://opensource.org/licenses/BSD-2-Clause
   * BSD (3-clause): http://opensource.org/licenses/BSD-3-Clause
   * MIT: http://opensource.org/licenses/MIT
   * Python-2.0: http://opensource.org/licenses/Python-2.0
   * Zlib: http://opensource.org/licenses/Zlib

   Contributions of code put into the public domain can also be
   accepted.

   Contributions using other licenses might be accepted, but further
```

review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitely states that the contribution is
  made under the terms of the contribtion agreement. This
  agreement is included below in this document.

* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

==========
= TianoCore Contribution Agreement 1.0 =
==========

INTEL CORPORATION ("INTEL") MAKES AVAILABLE SOFTWARE, DOCUMENTATION, INFORMATION AND/OR OTHER MATERIALS FOR USE IN THE TIANOCORE OPEN SOURCE PROJECT (COLLECTIVELY "CONTENT"). USE OF THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT BETWEEN YOU AND INTEL AND/OR THE TERMS AND CONDITIONS OF LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. BY USING THE CONTENT, YOU AGREE THAT YOUR USE OF THE CONTENT IS GOVERNED BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU MAY NOT USE THE CONTENT.

Unless otherwise indicated, all Content made available on the TianoCore
site is provided to you under the terms and conditions of the BSD
License ("BSD"). A copy of the BSD License is available at
http://opensource.org/licenses/bsd-license.php
or when applicable, in the associated License.txt file.

Certain other content may be made available under other licenses as
indicated in or with such Content. (For example, in a License.txt file.)

You accept and agree to the following terms and conditions for Your
present and future Contributions submitted to TianoCore site. Except
for the license granted to Intel hereunder, You reserve all right,
title, and interest in and to Your Contributions.

== SECTION 1: Definitions ==
* "You" or "Contributor" shall mean the copyright owner or legal
  entity authorized by the copyright owner that is making a
  Contribution hereunder. All other entities that control, are
  controlled by, or are under common control with that entity are
  considered to be a single Contributor. For the purposes of this
  definition, "control" means (i) the power, direct or indirect, to
  cause the direction or management of such entity, whether by
  contract or otherwise, or (ii) ownership of fifty percent (50%)
  or more of the outstanding shares, or (iii) beneficial ownership
  of such entity.
* "Contribution" shall mean any original work of authorship,
  including any modifications or additions to an existing work,
  that is intentionally submitted by You to the TinaoCore site for

inclusion in, or documentation of, any of the Content. For the
purposes of this definition, "submitted" means any form of
electronic, verbal, or written communication sent to the
TianoCore site or its representatives, including but not limited
to communication on electronic mailing lists, source code
control systems, and issue tracking systems that are managed by,
or on behalf of, the TianoCore site for the purpose of
discussing and improving the Content, but excluding
communication that is conspicuously marked or otherwise
designated in writing by You as "Not a Contribution."

== SECTION 2: License for Contributions ==
* Contributor hereby agrees that redistribution and use of the
Contribution in source and binary forms, with or without
modification, are permitted provided that the following
conditions are met:
** Redistributions of source code must retain the Contributor's
copyright notice, this list of conditions and the following
disclaimer.
** Redistributions in binary form must reproduce the Contributor's
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
* Disclaimer. None of the names of Contributor, Intel, or the names
of their respective contributors may be used to endorse or
promote products derived from this software without specific
prior written permission.
* Contributor grants a license (with the right to sublicense) under
claims of Contributor's patents that Contributor can license that
are infringed by the Contribution (as delivered by Contributor) to
make, use, distribute, sell, offer for sale, and import the
Contribution and derivative works thereof solely to the minimum
extent necessary for licensee to exercise the granted copyright
license; this patent license applies solely to those portions of
the Contribution that are unmodified. No hardware per se is
licensed.
* EXCEPT AS EXPRESSLY SET FORTH IN SECTION 3 BELOW, THE
CONTRIBUTION IS PROVIDED BY THE CONTRIBUTOR "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
CONTRIBUTOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE

CONTRIBUTION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

== SECTION 3: Representations ==
* You represent that You are legally entitled to grant the above
license. If your employer(s) has rights to intellectual property
that You create that includes Your Contributions, You represent
that You have received permission to make Contributions on behalf
of that employer, that Your employer has waived such rights for
Your Contributions.
* You represent that each of Your Contributions is Your original
creation (see Section 4 for submissions on behalf of others).
You represent that Your Contribution submissions include complete
details of any third-party license or other restriction
(including, but not limited to, related patents and trademarks)
of which You are personally aware and which are associated with
any part of Your Contributions.

== SECTION 4: Third Party Contributions ==
* Should You wish to submit work that is not Your original creation,
You may submit it to TianoCore site separately from any
Contribution, identifying the complete details of its source
and of any license or other restriction (including, but not
limited to, related patents, trademarks, and license agreements)
of which You are personally aware, and conspicuously marking the
work as "Submitted on behalf of a third-party: [named here]".

== SECTION 5: Miscellaneous ==
* Applicable Laws. Any claims arising under or relating to this
Agreement shall be governed by the internal substantive laws of
the State of Delaware or federal courts located in Delaware,
without regard to principles of conflict of laws.
* Language. This Agreement is in the English language only, which
language shall be controlling in all respects, and all versions
of this Agreement in any other language shall be for accommodation
only and shall not be binding. All communications and notices made
or given pursuant to this Agreement, and all documentation and
support to be provided, unless otherwise noted, shall be in the
English language.

Copyright (c) 2012 - 2019, Intel Corporation. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,

this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder and contributor hereby grants to those receiving rights under this license a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except for failure to satisfy the conditions of this license) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer this software, where such license applies only to those patent claims, already acquired or hereafter acquired, licensable by such copyright holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and non-copyrightable additions of contributors, in source or binary form) alone; or

(b) combination of their Contribution(s) with the work of authorship to which such Contribution(s) was added by such copyright holder or contributor, if, at the time the Contribution is added, such addition causes such combination to be necessarily infringed. The patent license shall not apply to any other combinations which include the Contribution.

Except as expressly stated above, no rights or licenses from any copyright holder or contributor is granted under this license, whether expressly, by implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Some files are subject to the following license, the MIT license. Those files are located in:

- OvmfPkg/Include/IndustryStandard/Xen/
- OvmfPkg/XenBusDxe/

SPDX-License-Identifier: MIT

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next paragraph) shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2020, Rebecca Cran <rebecca@bsdio.com>
Copyright (c) 2004 - 2019, Intel Corporation. All rights reserved.
Copyright (C) 2018, Red Hat, Inc.
Copyright (c) 2017, Advanced Micro Devices. All rights reserved.
Copyright (C) 2016, Red Hat, Inc.
(C) Copyright 2016 Hewlett Packard Enterprise Development LP
Copyright (c) 2015 Nahanni Systems
Copyright (C) 2015, Red Hat, Inc.
Copyright (C) 2014, Red Hat, Inc.
Copyright (c) 2014, Pluribus Networks, Inc.
Copyright (C) 2013, Red Hat, Inc.
Copyright (c) 2012, 2013, Red Hat, Inc.
Copyright (c) 2011, Bei Guan <gbtju85@gmail.com>
Copyright (c) 2011, Andrei Warkentin <andreiw@motorola.com>
Portions copyright (c) 2011, Apple Inc. All rights reserved.
Portions copyright (c) 2010,Apple Inc. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder
and contributor hereby grants to those receiving rights under this license
a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except for failure to satisfy the conditions of this license) patent
license to make, have made, use, offer to sell, sell, import, and otherwise
transfer this software, where such license applies only to those patent
claims, already acquired or hereafter acquired, licensable by such copyright
holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and
non-copyrightable additions of contributors, in source or binary form)
alone; or

(b) combination of their Contribution(s) with the work of authorship to
which such Contribution(s) was added by such copyright holder or
contributor, if, at the time the Contribution is added, such addition
causes such combination to be necessarily infringed. The patent license
shall not apply to any other combinations which include the
Contribution.

Except as expressly stated above, no rights or licenses from any copyright
holder or contributor is granted under this license, whether expressly, by
implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2019, TianoCore and contributors. All rights reserved.

SPDX-License-Identifier: BSD-2-Clause-Patent

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Subject to the terms and conditions of this license, each copyright holder and contributor hereby grants to those receiving rights under this license a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except for failure to satisfy the conditions of this license) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer this software, where such license applies only to those patent claims, already acquired or hereafter acquired, licensable by such copyright holder or contributor that are necessarily infringed by:

(a) their Contribution(s) (the licensed copyrights of copyright holders and non-copyrightable additions of contributors, in source or binary form) alone; or

(b) combination of their Contribution(s) with the work of authorship to which such Contribution(s) was added by such copyright holder or contributor, if, at the time the Contribution is added, such addition causes such combination to be necessarily infringed. The patent license shall not apply to any other combinations which include the Contribution.

Except as expressly stated above, no rights or licenses from any copyright holder or contributor is granted under this license, whether expressly, by implication, estoppel or otherwise.

DISCLAIMER

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.698 grpc 1.15.1

1.698.1 Available under license :

Copyright (c) 2013, Dominic Tarr
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those
of the authors and should not be interpreted as representing official policies,
either expressed or implied, of the FreeBSD Project.
The MIT License (MIT)

Copyright (c) Feross Aboukhadijeh

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2016, Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright 2010 James Halliday (mail@substack.net)

This project is free software released under the MIT/X11 license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This software is dual-licensed under the ISC and MIT licenses.
You may use this software under EITHER of the following licenses.

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright Isaac Z. Schlueter and Contributors
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,

WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
Apache License, Version 2.0

Copyright (c) 2011 Dominic Tarr

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
MIT License

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

Copyright (c) Fork, Ltd.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
BoringSSL is a fork of OpenSSL. As such, large parts of it fall under OpenSSL
licensing. Files that are completely new have a Google copyright and an ISC
license. This license is reproduced at the bottom of this file.

Contributors to BoringSSL are required to follow the CLA rules for Chromium:
https://cla.developers.google.com/clas

Files in third_party/ have their own licenses, as described therein. The MIT
license, for third_party/fiat, which, unlike other third_party directories, is
compiled into non-test libraries, is included below.

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the
OpenSSL License and the original SSLeay license apply to the toolkit. See below
for the actual license texts. Actually both licenses are BSD-style Open Source
licenses. In case of any license issues related to OpenSSL please contact
openssl-core@openssl.org.

The following are Google-internal bug numbers where explicit permission from
some authors is recorded for use of their work. (This is purely for our own
record keeping.)
27287199
27287880
27287883

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2011 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
```

```
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to.  The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code.  The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
```

*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed. i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/

ISC license used for completely new code in BoringSSL:

/* Copyright (c) 2015, Google Inc.
*
* Permission to use, copy, modify, and/or distribute this software for any
* purpose with or without fee is hereby granted, provided that the above
* copyright notice and this permission notice appear in all copies.
*
* THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
* WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
* MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY
* SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION
* OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
* CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. */

The code in third_party/fiat carries the MIT license:

Copyright (c) 2015-2016 the fiat-crypto authors (see
https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Licenses for support code

Parts of the TLS test suite are under the Go license. This code is not included in BoringSSL (i.e. libcrypto and libssl) when compiled, however, so distributing code linked against BoringSSL does not trigger this license:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

BoringSSL uses the Chromium test infrastructure to run a continuous build, trybots etc. The scripts which manage this, and the script for generating build metadata, are under the Chromium license. Distributing code linked against BoringSSL does not trigger this license.

Copyright 2015 The Chromium Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2015-2016 the fiat-crypto authors (see https://github.com/mit-plv/fiat-crypto/blob/master/AUTHORS).

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2008, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License

Copyright (c) 2011 Dominic Tarr

Permission is hereby granted, free of charge,
to any person obtaining a copy of this software and
associated documentation files (the "Software"), to
deal in the Software without restriction, including
without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom
the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice
shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR
ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2011 Alexander Shtuchkin

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2010-2011, Ethan Rublee
Copyright (c) 2011-2014, Andrey Kamaev
Copyright (c) 2014, Pavel Rojtberg
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
   this list of conditions and the following disclaimer in the documentation
   and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
   contributors may be used to endorse or promote products derived from this

software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2014 gRPC authors.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2011 Petteri Aimonen <jpa at nanopb.mail.kapsi.fi>

This software is provided 'as-is', without any express or
implied warranty. In no event will the authors be held liable
for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any
purpose, including commercial applications, and to alter it and
redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
must not claim that you wrote the original software. If you use
this software in a product, an acknowledgment in the product
documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and
must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source
distribution.
Copyright (c) 2015 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

====

`String.fromCodePoint` by Mathias Bynens used according to terms of MIT
License, as follows:

Copyright Mathias Bynens <https://mathiasbynens.be/>

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) Sindre Sorhus <sindresorhus@gmail.com> (sindresorhus.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The ISC License

Copyright (c) Isaac Z. Schlueter

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including

the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License.

You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

(The MIT License)

Copyright (c) 2014 Nathan Rajlich <nathan@tootallnate.net>

Permission is hereby granted, free of charge, to any person
obtaining a copy of this software and associated documentation
files (the "Software"), to deal in the Software without
restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

(The MIT License)

Copyright (c) 2014 TJ Holowaychuk <tj@vision-media.ca>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT
LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
(MIT)

Copyright (c) 2013 Julian Gruber <julian@juliangruber.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The ISC License

Copyright (c) 2015, Contributors

Permission to use, copy, modify, and/or distribute this software

for any purpose with or without fee is hereby granted, provided
that the above copyright notice and this permission notice
appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE
LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES
OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
Copyright (c) 2015 Calvin Metcalf

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

**THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.**
Copyright (c), Mapbox

All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.
* Neither the name of node-pre-gyp nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Node.js is licensed for use as follows:

"""
Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
"""

This license applies to parts of Node.js originating from the https://github.com/joyent/node repository:

"""
Copyright Joyent, Inc. and other Node contributors. All rights reserved.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
"""

Copyright (c) 2015, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2014, Rebecca Turner <me@re-becca.org>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The MIT License (MIT)

Copyright (c) 2013-2018, Viacheslav Lotsmanov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2018 Nikita Skovoroda <chalkerx@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This software is released under the MIT license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Rebecca Turner

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby

granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
The ISC License

Copyright (c) Isaac Z. Schlueter and Contributors

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

This library bundles a version of the `fs.realpath` and `fs.realpathSync`
methods from Node.js v0.10 under the terms of the Node.js MIT license.

Node's license follows, also included at the header of `old.js` which contains
the licensed code:

Copyright Joyent, Inc. and other Node contributors.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Minizlib was created by Isaac Z. Schlueter.
It is a derivative work of the Node.js project.

"""
Copyright Isaac Z. Schlueter and Contributors
Copyright Node.js contributors. All rights reserved.
Copyright Joyent, Inc. and other Node contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
"""
The MIT License (MIT)

Copyright (c) 2016 Zeit, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only

on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.699 packaging 19.2

1.699.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but

excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its

distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise,

unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

This software is made available under the terms of *either* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made under the terms of *both* these licenses.

Copyright (c) Donald Stufft and individual contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.700 zstd 1.4.4

1.700.1 Available under license :

BSD License

For Zstandard software

Copyright (c) 2016-present, Facebook, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name Facebook nor the names of its contributors may be used to
  endorse or promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Simplified BSD License

Copyright (c) 2016, Datadog <info@datadoghq.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.701 ethtool 4.19

1.701.1 Available under license :

ethtool is available under the terms of the GNU Public License version 2.

See COPYING for details.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program

is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is

implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE

PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.702 binutils 2.25.1

1.702.1 Available under license :

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is

the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or

link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license

restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by

the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must

be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your

rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus

Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

Copyright (C) 2012-2014 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification,
are permitted in any medium without royalty provided the copyright
notice and this notice are preserved.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially.

Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a

section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available @acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following

text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent

pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add
to it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section Entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History'' in the various original documents, forming one section Entitled ``History''; likewise combine any sections Entitled ``Acknowledgements'', and any sections Entitled ``Dedications''. You must delete all sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole

aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently

reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole

or in part into the MMC, (1) had no cover texts or invariant sections,
and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site
under CC-BY-SA on the same site at any time before August 1, 2009,
provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts." line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we

want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the

Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions

of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street - Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]
@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software---typically libraries---of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid

distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public

License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate

properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the

Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any
attempt otherwise to copy, modify, sublicense, link with, or
distribute the Library is void, and will automatically terminate your
rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not
signed it. However, nothing else grants you permission to modify or
distribute the Library or its derivative works. These actions are
prohibited by law if you do not accept this License. Therefore, by
modifying or distributing the Library (or any work based on the
Library), you indicate your acceptance of this License to do so, and
all its terms and conditions for copying, distributing or modifying
the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients' exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.

@item
If, as a consequence of a court judgment or allegation of patent
infringement or for any other reason (not limited to patent issues),
conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot
distribute so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you
may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to

refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and ``any later version'', you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@center NO WARRANTY

@item
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is

safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it
under the terms of the GNU Lesser General Public License as published by
the Free Software Foundation; either version 2.1 of the License, or (at
your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates

the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs

whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the

manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version"

applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive

or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work

in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the

Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply

if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or

requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for

sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify

or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate

parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.703 eudev 3.2.7

1.703.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.

These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt

otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that

system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it

under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.704 gopkg.in-inf 0.9.1

1.704.1 Available under license :

Copyright (c) 2012 Pter Surnyi. Portions Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT

OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.705 recode 3.6

1.705.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their

rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License

along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER

PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge

for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General

Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.
^L
GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other
program which contains a notice placed by the copyright holder or
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates

the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.
^L
14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.706 hcl 1.0.1-vault-3

1.706.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate

file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You

fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such

partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses
If You choose to distribute Source Code Form that is Incompatible With

Secondary Licenses under the terms of this version of the License, the
notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then
You may include the notice in a location (such as a LICENSE file in a relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible
With Secondary Licenses, as defined by
the Mozilla Public License, v. 2.0.

1.707 mdadm 3.3.4

1.707.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another

language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in

themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY

FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.708 zlib 1.2.7

1.708.1 Available under license :

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.709 tdb 1.42.9

1.709.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for

unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further

restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's

public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.710 gopkg.in-yaml 2.4.0

1.710.1 Available under license :

Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.711 protobuf 3.0.0

1.711.1 Available under license :

<OWNER> = Regents of the University of California
<ORGANIZATION> = University of California, Berkeley
<YEAR> = 1998

In the original BSD license, both occurrences of the phrase "COPYRIGHT HOLDERS AND CONTRIBUTORS" in the disclaimer read "REGENTS AND CONTRIBUTORS".

Here is the license template:

Copyright (c) <YEAR>, <OWNER>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following

disclaimer.
Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
Neither the name of the <ORGANIZATION> nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.712 ntp 4.2.6p2

1.712.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

copyright (c) 2009 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
copyright (c) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> copyright (c) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.
This file is automatically generated from html/copyright.html

Copyright Notice

jpg "Clone me," says Dolly sheepishly.

Last update: 11-May-2010 04:41 UTC

The following copyright notice applies to all files collectively
called the Network Time Protocol Version 4 Distribution. Unless
specifically declared otherwise in an individual file, this notice
applies as if the text was explicitly included in the file.

```
*****************************************************************************
*                                                                           *
* Copyright (c) University of Delaware 1992-2010                            *
*                                                                           *
* Permission to use, copy, modify, and distribute this software and         *
* its documentation for any purpose with or without fee is hereby           *
* granted, provided that the above copyright notice appears in all          *
* copies and that both the copyright notice and this permission             *
* notice appear in supporting documentation, and that the name              *
* University of Delaware not be used in advertising or publicity            *
* pertaining to distribution of the software without specific,               *
* written prior permission. The University of Delaware makes no              *
```

```
* representations about the suitability this software for any        *
* purpose. It is provided "as is" without express or implied         *
* warranty.                                                           *
*                                                                     *
***********************************************************************
```

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. [2]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
8. [9]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
9. [10]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
10. [11]Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
11. [12]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
12. [13]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
13. [14]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
14. [15]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
15. [16]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
16. [17]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
17. [18]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
18. [19]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
19. [20]Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
20. [21]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
21. [22]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
22. [23]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
23. [24]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
24. [25]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
25. [26]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [27]<H.Lambermont@chello.nl> ntpsweep

26. [28]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
27. [29]Frank Kardel [30]<kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
28. [31]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
29. [32]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
30. [33]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
31. [34]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
32. [35]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
33. [36]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
34. [37]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
35. [38]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
36. [39]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
37. [40]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
38. [41]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
39. [42]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
40. [43]Derek Mulcahy <derek@toybox.demon.co.uk> and [44]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
41. [45]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
42. [46]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
43. [47]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
44. [48]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
45. [49]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
46. [50]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
47. [51]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
48. [52]Michael Shields <shields@tembel.org> USNO clock driver
49. [53]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
50. [54]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
51. [55]Kenneth Stone <ken@sdd.hp.com> HP-UX port
52. [56]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
53. [57]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
54. [58]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic

TrueTime clock driver

55. [59]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20mark_andrews@isc.org
2. mailto:%20altmeier@atlsoft.de
3. mailto:%20vbais@mailman1.intel.co
4. mailto:%20kirkwood@striderfm.intel.com
5. mailto:%20michael.barone@lmco.com
6. mailto:%20karl@owl.HQ.ileaf.com
7. mailto:%20greg.brackley@bigfoot.com
8. mailto:%20Marc.Brett@westgeo.com
9. mailto:%20Piete.Brooks@cl.cam.ac.uk
10. mailto:%20nelson@bolyard.me
11. mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca
12. mailto:%20reg@dwf.com
13. mailto:%20clift@ml.csiro.au
14. mailto:casey@csc.co.za
15. mailto:%20Sven_Dietrich@trimble.COM
16. mailto:%20dundas@salt.jpl.nasa.gov
17. mailto:%20duwe@immd4.informatik.uni-erlangen.de
18. mailto:%20dennis@mrbill.canet.ca
19. mailto:%20jhay@icomtek.csir.co.za
20. mailto:%20davehart@davehart.com
21. mailto:%20neoclock4x@linum.com
22. mailto:%20glenn@herald.usask.ca
23. mailto:%20iglesias@uci.edu
24. mailto:%20jagubox.gsfc.nasa.gov
25. mailto:%20jbj@chatham.usdesign.com
26. mailto:Hans.Lambermont@nl.origin-it.com
27. mailto:H.Lambermont@chello.nl
28. mailto:%20phk@FreeBSD.ORG
29. http://www4.informatik.uni-erlangen.de/%7ekardel
30. mailto:%20kardel(at)ntp(dot)org
31. mailto:%20jones@hermes.chpc.utexas.edu
32. mailto:%20dkatz@cisco.com
33. mailto:%20leres@ee.lbl.gov
34. mailto:%20lindholm@ucs.ubc.ca
35. mailto:%20louie@ni.umd.edu
36. mailto:%20thorinn@diku.dk
37. mailto:%20mayer@ntp.org
38. mailto:%20mills@udel.edu
39. mailto:%20moeller@gwdgv1.dnet.gwdg.de
40. mailto:%20mogul@pa.dec.com
41. mailto:%20tmoore@fievel.daytonoh.ncr.com

42. mailto:%20kamal@whence.com
43. mailto:%20derek@toybox.demon.co.uk
44. mailto:%20d@hd.org
45. mailto:%20neal@ntp.org
46. mailto:%20Rainer.Pruy@informatik.uni-erlangen.de
47. mailto:%20dirce@zk3.dec.com
48. mailto:%20wsanchez@apple.com
49. mailto:%20mrapple@quack.kfu.com
50. mailto:%20jack@innovativeinternet.com
51. mailto:%20schnitz@unipress.com
52. mailto:%20shields@tembel.org
53. mailto:%20pebbles.jpl.nasa.gov
54. mailto:%20harlan@pfcs.com
55. mailto:%20ken@sdd.hp.com
56. mailto:%20ajit@ee.udel.edu
57. mailto:%20tsuruoka@nc.fukuoka-u.ac.jp
58. mailto:%20vixie@vix.com
59. mailto:%20Ulrich.Windl@rz.uni-regensburg.de

```
/*********************************************************************
*                                                                   *
* Copyright (c) David L. Mills 1992-2006                            *
*                                                                   *
* Permission to use, copy, modify, and distribute this software and *
* its documentation for any purpose and without fee is hereby       *
* granted, provided that the above copyright notice appears in all  *
* copies and that both the copyright notice and this permission     *
* notice appear in supporting documentation, and that the name      *
* University of Delaware not be used in advertising or publicity    *
* pertaining to distribution of the software without specific,       *
* written prior permission. The University of Delaware makes no      *
* representations about the suitability this software for any        *
* purpose. It is provided "as is" without express or implied         *
* warranty.                                                         *
*                                                                   *
*********************************************************************/
```

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior

written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

copyright (c) 2009 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the

Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.713 idna 15.0.0

1.713.1 Available under license :

BSD 3-Clause License

Copyright (c) 2013-2021, Kim Davies
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.714 numactl 2.0.9-r0

1.714.1 Available under license :

Found license 'General Public License 2.0' in '.\" entire resulting derived work is distributed under the terms of a is under the GNU Lesser General Public License, v2.1.'
Found license 'GNU Lesser General Public License' in '.\" entire resulting derived work is distributed under the terms of a is under the GNU Lesser General Public License, v2.1.'
Found license 'GNU Lesser General Public License' in '+ libnuma is free software; you can redistribute it and/or + modify it under the terms of the GNU Lesser General Public + License as published by the Free Software Foundation; version + libnuma is distributed in the hope that it will be useful, + but WITHOUT ANY WARRANTY; without even the implied warranty of + MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU + Lesser General Public License for more details. + You should find a copy of v2.1 of the GNU Lesser General Public License'
Found license 'General Public License 2.0' in '+ * Copyright (c) 2004 Silicon Graphics, Inc. (SGI) All rights reserved. + * SGI publishes it under the terms of the GNU General Public License, v2, + * as published by the Free Software Foundation.'
Found license 'GNU Lesser General Public License' in 'numastat is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free numastat is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License # numastat is free software; you can redistribute it and/or # modify it under the terms of the GNU General Public # License as published by the Free Software Foundation; version # numastat is distributed in the hope that it will be useful, # but

WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU # General Public License for more details. # You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'General Public License 2.0' in 'is under the GNU Lesser General Public License, v2.1.'
Found license 'General Public License 2.0' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere -/* Mersenne twister implementation from Michael Brundage. Public Domain. +/* Mersenne twister implementation from Michael Brundage. Public Domain. General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'GNU Lesser General Public License' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere -/* Mersenne twister implementation from Michael Brundage. Public Domain. +/* Mersenne twister implementation from Michael Brundage. Public Domain. General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'General Public License 2.0' in 'libnuma is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; version libnuma is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License * Copyright (c) 2004_2007 Silicon Graphics, Inc. (SGI) All rights reserved. * SGI publishes it under the terms of the GNU General Public License, v2, * as published by the Free Software Foundation.'
Found license 'General Public License 2.0' in 'numactl and the demo programs are under the GNU General Public License, v.2 libnuma is under the GNU Lesser General Public License, v2.1. It also uses a public domain Mersenne Twister implementation from'
Found license 'GNU Lesser General Public License' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License'
Found license 'General Public License 2.0' in 'migratepages is under the GNU General Public License, v.2'
Found license 'GNU Lesser General Public License' in '+numastat is free software; you can redistribute it and/or modify it under the +terms of the GNU Lesser General Public License as published by the Free +numastat is distributed in the hope that it will be useful, but WITHOUT ANY +WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A +PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. +You should find a copy of v2.1 of the GNU Lesser General Public License +# numastat is free software; you can redistribute it and/or +# modify it under the terms of the GNU General Public +# License as published by the Free Software Foundation; version +# numastat is distributed in the hope that it will be useful, +# but WITHOUT ANY WARRANTY; without even the implied warranty of +# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU +# General Public License for more details. +# You

should find a copy of v2 of the GNU General Public License somewhere -.\" Permission is granted to make and distribute verbatim copies of this -.\" manual provided the copyright notice and this permission notice are -.\" Permission is granted to copy and distribute modified versions of this -.\" entire resulting derived work is distributed under the terms of a -# numastat is free software; you can redistribute it and/or -# modify it under the terms of the GNU General Public -# License as published by the Free Software Foundation; version -# numastat is distributed in the hope that it will be useful, -# but WITHOUT ANY WARRANTY; without even the implied warranty of -# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU -# General Public License for more details. -# You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'General Public License 2.0' in '+ libnuma is free software; you can redistribute it and/or + modify it under the terms of the GNU Lesser General Public + License as published by the Free Software Foundation; version + libnuma is distributed in the hope that it will be useful, + but WITHOUT ANY WARRANTY; without even the implied warranty of + MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU + Lesser General Public License for more details. + You should find a copy of v2.1 of the GNU Lesser General Public License'
Found license 'General Public License 2.0' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License'
Found license 'General Public License 2.0' in '.\" Permission is granted to make and distribute verbatim copies of this .\" manual provided the copyright notice and this permission notice are .\" Permission is granted to copy and distribute modified versions of this .\" entire resulting derived work is distributed under the terms of a is under the GNU Lesser General Public License, v2.1.'
Found license 'General Public License 2.0' in '- * Copyright (c) 2004 Silicon Graphics, Inc. (SGI) All rights reserved. + * Copyright (c) 2004_2007 Silicon Graphics, Inc. (SGI) All rights reserved. * SGI publishes it under the terms of the GNU General Public License, v2, * as published by the Free Software Foundation.'
Found license 'GNU Lesser General Public License' in '.\" Permission is granted to make and distribute verbatim copies of this .\" manual provided the copyright notice and this permission notice are .\" Permission is granted to copy and distribute modified versions of this .\" entire resulting derived work is distributed under the terms of a is under the GNU Lesser General Public License, v2.1.'
Found license 'General Public License 2.0' in '+numastat is free software; you can redistribute it and/or modify it under the +terms of the GNU Lesser General Public License as published by the Free +numastat is distributed in the hope that it will be useful, but WITHOUT ANY +WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A +PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. +You should find a copy of v2.1 of the GNU Lesser General Public License +# numastat is free software; you can redistribute it and/or +# modify it under the terms of the GNU General Public +# License as published by the Free Software Foundation; version +# numastat is distributed in the hope that it will be useful, +# but WITHOUT ANY WARRANTY; without even the implied warranty of +# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU +# General Public License for more details. +# You should find a copy of v2 of the GNU General Public License somewhere -.\" Permission is granted to make and distribute verbatim copies of this -.\" manual provided the copyright notice and this permission notice are -.\" Permission is granted to copy and distribute modified versions of this -.\" entire resulting derived work is distributed under the terms of a -# numastat is free software; you can redistribute it and/or -# modify it under the terms of the GNU General Public -# License as published by the Free Software Foundation; version -# numastat is distributed in the hope that it will be useful, -# but WITHOUT ANY WARRANTY; without even the implied warranty of -# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU -# General Public License for more details. -# You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'GNU Lesser General Public License' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere -/* Mersenne twister implementation from

Michael Brundage. Public Domain. +/* Mersenne twister implementation from Michael Brundage. Public Domain. Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'

Found license 'General Public License 2.0' in 'numamon is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; version numamon is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'

Found license 'General Public License 2.0' in 'libnuma is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; version libnuma is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License'

Found license 'GNU Lesser General Public License' in 'libnuma is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; version libnuma is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License * Copyright (c) 2004_2007 Silicon Graphics, Inc. (SGI) All rights reserved. * SGI publishes it under the terms of the GNU General Public License, v2, * as published by the Free Software Foundation.'

Found license 'General Public License 2.0' in 'numastat is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free numastat is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License # numastat is free software; you can redistribute it and/or # modify it under the terms of the GNU General Public # License as published by the Free Software Foundation; version # numastat is distributed in the hope that it will be useful, # but WITHOUT ANY WARRANTY; without even the implied warranty of # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU # General Public License for more details. # You should find a copy of v2 of the GNU General Public License somewhere'

Found license 'GNU Lesser General Public License' in 'numactl and the demo programs are under the GNU General Public License, v.2 libnuma is under the GNU Lesser General Public License, v2.1. It also uses a public domain Mersenne Twister implementation from'

Found license 'GNU Lesser General Public License' in 'is under the GNU Lesser General Public License, v2.1.'

Found license 'General Public License 2.0' in 'Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere -/* Mersenne twister implementation from Michael Brundage. Public Domain. +/* Mersenne twister implementation from Michael Brundage. Public Domain. Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License

somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'General Public License 2.0' in '+migratepages is under the GNU General Public License, v.2'
Found license 'General Public License 2.0' in '* migratepages is free software; you can redistribute it and/or * modify it under the terms of the GNU General Public * License as published by the Free Software Foundation; version 2. * migratepages is distributed in the hope that it will be useful, * but WITHOUT ANY WARRANTY; without even the implied warranty of * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU * General Public License for more details. * You should find a copy of v2 of the GNU General Public License somewhere'
Found license 'GNU Lesser General Public License' in 'libnuma is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; version libnuma is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should find a copy of v2.1 of the GNU Lesser General Public License'
Found license 'General Public License 2.0' in 'numactl is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; version numactl is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should find a copy of v2 of the GNU General Public License somewhere'

1.715 logr 1.2.2

1.715.1 Available under license :

MIT License

Copyright (c) 2018 EveryMundo

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.716 lua 5.2.4

1.717 libnss-nisplus 1.3

1.717.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for

you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is

included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by

the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: libnss_nisplus
Upstream-Contact: Thorsten Kukuk <kukuk@thkukuk.de>
Source: https://github.com/thkukuk/libnss_nisplus

Files: debian/*
Copyright: 2020 Aurelien Jarno <aurel32@debian.org>
License: LGPL-2.1+

Files: .gitignore
AUTHORS
ChangeLog
Makefile.am
NEWS
README

autogen.sh
config.h.in
configure.ac
src/Makefile.am
src/libnss_nisplus.map
Copyright: 2015 Thorsten Kukuk <kukuk@thkukuk.de>
License: LGPL-2.1+

Files: src/libc-lock.h
src/netgroup.h
src/nisplus-alias.c
src/nisplus-ethers.c
src/nisplus-grp.c
src/nisplus-hosts.c
src/nisplus-initgroups.c
src/nisplus-netgrp.c
src/nisplus-network.c
src/nisplus-parser.c
src/nisplus-parser.h
src/nisplus-proto.c
src/nisplus-publickey.c
src/nisplus-pwd.c
src/nisplus-rpc.c
src/nisplus-service.c
src/nisplus-spwd.c
src/nss-nisplus.c
src/nss-nisplus.h
Copyright: 1996-2016 Free Software Foundation, Inc.
License: LGPL-2.1+

Files: src/nss_loader-test.c
Copyright: 2014 Thorsten Kukuk <kukuk@thkukuk.de>
License: GPL-2

Files: INSTALL
Copyright: 1994-1996, 1999-2002, 2004-2016 Free Software Foundation, Inc.
License: permissive-fsf

Files: config.sub
config.guess
Copyright: 1992-2013 Free Software Foundation, Inc.
License: GPL-3+-autoconf-exception

Files: ltmain.sh
Copyright: 1996-2011 Free Software Foundation, Inc.
License: GPL-2+-libtool-exception

Files: m4/libtool.m4

m4/ltoptions.m4
m4/ltsugar.m4
m4/ltversion.m4
m4/lt~obsolete.m4
Copyright: 1996-2001, 2003-2015 Free Software Foundation, Inc.
License: permissive-autoconf-m4

License: GPL-2
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License version 2 as
published by the Free Software Foundation.
.
This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software Foundation,
Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.
.
On Debian systems, the complete text of the GNU General Public License
version 2 can be found in `/usr/share/common-licenses/GPL-2'.

License: GPL-2+-libtool-exception
GNU Libtool is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
.
As a special exception to the GNU General Public License,
if you distribute this file as part of a program or library that
is built using GNU Libtool, you may include this file under the
same distribution terms that you use for the rest of that program.
.
GNU Libtool is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.
.
On Debian systems, the complete text of the GNU General Public License
version 2 can be found in `/usr/share/common-licenses/GPL-2'.

License: GPL-3+-autoconf-exception

This file is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 3 of the License, or
(at your option) any later version.
.
This program is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.
.
You should have received a copy of the GNU General Public License
along with this program; if not, see <http://www.gnu.org/licenses/>.
.
As a special exception to the GNU General Public License, if you
distribute this file as part of a program that contains a
configuration script generated by Autoconf, you may include it under
the same distribution terms that you use for the rest of that
program. This Exception is an additional permission under section 7
of the GNU General Public License, version 3 ("GPLv3").
.
On Debian systems, the complete text of the GNU General Public License
Version 3 can be found in `/usr/share/common-licenses/GPL-3'.

License: LGPL-2.1+
The GNU C Library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
.
The GNU C Library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
.
You should have received a copy of the GNU Lesser General Public
License along with the GNU C Library; if not, see
<http://www.gnu.org/licenses/>.
.
On Debian systems, the complete text of the GNU Lesser General Public
License version 2.1 can be found in "/usr/share/common-licenses/LGPL-2.1".

License: permissive-autoconf-m4
This file is free software; the Free Software Foundation gives
unlimited permission to copy and/or distribute it, with or without
modifications, as long as this notice is preserved.

License: permissive-fsf
Copying and distribution of this file, with or without modification,

are permitted in any medium without royalty provided the copyright notice and this notice are preserved. This file is offered as-is, without any warranty.

1.718 josharian-intern 1.0.0

1.718.1 Available under license :

MIT License

Copyright (c) 2019 Josh Bleecher Snyder

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.719 crestonbunch-godata 1.0.7

1.719.1 Available under license :

The MIT License

Copyright (c) 2016 Creston Bunch

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A

PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.720 libgcrypt 1.6.3

1.720.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and

(2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and

you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of

Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by

modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License

may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if

necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Additional license notices for Libgcrypt. -*- org -*-

This file contains the copying permission notices for various files in
the Libgcrypt distribution which are not covered by the GNU Lesser
General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included

in the accompanying documentation and be distributed with binary
distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

* BSD_3Clause

For files:
- cipher/sha256-avx-amd64.S
- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
- cipher/sha512-avx-amd64.S
- cipher/sha512-avx2-bmi2-amd64.S
- cipher/sha512-ssse3-amd64.S

#+begin_quote
Copyright (c) 2012, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the
  distribution.

* Neither the name of the Intel Corporation nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY INTEL CORPORATION "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL CORPORATION OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#+end_quote

For files:
- random/jitterentropy-base.c
- random/jitterentropy.h
- random/rndjent.c (plus common Libgcrypt copyright holders)

#+begin_quote
* Copyright Stephan Mueller <smueller@chronox.de>, 2013
*
* License
* =======
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
* notice, and the entire permission notice in its entirety,
* including the disclaimer of warranties.
* 2. Redistributions in binary form must reproduce the above copyright
* notice, this list of conditions and the following disclaimer in the
* documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote
* products derived from this software without specific prior
* written permission.
*
* ALTERNATIVELY, this product may be distributed under the terms of
* the GNU General Public License, in which case the provisions of the GPL are
* required INSTEAD OF the above restrictions. (This clause is
* necessary due to a potential bad interaction between the GPL and
* the restrictions contained in a BSD-style copyright.)
*
* THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED
* WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF
* WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE
* LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
* CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
* OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
* BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
* LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
* USE OF THIS SOFTWARE, EVEN IF NOT ADVISED OF THE POSSIBILITY OF SUCH
* DAMAGE.
#+end_quote

* X License

For files:
- install.sh

#+begin_quote
Copyright (C) 1994 X Consortium

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to
deal in the Software without restriction, including without limitation the
rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
sell copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of the X Consortium shall not
be used in advertising or otherwise to promote the sale, use or other deal-
ings in this Software without prior written authorization from the X Consor-
tium.
#+end_quote

* Public domain

For files:
- cipher/arcfour-amd64.S

#+begin_quote
Author: Marc Bevand <bevand_m (at) epita.fr>
Licence: I hereby disclaim the copyright on this code and place it
in the public domain.
#+end_quote

* OCB license 1

For files:
- cipher/cipher-ocb.c

#+begin_quote
OCB is covered by several patents but may be used freely by most
software. See http://web.cs.ucdavis.edu/~rogaway/ocb/license.htm .

In particular license 1 is suitable for Libgcrypt: See
http://web.cs.ucdavis.edu/~rogaway/ocb/license1.pdf for the full
license document; it basically says:

License 1 License for Open-Source Software Implementations of OCB
(Jan 9, 2013)

Under this license, you are authorized to make, use, and
distribute open-source software implementations of OCB. This
license terminates for you if you sue someone over their
open-source software implementation of OCB claiming that you have
a patent covering their implementation.

License for Open Source Software Implementations of OCB
January 9, 2013

1 Definitions

1.1 Licensor means Phillip Rogaway.

1.2 Licensed Patents means any patent that claims priority to United States Patent Application No. 09/918,615 entitled Method and Apparatus for Facilitating Efficient Authenticated Encryption, and any utility, divisional, provisional, continuation, continuations-in-part, reexamination, reissue, or foreign counterpart patents that may issue with respect to the aforesaid patent application. This includes, but is not limited to, United States Patent No. 7,046,802; United States Patent No. 7,200,227; United States Patent No. 7,949,129; United States Patent No. 8,321,675 ; and any patent that issues out of United States Patent Application No. 13/669,114.

1.3 Use means any practice of any invention claimed in the Licensed Patents.

1.4 Software Implementation means any practice of any invention claimed in the Licensed Patents that takes the form of software executing on a user-programmable, general-purpose computer or that takes the form of a computer-readable medium storing such software. Software Implementation does not include, for example, application-specific integrated circuits (ASICs), field-programmable gate arrays (FPGAs), embedded systems, or IP cores.

1.5 Open Source Software means software whose source code is published and made available for inspection and use by anyone because either (a) the source code is subject to a license that permits recipients to copy, modify, and distribute the source code without payment of fees or royalties, or (b) the source code is in the public domain, including code released for public use through a CC0 waiver. All licenses certified by the Open Source Initiative at opensource.org as of January 9, 2013 and all Creative Commons

licenses identified on the creativecommons.org website as of January 9,
2013, including the Public License Fallback of the CC0 waiver, satisfy these
requirements for the purposes of this license.

1.6 Open Source Software Implementation means a Software
Implementation in which the software implicating the Licensed Patents is
Open Source Software. Open Source Software Implementation does not include
any Software Implementation in which the software implicating the Licensed
Patents is combined, so as to form a larger program, with software that is
not Open Source Software.

2 License Grant

2.1 License. Subject to your compliance with the term s of this license,
including the restriction set forth in Section 2.2, Licensor hereby
grants to you a perpetual, worldwide, non-exclusive, non-transferable,
non-sublicenseable, no-charge, royalty-free, irrevocable license to practice
any invention claimed in the Licensed Patents in any Open Source Software
Implementation.

2.2 Restriction. If you or your affiliates institute patent litigation
(including, but not limited to, a cross-claim or counterclaim in a lawsuit)
against any entity alleging that any Use authorized by this license
infringes another patent, then any rights granted to you under this license
automatically terminate as of the date such litigation is filed.

3 Disclaimer
YOUR USE OF THE LICENSED PATENTS IS AT YOUR OWN RISK AND UNLESS REQUIRED
BY APPLICABLE LAW, LICENSOR MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY
KIND CONCERNING THE LICENSED PATENTS OR ANY PRODUCT EMBODYING ANY LICENSED
PATENT, EXPRESS OR IMPLIED, STATUT ORY OR OTHERWISE, INCLUDING, WITHOUT
LIMITATION, WARRANTIES OF TITLE, MERCHANTIBILITY, FITNESS FOR A PARTICULAR
PURPOSE, OR NONINFRINGEMENT. IN NO EVENT WILL LICENSOR BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM OR RELATED TO ANY USE OF THE LICENSED PATENTS, INCLUDING,
WITHOUT LIMITATION, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE
OR SPECIAL DAMAGES, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF
SUCH DAMAGES PRIOR TO SUCH AN OCCURRENCE.
#+end_quote

1.721 ftpd 1.9.2

1.721.1 Available under license :

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a
licensee, and is addressed as ``you''. You accept the license if you
copy, modify or distribute the work in a way requiring permission
under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG@. Opaque formats include proprietary formats that can be

read and edited only by proprietary word processors, SGML or
XML for which the DTD and/or processing tools are
not generally available, and the machine-generated HTML,
PostScript or PDF produced by some word processors for
output purposes only.

The ``Title Page'' means, for a printed book, the title page itself,
plus such following pages as are needed to hold, legibly, the material
this License requires to appear in the title page. For works in
formats which do not have any title page as such, ``Title Page'' means
the text near the most prominent appearance of the work's title,
preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies
of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose
title either is precisely XYZ or contains XYZ in parentheses following
text that translates XYZ in another language. (Here XYZ stands for a
specific section name mentioned below, such as ``Acknowledgements'',
``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title''
of such a section when you modify the Document means that it remains a
section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which
states that this License applies to the Document. These Warranty
Disclaimers are considered to be included by reference in this
License, but only as regards disclaiming warranties: any other
implication that these Warranty Disclaimers may have is void and has
no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either
commercially or noncommercially, provided that this License, the
copyright notices, and the license notice saying this License applies
to the Document are reproduced in all copies, and that you add no other
conditions whatsoever to those of this License. You may not use
technical measures to obstruct or control the reading or further
copying of the copies you make or distribute. However, you may accept
compensation in exchange for copies. If you distribute a large enough
number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and
you may publicly display copies.

@item

COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A

@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for

public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already

includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this
License, under the terms defined in section 4 above for modified
versions, provided that you include in the combination all of the
Invariant Sections of all of the original documents, unmodified, and
list them all as Invariant Sections of your combined work in its
license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and
multiple identical Invariant Sections may be replaced with a single
copy. If there are multiple Invariant Sections with the same name but
different contents, make the title of each such section unique by
adding at the end of it, in parentheses, the name of the original
author or publisher of that section if known, or else a unique number.
Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History''
in the various original documents, forming one section Entitled
``History''; likewise combine any sections Entitled ``Acknowledgements'',
and any sections Entitled ``Dedications''. You must delete all
sections Entitled ``Endorsements.''

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also

provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.722 sigs.k8s.io-json 0.0.0-20211208200746-9f7c6b3444d2

1.722.1 Available under license :

Files other than internal/golang/* licensed under:

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

---

internal/golang/* files licensed under:

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.723 expat 2.4.7

1.723.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2019 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,

EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.724 mongo-go-driver 1.10.3

1.724.1 Available under license :

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus
are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE

OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their
Contribution(s) alone or by combination of their Contribution(s)
with the Work to which such Contribution(s) was submitted. If You
institute patent litigation against any entity (including a
cross-claim or counterclaim in a lawsuit) alleging that the Work
or a Contribution incorporated within the Work constitutes direct
or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate
as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the
Work or Derivative Works thereof in any medium, with or without
modifications, and in Source or Object form, provided that You
meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: gzhttp/*

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Files: s2/cmd/internal/readahead/*

The MIT License (MIT)

Copyright (c) 2015 Klaus Post

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Files: snappy/*

Files: internal/snapref/*

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Files: s2/cmd/internal/filepathx/*

Copyright 2016 The filepathx Authors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN

AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.
Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2016 Caleb Spare

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION

WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be

added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>

License notice for AWS V4 signing code from github.com/aws/aws-sdk-go
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity

exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided

that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,

or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for gopkg.in/mgo.v2/bson

BSON library for Go

Copyright (c) 2010-2013 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for JSON and CSV code from github.com/golang/go
---

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for rand code from golang.org/x/exp

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for Add64 and Mul64 code from github.com/golang/go
---

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/davecgh/go-spew

ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above

copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

License notice for github.com/golang/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/google/go-cmp

Copyright (c) 2017 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress

Copyright (c) 2012 The Go Authors. All rights reserved.
Copyright (c) 2019 Klaus Post. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/klauspost/compress/snappy

Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/konsorten/go-windows-terminal-sequences
---

(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/pretty

The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/kr/text

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/oncer

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/markbates/safe

The MIT License (MIT)

Copyright (c) 2018 Mark Bates

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/montanaflynn/stats

The MIT License (MIT)

Copyright (c) 2014-2015 Montana Flynn (https://anonfunction.com)

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE

SOFTWARE.

License notice for github.com/pkg/errors

Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/pmezard/go-difflib

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
 Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
 The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written

permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/rogpeppe/go-internal

Copyright (c) 2018 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for github.com/stretchr/testify

MIT License

Copyright (c) 2012-2020 Mat Ryer, Tyler Bunnell and contributors.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/tidwall/pretty

The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for github.com/xdg-go/pbkdf2

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/scram

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/xdg-go/stringprep

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

License notice for github.com/youmark/pkcs8

The MIT License (MIT)

Copyright (c) 2014 youmark

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

License notice for golang.org/x/crypto

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sync

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/sys

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/text

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/tools

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT

LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for golang.org/x/xerrors

Copyright (c) 2019 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

License notice for gopkg.in/yaml.v3

This project is covered by two different licenses: MIT and Apache.

MIT License

The following files were ported to Go from C files of libyaml, and thus

are still covered by their original MIT license, with the additional
copyright staring in 2011 when the project was ported over:

apic.go emitterc.go parserc.go readerc.go scannerc.go
writerc.go yamlh.go yamlprivateh.go

Copyright (c) 2006-2010 Kirill Simonov
Copyright (c) 2006-2011 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License

All the remaining project files are covered by the Apache license:

Copyright (c) 2011-2019 Canonical Ltd

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2017 Josh Baker

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

1.725 x-net 0.7.0

1.725.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.726 nettle 2.7.1

1.726.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the

function or data, the facility still operates, and performs
whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of

the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version

of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same

freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not

invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated

place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied

by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means

prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that

any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties

receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.727 expat 2.2.8

1.727.1 Available under license :

Copyright (c) 1998-2000 Thai Open Source Software Center Ltd and Clark Cooper
Copyright (c) 2001-2019 Expat maintainers

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.728 bcel 6.7.0

1.728.1 Available under license :

Apache Commons BCEL
Copyright 2004-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (https://www.apache.org/).

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the

editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the

Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the

same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.729 binutils 2.31.51

1.729.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library.

Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the

Combined Work produced by recombining or relinking the
Application with a modified version of the Linked Version. (If
you use option 4d0, the Installation Information must accompany
the Minimal Corresponding Source and Corresponding Application
Code. If you use option 4d1, you must provide the Installation
Information in the manner specified by section 6 of the GNU GPL
for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the
Library side by side in a single library together with other library
facilities that are not Applications and are not covered by this
License, and convey such a combined library under terms of your
choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based
on the Library, uncombined with any other library facilities,
conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it
is a work based on the Library, and explaining where to find the
accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions
of the GNU Lesser General Public License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the
Library as you received it specifies that a certain numbered version
of the GNU Lesser General Public License "or any later version"
applies to it, you have the option of following the terms and
conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run

modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other

parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no

charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly

documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For

purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work

conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you
to collect a royalty for further conveying from those to whom you convey
the Program, the only way you could satisfy both those terms and this
License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have
permission to link or combine any covered work with a work licensed
under version 3 of the GNU Affero General Public License into a single
combined work, and to convey the resulting work. The terms of this
License will continue to apply to the part which is the covered work,
but the special requirements of the GNU Affero General Public License,
section 13, concerning interaction through a network will apply to the
combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of
the GNU General Public License from time to time. Such new versions will
be similar in spirit to the present version, but may differ in detail to
address new problems or concerns.

Each version is given a distinguishing version number. If the
Program specifies that a certain numbered version of the GNU General
Public License "or any later version" applies to it, you have the
option of following the terms and conditions either of that numbered
version or of any later version published by the Free Software
Foundation. If the Program does not specify a version number of the
GNU General Public License, you may choose any version ever published
by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it

free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense. It
complements the GNU General Public License, which is a copyleft
license designed for free software.

We have designed this License in order to use it for manuals for free
software, because free software needs free documentation: a free
program should come with manuals providing the same freedoms that the
software does. But this License is not limited to software manuals;
it can be used for any textual work, regardless of subject matter or
whether it is published as a printed book. We recommend this License
principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that
contains a notice placed by the copyright holder saying it can be
distributed under the terms of this License. Such a notice grants a
world-wide, royalty-free license, unlimited in duration, to use that
work under the conditions stated herein. The ``Document'', below,
refers to any such manual or work. Any member of the public is a

licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain @sc{ascii} without markup, Texinfo input format, La@TeX{} input format, @acronym{SGML} or @acronym{XML} using a publicly available

@acronym{DTD}, and standard-conforming simple @acronym{HTML}, PostScript or @acronym{PDF} designed for human modification. Examples of transparent image formats include @acronym{PNG}, @acronym{XCF} and @acronym{JPG}. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, @acronym{SGML} or @acronym{XML} for which the @acronym{DTD} and/or processing tools are not generally available, and the machine-generated @acronym{HTML}, PostScript or @acronym{PDF} produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution

and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified

Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve
the Title of the section, and preserve in the section all the
substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a

passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute

it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate'' if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document
except as expressly provided under this License. Any attempt
otherwise to copy, modify, sublicense, or distribute it is void, and
will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license
from a particular copyright holder is reinstated (a) provisionally,
unless and until the copyright holder explicitly and finally
terminates your license, and (b) permanently, if the copyright holder
fails to notify you of the violation by some reasonable means prior to
60 days after the cessation.

Moreover, your license from a particular copyright holder is
reinstated permanently if the copyright holder notifies you of the
violation by some reasonable means, this is the first time you have
received notice of violation of this License (for any work) from that
copyright holder, and you cure the violation prior to 30 days after
your receipt of the notice.

Termination of your rights under this section does not terminate the
licenses of parties who have received copies or rights from you under
this License. If your rights have been terminated and not permanently
reinstated, receipt of a copy of some or all of the same material does
not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions
of the GNU Free Documentation License from time to time. Such new
versions will be similar in spirit to the present version, but may
differ in detail to address new problems or concerns. See
@uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number.
If the Document specifies that a particular numbered version of this
License ``or any later version'' applies to it, you have the option of
following the terms and conditions either of that specified version or
of any later version that has been published (not as a draft) by the
Free Software Foundation. If the Document does not specify a version
number of this License, you may choose any version ever published (not
as a draft) by the Free Software Foundation. If the Document
specifies that a proxy can decide which future versions of this
License can be used, that proxy's public statement of acceptance of a
version permanently authorizes you to choose that version for the
Document.

@item

RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group

@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts.'' line with this:

@smallexample
@group
  with the Invariant Sections being @var{list their titles}, with
  the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
  being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
  GNU LIBRARY GENERAL PUBLIC LICENSE
    Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

  Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without

changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is

copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the

Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use

this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so

that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not

signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization
obtaining a copy of the software and accompanying documentation covered by
this license (the "Software") to use, reproduce, display, distribute,
execute, and transmit the Software, and to prepare derivative works of the
Software, and to permit third-parties to whom the Software is furnished to
do so, all subject to the following:

The copyright notices in the Software and this entire statement, including
the above license grant, this restriction and the following disclaimer,
must be included in all copies of the Software, in whole or in part, and
all derivative works of the Software, unless such copies or derivative
works are solely in the form of machine-executable object code generated by
a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT
SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE
FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.
(This file is under construction.) -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.

++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and

verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

Copyright (C) 2012-2019 Free Software Foundation, Inc.

Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

1.730 glibc 2.28

1.730.1 Available under license :

```
/* _setjmp is implemented in setjmp.S */
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL.  It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@subheading Preamble

 The licenses for most software are designed to take away your
freedom to share and change it.  By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software---to make sure the software is free for all its users.

 This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it.  You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

 When we speak of free software, we are referring to freedom of use,
not price.  Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of it
in new free programs; and that you are informed that you can do these
things.

 To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights.  These restrictions translate to certain responsibilities for
```

you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@enumerate 0
@item
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License'').  Each licensee is addressed as ``you''.

A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms.  A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated

straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item
You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item
You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

@item
You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

@item
You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

@item
Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

@item
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
generous contributions to the wide range of software distributed
through that system in reliance on consistent application of that
system; it is up to the author/donor to decide if he or she is willing
to distribute software through any other system and a licensee cannot
impose that choice.

This section is intended to make thoroughly clear what is believed to
be a consequence of the rest of this License.

@item
If the distribution and/or use of the Library is restricted in
certain countries either by patents or by copyrighted interfaces, the
original copyright holder who places the Library under this License may add
an explicit geographical distribution limitation excluding those countries,
so that distribution is permitted only in or among countries not thus
excluded. In such case, this License incorporates the limitation as if
written in the body of this License.

@item
The Free Software Foundation may publish revised and/or new
versions of the Lesser General Public License from time to time.
Such new versions will be similar in spirit to the present version,
but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library
specifies a version number of this License which applies to it and
``any later version'', you have the option of following the terms and
conditions either of that version or of any later version published by
the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.

@item
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.

@center @b{NO WARRANTY}

@item

BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY ``AS IS'' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

@item
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a ``copyright disclaimer'' for the library, if
necessary. Here is a sample; alter the names:

@smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.
/* setjmp is implemented in setjmp.S */

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling

it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent

license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free

Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public

License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This file contains the copying permission notices for various files in the
GNU C Library distribution that have copyright owners other than the Free
Software Foundation. These notices all require that a copy of the notice
be included in the accompanying documentation and be distributed with
binary distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

All code incorporated from 4.4 BSD is distributed under the following
license:

Copyright (C) 1991 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. [This condition was removed.]
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The DNS resolver code, taken from BIND 4.9.5, is copyrighted by UC Berkeley, by Digital Equipment Corporation and by Internet Software Consortium. The DEC portions are under the following license:

Portions Copyright (C) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED ``AS IS'' AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The ISC portions are under the following license:

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND INTERNET SOFTWARE CONSORTIUM DISCLAIMS

ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The Sun RPC support (from rpcsrc-4.0) is covered by the following license:

Copyright (c) 2010, Oracle America, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following CMU license covers some of the support code for Mach, derived from Mach 3.0:

Mach Operating System
Copyright (C) 1991,1990,1989 Carnegie Mellon University
All Rights Reserved.

Permission to use, copy, modify and distribute this software and its
documentation is hereby granted, provided that both the copyright
notice and this permission notice appear in all copies of the
software, derivative works or modified versions, and any portions
thereof, and that both notices appear in supporting documentation.

CARNEGIE MELLON ALLOWS FREE USE OF THIS SOFTWARE IN ITS ``AS IS"
CONDITION. CARNEGIE MELLON DISCLAIMS ANY LIABILITY OF ANY KIND FOR
ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Carnegie Mellon requests users of this software to return to

Software Distribution Coordinator
School of Computer Science
Carnegie Mellon University
Pittsburgh PA 15213-3890

or Software.Distribution@CS.CMU.EDU any improvements or
extensions that they make and grant Carnegie Mellon the rights to
redistribute these changes.

The file if_ppp.h is under the following CMU license:

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY CARNEGIE MELLON UNIVERSITY AND
CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE UNIVERSITY OR CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER
IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The following license covers the files from Intel's "Highly Optimized Mathematical Functions for Itanium" collection:

Intel License Agreement

Copyright (c) 2000, Intel Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* The name of Intel Corporation may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL INTEL OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The files inet/getnameinfo.c and sysdeps/posix/getaddrinfo.c are copyright (C) by Craig Metz and are distributed under the following license:

/* The Inner Net License, Version 2.00

 The author(s) grant permission for redistribution and use in source and binary forms, with or without modification, of the software and documentation provided that the following conditions are met:

0. If you receive a version of the software that is specifically labelled
  as not being for redistribution (check the version message and/or README),
  you are not permitted to redistribute that version of the software in any

way or form.
1. All terms of the all other applicable copyrights and licenses must be followed.
2. Redistributions of source code must retain the authors' copyright notice(s), this list of conditions, and the following disclaimer.
3. Redistributions in binary form must reproduce the authors' copyright notice(s), this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. [The copyright holder has authorized the removal of this clause.]
5. Neither the name(s) of the author(s) nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ITS AUTHORS AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

If these license terms cause you a real problem, contact the author. */

The file sunrpc/des_impl.c is copyright Eric Young:

Copyright (C) 1992 Eric Young
Collected from libdes and modified for SECURE RPC by Martin Kuck 1994
This file is distributed under the terms of the GNU Lesser General
Public License, version 2.1 or later - see the file COPYING.LIB for details.
If you did not receive a copy of the license with this program, please
see <http://www.gnu.org/licenses/> to obtain a copy.

The file inet/rcmd.c is under a UCB copyright and the following:

Copyright (C) 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the project nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

The file posix/runtests.c is copyright Tom Lord:

Copyright 1995 by Tom Lord

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation, and that the name of the copyright holder not be
used in advertising or publicity pertaining to distribution of the
software without specific, written prior permission.

Tom Lord DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE,
INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO
EVENT SHALL TOM LORD BE LIABLE FOR ANY SPECIAL, INDIRECT OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF
USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

The posix/rxspencer tests are copyright Henry Spencer:

Copyright 1992, 1993, 1994, 1997 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,
credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

The file posix/PCRE.tests is copyright University of Cambridge:

Copyright (c) 1997-2003 University of Cambridge

Permission is granted to anyone to use this software for any purpose on any
computer system, and to redistribute it freely, subject to the following
restrictions:

1. This software is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. In practice, this means that if you use
PCRE in software that you distribute to others, commercially or
otherwise, you must put a sentence like this

Regular expression support is provided by the PCRE library package,
which is open source software, written by Philip Hazel, and copyright
by the University of Cambridge, England.

somewhere reasonably visible in your documentation and in any relevant
files or online help data or similar. A reference to the ftp site for
the source, that is, to

ftp://ftp.csx.cam.ac.uk/pub/software/programming/pcre/

should also be given in the documentation. However, this condition is not
intended to apply to whole chains of software. If package A includes PCRE,
it must acknowledge it, but if package B is software that includes package
A, the condition is not imposed on package B (unless it uses PCRE
independently).

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software.

4. If PCRE is embedded in any software that is released under the GNU
General Purpose Licence (GPL), or Lesser General Purpose Licence (LGPL),
then the terms of that licence shall supersede any condition above with
which it is incompatible.

Files from Sun fdlibm are copyright Sun Microsystems, Inc.:

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

Various long double libm functions are copyright Stephen L. Moshier:

Copyright 2001 by Stephen L. Moshier <moshier@na-net.ornl.gov>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, see
<http://www.gnu.org/licenses/>. */
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/, and
http://www.unicode.org/cldr/data/. Unicode Data Files do not include PDF
online code charts under the directory http://www.unicode.org/Public/.
Software includes any source code published in the Unicode Standard or under
the directories http://www.unicode.org/Public/,
http://www.unicode.org/reports/, and http://www.unicode.org/cldr/data/.

NOTICE TO USER: Carefully read the following legal agreement. BY
DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S DATA FILES
("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"), YOU UNEQUIVOCALLY ACCEPT, AND
AGREE TO BE BOUND BY, ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF
YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE THE DATA
FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2013 Unicode, Inc. All rights reserved. Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining a copy of the Unicode data files and any associated documentation (the "Data Files") or Unicode software and any associated documentation (the "Software") to deal in the Data Files or Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Data Files or Software, and to permit persons to whom the Data Files or Software are furnished to do so, provided that (a) the above copyright notice(s) and this permission notice appear with all copies of the Data Files or Software, (b) both the above copyright notice(s) and this permission notice appear in associated documentation, and (c) there is clear notice in each modified Data File or in the Software as well as in the documentation associated with the Data File(s) or Software that the data or software has been modified.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in these Data Files or Software without prior written authorization of the copyright holder.
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other functional and useful document @dfn{free} in the sense of freedom: to assure everyone the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain

any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means

the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and

visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols a complete Transparent copy of the Document, free of added material. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct from that of the Document, and from those of previous versions (which should, if there were any, be listed in the History section of the Document). You may use the same title as a previous version if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities responsible for authorship of the modifications in the Modified

Version, together with at least five of the principal authors of the Document (all of its principal authors, if it has fewer than five), unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the

substance and tone of each of the contributor acknowledgements and/or
dedications given therein.

@item
Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section
may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or
to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or
appendices that qualify as Secondary Sections and contain no material
copied from the Document, you may at your option designate some or all
of these sections as invariant. To do this, add their titles to the
list of Invariant Sections in the Modified Version's license notice.
These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements'', provided it contains
nothing but endorsements of your Modified Version by various
parties---for example, statements of peer review or that the text has
been approved by an organization as the authoritative definition of a
standard.

You may add a passage of up to five words as a Front-Cover Text, and a
passage of up to 25 words as a Back-Cover Text, to the end of the list
of Cover Texts in the Modified Version. Only one passage of
Front-Cover Text and one of Back-Cover Text may be added by (or
through arrangements made by) any one entity. If the Document already
includes a cover text for the same cover, previously added by you or
by arrangement made by the same entity you are acting on behalf of,
you may not add another; but you may replace the old one, on explicit
permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License
give permission to use their names for publicity for or to assert or
imply endorsement of any Modified Version.

@item

COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History" in the various original documents, forming one section Entitled ``History"; likewise combine any sections Entitled ``Acknowledgements", and any sections Entitled ``Dedications". You must delete all sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, is called an ``aggregate" if the copyright resulting from the compilation is not used to limit the legal rights of the compilation's users beyond what the individual works permit. When the Document is included in an aggregate, this License does not apply to the other works in the aggregate which are not themselves

derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one half of the entire aggregate, the Document's Cover Texts may be placed on covers that bracket the Document within the aggregate, or the electronic equivalent of covers if the Document is in electronic form. Otherwise they must appear on printed covers that bracket the whole aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the

violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license

published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License''.
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{}Texts.''@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other

combination of the three, merge those two alternatives to suit the situation.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.731 go-playground-locales 0.14.0

1.731.1 Available under license :

The MIT License (MIT)

Copyright (c) 2015 Jinzhu

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.732 gopkg.in-ini 1.63.2

1.732.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along

with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to

damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 Unknwon

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.733 aws-sdk-go 1.40.59

1.733.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.734 lsof 4.91

1.734.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is

allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of

this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than 'show w' and 'show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.735 golang-genproto 0.0.0-20220307174427-659dce7fcb03

1.735.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and

limitations under the License.

1.736 mtd-utils 2.0.2

1.736.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion

of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying

the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates

the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program

`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.
Copyright (c) 2000-2007 by Nicolas Devillard.
MIT License

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.737 uwsgi 2.0.14

1.737.1 Available under license :

- this is a incomplete list of all the contributors of the project -

Roberto De Ioris, Unbit, <roberto@unbit.it>
Riccardo Magliocchetti
Yann Malet, Lincoln Loop
Simon Litchfield
Masahiro Honma, <hiratara@cpan.org>
ukasz Wrblewski <admin@nri.pl>
Giacomo Bagnoli, Asidev
Guido Notari, Link I.T. S.p.a.
Marco Beri, Link I.T. S.p.a.
Leonid Borisenko
Cal Leeming, Simplicity Media Ltd

Luigi Scarso
Corey Farwell
Charles Duffy
Lukas Lalinsky
Steven Fernandez
ukasz Mierzwa
Roy Marples
Aarni Koskela
C Anthony Risinger
Stephen Pierce
Mingli Yuan
Natanael Copa
Roberto Leandrini
Ryan Petrello
Danila Shtan <danila@shtan.ru>
var Arnfjr Bjarmason
Yu Zhao (getcwd)
Mathieu Dupuy
Adriano Di Luzio (adriano@unbit.it)
Curtis Maloney
Vladimir Didenko

LINKING EXCEPTION

In addition to the permissions in the GNU General Public License,
the authors give you unlimited permission to link the compiled
version of this library into combinations with other programs,
and to distribute those combinations without any restriction
coming from the use of this file. (The General Public License
restrictions do apply in other respects; for example, they cover
modification of the file, and distribution when not linked into
a combined executable.)

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.738 newlib 1.12.0

1.738.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General

Public License instead of this License.
/*-
* Copyright (c) 2000
* Konstantin Chuguev. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* iconv (Charset Conversion Library) v2.0
*/
@c -*-texinfo-*-
@node GNU Free Documentation License, , , Copying This Manual

@appendix GNU Free Documentation License
@center Version 1.1, March 2000

@display
Copyright (C) 2000 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display
@sp 1
@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
written document ``free'' in the sense of freedom: to assure everyone

the effective freedom to copy and redistribute it, with or without modifying it, either commercially or noncommercially. Secondarily, this License preserves for the author and publisher a way to get credit for their work, while not being considered responsible for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative works of the document must themselves be free in the same sense. It complements the GNU General Public License, which is a copyleft license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@sp 1
@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you.''

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (For example, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that the Document is released under this License.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, whose contents can be viewed and edited directly and straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup has been designed to thwart or discourage subsequent modification by readers is not Transparent. A copy that is not ``Transparent'' is called ``Opaque.''

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, LaTeX input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML designed for human modification. Opaque formats include PostScript, PDF, proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.
@sp 1
@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@sp 1
@item
COPYING IN QUANTITY

If you publish printed copies of the Document numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a publicly-accessible computer-network location containing a complete Transparent copy of the Document, free of added material, which the general network-using public has access to download anonymously at no charge using public-standard network protocols. If you use the latter option, you must take reasonably prudent steps, when you begin distribution of Opaque copies in quantity, to ensure that this Transparent copy will remain thus accessible at the stated location until at least one year after the last time you distribute an Opaque copy (directly or through your agents or retailers) of that edition to the public.

It is requested, but not required, that you contact the authors of the Document well before redistributing any large number of copies, to give them a chance to provide you with an updated version of the Document.
@sp 1
@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under the conditions of sections 2 and 3 above, provided that you release the Modified Version under precisely this License, with the Modified Version filling the role of the Document, thus licensing distribution and modification of the Modified Version to whoever possesses a copy of it. In addition, you must do these things in the Modified Version:

A. Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.@*
B. List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has less than five).@*
C. State on the Title page the name of the publisher of the
Modified Version, as the publisher.@*
D. Preserve all the copyright notices of the Document.@*
E. Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.@*
F. Include, immediately after the copyright notices, a license notice
giving the public permission to use the Modified Version under the
terms of this License, in the form shown in the Addendum below.@*
G. Preserve in that license notice the full lists of Invariant Sections
and required Cover Texts given in the Document's license notice.@*
H. Include an unaltered copy of this License.@*
I. Preserve the section entitled ``History'', and its title, and add to
it an item stating at least the title, year, new authors, and
publisher of the Modified Version as given on the Title Page. If
there is no section entitled ``History'' in the Document, create one
stating the title, year, authors, and publisher of the Document as
given on its Title Page, then add an item describing the Modified
Version as stated in the previous sentence.@*
J. Preserve the network location, if any, given in the Document for
public access to a Transparent copy of the Document, and likewise
the network locations given in the Document for previous versions
it was based on. These may be placed in the ``History'' section.
You may omit a network location for a work that was published at
least four years before the Document itself, or if the original
publisher of the version it refers to gives permission.@*
K. In any section entitled ``Acknowledgements'' or ``Dedications'',
preserve the section's title, and preserve in the section all the
substance and tone of each of the contributor acknowledgements
and/or dedications given therein.@*
L. Preserve all the Invariant Sections of the Document,
unaltered in their text and in their titles. Section numbers
or the equivalent are not considered part of the section titles.@*
M. Delete any section entitled ``Endorsements.'' Such a section
may not be included in the Modified Version.@*
N. Do not retitle any existing section as ``Endorsements''
or to conflict in title with any Invariant Section.@*
@sp 1
If the Modified Version includes new front-matter sections or

appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section entitled ``Endorsements'', provided it contains nothing but endorsements of your Modified Version by various parties--for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.
@sp 1
@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number. Make the same adjustment to the section titles in the list of Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections entitled ``History'' in the various original documents, forming one section entitled ``History''; likewise combine any sections entitled ``Acknowledgements'',

and any sections entitled ``Dedications."  You must delete all sections entitled ``Endorsements."
@sp 1
@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents released under this License, and replace the individual copies of this License in the various documents with a single copy that is included in the collection, provided that you follow the rules of this License for verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.
@sp 1
@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate and independent documents or works, in or on a volume of a storage or distribution medium, does not as a whole count as a Modified Version of the Document, provided no compilation copyright is claimed for the compilation. Such a compilation is called an ``aggregate", and this License does not apply to the other self-contained works thus compiled with the Document, on account of their being thus compiled, if they are not themselves derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these copies of the Document, then if the Document is less than one quarter of the entire aggregate, the Document's Cover Texts may be placed on covers that surround only the Document within the aggregate. Otherwise they must appear on covers around the whole aggregate.
@sp 1
@item
TRANSLATION

Translation is considered a kind of modification, so you may distribute translations of the Document under the terms of section 4. Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License provided that you also include the original English version of this License. In case of a disagreement between the translation and the original English version of this License, the original English version will prevail.

@sp 1
@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided for under this License. Any other attempt to copy, modify, sublicense or distribute the Document is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
@sp 1
@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See http://www.gnu.org/copyleft/.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation.

@end enumerate

@unnumberedsec ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of the License in the document and put the following copyright and license notices just after the title page:

@smallexample
@group
Copyright (C) @var{year} @var{your name}.
Permission is granted to copy, distribute and/or modify this document
under the terms of the GNU Free Documentation License, Version 1.1
or any later version published by the Free Software Foundation;
with the Invariant Sections being @var{list their titles}, with the
Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.
A copy of the license is included in the section entitled "GNU
Free Documentation License."

@end group
@end smallexample

If you have no Invariant Sections, write ``with no Invariant Sections'' instead of saying which ones are invariant. If you have no Front-Cover Texts, write ``no Front-Cover Texts'' instead of ``Front-Cover Texts being @var{list}''; likewise for Back-Cover Texts.

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
The libgloss subdirectory is a collection of software from several sources.
Each have their own copyrights embedded in each file that they concern.

(1) University of California, Berkeley

[1a]

Copyright (c) 1990 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms are permitted
provided that the above copyright notice and this paragraph are
duplicated in all such forms and that any documentation,
and other materials related to such distribution and use
acknowledge that the software was developed
by the University of California, Berkeley. The name of the
University may not be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

[1b]

Copyright (c) 1991, 2000 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
must display the following acknowledgement:
This product includes software developed by the University of
California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

[1c]

Copyright (c) 1991, 1998, 2001 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. [rescinded 22 July 1999]
4. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY

OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Please note that in some of the above alternate licenses, there is a
statement regarding that acknowledgement must be made in any
advertising materials for products using the code. This restriction
no longer applies due to the following license change:

ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change

In some cases the defunct clause has been removed in modified newlib code and
in some cases, the clause has been left as-is.
---

(2) DJ Delorie

Copyright (C) 1993 DJ Delorie
All rights reserved.

Redistribution and use in source and binary forms is permitted
provided that the above copyright notice and following paragraph are
duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied
warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(3) GPL (fr30 directory only)

Copyright (C) 1998 Free Software Foundation, Inc.
Contributed by Cygnus Solutions.

This file is part of GNU CC.

GNU CC is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2, or (at your option)
any later version.

GNU CC is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with GNU CC; see the file COPYING. If not, write to
the Free Software Foundation, 59 Temple Place - Suite 330,
Boston, MA 02111-1307, USA.

(4) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the 29K Technical Support Center at 800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or 0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.
29K Support Products
Mail Stop 573
5900 E. Ben White Blvd.
Austin, TX 78741
800-292-9263

(5) Array Technology Corporation and MIPS (mips/lsi33k-stub.h)

COPYRIGHT (C) 1991, 1992 ARRAY TECHNOLOGY CORPORATION
All Rights Reserved

This software is confidential information which is proprietary to and a trade secret of ARRAY Technology Corporation. Use, duplication, or disclosure is subject to the terms of a separate license agreement.

Copyright 1985 by MIPS Computer Systems, Inc.

(6) University of Utah and the Computer Systems Laboratory (CSL)
[applies only to hppa*-*-pro* targets]

Copyright (c) 1990,1994 The University of Utah and the Computer Systems Laboratory (CSL). All rights reserved.

Permission to use, copy, modify and distribute this software is hereby granted provided that (1) source code retains these copyright, permission, and disclaimer notices, and (2) redistributions including binaries reproduce the notices in supporting documentation, and (3) all advertising

materials mentioning features or use of this software display the following
acknowledgement: ``This product includes software developed by the
Computer Systems Laboratory at the University of Utah."

THE UNIVERSITY OF UTAH AND CSL ALLOW FREE USE OF THIS SOFTWARE IN ITS "AS IS" CONDITION. THE UNIVERSITY OF UTAH AND CSL DISCLAIM ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

CSL requests users of this software to return to csl-dist@cs.utah.edu any
improvements that they make and grant CSL redistribution rights.

(7) Sun Microsystems

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

(8) Hewlett Packard

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS"
without any express or implied warranty:
permission to use, copy, modify, and distribute this file
for any purpose is hereby granted without fee, provided that
the above copyright notice and this notice appears in all
copies, and that the name of Hewlett-Packard Company not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
Hewlett-Packard Company makes no representations about the
suitability of this software for any purpose.

(9) Hans-Peter Nilsson

Copyright (C) 2001 Hans-Peter Nilsson

Permission to use, copy, modify, and distribute this software is
freely granted, provided that the above copyright notice, this notice
and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(10) No Copyright

THIS SOFTWARE IS NOT COPYRIGHTED

(11) Cygnus Support / Cygnus Solutions

Copyright (c) 1995, 1996, 1997, 1998, 1999 Cygnus Support

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

Please note that the copyright above may be used with the name
Cygnus Solutions instead of Cygnus Support. Both names should
be considered interchangeable. These copyrights are now owned
by Red Hat Incorporated.
---

(12) Red Hat Incorporated

Copyright (c) 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 Red Hat, Inc.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

(13) Default copyright

Unless otherwise stated in each remaining libgloss file, the remaining
files in the libgloss subdirectory are governed by the following copyright.

Copyright (c) 1994, 1997, 2001, 2002 Red Hat Incorporated.
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

The name of Red Hat Incorporated may not be used to endorse
or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL RED HAT INCORPORATED BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
GNU LIBRARY GENERAL PUBLIC LICENSE
****

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
59 Temple Place -- Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble
========

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for

your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is

that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

   A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

   The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a. The modified work must itself be a software library.

   b. You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c. You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

   d. If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the

facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

   If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

   However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

   When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

   If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

   Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

   You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

   a. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

   b. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

   c. If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

   d. Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

   For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b. Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights

granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

    If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

    It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

    This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version,

but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries
==========

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

ONE LINE TO GIVE THE LIBRARY'S NAME AND AN IDEA OF WHAT IT DOES.
Copyright (C) YEAR NAME OF AUTHOR

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
The newlib subdirectory is a collection of software from several sources. Each file may have its own copyright/license that is embedded in the source file.

This list documents those licenses which are more restrictive than

a BSD-like license or require the copyright notice
to be duplicated in documentation and/or other materials associated with
the distribution. Certain licenses documented here only apply to
specific targets. Certain clauses only apply if you are building the
code as part of your binary.

Note that this list may omit certain licenses that
only pertain to the copying/modifying of the individual source code.
If you are distributing the source code, then you do not need to
worry about these omitted licenses, so long as you do not modify the
copyright information already in place.

(1) University of California, Berkeley

[1a]

Copyright (c) 1990 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms are permitted
provided that the above copyright notice and this paragraph are
duplicated in all such forms and that any documentation,
and other materials related to such distribution and use
acknowledge that the software was developed
by the University of California, Berkeley. The name of the
University may not be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

[1b]

Copyright (c) 1990 The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms are permitted
provided that the above copyright notice and this paragraph are
duplicated in all such forms and that any documentation,
advertising materials, and other materials related to such
distribution and use acknowledge that the software was developed
by the University of California, Berkeley. The name of the
University may not be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED ``AS IS'' AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

[1c]

Copyright (c) 1981, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994
The Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
  must display the following acknowledgement:
    This product includes software developed by the University of
    California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
  may be used to endorse or promote products derived from this software
  without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

[1d]

Copyright (c) 1988, 1990, 1993 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors

may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

[1e]

Copyright (c) 1982, 1986, 1989, 1991, 1993, 1994
The Regents of the University of California. All rights reserved.
(c) UNIX System Laboratories, Inc.
All or some portions of this file are derived from material licensed
to the University of California by American Telephone and Telegraph
Co. or Unix System Laboratories, Inc. and are reproduced herein with
the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software
must display the following acknowledgement:
This product includes software developed by the University of
California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

[1f]

Copyright (c) 1987, 1988, 2000 Regents of the University of California.
All rights reserved.

Redistribution and use in source and binary forms are permitted
provided that: (1) source distributions retain this entire copyright
notice and comment, and (2) distributions including binaries display
the following acknowledgement: ``This product includes software
developed by the University of California, Berkeley and its contributors"
in the documentation or other materials provided with the distribution
and in all advertising materials mentioning features or use of this
software. Neither the name of the University nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Please note that in some of the above alternate licenses, there is a
statement regarding that acknowledgement must be made in any
advertising materials for products using the code. This restriction
no longer applies due to the following license change:

ftp://ftp.cs.berkeley.edu/pub/4bsd/README.Impt.License.Change

In some cases the defunct clause has been removed in modified newlib code and
in some cases, the clause has been left as-is.
---

(2) Cygwin (cygwin targets only)

Copyright 2001 Red Hat, Inc.

This software is a copyrighted work licensed under the terms of the
Cygwin license. Please consult the file "CYGWIN_LICENSE" for
details.

(3) David M. Gay at AT&T

The author of this software is David M. Gay.

Copyright (c) 1991 by AT&T.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR AT&T MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

(4) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the 29K Technical Support Center at 800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or 0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.
29K Support Products
Mail Stop 573
5900 E. Ben White Blvd.
Austin, TX 78741
800-292-9263

(5) C.W. Sandmann

Copyright (C) 1993 C.W. Sandmann

This file may be freely distributed as long as the author's name remains.

(6) Eric Backus

(C) Copyright 1992 Eric Backus

This software may be used freely so long as this copyright notice is
left intact. There is no warrantee on this software.

(7) Sun Microsystems

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.
Permission to use, copy, modify, and distribute this
software is freely granted, provided that this notice
is preserved.

(8) Hewlett Packard

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS"
without any express or implied warranty:
  permission to use, copy, modify, and distribute this file
for any purpose is hereby granted without fee, provided that
the above copyright notice and this notice appears in all
copies, and that the name of Hewlett-Packard Company not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
Hewlett-Packard Company makes no representations about the
suitability of this software for any purpose.

(9) Hans-Peter Nilsson

Copyright (C) 2001 Hans-Peter Nilsson

Permission to use, copy, modify, and distribute this software is
freely granted, provided that the above copyright notice, this notice
and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE.

(10) Stephane Carrez (m68hc11-elf/m68hc12-elf targets only)

Copyright (C) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr)

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this

notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(11) Christopher G. Demetriou

Copyright (c) 2001 Christopher G. Demetriou
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(12) SuperH, Inc.

Copyright 2002 SuperH, Inc. All rights reserved

This software is the property of SuperH, Inc (SuperH) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by SuperH.

SUPERH MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL SUPERH BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems
or suggestions about this software to the SuperH Support Center via
e-mail at softwaresupport@superh.com .

SuperH, Inc.
405 River Oaks Parkway
San Jose
CA 95134
USA

(13) Royal Institute of Technology

Copyright (c) 1999 Kungliga Tekniska Hgskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of KTH nor the names of its contributors may be
  used to endorse or promote products derived from this software without
  specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(14) Alexey Zelkin

Copyright (c) 2000, 2001 Alexey Zelkin <phantom@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(15) Andrey A. Chernov

Copyright (C) 1997 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(16) FreeBSD

Copyright (c) 1997-2002 FreeBSD Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(17) S. L. Moshier

Author: S. L. Moshier.

Copyright (c) 1984,2000 S.L. Moshier

Permission to use, copy, modify, and distribute this software for any
purpose without fee is hereby granted, provided that this entire notice
is included in all copies of any software which is or includes a copy
or modification of this software and in all copies of the supporting
documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
WARRANTY. IN PARTICULAR, THE AUTHOR MAKES NO REPRESENTATION
OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS
SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

(18) Citrus Project

Copyright (c)1999 Citrus Project,
All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(19) Todd C. Miller

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL
THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS;
OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

(20) DJ Delorie (i386)

Copyright (C) 1991 DJ Delorie
All rights reserved.

Redistribution and use in source and binary forms is permitted
provided that the above copyright notice and following paragraph are
duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied
warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(21) Free Software Foundation LGPL License (*-linux* targets only)

Copyright (C) 1990-1999, 2000, 2001
Free Software Foundation, Inc.
This file is part of the GNU C Library.
Contributed by Mark Kettenis <kettenis@phys.uva.nl>, 1997.

The GNU C Library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

The GNU C Library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with the GNU C Library; if not, write to the Free
Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA
02111-1307 USA.

(22) Xavier Leroy LGPL License (i[3456]86-*-linux* targets only)

Copyright (C) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)

This program is free software; you can redistribute it and/or
modify it under the terms of the GNU Library General Public License
as published by the Free Software Foundation; either version 2
of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU Library General Public License for more details.

(23) Intel (i960)

Copyright (c) 1993 Intel Corporation

Intel hereby grants you permission to copy, modify, and distribute this
software and its documentation. Intel grants this permission provided
that the above copyright notice appears in all copies and that both the
copyright notice and this permission notice appear in supporting
documentation. In addition, Intel grants this permission provided that
you prominently mark as "not part of the original" any modifications
made to this software or documentation, and that the name of Intel
Corporation not be used in advertising or publicity pertaining to
distribution of the software or the documentation without specific,
written prior permission.

Intel Corporation provides this AS IS, WITHOUT ANY WARRANTY, EXPRESS OR
IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY
OR FITNESS FOR A PARTICULAR PURPOSE. Intel makes no guarantee or
representations regarding the use of, or the results of the use of,
the software and documentation in terms of correctness, accuracy,
reliability, currentness, or otherwise; and you rely on the software,
documentation and results solely at your own risk.

IN NO EVENT SHALL INTEL BE LIABLE FOR ANY LOSS OF USE, LOSS OF BUSINESS,
LOSS OF PROFITS, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES
OF ANY KIND. IN NO EVENT SHALL INTEL'S TOTAL LIABILITY EXCEED THE SUM
PAID TO INTEL FOR THE PRODUCT LICENSED HEREUNDER.

(24) Hewlett-Packard (hppa targets only)

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS"
without any express or implied warranty:
permission to use, copy, modify, and distribute this file
for any purpose is hereby granted without fee, provided that
the above copyright notice and this notice appears in all
copies, and that the name of Hewlett-Packard Company not be
used in advertising or publicity pertaining to distribution
of the software without specific, written prior permission.
Hewlett-Packard Company makes no representations about the
suitability of this software for any purpose.

(25) Henry Spencer (only *-linux targets)

Copyright 1992, 1993, 1994 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
  software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
  explicit claim or by omission. Since few users ever read sources,
  credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
  misrepresented as being the original software. Since few users
  ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

(26) Mike Barcroft

Copyright (c) 2001 Mike Barcroft <mike@FreeBSD.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(27) Konstantin Chuguev (--enable-newlib-iconv)

Copyright (c) 1999, 2000
  Konstantin Chuguev. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

iconv (Charset Conversion Library) v2.0

(27) Artem Bityuckiy (--enable-newlib-iconv)

Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation.
Rights transferred to Franklin Electronic Publishers.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

(28) Red Hat Incorporated

Unless otherwise stated in each remaining newlib file, the remaining
files in the newlib subdirectory default to the following copyright.
It should be noted that Red Hat Incorporated now owns copyrights
belonging to Cygnus Solutions and Cygnus Support.

Copyright (c) 1994, 1997, 2001, 2002, 2003, 2004 Red Hat Incorporated.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

The name of Red Hat Incorporated may not be used to endorse
or promote products derived from this software without specific
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL RED HAT INCORPORATED BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 1992, 1993, 1994 Henry Spencer. All rights reserved.
This software is not subject to any license of the American Telephone
and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on
any computer system, and to alter it and redistribute it, subject
to the following restrictions:

1. The author is not responsible for the consequences of use of this
software, no matter how awful, even if they arise from flaws in it.

2. The origin of this software must not be misrepresented, either by
explicit claim or by omission. Since few users ever read sources,

credits must appear in the documentation.

3. Altered versions must be plainly marked as such, and must not be
misrepresented as being the original software. Since few users
ever read sources, credits must appear in the documentation.

4. This notice may not be removed or altered.

=-=-=-

1.739.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Chris Hines

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.740 rpcbind 0.2.1

1.740.1 Available under license :

```
/*
* Copyright (c) Copyright (c) Bull S.A.  2005  All Rights Reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name of the author may not be used to endorse or promote products
*    derived from this software without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
* OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
* IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
* INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
* DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
```

* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

1.741 paesslerag-gval 1.1.1

1.741.1 Available under license :

Copyright (c) 2017, Paessler AG <support@paessler.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.742 openjdk 7

1.742.1 Available under license :

c-libutl 20160225

c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==========================================================

(C) 2009 by Remo Dentato (rdentato@gmail.com)
```

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
```

IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

IAIK License

<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
  include the following acknowledgment:

  "This product includes software developed by IAIK of Graz University of
   Technology."

  Alternately, this acknowledgment may appear in the software itself, if and
  wherever such third-party acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
  Technology" must not be used to endorse or promote products derived from this
  software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
  nor may "IAIK" appear in their name, without prior written permission of
  Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

</pre>
Apache Xalan v2.7.2

Apache Xalan Notice
<pre>

==========

====
== NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
== in this case for the Apache Xalan distribution. ==
==========
====

This product includes software developed by
The Apache Software Foundation (http://www.apache.org/).

Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
the source from the packages that are part of the XSLTC sources.

Portions of this software was originally based on the following:

- software copyright (c) 1999-2002, Lotus Development Corporation., http://www.lotus.com.
- software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
- software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
- voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
  Apache Software Foundation and was originally developed at Hewlett Packard Company.

</pre>

Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of,

publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution

notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly
negligent acts) or agreed to in writing, shall any Contributor be
liable to You for damages, including any direct, indirect, special,
incidental, or consequential damages of any character arising as a
result of this License or out of the use or inability to use the
Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing

the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>
Apache Xerces v2.12.2

Apache Xerces Notice
<pre>
  ==
  == NOTICE file corresponding to section 4(d) of the Apache License,   ==
  == Version 2.0, in this case for the Apache Xerces Java distribution. ==
  ==

  Apache Xerces Java
  Copyright 1999-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (http://www.apache.org/).

  Portions of this software were originally based on the following:
  - software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
  - software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
  - voluntary contributions made by Paul Eng on behalf of the
  Apache Software Foundation that were originally developed at iClick, Inc.,
  software copyright (c) 1999.
</pre>

Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
            http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise

designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must

include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any
risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,
whether in tort (including negligence), contract, or otherwise,
unless required by applicable law (such as deliberate and grossly

negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

International Components for Unicode (ICU4J) v72.1

ICU4J License
```

COPYRIGHT AND PERMISSION NOTICE (ICU 58 and later)

Copyright  1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------------------

Third-Party Software Licenses

This section contains third-party software notices and/or additional
terms for licensed third-party software components included within ICU
libraries.

1. ICU License - ICU 1.8.1 to ICU 57.1
```

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2016 International Business Machines Corporation and others
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, and/or sell copies of the Software, and to permit persons
to whom the Software is furnished to do so, provided that the above
copyright notice(s) and this permission notice appear in all copies of
the Software and that both the above copyright notice(s) and this
permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT
OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR
HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY
SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER
RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN
CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale, use
or other dealings in this Software without prior written authorization
of the copyright holder.

All trademarks and registered trademarks mentioned herein are the
property of their respective owners.

2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

The Google Chrome software developed by Google is licensed under
the BSD license. Other software included in this distribution is
provided under other licenses, as set forth below.
#
The BSD License
http://opensource.org/licenses/bsd-license.php
Copyright (C) 2006-2008, Google Inc.
#
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

```
#
#  Redistributions of source code must retain the above copyright notice,
# this list of conditions and the following disclaimer.
#  Redistributions in binary form must reproduce the above
# copyright notice, this list of conditions and the following
# disclaimer in the documentation and/or other materials provided with
# the distribution.
#  Neither the name of  Google Inc. nor the names of its
# contributors may be used to endorse or promote products derived from
# this software without specific prior written permission.
#
#
#  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
# CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
# INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
# MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
# DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
# LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
# CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
# SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
# BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
# LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
# NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
# SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
#
#
#  The word list in cjdict.txt are generated by combining three word lists
# listed below with further processing for compound word breaking. The
# frequency is generated with an iterative training against Google web
# corpora.
#
#  * Libtabe (Chinese)
#    - https://sourceforge.net/project/?group_id=1519
#    - Its license terms and conditions are shown below.
#
#  * IPADIC (Japanese)
#    - http://chasen.aist-nara.ac.jp/chasen/distribution.html
#    - Its license terms and conditions are shown below.
#
#  ---------COPYING.libtabe ---- BEGIN--------------------
#
#  /*
#   * Copyright (c) 1999 TaBE Project.
#   * Copyright (c) 1999 Pai-Hsiang Hsiao.
#   * All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
```

```
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the TaBE Project nor the names of its
#   *   contributors may be used to endorse or promote products derived
#   *   from this software without specific prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  /*
#   * Copyright (c) 1999 Computer Systems and Communication Lab,
#   *                  Institute of Information Science, Academia
#      *                  Sinica. All rights reserved.
#   *
#   * Redistribution and use in source and binary forms, with or without
#   * modification, are permitted provided that the following conditions
#   * are met:
#   *
#   * . Redistributions of source code must retain the above copyright
#   *   notice, this list of conditions and the following disclaimer.
#   * . Redistributions in binary form must reproduce the above copyright
#   *   notice, this list of conditions and the following disclaimer in
#   *   the documentation and/or other materials provided with the
#   *   distribution.
#   * . Neither the name of the Computer Systems and Communication Lab
#   *   nor the names of its contributors may be used to endorse or
#   *   promote products derived from this software without specific
#   *   prior written permission.
#   *
#   * THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
#   * "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

```
#   * LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
#   * FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
#   * REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
#   * INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
#   * (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
#   * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
#   * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
#   * STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
#   * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
#   * OF THE POSSIBILITY OF SUCH DAMAGE.
#   */
#
#  Copyright 1996 Chih-Hao Tsai @ Beckman Institute,
#     University of Illinois
#  c-tsai4@uiuc.edu  http://casper.beckman.uiuc.edu/~c-tsai4
#
#  ---------------COPYING.libtabe-----END-------------------------------
#
#
#  ---------------COPYING.ipadic-----BEGIN------------------------------
#
#  Copyright 2000, 2001, 2002, 2003 Nara Institute of Science
#  and Technology.  All Rights Reserved.
#
#  Use, reproduction, and distribution of this software is permitted.
#  Any copy of this software, whether in its original form or modified,
#  must include both the above copyright notice and the following
#  paragraphs.
#
#  Nara Institute of Science and Technology (NAIST),
#  the copyright holders, disclaims all warranties with regard to this
#  software, including all implied warranties of merchantability and
#  fitness, in no event shall NAIST be liable for
#  any special, indirect or consequential damages or any damages
#  whatsoever resulting from loss of use, data or profits, whether in an
#  action of contract, negligence or other tortuous action, arising out
#  of or in connection with the use or performance of this software.
#
#  A large portion of the dictionary entries
#  originate from ICOT Free Software.  The following conditions for ICOT
#  Free Software applies to the current dictionary as well.
#
#  Each User may also freely distribute the Program, whether in its
#  original form or modified, to any third party or parties, PROVIDED
#  that the provisions of Section 3 ("NO WARRANTY") will ALWAYS appear
#  on, or be attached to, the Program, which is distributed substantially
#  in the same form as set out herein and that such intended
#  distribution, if actually made, will neither violate or otherwise
```

```
#  contravene any of the laws and regulations of the countries having
#  jurisdiction over the User or the intended distribution itself.
#
#  NO WARRANTY
#
#  The program was produced on an experimental basis in the course of the
#  research and development conducted during the project and is provided
#  to users as so produced on an experimental basis.  Accordingly, the
#  program is provided without any warranty whatsoever, whether express,
#  implied, statutory or otherwise.  The term "warranty" used herein
#  includes, but is not limited to, any warranty of the quality,
#  performance, merchantability and fitness for a particular purpose of
#  the program and the nonexistence of any infringement or violation of
#  any right of any third party.
#
#  Each user of the program will agree and understand, and be deemed to
#  have agreed and understood, that there is no warranty whatsoever for
#  the program and, accordingly, the entire risk arising from or
#  otherwise connected with the program is assumed by the user.
#
#  Therefore, neither ICOT, the copyright holder, or any other
#  organization that participated in or was otherwise related to the
#  development of the program and their respective officials, directors,
#  officers and other employees shall be held liable for any and all
#  damages, including, without limitation, general, special, incidental
#  and consequential damages, arising out of or otherwise in connection
#  with the use or inability to use the program or any product, material
#  or result produced or otherwise obtained by using the program,
#  regardless of whether they have been advised of, or otherwise had
#  knowledge of, the possibility of such damages at any time during the
#  project or thereafter.  Each user will be deemed to have agreed to the
#  foregoing by his or her commencement of use of the program.  The term
#  "use" as used herein includes, but is not limited to, the use,
#  modification, copying and distribution of the program and the
#  production of secondary products from the program.
#
#  In the case where the program, whether in its original form or
#  modified, was distributed or delivered to or received by a user from
#  any person, organization or entity other than ICOT, unless it makes or
#  grants independently of ICOT any specific warranty to the user in
#  writing, such person, organization or entity, will also be exempted
#  from and not be held liable to the user for any such damages as noted
#  above as far as the program is concerned.
#
#  ---------------COPYING.ipadic-----END---------------------------------
```

3. Lao Word Break Dictionary Data (laodict.txt)

Copyright (C) 2016 and later: Unicode, Inc. and others.
License & terms of use: http://www.unicode.org/copyright.html
Copyright (c) 2015 International Business Machines Corporation
and others. All Rights Reserved.
#
Project: https://github.com/rober42539/lao-dictionary
Dictionary: https://github.com/rober42539/lao-dictionary/laodict.txt
License: https://github.com/rober42539/lao-dictionary/LICENSE.txt
(copied below)
#
This file is derived from the above dictionary version of Nov 22, 2020

Copyright (C) 2013 Brian Eugene Wilson, Robert Martin Campbell.
All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
#
Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer. Redistributions in binary
form must reproduce the above copyright notice, this list of conditions and
the following disclaimer in the documentation and/or ther materials
provided with the distribution.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS
FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.
----

4. Burmese Word Break Dictionary Data (burmesedict.txt)

Copyright (c) 2014 International Business Machines Corporation
and others. All Rights Reserved.
#
This list is part of a project hosted at:
github.com/kanyawtech/myanmar-karen-word-lists
#

Copyright (c) 2013, LeRoy Benjamin Sharon

All rights reserved.
#
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met: Redistributions of source code must retain the above
copyright notice, this list of conditions and the following
disclaimer. Redistributions in binary form must reproduce the
above copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials provided
with the distribution.
#
Neither the name Myanmar Karen Word Lists, nor the names of its
contributors may be used to endorse or promote products derived
from this software without specific prior written permission.
#
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
---

5. Time Zone Database

ICU uses the public domain data and code derived from Time Zone
Database for its time zone support. The ownership of the TZ database
is explained in BCP 175: Procedure for Maintaining the Time Zone
Database section 7.

7. Database Ownership
#
The TZ database itself is not an IETF Contribution or an IETF
document. Rather it is a pre-existing and regularly updated work
that is in the public domain, and is intended to remain in the
public domain. Therefore, BCPs 78 [RFC5378] and 79 [RFC3979] do
not apply to the TZ Database or contributions that individuals make
to it. Should any claims be made and substantiated against the TZ
Database, the organization that is providing the IANA
Considerations defined in this RFC, under the memorandum of
understanding with the IETF, currently ICANN, may act in accordance

with all competent court orders. No ownership claims will be made
by ICANN or the IETF Trust on the database or the code. Any person
making a contribution to the database or code waives all rights to
future claims in that contribution or in the TZ Database.

6. Google double-conversion

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name of Google Inc. nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Unicode Copyright and Terms of Use
For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright
Copyright 1991-2022 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:

https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.
The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.
All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.
No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.
Modification is not permitted with respect to this document. All copies of this document must be verbatim.
Restricted Rights Legend
Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.
Warranties and Disclaimers
This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.
If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.
EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.
Waiver of Damages
In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage,

including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.
Trademarks & Logos
The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.
The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.
All third party trademarks referenced herein are the property of their respective owners.
Miscellaneous
Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.
Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.
Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.
Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.
Entire Agreement. This Agreement constitutes the entire agreement between the parties.

==========

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use
for definitions of Unicode Inc.s Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## zlib v1.2.13

### zlib License
<pre>

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
  claim that you wrote the original software. If you use this software
  in a product, an acknowledgment in the product documentation would be
```

appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

</pre>
Eastman Kodak Company: Portions of color management and imaging software

Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
DOM Level 3 Core Specification v1.0

W3C Software Notice
<pre>
Copyright 2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL

copies of the software and documentation or portions thereof, including modifications:

1.The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it

under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation. Oracle designates this
particular file as subject to the "Classpath" exception as provided
by Oracle in the LICENSE file that accompanied this code.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
The Unicode Standard, Unicode Character Database, Version 15.0.0

Unicode Character Database
```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
```

or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

=== http://www.unicode.org/copyright.html content ===
Unicode (R) Copyright and Terms of Use
For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright
Copyright (C) 1991-2022 Unicode, Inc. All rights reserved.
Definitions
Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard
or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/
Terms of Use
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America.

Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.
Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.
Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.
Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.
Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```
## Apache Commons Byte Code Engineering Library (BCEL) Version 6.7.0

### Apache Commons BCEL Notice
<pre>

  Apache Commons BCEL
  Copyright 2004-2022 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (https://www.apache.org/).

</pre>

### Apache 2.0 License
<pre>

                    Apache License
                Version 2.0, January 2004
            http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
```

other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and

subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed

as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the

Work (including but not limited to damages for loss of goodwill,
work stoppage, computer failure or malfunction, or any and all
other commercial damages or losses), even if such Contributor
has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
jQuery v3.6.1

jQuery License
```
```

jQuery v 3.6.1
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

****

The jQuery JavaScript Library v3.6.1 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

****

```
## jopt-simple v5.0.4

### MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
```

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both

(a) the Software, and

(b) any piece of software and/or hardware listed in the lrgrwrks.txt file if one is included with the Software (each a "Larger Work" to which the Software is contributed by such licensors),

without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========

PNG Reference Library License version 2
---

* Copyright (c) 1995-2022 The PNG Reference Library Authors.
* Copyright (c) 2018-2022 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,

express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement. In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our

efforts or the library will fulfill any of your particular purposes
or needs. This library is provided with all faults, and the entire
risk of satisfactory quality, performance, accuracy, and effort is
with the user.

Some files in the "contrib" directory and some configure-generated
files that are distributed with libpng have other copyright owners, and
are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are
Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from
libpng-0.96, and are distributed according to the same disclaimer and
license as libpng-0.96, with the following individuals added to the
list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing

Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.
Unicode Common Local Data Repository (CLDR) v43

CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use <https://www.unicode.org/copyright.html>
for definitions of Unicode Inc.s Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.
```

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

---------- Terms of Use ----------
-

Unicode Copyright and Terms of Use

For the general privacy policy governing access to this site, see the Unicode Privacy Policy.

Unicode Copyright

Copyright 1991-2023 Unicode, Inc. All rights reserved.

Definitions

Unicode Data Files ("DATA FILES") include all data files under the directories:
https://www.unicode.org/Public/
https://www.unicode.org/reports/
https://www.unicode.org/ivd/data/

Unicode Data Files do not include PDF online code charts under the directory:
https://www.unicode.org/Public/

Unicode Software ("SOFTWARE") includes any source code published in the Unicode Standard or any source code or compiled code under the directories:
https://www.unicode.org/Public/PROGRAMS/
https://www.unicode.org/Public/cldr/
http://site.icu-project.org/download/

Terms of Use

Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.

Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files, subject to the Terms and Conditions herein.

Further specifications of rights and restrictions pertaining to the use of the Unicode DATA FILES and SOFTWARE can be found in the Unicode Data Files and Software License.

Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book editions (Unicode 5.0 and earlier), these are found on the back of the title page.

The Unicode PDF online code charts carry specific restrictions. Those restrictions are incorporated as the first page of each PDF code chart.

All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

Restricted Rights Legend

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

Warranties and Disclaimers

This publication and/or website may include technical or typographical errors or other inaccuracies. Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode, Inc. may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION E.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE, INC. AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

Waiver of Damages

In no event shall Unicode, Inc. or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode, Inc. was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

Trademarks & Logos

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

Miscellaneous

Jurisdiction and Venue. This website is operated from a location in the State of California, United States of America. Unicode, Inc. makes no representation that the materials are appropriate for use in other locations. If you access this website from other locations, you are responsible for compliance with local laws. This Agreement, all use of this website and any claims and damages resulting from use of this website are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this website shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode, Inc. Unicode, Inc. shall have the right to modify this Agreement at any time by posting it to this website. The user may not assign any part of this Agreement without Unicode, Inc.s prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.

```
## PC/SC Lite v1.9.9

### PC/SC Lite Notice
```

MUSCLE SmartCard Development (https://pcsclite.apdu.fr/)

Only 3 header files are included in this distribution: winscard.h, wintypes.h, pcsclite.h

Copyright for winscard.h:
* Copyright (C) 1999-2003
* David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2009
* Ludovic Rousseau <ludovic.rousseau@free.fr>

Copyright for wintypes.h:

* Copyright (C) 1999
* David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2011
* Ludovic Rousseau <ludovic.rousseau@free.fr>

Copyright for pcsclite.h:
* Copyright (C) 1999-2004
* David Corcoran <corcoran@musclecard.com>
* Copyright (C) 2002-2011
* Ludovic Rousseau <ludovic.rousseau@free.fr>
* Copyright (C) 2005
* Martin Paljak <martin@paljak.pri.ee>

```

### PC/SC Lite License
```

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
## jQuery UI v1.13.2

### jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

```
## CUP Parser Generator for Java v 0.11b

### CUP Parser Generator License

```

Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```
---
```
This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it.  By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the
software is free for all its users.  This General Public License applies to
most of the Free Software Foundation's software and to any other program whose
authors commit to using it.  (Some other Free Software Foundation software is
covered by the GNU Library General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not price.  Our
General Public Licenses are designed to make sure that you have the freedom to
```

distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is

not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the

right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so

long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original

copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE
PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

> One line to give the program's name and a brief idea of what it does.
>
> Copyright (C) <year> <name of author>
>
> This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
>
> This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.
>
> You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

> Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General Public
License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are
subject to the following clarification and special exception to the GPL, but
only where Oracle has expressly included in the particular source file's header
the words "Oracle designates this particular file as subject to the "Classpath"
exception as provided by Oracle in the LICENSE file that accompanied this code."

Linking this library statically or dynamically with other modules is making
a combined work based on this library. Thus, the terms and conditions of
the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you
permission to link this library with independent modules to produce an
executable, regardless of the license terms of these independent modules,
and to copy and distribute the resulting executable under terms of your
choice, provided that you also meet, for each linked independent module,
the terms and conditions of the license of that module. An independent
module is a module which is not derived from or based on this library. If
you modify this library, you may extend this exception to your version of
the library, but you are not obligated to do so. If you do not wish to do
so, delete this exception statement from your version.
Dynalink v.5

Dynalink License
<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

- Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

- Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

- Neither the name of Oracle nor the names of its
  contributors may be used to endorse or promote products derived
  from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Mesa 3-D Graphics Library v21.0.3

Mesa License

```
Copyright (C) 1999-2007  Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
```

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component	Location	License
Main Mesa code	src/mesa/	MIT
Device drivers	src/mesa/drivers/*	MIT, generally
Gallium code	src/gallium/	MIT
Ext headers	GL/glext.h	Khronos
	GL/glxext.h	Khronos
	GL/wglext.h	Khronos
	KHR/khrplatform.h	Khronos

****

---
include/GL/gl.h :

Mesa 3-D graphics library

Copyright (C) 1999-2006 Brian Paul All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

****

---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included

in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and/or associated documentation files (the "Materials"), to deal in the Materials without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Materials, and to permit persons to whom the Materials are furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```
## xwd v1.0.7

### xwd utility
<pre>

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
```

Copyright 1996, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
The FreeType Project: Freetype v2.13.0

FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

FreeType License
```
```

Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2023 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2023 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, George Williams, and
Copyright (C) 2004-2023 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2023 by Derek Clegg and Michael Toftdal.
Copyright (C) 2003-2023 by Masatake YAMATO, Red Hat K.K.,
Copyright (C) 1996-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Dominik Rttsches.
Copyright (C) 2007-2023 by David Turner.
Copyright (C) 2022-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2023 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2013-2023 by Google, Inc.
Copyright (C) 2019-2023 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2023 by Oran Agra and Mickey Gabel.
Copyright (C) 2018-2023 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2004-2023 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

o We don't promise that this software works. However, we will be

interested in any kind of bug reports. (`as is' distribution)

o You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org).  All rights reserved.
"""
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original

FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

- o Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

- o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine', `FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

https://www.freetype.org

```

### GPL v2

```
GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be

distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein.

You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may

consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```

### Additional Freetype Attributions
```

The below license applies to the following files:
libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright 2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or object code form as indicated by the copyright notice(s) included herein (collectively, the "Work") is made available, and may only be used, modified, and distributed under the FreeType Project License, LICENSE.TXT. Additionally, subject to the terms and conditions of the FreeType Project License, each contributor to the Work hereby grants to any individual or legal entity exercising permissions granted by the FreeType Project License and this section (hereafter, "You" or "Your") a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such contributor that are necessarily

infringed by their contribution(s) alone or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the
FreeType Project License as well as those provided in this section,
and you accept them fully.

```

### MIT License
```

The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## Little Color Management System (LCMS) v2.15

### LCMS License
<pre>
README.1ST file information

LittleCMS core is released under MIT License

---------------------------------

Little CMS
Copyright (c) 1998-2023 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject
to the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------
The below license applies to the following files:
liblcms/cmssm.c

Copyright 2001, softSurfer (www.softsurfer.com)

This code may be freely used and modified for any purpose
providing that this copyright notice is included with it.
SoftSurfer makes no warranty for this code, and cannot be held
liable for any real or imagined damage resulting from its use.
Users of this code must verify correctness for their application.

</pre>
```

AUTHORS File Information
```


Main Author
----------
Marti Maria


Contributors
----------
Bob Friesenhahn
Kai-Uwe Behrmann
Stuart Nixon
Jordi Vilar
Richard Hughes
Auke Nauta
Chris Evans (Google)
Lorenzo Ridolfi
Robin Watts (Artifex)
Shawn Pedersen
Andrew Brygin
Samuli Suominen
Florian Hch
Aurelien Jarno
Claudiu Cebuc
Michael Vhrel (Artifex)
Michal Cihar
Daniel Kaneider
Mateusz Jurczyk (Google)
Paul Miller
Sbastien Lon
Christian Schmitz
XhmikosR
Stanislav Brabec (SuSe)
Leonhard Gruenschloss (Google)
Patrick Noffke
Christopher James Halse Rogers
John Hein
Thomas Weber (Debian)
Mark Allen
Noel Carboni
Sergei Trofimovic
Philipp Knechtges
Amyspark
Lovell Fuller
Eli Schwartz
```

Special Thanks

Artifex software
AlienSkin software
libVIPS
Jan Morovic
Jos Vernon (WebSupergoo)
Harald Schneider (Maxon)
Christian Albrecht
Dimitrios Anastassakis
Lemke Software
Tim Zaman

```
This is the copyright file
## libpng v1.6.39

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
=========================================

PNG Reference Library License version 2
---------------------------------------

Copyright (c) 1995-2022 The PNG Reference Library Authors.
Copyright (c) 2018-2022 Cosmin Truta
Copyright (c) 1998-2018 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software.  If you
```

use this software in a product, an acknowledgment in the product documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are derived from libpng-1.0.6, and are distributed according to the same disclaimer and license as libpng-1.0.6 with the following individuals added to the list of Contributing Authors:

Simon-Pierre Cadieux
Eric S. Raymond
Mans Rullgard
Cosmin Truta
Gilles Vollant
James Yu
Mandar Sahastrabuddhe
Google Inc.
Vadim Barkov

and with the following additions to the disclaimer:

There is no warranty against interference with your enjoyment of the library or against infringement. There is no warranty that our efforts or the library will fulfill any of your particular purposes or needs. This library is provided with all faults, and the entire risk of satisfactory quality, performance, accuracy, and effort is with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are
Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88,
and are distributed according to the same disclaimer and license as
libpng-0.88, with the following individuals added to the list of
Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners,
but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors"
is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing
Authors and Group 42, Inc. disclaim all warranties, expressed or
implied, including, without limitation, the warranties of
merchantability and of fitness for any purpose. The Contributing
Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not

be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

TRADEMARK
=========

The name "libpng" has not been registered by the Copyright owners
as a trademark in any jurisdiction. However, because libpng has
been distributed and maintained world-wide, continually since 1995,
the Copyright owners claim "common-law trademark protection" in any
jurisdiction where common-law trademark is recognized.

</pre>

AUTHORS File Information
```
PNG REFERENCE LIBRARY AUTHORS
=============================

This is the list of PNG Reference Library ("libpng") Contributing
Authors, for copyright and licensing purposes.

* Andreas Dilger
* Cosmin Truta
* Dave Martindale
* Eric S. Raymond
* Gilles Vollant
* Glenn Randers-Pehrson
* Greg Roelofs
* Guy Eric Schalnat
* James Yu
* John Bowler
* Kevin Bracey
* Magnus Holmgren
* Mandar Sahastrabuddhe
* Mans Rullgard
* Matt Sarett
* Mike Klein
* Pascal Massimino
* Paul Schmidt
```

* Qiang Zhou
* Sam Bushell
* Samuel Williams
* Simon-Pierre Cadieux
* Tim Wegner
* Tom Lane
* Tom Tanner
* Vadim Barkov
* Willem van Schaik
* Zhijie Liang
* Arm Holdings
  - Richard Townsend
* Google Inc.
  - Dan Field
  - Leon Scroggins III
  - Matt Sarett
  - Mike Klein
  - Sami Boukortt

The build projects, the build scripts, the test scripts, and other
files in the "ci", "projects", "scripts" and "tests" directories, have
other copyright owners, but are released under the libpng license.

Some files in the "contrib" directory, and some tools-generated files
that are distributed with libpng, have other copyright owners, and are
released under other open source licenses.
```
UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE

See Terms of Use for definitions of Unicode Inc.'s
Data Files and Software.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2022 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in https://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
```

(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
http://www.theFixx.org/Jeff
jpackage test license file (just some sample text).
Thai Dictionary

Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
PipeWire 0.3.68

PipeWire license:

All PipeWire header files are licensed under the MIT License:

<pre>
Copyright 2018-2023 Wim Taymans

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice (including the next
paragraph) shall be included in all copies or substantial portions of the
Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
</pre>

The below copyright applies to the following files:

spa/include/spa/monitor/type-info.h

```
Copyright  2021 Collabora Ltd.
```

spa/include/spa/utils/string.h
```
Copyright  2021 Red Hat, Inc.
```
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Files: *
Copyright: APPLICATION_COPYRIGHT
License: APPLICATION_LICENSE_TEXT
Apache Santuario v3.0.2

Apache 2.0 License
```

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical
```

transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use,

reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```

### Apache Santuario Notice
```

Apache Santuario - XML Security for Java
Copyright 1999-2023 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

It was originally based on software copyright (c) 2001, Institute for
Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

The development of this software was partly funded by the European
Commission in the <WebSig> project in the ISIS Programme.

This product contains software that is
copyright (c) 2021, Oracle and/or its affiliates.
```
```

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are subject to the following clarification and special exception to the GPLv2, based on the GNU Project exception for its Classpath libraries, known as the GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software package. Some of those programs are provided under licenses deemed incompatible with the GPLv2 by the Free Software Foundation and others. For example, the package includes programs licensed under the Apache License, Version 2.0 and may include FreeType. Such programs are licensed to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the Classpath Exception to the necessary parts of its GPLv2 code, which permits you to use that code in combination with other independent modules not licensed under the GPLv2. However, note that this would not permit you to commingle code under an incompatible license with Oracle's GPLv2 licensed code by, for example, cutting and pasting such code into a file also containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package.

Failing to distribute notices associated with some files may also create unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications to this package which may subsequently be redistributed and/or involve the use of third party software.
ASM Bytecode Manipulation Framework v9.3

ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>
OASIS PKCS #11 Cryptographic Token Interface v3.0

OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright OASIS Open 2020. All Rights Reserved.

All capitalized terms in the following text have the meanings
assigned to them in the OASIS Intellectual Property Rights Policy (the
"OASIS IPR Policy"). The full Policy may be found at the OASIS website:
[http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to
others, and derivative works that comment on or otherwise explain it or
assist in its implementation may be prepared, copied, published, and
distributed, in whole or in part, without restriction of any kind,
provided that the above copyright notice and this section are included
on all such copies and derivative works. However, this document itself
may not be modified in any way, including by removing the copyright
notice or references to OASIS, except as needed for the purpose of
developing any document or deliverable produced by an OASIS Technical
Committee (in which case the rules applicable to copyrights, as set
forth in the OASIS IPR Policy, must be followed) or as required to

translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this OASIS Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any claims in such list are, in fact, Essential Claims.]

</pre>
Cryptix AES v3.2.0

Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the copyright notice,
   this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in
   the documentation and/or other materials provided with the
   distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND
CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Independent JPEG Group: JPEG release 6b

JPEG License

```
*****************************************************************************

Copyright (C) 1991-1998, Thomas G. Lane.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
```

Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain

over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

****
```

All images in this directory are copyright 1995 by Jeff Dinkins.
## GIFLIB v5.2.1

### GIFLIB License
```

The GIFLIB distribution is Copyright (c) 1997 Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

SPDX-License-Identifier: MIT
JLine v3.22.0

JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

4th Party Dependency
==========
org.fusesource.jansi version 2.4.0
org.apache.sshd 2.9.2
org.apache.felix.gogo.runtime 1.1.6
org.apache.felix.gogo.jline 1.1.8

==========

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

==========
juniversalchardet

The library is subject to the Mozilla Public License Version 1.1.

Alternatively, the library may be used under the terms of either the GNU General Public License Version 2 or later, or the GNU Lesser General Public License 2.1 or later.

==========

slf4j

SLF4J source code and binaries are distributed under the MIT license.

Copyright (c) 2004-2023 QOS.ch
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

These terms are identical to those of the MIT License, also called the X License
or the X11 License, which is a simple, permissive non-copyleft free software license.
It is deemed compatible with virtually all types of licenses, commercial or otherwise.
In particular, the Free Software Foundation has declared it compatible with GNU GPL.
It is also known to be approved by the Apache Software Foundation as compatible with
Apache Software License.

</pre>
Harfbuzz v7.2.0

Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/7.2.0/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license. Details follow.
For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright 2010-2023 Google, Inc.
Copyright 2018-2020 Ebrahim Byagowi
Copyright 2004-2013 Red Hat, Inc.
Copyright 2019 Facebook, Inc.
Copyright 2007 Chris Wilson
Copyright 2018-2019 Adobe Inc.
Copyright 2006-2023 Behdad Esfahbod
Copyright 1998-2004 David Turner and Werner Lemberg
Copyright 2009 Keith Stribley
Copyright 2018 Khaled Hosny
Copyright 2016 Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright 2016 Igalia S.L.
Copyright 2015 Mozilla Foundation.
Copyright 1999 David Turner
Copyright 2005 Werner Lemberg
Copyright 2013-2015 Alexei Podtelezhnikov
Copyright 2022 Matthias Clasen
Copyright 2011 Codethink Limited

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section, is licensed as above. The one exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

The below license applies to the following files:
libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

</pre>

AUTHORS File Information
```

Behdad Esfahbod
David Corbett
David Turner
Ebrahim Byagowi
Garret Rieger
Jonathan Kew
Khaled Hosny
Lars Knoll
Martin Hosken
```

Owen Taylor
Roderick Sheeter
Roozbeh Pournader
Simon Hausmann
Werner Lemberg

```
Copyright (c) %YEARS% Oracle and/or its affiliates. All rights reserved.
DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS FILE HEADER.

This code is free software; you can redistribute it and/or modify it
under the terms of the GNU General Public License version 2 only, as
published by the Free Software Foundation.

This code is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE.  See the GNU General Public License
version 2 for more details (a copy is included in the LICENSE file that
accompanied this code).

You should have received a copy of the GNU General Public License version
2 along with this work; if not, write to the Free Software Foundation,
Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA.

Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA
or visit www.oracle.com if you need additional information or have any
questions.
```

Mozilla Public Suffix List

Public Suffix Notice

```
You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/88467c960d6cdad2ca1623e892e5e17506bc269f/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations under the License.
```

```

### MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.

1.5. "Incompatible With Secondary Licenses"
  means

  (a) that the initial Contributor has attached the notice described
      in Exhibit B to the Covered Software; or

  (b) that the Covered Software was made available under the terms of
      version 1.1 or earlier of the License, but not also under the
      terms of a Secondary License.

1.6. "Executable Form"
  means any form of the work other than Source Code Form.

1.7. "Larger Work"
  means a work that combines Covered Software with other material, in
  a separate file or files, that is not Covered Software.

1.8. "License"
  means this document.

1.9. "Licensable"
```
```

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for

the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become

compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
```

```
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

```
Copyright (c) 1999-2003 David Corcoran <corcoran@musclecard.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without
```

modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products
  derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licenses. However, they are not included here and thus this file is a truncated version of the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file.
Bert Belder: wepoll v 1.5.8

wepoll License
```
wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

Copyright 2012-2020, Bert Belder <bertbelder@gmail.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

 * Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

 * Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
```

LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

# 1.743 less 479

## 1.743.1 Available under license :

Less License
---

Less
Copyright (C) 1984-2018  Mark Nudelman

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
  notice in the documentation and/or other materials provided with
  the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT
OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE
OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN
IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
```

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to

use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and

appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be

included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is

governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work

occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively

state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.744 go-restful 3.10.2

1.744.1 Available under license :

Copyright (c) 2012,2013 Ernest Micklei

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.745 kubernetes-apimachinery 0.26.2

1.745.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work

(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses

granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.

Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]"

replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.746 openjdk-jre 11.0.18u10

1.746.1 Available under license :

The Unicode Standard, Unicode Character Database, Version 10.0.0

Unicode Character Database

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.
```

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```

## Pako v1.0

### Pako License
<pre>
Copyright (C) 2014-2017 by Vitaly Puzrin and Andrei Tuputcyn
```

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
(C) 1995-2013 Jean-loup Gailly and Mark Adler
(C) 2014-2017 Vitaly Puzrin and Andrey Tupitsin

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

</pre>
Apache Xerces v2.12.2

Apache Xerces Notice
<pre>
  ==
  == NOTICE file corresponding to section 4(d) of the Apache License,   ==
  == Version 2.0, in this case for the Apache Xerces Java distribution. ==
  ==

  Apache Xerces Java

Copyright 1999-2022 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

Portions of this software were originally based on the following:
- software copyright (c) 1999, IBM Corporation., http://www.ibm.com.
- software copyright (c) 1999, Sun Microsystems., http://www.sun.com.
- voluntary contributions made by Paul Eng on behalf of the
Apache Software Foundation that were originally developed at iClick, Inc.,
software copyright (c) 1999.
</pre>

Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,

and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s)

with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
JSZip v3.7.1

JSZip is dual licensed. You may use it under the MIT license *or* the GPLv3
license.

The MIT License
```
Copyright (c) 2009-2016 Stuart Knightley, David Duponchel, Franz Buchinger, Antnio Afonso

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
```

FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

### GPL version 3
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the

earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article

11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display

Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the

Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has

been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is

reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered

work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will

be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided

above cannot be given local legal effect according to their terms,
reviewing courts shall apply local law that most closely approximates
an absolute waiver of all civil liability in connection with the
Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS
```
## c-libutl 20160225

### c-libutl License
```

This software is distributed under the terms of the BSD license.

== BSD LICENSE ==========

(C) 2009 by Remo Dentato (rdentato@gmail.com)

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

http://opensource.org/licenses/bsd-license.php

```
## xwd v1.0.7

### xwd utility
<pre>
```

This is the copyright for the files in src/java.desktop/unix/native/libawt_xawt:
list.h, multiVis.h, wsutils.h, list.c, multiVis.c

Copyright 1994 Hewlett-Packard Co.
Copyright 1996, 1998 The Open Group

Permission to use, copy, modify, distribute, and sell this software and its
documentation for any purpose is hereby granted without fee, provided that
the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation.

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall
not be used in advertising or otherwise to promote the sale, use or
other dealings in this Software without prior written authorization
from The Open Group.

</pre>
Mozilla Elliptic Curve Cryptography (ECC)

Mozilla ECC Notice

This notice is provided with respect to Elliptic Curve Cryptography,
which is included with JRE, JDK, and OpenJDK.

You are receiving a
[copy](http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl)
of the Elliptic Curve Cryptography library in source
form with the JDK and OpenJDK source distributions, and as object code in
the JRE & JDK runtimes.
<pre>
In the case of the JRE & JDK runtimes, the terms of the Oracle license do
NOT apply to the Elliptic Curve Cryptography library; it is licensed under the
following license, separately from Oracle's JDK & JRE. If you do not wish to
install the Elliptic Curve Cryptography library, you may delete the
Elliptic Curve Cryptography library:
  - On Solaris and Linux systems: delete $(JAVA_HOME)/lib/libsunec.so

- On Mac OSX systems: delete $(JAVA_HOME)/lib/libsunec.dylib
- On Windows systems: delete $(JAVA_HOME)\bin\sunec.dll

</pre>

Written Offer for Source Code
<pre>

For third party technology that you receive from Oracle in binary form
which is licensed under an open source license that gives you the right
to receive the source code for that binary, you can obtain a copy of
the applicable source code from this page:
http://hg.openjdk.java.net/jdk9/jdk9/jdk/file/tip/src/jdk.crypto.ec/share/native/libsunec/impl

If the source code for the technology was not provided to you with the
binary, you can also receive a copy of the source code on physical
media by submitting a written request to:

Oracle America, Inc.
Attn: Associate General Counsel,
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065

Or, you may send an email to Oracle using the form at:

http://www.oracle.com/goto/opensourcecode/request

Your request should include:

- The name of the component or binary file(s) for which you are requesting the source code

- The name and version number of the Oracle product containing the binary

- The date you received the Oracle product

- Your name

- Your company name (if applicable)

- Your return mailing address and email and

- A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing.
Your request must be sent (i) within three (3) years of the date you
received the Oracle product that included the component or binary
file(s) that are the subject of your request, or (ii) in the case of

code licensed under the GPL v3, for as long as Oracle offers spare parts or customer support for that product model.

</pre>

LGPL 2.1
<pre>

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work

during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or

otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

</pre>
IAIK (Institute for Applied Information Processing and Communication) PKCS#11 wrapper files v1

IAIK License
<pre>

Copyright (c) 2002 Graz University of Technology. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must
include the following acknowledgment:

"This product includes software developed by IAIK of Graz University of
Technology."

Alternately, this acknowledgment may appear in the software itself, if and
wherever such third-party acknowledgments normally appear.

4. The names "Graz University of Technology" and "IAIK of Graz University of
Technology" must not be used to endorse or promote products derived from this
software without prior written permission.

5. Products derived from this software may not be called "IAIK PKCS Wrapper",
nor may "IAIK" appear in their name, without prior written permission of
Graz University of Technology.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE LICENSOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
JLine v3.20.0

JLine License
<pre>

Copyright (c) 2002-2018, the original author or authors.
All rights reserved.

https://opensource.org/licenses/BSD-3-Clause

Redistribution and use in source and binary forms, with or
without modification, are permitted provided that the following
conditions are met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with
the distribution.

Neither the name of JLine nor the names of its contributors
may be used to endorse or promote products derived from this
software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO
EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED
AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
PC/SC Lite v1.9.5

PC/SC Lite License
<pre>

The main parts of the code are using the BSD-like licence bellow:

Copyright (c) 1999-2003 David Corcoran <corcoran@linuxnet.com>
Copyright (c) 2001-2011 Ludovic Rousseau <ludovic.rousseau@free.fr>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

Changes to this license can be made only by the copyright author with explicit written consent.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Some source code files are using other licences. See the [COPYING](https://salsa.debian.org/rousseau/PCSC/-/blob/master/COPYING) file for details.

</pre>
The FreeType Project: Freetype v2.12.1

FreeType Notice

```
FreeType comes with two licenses from which you can choose the one
which fits your needs best.

  The FreeType License (FTL) is the most commonly used one. It is
  a BSD-style license with a credit clause and thus compatible with
  the GNU Public License (GPL) version 3, but not with the
  GPL version 2.

  The GNU General Public License (GPL), version 2. Use it for all
  projects which use the GPLv2 also, or which need a license
  compatible to the GPLv2.

```

FreeType License
```

Copyright (C) 1996-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2007-2022 by Dereg Clegg and Michael Toftdal.
Copyright (C) 1996-2022 by Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2004-2022 by Masatake YAMATO and Redhat K.K.
Copyright (C) 2007-2022 by Derek Clegg and Michael Toftdal.
Copyright (C) 2007-2022 by David Turner.
Copyright (C) 2022 by David Turner, Robert Wilhelm, Werner Lemberg, and Moazin Khatti.
Copyright (C) 2007-2022 by Rahul Bhalerao <rahul.bhalerao@redhat.com>, <b.rahul.pm@gmail.com>.
Copyright (C) 2008-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and suzuki toshiya.
Copyright (C) 2019-2022 by Nikhil Ramakrishnan, David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright (C) 2009-2022 by Oran Agra and Mickey Gabel.
Copyright (C) 2004-2022 by David Turner, Robert Wilhelm, Werner Lemberg, and George Williams.
```

Copyright (C) 2004-2022 by Masatake YAMATO, Red Hat K.K.,
Copyright (C) 2003-2022 by Masatake YAMATO, Redhat K.K.,
Copyright (C) 2013-2022 by Google, Inc.
Copyright (C) 2018-2022 by David Turner, Robert Wilhelm, Dominik Rttsches, and Werner Lemberg.
Copyright (C) 2005-2022 by David Turner, Robert Wilhelm, and Werner Lemberg.
Copyright 2013 by Google, Inc.

The FreeType Project LICENSE

2006-Jan-27

Copyright 1996-2002, 2006 by
David Turner, Robert Wilhelm, and Werner Lemberg

Introduction
==========

The FreeType Project is distributed in several archive packages; some of them may contain, in addition to the FreeType font engine, various tools and contributions which rely on, or relate to, the FreeType Project.

This license applies to all files found in such packages, and which do not fall under their own explicit license. The license affects thus the FreeType font engine, the test programs, documentation and makefiles, at the very least.

This license was inspired by the BSD, Artistic, and IJG (Independent JPEG Group) licenses, which all encourage inclusion and use of free software in commercial and freeware products alike. As a consequence, its main points are that:

o We don't promise that this software works. However, we will be interested in any kind of bug reports. (`as is' distribution)

o You can use this software for whatever you want, in parts or full form, without having to pay us. (`royalty-free' usage)

o You may not pretend that you wrote this software. If you use it, or only parts of it, in a program, you must acknowledge somewhere in your documentation that you have used the FreeType code. (`credits')

We specifically permit and encourage the inclusion of this

software, with or without modifications, in commercial products. We disclaim all warranties covering The FreeType Project and assume no liability related to The FreeType Project.

Finally, many people asked us for a preferred form for a credit/disclaimer to use in compliance with this license. We thus encourage you to use the following text:

```
"""
  Portions of this software are copyright <year> The FreeType
  Project (www.freetype.org). All rights reserved.
"""
```

Please replace <year> with the value from the FreeType version you actually use.

Legal Terms
==========

0. Definitions

Throughout this license, the terms `package', `FreeType Project', and `FreeType archive' refer to the set of files originally distributed by the authors (David Turner, Robert Wilhelm, and Werner Lemberg) as the `FreeType Project', be they named as alpha, beta or final release.

`You' refers to the licensee, or person using the project, where `using' is a generic term including compiling the project's source code as well as linking it to form a `program' or `executable'. This program is referred to as `a program using the FreeType engine'.

This license applies to all files distributed in the original FreeType Project, including all source code, binaries and documentation, unless otherwise stated in the file in its original, unmodified form as distributed in the original archive. If you are unsure whether or not a particular file is covered by this license, you must contact us to verify this.

The FreeType Project is copyright (C) 1996-2000 by David Turner, Robert Wilhelm, and Werner Lemberg. All rights reserved except as specified below.

1. No Warranty

THE FREETYPE PROJECT IS PROVIDED `AS IS' WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL ANY OF THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY DAMAGES CAUSED BY THE USE OR THE INABILITY TO USE, OF THE FREETYPE PROJECT.

2. Redistribution

This license grants a worldwide, royalty-free, perpetual and irrevocable right and license to use, execute, perform, compile, display, copy, create derivative works of, distribute and sublicense the FreeType Project (in both source and object code forms) and derivative works thereof for any purpose; and to authorize others to exercise some or all of the rights granted herein, subject to the following conditions:

o Redistribution of source code must retain this license file (`FTL.TXT') unaltered; any additions, deletions or changes to the original files must be clearly indicated in accompanying documentation. The copyright notices of the unaltered, original files must be preserved in all copies of source files.

o Redistribution in binary form must provide a disclaimer that states that the software is based in part of the work of the FreeType Team, in the distribution documentation. We also encourage you to put an URL to the FreeType web page in your documentation, though this isn't mandatory.

These conditions apply to any software derived from or based on the FreeType Project, not just the unmodified files. If you use our work, you must acknowledge us. However, no fee need be paid to us.

3. Advertising

Neither the FreeType authors and contributors nor you shall use the name of the other for commercial, advertising, or promotional purposes without specific prior written permission.

We suggest, but do not require, that you use one or more of the following phrases to refer to this software in your documentation or advertising materials: `FreeType Project', `FreeType Engine',

`FreeType library', or `FreeType Distribution'.

As you have not signed this license, you are not required to accept it. However, as the FreeType Project is copyrighted material, only this license, or another one contracted with the authors, grants you the right to use, distribute, and modify it. Therefore, by using, distributing, or modifying the FreeType Project, you indicate that you understand and accept all the terms of this license.

4. Contacts

There are two mailing lists related to FreeType:

o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

http://www.freetype.org

```

### GPL v2

```
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under

these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source

code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent

license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free

Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

```

### Additional Freetype Attributions
```

The below license applies to the following files:

libfreetype/src/psaux/psarrst.c
libfreetype/src/psaux/psarrst.h
libfreetype/src/psaux/psblues.c
libfreetype/src/psaux/psblues.h
libfreetype/src/psaux/pserror.c
libfreetype/src/psaux/pserror.h
libfreetype/src/psaux/psfixed.h
libfreetype/src/psaux/psfont.c
libfreetype/src/psaux/psfont.h
libfreetype/src/psaux/psft.c
libfreetype/src/psaux/psft.h
libfreetype/src/psaux/psglue.h
libfreetype/src/psaux/pshints.c
libfreetype/src/psaux/pshints.h
libfreetype/src/psaux/psintrp.c
libfreetype/src/psaux/psintrp.h
libfreetype/src/psaux/psread.c
libfreetype/src/psaux/psread.h
libfreetype/src/psaux/psstack.c
libfreetype/src/psaux/psstack.h
libfreetype/src/psaux/pstypes.h

Copyright 2006-2014 Adobe Systems Incorporated.

This software, and all works of authorship, whether in source or
object code form as indicated by the copyright notice(s) included
herein (collectively, the "Work") is made available, and may only be
used, modified, and distributed under the FreeType Project License,
LICENSE.TXT. Additionally, subject to the terms and conditions of the
FreeType Project License, each contributor to the Work hereby grants
to any individual or legal entity exercising permissions granted by
the FreeType Project License and this section (hereafter, "You" or
"Your") a perpetual, worldwide, non-exclusive, no-charge,
royalty-free, irrevocable (except as stated in this section) patent
license to make, have made, use, offer to sell, sell, import, and
otherwise transfer the Work, where such license applies only to those
patent claims licensable by such contributor that are necessarily
infringed by their contribution(s) alone or by combination of their
contribution(s) with the Work to which such contribution(s) was
submitted. If You institute patent litigation against any entity
(including a cross-claim or counterclaim in a lawsuit) alleging that
the Work or a contribution incorporated within the Work constitutes
direct or contributory patent infringement, then any patent licenses
granted to You under this License for that Work shall terminate as of
the date such litigation is filed.

By using, modifying, or distributing the Work you indicate that you
have read and understood the terms and conditions of the

FreeType Project License as well as those provided in this section,
and you accept them fully.

```

### MIT License
```

The below license applies to the following files:
libfreetype/include/freetype/internal/fthash.h
libfreetype/src/base/fthash.c

Copyright 2000 Computing Research Labs, New Mexico State University
Copyright 2001-2015

 Francesco Zappa Nardelli

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE COMPUTING RESEARCH LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT
OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR
THE USE OR OTHER DEALINGS IN THE SOFTWARE.

```
## Harfbuzz v4.4.1

### Harfbuzz License

https://github.com/harfbuzz/harfbuzz/blob/4.4.1/COPYING

<pre>

HarfBuzz is licensed under the so-called "Old MIT" license.  Details follow.
```

For parts of HarfBuzz that are licensed under different licenses see individual
files names COPYING in subdirectories where applicable.

Copyright 2010-2022 Google, Inc.
Copyright 2018-2020 Ebrahim Byagowi
Copyright 2019-2020 Facebook, Inc.
Copyright 2012-2015 Mozilla Foundation.
Copyright 2011 Codethink Limited
Copyright 2008-2010 Nokia Corporation and/or its subsidiary(-ies)
Copyright 2009 Keith Stribley
Copyright 2009 Martin Hosken and SIL International
Copyright 2007 Chris Wilson
Copyright 2005-2022 Behdad Esfahbod
Copyright 2005 David Turner
Copyright 2004-2013 Red Hat, Inc.
Copyright 1998-2004 David Turner and Werner Lemberg
Copyright 2016 Elie Roux <elie.roux@telecom-bretagne.eu>
Copyright 2018-2019 Adobe Inc.
Copyright 2018 Khaled Hosny
Copyright 2016 Igalia S.L.

For full copyright notices consult the individual files in the package.

Permission is hereby granted, without written agreement and without
license or royalty fees, to use, copy, modify, and distribute this
software and its documentation for any purpose, provided that the
above copyright notice and the following two paragraphs appear in
all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR
DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN
IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING,
BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS
ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO
PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

All source code, except for one section, is licensed as above. The one
exception is licensed with a slightly different MIT variant:
The contents of this directory are licensed under the following terms:

The below license applies to the following files:

libharfbuzz/hb-ucd.cc

Copyright (C) 2012 Grigori Goronzy <greg@kinoho.net>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

</pre>
Double-conversion v1.1.5

Double-conversion License

https://raw.githubusercontent.com/google/double-conversion/master/LICENSE

<pre>

Copyright 2006-2011, the V8 project authors. All rights reserved.
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
 copyright notice, this list of conditions and the following
 disclaimer in the documentation and/or other materials provided
 with the distribution.
* Neither the name of Google Inc. nor the names of its
 contributors may be used to endorse or promote products derived
 from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
jQuery v3.6.0

jQuery License
```
jQuery v 3.6.0
Copyright OpenJS Foundation and other contributors, https://openjsf.org/

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

*****************************************

The jQuery JavaScript Library v3.6.0 also includes Sizzle.js

Sizzle.js includes the following license:

Copyright JS Foundation and other contributors, https://js.foundation/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/sizzle

The following license applies to all parts of this software except as
documented below:

====
```

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.

****

```

All images in this directory are copyright 1995 by Jeff Dinkins.
Unauthorized reproduction is prohibited.

For more information about Jeff's photographs, please see:
    http://www.theFixx.org/Jeff
## Thai Dictionary

### Thai Dictionary License
<pre>

Copyright (C) 1982 The Royal Institute, Thai Royal Government.

Copyright (C) 1998 National Electronics and Computer Technology Center,
National Science and Technology Development Agency,
Ministry of Science Technology and Environment,
Thai Royal Government.

Permission is hereby granted, free of charge, to any person obtaining a copy
```

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
Eastman Kodak Company: Portions of color management and imaging software

Eastman Kodak Notice
<pre>
Portions Copyright Eastman Kodak Company 1991-2003
</pre>
Apache Santuario v2.3.0

Apache Santuario Notice
<pre>

Apache Santuario - XML Security for Java
Copyright 1999-2021 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

It was originally based on software copyright (c) 2001, Institute for
Data Communications Systems, <http://www.nue.et-inf.uni-siegen.de/>.

The development of this software was partly funded by the European
Commission in the <WebSig> project in the ISIS Programme.

</pre>

Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally

submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or

implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>

ADDITIONAL INFORMATION ABOUT LICENSING

Certain files distributed by Oracle America, Inc. and/or its affiliates are
subject to the following clarification and special exception to the GPLv2,
based on the GNU Project exception for its Classpath libraries, known as the
GNU Classpath Exception.

Note that Oracle includes multiple, independent programs in this software
package. Some of those programs are provided under licenses deemed
incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache
License, Version 2.0 and may include FreeType. Such programs are licensed
to you under their original licenses.

Oracle facilitates your further distribution of this package by adding the
Classpath Exception to the necessary parts of its GPLv2 code, which permits
you to use that code in combination with other independent modules not
licensed under the GPLv2. However, note that this would not permit you to
commingle code under an incompatible license with Oracle's GPLv2 licensed
code by, for example, cutting and pasting such code into a file also
containing Oracle's GPLv2 licensed code and then distributing the result.

Additionally, if you were to remove the Classpath Exception from any of the
files to which it applies and distribute the result, you would likely be
required to license some or all of the other code in that distribution under
the GPLv2 as well, and since the GPLv2 is incompatible with the license terms
of some items included in the distribution by Oracle, removing the Classpath
Exception could therefore effectively compromise your ability to further
distribute the package.

Failing to distribute notices associated with some files may also create
unexpected legal consequences.

Proceed with caution and we recommend that you obtain the advice of a lawyer
skilled in open source matters before removing the Classpath Exception or
making modifications to this package which may subsequently be redistributed
and/or involve the use of third party software.

DOM Level 3 Core Specification v1.0

W3C Software Notice
<pre>
Copyright 2004 World Wide Web Consortium, (Massachusetts Institute of Technology,
European Research Consortium for Informatics and Mathematics, Keio University).
All Rights Reserved.

The DOM bindings are published under the W3C Software Copyright Notice and License.
The software license requires "Notice of any changes or modifications to the W3C
files, including the date changes were made." Consequently, modified versions of
the DOM bindings must document that they do not conform to the W3C standard; in the
case of the IDL definitions, the pragma prefix can no longer be 'w3c.org'; in the
case of the Java language binding, the package names can no longer be in the
'org.w3c' package.
</pre>

W3C License
<pre>

W3C SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other
related items) is being provided by the copyright holders under the following
license. By obtaining, using and/or copying this work, you (the licensee)
agree that you have read, understood, and will comply with the following terms
and conditions.

Permission to copy, modify, and distribute this software and its
documentation, with or without modification, for any purpose and without fee
or royalty is hereby granted, provided that you include the following on ALL
copies of the software and documentation or portions thereof, including
modifications:

1.The full text of this NOTICE in a location viewable to users of the
redistributed or derivative work.

2.Any pre-existing intellectual property disclaimers, notices, or terms and
conditions. If none exist, the W3C Software Short Notice should be included
(hypertext is preferred, text is permitted) within the body of any
redistributed or derivative code.

3.Notice of any changes or modifications to the files, including the date
changes were made. (We recommend you provide URIs to the location from
which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS
MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT

LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS,COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION. The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

</pre>
OASIS PKCS #11 Cryptographic Token Interface v3.0

OASIS PKCS #11 Cryptographic Token Interface License
<pre>

Copyright OASIS Open 2020. All Rights Reserved.

All capitalized terms in the following text have the meanings assigned to them in the OASIS Intellectual Property Rights Policy (the "OASIS IPR Policy"). The full Policy may be found at the OASIS website: [http://www.oasis-open.org/policies-guidelines/ipr]

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to OASIS, except as needed for the purpose of developing any document or deliverable produced by an OASIS Technical

Committee (in which case the rules applicable to copyrights, as set forth in the OASIS IPR Policy, must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by OASIS or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and OASIS DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. OASIS AND ITS MEMBERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THIS DOCUMENT OR ANY PART THEREOF.

[OASIS requests that any OASIS Party or any other party that believes it has patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable, to notify OASIS TC Administrator and provide an indication of its willingness to grant patent licenses to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this deliverable.]

[OASIS invites any party to contact the OASIS TC Administrator if it is aware of a claim of ownership of any patent claims that would necessarily be infringed by implementations of this OASIS Standards Final Deliverable by a patent holder that is not willing to provide a license to such patent claims in a manner consistent with the IPR Mode of the OASIS Technical Committee that produced this OASIS Standards Final Deliverable. OASIS may include such claims on its website, but disclaims any obligation to do so.]

[OASIS takes no position regarding the validity or scope of any intellectual property or other rights that might be claimed to pertain to the implementation or use of the technology described in this OASIS Standards Final Deliverable or the extent to which any license under such rights might or might not be available; neither does it represent that it has made any effort to identify any such rights. Information on OASIS' procedures with respect to rights in any document or deliverable produced by an OASIS Technical Committee can be found on the OASIS website. Copies of claims of rights made available for publication and any assurances of licenses to be made available, or the result of an attempt made to obtain a general license or permission for the use of such proprietary rights by implementers or users of this OASIS Standards Final Deliverable, can be obtained from the OASIS TC Administrator. OASIS makes no representation that any information or list of intellectual property rights will at any time be complete, or that any

claims in such list are, in fact, Essential Claims.]

</pre>
International Components for Unicode (ICU4J) v60.2

ICU4J License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright  1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
```

of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
## Apache Xalan v2.7.2

### Apache Xalan Notice
<pre>

==========================================================================================
  == NOTICE file corresponding to the section 4d of the Apache License, Version 2.0, ==
  == in this case for the Apache Xalan distribution.                                  ==
==========================================================================================

 This product includes software developed by
 The Apache Software Foundation (http://www.apache.org/).

 Specifically, we only include the XSLTC portion of the source from the Xalan distribution.
 The Xalan project has two processors: an interpretive one (Xalan Interpretive) and a
 compiled one (The XSLT Compiler (XSLTC)). We *only* use the XSLTC part of Xalan; We use
 the source from the packages that are part of the XSLTC sources.

 Portions of this software was originally based on the following:

  - software copyright (c) 1999-2002, Lotus Development Corporation., http://www.lotus.com.
  - software copyright (c) 2001-2002, Sun Microsystems., http://www.sun.com.
  - software copyright (c) 2003, IBM Corporation., http://www.ibm.com.
  - voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the
    Apache Software Foundation and was originally developed at Hewlett Packard Company.
```

</pre>

Apache 2.0 License
<pre>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications

represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without

modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade

names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier

identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

JLEX COPYRIGHT NOTICE, LICENSE AND DISCLAIMER.
Copyright 1996-2003 by Elliot Joel Berk and C. Scott Ananian
Permission to use, copy, modify, and distribute this software and
its documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies and that
both the copyright notice and this permission notice and warranty
disclaimer appear in supporting documentation, and that the name of
the authors or their employers not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.
The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.The portions of
JLex output which are hard-coded into the JLex source code are (naturally)
covered by this same license.

</pre>

OPENJDK ASSEMBLY EXCEPTION

The OpenJDK source code made available by Oracle America, Inc. (Oracle) at
openjdk.java.net ("OpenJDK Code") is distributed under the terms of the GNU
General Public License <http://www.gnu.org/copyleft/gpl.html> version 2
only ("GPL2"), with the following clarification and special exception.

Linking this OpenJDK Code statically or dynamically with other code
is making a combined work based on this library. Thus, the terms

and conditions of GPL2 cover the whole combination.

As a special exception, Oracle gives you permission to link this
OpenJDK Code with certain code licensed by Oracle as indicated at
http://openjdk.java.net/legal/exception-modules-2007-05-08.html
("Designated Exception Modules") to produce an executable,
regardless of the license terms of the Designated Exception Modules,
and to copy and distribute the resulting executable under GPL2,
provided that the Designated Exception Modules continue to be
governed by the licenses under which they were offered by Oracle.

As such, it allows licensees and sublicensees of Oracle's GPL2 OpenJDK Code
to build an executable that includes those portions of necessary code that
Oracle could not provide under GPL2 (or that Oracle has provided under GPL2
with the Classpath exception). If you modify or add to the OpenJDK code,
that new GPL2 code may still be combined with Designated Exception Modules
if the new code is made subject to this exception by its copyright holder.
jopt-simple v5.0.4

MIT License
<pre>

Copyright (c) 2004-2015 Paul R. Holser, Jr.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
Cryptix AES v3.2.0

Cryptix General License
<pre>

Cryptix General License

Copyright (c) 1995-2005 The Cryptix Foundation Limited.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE CRYPTIX FOUNDATION LIMITED AND CONTRIBUTORS ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE CRYPTIX FOUNDATION LIMITED OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Independent JPEG Group: JPEG release 6b

JPEG License
<pre>

Must reproduce following license in documentation and/or other materials provided with distribution:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-1998, Thomas G. Lane.
All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute
this software (or portions thereof) for any purpose, without fee,
subject to these conditions:

(1) If any part of the source code for this software is distributed,
then this README file must be included, with this copyright and no-warranty
notice unaltered; and any additions, deletions, or changes to the original
files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation
must state that "this software is based in part on the work of the
Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts
full responsibility for any undesirable consequences; the authors accept
NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code,
not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name
in advertising or publicity relating to this software or products derived
from it. This software may be referred to only as "the Independent JPEG
Group's software".

We specifically permit and encourage the use of this software as the basis
of commercial products, provided that all warranty or liability claims are
assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch,
sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA.
ansi2knr.c is NOT covered by the above copyright and conditions, but instead
by the usual distribution terms of the Free Software Foundation; principally,
that you must include source code if you redistribute it.
(See the file ansi2knr.c for full details.) However, since ansi2knr.c is
not needed as part of any program generated from the IJG code, this does not
limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltconfig, ltmain.sh). Another support script, install-sh, is copyright
by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered
by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding

cannot legally be used without obtaining one or more licenses. For this
reason, support for arithmetic coding has been removed from the free
JPEG software. (Since arithmetic coding provides only a marginal gain
over the unpatented Huffman mode, it is unlikely that very many
implementations will support it.) So far as we are aware, there are
no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.
To avoid entanglement with the Unisys LZW patent, GIF reading support
has been removed altogether, and the GIF writer has been simplified to
produce "uncompressed GIFs". This technique does not use the LZW algorithm;
the resulting GIF files are larger than usual, but are readable by all
standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is
the Copyright property of CompuServe Incorporated. GIF(sm) is a
Service Mark property of CompuServe Incorporated."

</pre>
JRuby Joni v2.1.16

MIT License
<pre>

Copyright (c) 2017 JRuby Team

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

</pre>
GIFLIB v5.2.1

GIFLIB License

```

The GIFLIB distribution is Copyright (c) 1997  Eric S. Raymond

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.


https://sourceforge.net/p/giflib/code/ci/master/tree/openbsd-reallocarray.c

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>
SPDX-License-Identifier: MIT
## libpng v1.6.37

### libpng License
<pre>

COPYRIGHT NOTICE, DISCLAIMER, and LICENSE
==========================================

PNG Reference Library License version 2
---------------------------------------

* Copyright (c) 1995-2019 The PNG Reference Library Authors.
* Copyright (c) 2018-2019 Cosmin Truta.
* Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson.
* Copyright (c) 1996-1997 Andreas Dilger.
* Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

The software is supplied "as is", without warranty of any kind,
express or implied, including, without limitation, the warranties
of merchantability, fitness for a particular purpose, title, and
non-infringement.  In no event shall the Copyright owners, or
```

anyone distributing the software, be liable for any damages or
other liability, whether in contract, tort or otherwise, arising
from, out of, or in connection with the software, or the use or
other dealings in the software, even if advised of the possibility
of such damage.

Permission is hereby granted to use, copy, modify, and distribute
this software, or portions hereof, for any purpose, without fee,
subject to the following restrictions:

1. The origin of this software must not be misrepresented; you
   must not claim that you wrote the original software. If you
   use this software in a product, an acknowledgment in the product
   documentation would be appreciated, but is not required.

2. Altered source versions must be plainly marked as such, and must
   not be misrepresented as being the original software.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

PNG Reference Library License version 1 (for libpng 0.5 through 1.6.35)
---

libpng versions 1.0.7, July 1, 2000, through 1.6.35, July 15, 2018 are
Copyright (c) 2000-2002, 2004, 2006-2018 Glenn Randers-Pehrson, are
derived from libpng-1.0.6, and are distributed according to the same
disclaimer and license as libpng-1.0.6 with the following individuals
added to the list of Contributing Authors:

   Simon-Pierre Cadieux
   Eric S. Raymond
   Mans Rullgard
   Cosmin Truta
   Gilles Vollant
   James Yu
   Mandar Sahastrabuddhe
   Google Inc.
   Vadim Barkov

and with the following additions to the disclaimer:

   There is no warranty against interference with your enjoyment of
   the library or against infringement. There is no warranty that our
   efforts or the library will fulfill any of your particular purposes
   or needs. This library is provided with all faults, and the entire
   risk of satisfactory quality, performance, accuracy, and effort is

with the user.

Some files in the "contrib" directory and some configure-generated files that are distributed with libpng have other copyright owners, and are released under other open source licenses.

libpng versions 0.97, January 1998, through 1.0.6, March 20, 2000, are Copyright (c) 1998-2000 Glenn Randers-Pehrson, are derived from libpng-0.96, and are distributed according to the same disclaimer and license as libpng-0.96, with the following individuals added to the list of Contributing Authors:

Tom Lane
Glenn Randers-Pehrson
Willem van Schaik

libpng versions 0.89, June 1996, through 0.96, May 1997, are Copyright (c) 1996-1997 Andreas Dilger, are derived from libpng-0.88, and are distributed according to the same disclaimer and license as libpng-0.88, with the following individuals added to the list of Contributing Authors:

John Bowler
Kevin Bracey
Sam Bushell
Magnus Holmgren
Greg Roelofs
Tom Tanner

Some files in the "scripts" directory have other copyright owners, but are released under this license.

libpng versions 0.5, May 1995, through 0.88, January 1996, are Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.

For the purposes of this copyright and license, "Contributing Authors" is defined as the following set of individuals:

Andreas Dilger
Dave Martindale
Guy Eric Schalnat
Paul Schmidt
Tim Wegner

The PNG Reference Library is supplied "AS IS". The Contributing Authors and Group 42, Inc. disclaim all warranties, expressed or implied, including, without limitation, the warranties of merchantability and of fitness for any purpose. The Contributing

Authors and Group 42, Inc. assume no liability for direct, indirect,
incidental, special, exemplary, or consequential damages, which may
result from the use of the PNG Reference Library, even if advised of
the possibility of such damage.

Permission is hereby granted to use, copy, modify, and distribute this
source code, or portions hereof, for any purpose, without fee, subject
to the following restrictions:

1. The origin of this source code must not be misrepresented.

2. Altered versions must be plainly marked as such and must not
   be misrepresented as being the original source.

3. This Copyright notice may not be removed or altered from any
   source or altered source distribution.

The Contributing Authors and Group 42, Inc. specifically permit,
without fee, and encourage the use of this source code as a component
to supporting the PNG file format in commercial products. If you use
this source code in a product, acknowledgment is not required but would
be appreciated.

</pre>
CUP Parser Generator for Java v 0.11b

CUP Parser Generator License

```
Copyright 1996-2015 by Scott Hudson, Frank Flannery, C. Scott Ananian, Michael Petter

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both
the copyright notice and this permission notice and warranty disclaimer
appear in supporting documentation, and that the names of the authors or
their employers not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

The authors and their employers disclaim all warranties with regard to
this software, including all implied warranties of merchantability and
fitness. In no event shall the authors or their employers be liable for
any special, indirect or consequential damages or any damages whatsoever
resulting from loss of use, data or profits, whether in an action of
contract, negligence or other tortious action, arising out of or in
connection with the use or performance of this software.
```

```
This is an open source license. It is also GPL-Compatible (see entry for
"Standard ML of New Jersey"). The portions of CUP output which are hard-coded
into the CUP source code are (naturally) covered by this same license, as is
the CUP runtime code linked with the generated parser.
```

Apache Commons Byte Code Engineering Library (BCEL) Version 6.5.0

Apache Commons BCEL Notice

<pre>

  Apache Commons BCEL
  Copyright 2004-2020 The Apache Software Foundation

  This product includes software developed at
  The Apache Software Foundation (https://www.apache.org/).

</pre>

Apache 2.0 License

<pre>

                    Apache License
                Version 2.0, January 2004
            http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

  "License" shall mean the terms and conditions for use, reproduction,
  and distribution as defined by Sections 1 through 9 of this document.

  "Licensor" shall mean the copyright owner or entity authorized by
  the copyright owner that is granting the License.

  "Legal Entity" shall mean the union of the acting entity and all
  other entities that control, are controlled by, or are under common
  control with that entity. For the purposes of this definition,
  "control" means (i) the power, direct or indirect, to cause the
  direction or management of such entity, whether by contract or
  otherwise, or (ii) ownership of fifty percent (50%) or more of the
  outstanding shares, or (iii) beneficial ownership of such entity.

  "You" (or "Your") shall mean an individual or Legal Entity
  exercising permissions granted by this License.

  "Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

</pre>
The GNU General Public License (GPL)

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license
document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share
and change it. By contrast, the GNU General Public License is intended to
guarantee your freedom to share and change free software--to make sure the

software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any

derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and

its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source

code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to

distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE

PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

> Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.
>
> signature of Ty Coon, 1 April 1989
>
> Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL

Certain source files distributed by Oracle America and/or its affiliates are subject to the following clarification and special exception to the GPL, but only where Oracle has expressly included in the particular source file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code."

> Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.
>
> As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Dynalink v.5

Dynalink License

<pre>

Copyright (c) 2009-2013, Attila Szegedi

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:
* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the copyright holder nor the names of
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL COPYRIGHT HOLDER
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR
BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,
WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR
OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF
ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

</pre>
Unicode Common Local Data Repository (CLDR) v33

CLDR License

```

UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
```

http://www.unicode.org/cldr/data/,
http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2018 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software
without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

```
```

jQuery UI v1.12.1

jQuery UI License
```
Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many
individuals. For exact contribution history, see the revision history
available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as
documented below:

====

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

====

Copyright and related rights for sample code are waived via CC0. Sample
code is defined as all source code contained within the demos directory.

CC0: http://creativecommons.org/publicdomain/zero/1.0/

====

All files located in the node_modules and external directories are
externally maintained libraries used by this software which have their
own licenses; we recommend you read them, as their terms may differ from
the terms above.
```

```
The copyrights in this software and any visual or audio work distributed with
the software belong to Azul Systems, Inc. and those included in all other notice
files either listed in the readme file or contained in any other included notice
files with this distribution. All rights are reserved. Installation of this
software and any Azul software bundled with or derived from this software is
licensed only in accordance with these terms.

Provided you have not received the software directly from Azul and have already
agreed to the terms of a separate license agreement, by installing, using or
distributing this software you, on your own behalf and on behalf of your
employer or principal, agree to be bound by these terms. If you do not agree to
any of these terms, you may not use, copy, transmit, distribute nor install this
software.

The software is developed and owned by Azul and/or any of its affiliates,
subsidiaries or respective suppliers and licensors. The software also includes
certain software components and materials ("Open Source Materials") of third
parties ("Third Party Licensors") licensed under certain licenses ("Open Source
Licenses").

Nothing in this Agreement limits your rights under, or grants you rights that
supersede the terms and conditions of any applicable Open Source Licenses.
You must review the Open Source Licenses located at
http://www.azulsystems.com/license/zulu_third_party_licenses.html
to understand your rights under them. In the event that no such third party
license agreements exist, the restrictions contained in this Agreement shall
apply.

With respect to the Open Source Licenses the following shall apply:

 1) You hereby acknowledge and agree that you will be licensing any Open Source
 Materials directly from the applicable Third Party Licensors including the
 right to use such Third Party Materials in connection with the software

 2) In the event of any inconsistencies or conflicting provisions of the Open
 Source Licenses and the provisions of this Agreement, the provisions of the
 Open Source Licenses shall prevail.

THIS SOFTWARE IS PROVIDED BY AZUL "AS-IS" AND WITHOUT EXPRESS OR IMPLIED
WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL AZUL
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY OR
CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE
GOODS OR SERVICE, LOSS OF USE, DATA OR PROFITS; OR BUSINESS INTERRUPTION,
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY WHETHER IN CONTRACT, STRICT
LIABILITY OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF
THE USE OF THIS SOFTWARE EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

Mozilla Public Suffix List

Public Suffix Notice
```
You are receiving a copy of the Mozilla Public Suffix List in the following
file: <java-home>/lib/security/public_suffix_list.dat. The terms of the
Oracle license do NOT apply to this file; it is licensed under the
Mozilla Public License 2.0, separately from the Oracle programs you receive.
If you do not wish to use the Public Suffix List, you may remove the
<java-home>/lib/security/public_suffix_list.dat file.

The Source Code of this file is available under the
Mozilla Public License, v. 2.0 and is located at
https://raw.githubusercontent.com/publicsuffix/list/3c213aab32b3c014f171b1673d4ce9b5cd72bf1c/public_suffix_list.dat.
If a copy of the MPL was not distributed with this file, you can obtain one
at https://mozilla.org/MPL/2.0/.

Software distributed under the License is distributed on an "AS IS" basis,
WITHOUT WARRANTY OF ANY KIND, either express or implied. See the License
for the specific language governing rights and limitations under the License.
```

MPL v2.0
```
Mozilla Public License Version 2.0
==================================

1. Definitions
--------------

1.1. "Contributor"
  means each individual or legal entity that creates, contributes to
  the creation of, or owns Covered Software.

1.2. "Contributor Version"
  means the combination of the Contributions of others (if any) used
  by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
  means Covered Software of a particular Contributor.

1.4. "Covered Software"
  means Source Code Form to which the initial Contributor has attached
  the notice in Exhibit A, the Executable Form of such Source Code
  Form, and Modifications of such Source Code Form, in each case
  including portions thereof.
```

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code

Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional

disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
```

```
*  -------------------------                                  *
*                                                              *
*  Covered Software is provided under this License on an "as is"      *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the      *
*  Covered Software is free of defects, merchantable, fit for a       *
*  particular purpose or non-infringing. The entire risk as to the    *
*  quality and performance of the Covered Software is with You.       *
*  Should any Covered Software prove defective in any respect, You    *
*  (not any Contributor) assume the cost of any necessary servicing,  *
*  repair, or correction. This disclaimer of warranty constitutes an  *
*  essential part of this License. No use of any Covered Software is  *
*  authorized under this License except under this disclaimer.        *
*                                                              *
****************************************************************************

****************************************************************************
*                                                              *
*  7. Limitation of Liability                                  *
*  --------------------------                                  *
*                                                              *
*  Under no circumstances and under no legal theory, whether tort     *
*  (including negligence), contract, or otherwise, shall any          *
*  Contributor, or anyone who distributes Covered Software as         *
*  permitted above, be liable to You for any direct, indirect,        *
*  special, incidental, or consequential damages of any character     *
*  including, without limitation, damages for lost profits, loss of   *
*  goodwill, work stoppage, computer failure or malfunction, or any   *
*  and all other commercial damages or losses, even if such party     *
*  shall have been informed of the possibility of such damages. This  *
*  limitation of liability shall not apply to liability for death or  *
*  personal injury resulting from such party's negligence to the      *
*  extent applicable law prohibits such limitation. Some              *
*  jurisdictions do not allow the exclusion or limitation of          *
*  incidental or consequential damages, so this exclusion and         *
*  limitation may not apply to You.                                   *
*                                                              *
****************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this

file, You can obtain one at https://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular
file, then You may include the notice in a location (such as a LICENSE
file in a relevant directory) where a recipient would be likely to look
for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.

```
## Mesa 3-D Graphics Library v21.0.3

### Mesa License

```
Copyright (C) 1999-2007 Brian Paul   All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Attention, Contributors

When contributing to the Mesa project you must agree to the licensing terms
of the component to which you're contributing.
The following section lists the primary components of the Mesa distribution
and their respective licenses.
Mesa Component Licenses

Component	Location	License
Main Mesa code	src/mesa/	MIT
Device drivers	src/mesa/drivers/*	MIT, generally
Gallium code	src/gallium/	MIT
Ext headers	GL/glext.h	Khronos
	GL/glxext.h	Khronos
	GL/wglext.h	Khronos
	KHR/khrplatform.h	Khronos

****

---
include/GL/gl.h :

Mesa 3-D graphics library

Copyright (C) 1999-2006 Brian Paul All Rights Reserved.
Copyright (C) 2009 VMware, Inc. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

****

---
include/GL/glext.h

include/GL/glxext.h
include/GL/wglxext.h :

Copyright (c) 2013 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

---
include/KHR/khrplatform.h :

Copyright (c) 2008 - 2018 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and/or associated documentation files (the
"Materials"), to deal in the Materials without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Materials, and to
permit persons to whom the Materials are furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,

TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

****

```
## Little Color Management System (LCMS) v2.12

### LCMS License
<pre>

Little Color Management System
Copyright (c) 1998-2020 Marti Maria Saguer

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the Software
is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO
THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

</pre>
## ASM Bytecode Manipulation Framework v6.0

### ASM License
<pre>

Copyright (c) 2000-2011 France Tlcom
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
```

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. Neither the name of the copyright holders nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE
LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

</pre>

1.747 pciutils 3.4.1

1.747.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

1.748 tcl 8.5.0

1.748.1 Available under license :

The author disclaims copyright to this source code. In place of
a legal notice, here is a blessing:

May you do good and not evil.
May you find forgiveness for yourself and forgive others.
May you share freely, never taking more than you give.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,

license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by Kevin B. Kenny, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> [incr Tcl] <<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<

AUTHOR: Michael J. McLennan
Bell Labs Innovations for Lucent Technologies
mmclennan@lucent.com
http://www.tcltk.com/itcl

==========

Copyright (c) 1993-1996 Lucent Technologies

==========

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and warranty disclaimer appear in supporting documentation, and that the names of Lucent Technologies any of their entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Lucent Technologies disclaims all warranties with regard to this software, including all implied warranties of merchantability and fitness. In no event shall Lucent be liable for any special, indirect or consequential damages or any damages whatsoever resulting from loss of use, data or profits, whether in an action of contract, negligence or other tortuous action, arising out of or in connection with the use or performance of this software.

==========

This software is copyrighted by Slawomir Cygan, and by other parties.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Regents of the University of
California, Sun Microsystems, Inc., Scriptics Corporation,
and other parties. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.
This software is copyrighted by the Scriptics Corporation, and other
parties. The following terms apply to all files associated with the
software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a mostly rewritten version of [incr Tcl], which is copyrighted by Arnulf P. Wiedemann (c) Copyright 2008. It is derived from a version written by Lucent Technologies, Inc., and other parties see that copyright below.

The rewritten version is copyrighted with BSD license or Public Domain at

your choice.

The original version of this software is copyrighted by Lucent Technologies, Inc., and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the U.S. government, the Government shall have only "Restricted Rights" in the software and related documentation as defined in the Federal Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you are acquiring the software on behalf of the Department of Defense, the software shall be classified as "Commercial Computer Software" and the Government shall have only "Restricted Rights" as defined in Clause 252.227-7013 (c) (1) of DFARs. Notwithstanding the foregoing, the authors grant the U.S. Government and others acting in its behalf permission to use and distribute the software in accordance with the terms specified in this license.
This software is copyrighted by the Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, ActiveState Corporation and other parties. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided

that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.

GOVERNMENT USE: If you are acquiring this software on behalf of the
U.S. government, the Government shall have only "Restricted Rights"
in the software and related documentation as defined in the Federal
Acquisition Regulations (FARs) in Clause 52.227.19 (c) (2). If you
are acquiring the software on behalf of the Department of Defense, the
software shall be classified as "Commercial Computer Software" and the
Government shall have only "Restricted Rights" as defined in Clause
252.227-7014 (b) (3) of DFARs. Notwithstanding the foregoing, the
authors grant the U.S. Government and others acting in its behalf
permission to use and distribute the software in accordance with the
terms specified in this license.

1.749 gnutls 3.6.14

1.749.1 Available under license :

The "inih" library is distributed under the New BSD license:

Copyright (c) 2009, Ben Hoyt
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:
* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
* Neither the name of Ben Hoyt nor the names of its contributors
may be used to endorse or promote products derived from this software
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY BEN HOYT "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL BEN HOYT BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do

these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library

subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public

License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of
this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from
a header file that is part of the Library. You may convey such object
code under terms of your choice, provided that, if the incorporated
material is not limited to numerical parameters, data structure
layouts and accessors, or small macros, inline functions and templates
(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the
Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license
document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that,
taken together, effectively do not restrict modification of the
portions of the Library contained in the Combined Work and reverse
engineering for debugging such modifications, if you also do each of
the following:

a) Give prominent notice with each copy of the Combined Work that
the Library is used in it and that the Library and its use are
covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license
document.

c) For a Combined Work that displays copyright notices during
execution, include the copyright notice for the Library among
these notices, as well as a reference directing the user to the
copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this
License, and the Corresponding Application Code in a form
suitable for, and under terms that permit, the user to
recombine or relink the Application with a modified version of
the Linked Version to produce a modified Combined Work, in the
manner specified by section 6 of the GNU GPL for conveying

Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and

conditions either of that published version or of any later version
published by the Free Software Foundation. If the Library as you
received it does not specify a version number of the GNU Lesser
General Public License, you may choose any version of the GNU Lesser
General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide
whether future versions of the GNU Lesser General Public License shall
apply, that proxy's public statement of acceptance of any version is
permanent authorization for you to choose that version for the
Library.

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

3. The name of the author may not be used to endorse or promote
   products derived from this software without specific prior
   written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.
==========
Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
project. The module is, however, dual licensed under OpenSSL and
CRYPTOGAMS licenses depending on where you obtain it. For further
details see https://www.openssl.org/~appro/cryptogams/.
==========

Copyright (c) 2006-2012, CRYPTOGAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

* Redistributions of source code must retain copyright notices,
this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following
disclaimer in the documentation and/or other materials
provided with the distribution.

* Neither the name of the CRYPTOGAMS nor the names of its
copyright holder and contributors may be used to endorse or
promote products derived from this software without specific
prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this
product may be distributed under the terms of the GNU General Public
License (GPL), in which case the provisions of the GPL apply INSTEAD OF
those given above.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
#########################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
## Public domain.
##
## For details see https://shiftleft.org/papers/vector_aes/ and
## https://crypto.stanford.edu/vpaes/.
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for

unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further

restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's

public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.
LICENSING
=========

Since GnuTLS version 3.1.10, the core library is released under
the GNU Lesser General Public License (LGPL) version 2.1 or later
(see doc/COPYING.LESSER for the license terms).

The GNU LGPL applies to the main GnuTLS library, while the
included applications as well as gnutls-openssl
library are under the GNU GPL version 3. The gnutls library is
located in the lib/ and libdane/ directories, while the applications
in src/ and, the gnutls-openssl library is at extra/.

The documentation in doc/ is under the GNU FDL license 1.3.

Note, however, that the nettle and the gmp libraries which are
GnuTLS dependencies, they are distributed under a LGPLv3+ or GPLv2+ dual
license. As such binaries linking to them need to adhere to either LGPLv3+
or the GPLv2+ license.

For any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.
The MIT License (MIT)

Copyright (c) 2016 Wrymouth Innovation Ltd

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the
Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL
THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights
(defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of
authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
moral rights retained by the original author(s) and/or performer(s);
publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
rights protecting the extraction, dissemination, use and reuse of data in a Work;
database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including

without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.750 numpy 0.1a

1.750.1 Available under license :

The NumPy repository and source distributions bundle several libraries that are
compatibly licensed. We list these here.

Name: lapack-lite
Files: numpy/linalg/lapack_lite/*
License: BSD-3-Clause
For details, see numpy/linalg/lapack_lite/LICENSE.txt

Name: tempita
Files: tools/npy_tempita/*
License: MIT
For details, see tools/npy_tempita/license.txt

Name: dragon4
Files: numpy/core/src/multiarray/dragon4.c
License: MIT
For license text, see numpy/core/src/multiarray/dragon4.c

Name: libdivide
Files: numpy/core/include/numpy/libdivide/*

License: Zlib
For license text, see numpy/core/include/numpy/libdivide/LICENSE.txt
Copyright (c) 2005-2022, NumPy Developers.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the NumPy Developers nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.751 libgpg-error 1.32

1.751.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide

a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for

making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you

may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author

to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is

modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating

system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other

circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.752 mitchellh-go-homedir 1.1.0

1.752.1 Available under license :

The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

1.753 libcap-ng 0.6.6

1.753.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,
not price. Our General Public Licenses are designed to make sure that
you have the freedom to distribute copies of free software (and charge
for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to

encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for

making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
^L
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by

this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license

restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
^L
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues),

conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a

license version number, you may choose any version ever published by the Free Software Foundation.

^L

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should

have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it
does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper
mail.

You should also get your employer (if you work as a programmer) or
your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.754 libidn 2.3.0

1.754.1 Available under license :

Libidn2 COPYING -- Licensing information. -*- outline -*-
Copyright (C) 2011-2016 Simon Josefsson
See the end for copying conditions.

The source code for the C library (libidn2.a or libidn.so) are
licensed under the terms of either the GNU General Public License
version 2.0 or later (see the file COPYINGv2) or the GNU Lesser
General Public License version 3.0 or later (see the file
COPYING.LESSERv3), or both in parallel as here.

The command line tool, self tests, examples, and other auxiliary
files, are licensed under the GNU General Public License version 3.0
or later.

The license of the Unicode character data files (which are parsed into
static storage in the library) are documented in COPYING.unicode.

Other files are licensed as indicated in each file.

There may be exceptions to these general rules, see each file for
precise information.

This file is free software: you can redistribute it and/or modify it
under the terms of the GNU General Public License as published by the
Free Software Foundation, either version 3 of the License, or (at your
option) any later version.

This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
General Public License for more details.

You should have received a copy of the GNU General Public License
along with this file. If not, see <http://www.gnu.org/licenses/>.
A. Unicode Copyright.

Copyright 1991-2016 Unicode, Inc. All rights reserved.
Certain documents and files on this website contain a legend indicating that "Modification is permitted." Any person is hereby authorized, without fee, to modify such documents and files to create derivative works conforming to the Unicode Standard, subject to Terms and Conditions herein.
Any person is hereby authorized, without fee, to view, use, reproduce, and distribute all documents and files solely for informational purposes and in the creation of products supporting the Unicode Standard, subject to the Terms and Conditions herein.
Further specifications of rights and restrictions pertaining to the use of the particular set of data files known as the "Unicode Character Database" can be found in the License.
Each version of the Unicode Standard has further specifications of rights and restrictions of use. For the book

editions (Unicode 5.0 and earlier), these are found on the back of the title page. The online code charts carry specific restrictions. All other files, including online documentation of the core specification for Unicode 6.0 and later, are covered under these general Terms of Use.

No license is granted to "mirror" the Unicode website where a fee is charged for access to the "mirror" site.

Modification is not permitted with respect to this document. All copies of this document must be verbatim.

B. Restricted Rights Legend.

Any technical data or software which is licensed to the United States of America, its agencies and/or instrumentalities under this Agreement is commercial technical data or commercial computer software developed exclusively at private expense as defined in FAR 2.101, or DFARS 252.227-7014 (June 1995), as applicable. For technical data, use, duplication, or disclosure by the Government is subject to restrictions as set forth in DFARS 202.227-7015 Technical Data, Commercial and Items (Nov 1995) and this Agreement. For Software, in accordance with FAR 12-212 or DFARS 227-7202, as applicable, use, duplication or disclosure by the Government is subject to the restrictions set forth in this Agreement.

C. Warranties and Disclaimers.

This publication and/or website may include technical or typographical errors or other inaccuracies . Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication and/or website. Unicode may make improvements and/or changes in the product(s) and/or program(s) described in this publication and/or website at any time.

If this file has been purchased on magnetic or optical media from Unicode, Inc. the sole and exclusive remedy for any claim will be exchange of the defective media within ninety (90) days of original purchase.

EXCEPT AS PROVIDED IN SECTION C.2, THIS PUBLICATION AND/OR SOFTWARE IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND EITHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. UNICODE AND ITS LICENSORS ASSUME NO RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THIS PUBLICATION AND/OR SOFTWARE OR OTHER DOCUMENTS WHICH ARE REFERENCED BY OR LINKED TO THIS PUBLICATION OR THE UNICODE WEBSITE.

D. Waiver of Damages.

In no event shall Unicode or its licensors be liable for any special, incidental, indirect or consequential damages of any kind, or any damages whatsoever, whether or not Unicode was advised of the possibility of the damage, including, without limitation, those resulting from the following: loss of use, data or profits, in connection with the use, modification or distribution of this information or its derivatives.

E. Trademarks & Logos.

The Unicode Word Mark and the Unicode Logo are trademarks of Unicode, Inc. The Unicode Consortium and Unicode, Inc. are trade names of Unicode, Inc. Use of the information and materials found on this website indicates your acknowledgement of Unicode, Inc.s exclusive worldwide rights in the Unicode Word Mark, the Unicode Logo, and the Unicode trade names.

The Unicode Consortium Name and Trademark Usage Policy (Trademark Policy) are incorporated herein by reference and you agree to abide by the provisions of the Trademark Policy, which may be changed from time to time in the sole discretion of Unicode, Inc.

All third party trademarks referenced herein are the property of their respective owners.

F. Miscellaneous.

Jurisdiction and Venue. This server is operated from a location in the State of California, United States of America. Unicode makes no representation that the materials are appropriate for use in other locations. If you access

this server from other locations, you are responsible for compliance with local laws. This Agreement, all use of this site and any claims and damages resulting from use of this site are governed solely by the laws of the State of California without regard to any principles which would apply the laws of a different jurisdiction. The user agrees that any disputes regarding this site shall be resolved solely in the courts located in Santa Clara County, California. The user agrees said courts have personal jurisdiction and agree to waive any right to transfer the dispute to any other forum.

Modification by Unicode Unicode shall have the right to modify this Agreement at any time by posting it to this site. The user may not assign any part of this Agreement without Unicodes prior written consent.

Taxes. The user agrees to pay any taxes arising from access to this website or use of the information herein, except for those based on Unicodes net income.

Severability. If any provision of this Agreement is declared invalid or unenforceable, the remaining provisions of this Agreement shall remain in effect.

Entire Agreement. This Agreement constitutes the entire agreement between the parties.

EXHIBIT 1
Unicode Data Files include all data files under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

Unicode Data Files do not include PDF online code charts under the
directory http://www.unicode.org/Public/.

Software includes any source code published in the Unicode Standard
or under the directories
http://www.unicode.org/Public/, http://www.unicode.org/reports/,
http://www.unicode.org/cldr/data/, http://source.icu-project.org/repos/icu/, and
http://www.unicode.org/utility/trac/browser/.

NOTICE TO USER: Carefully read the following legal agreement.
BY DOWNLOADING, INSTALLING, COPYING OR OTHERWISE USING UNICODE INC.'S
DATA FILES ("DATA FILES"), AND/OR SOFTWARE ("SOFTWARE"),
YOU UNEQUIVOCALLY ACCEPT, AND AGREE TO BE BOUND BY, ALL OF THE
TERMS AND CONDITIONS OF THIS AGREEMENT.
IF YOU DO NOT AGREE, DO NOT DOWNLOAD, INSTALL, COPY, DISTRIBUTE OR USE
THE DATA FILES OR SOFTWARE.

COPYRIGHT AND PERMISSION NOTICE

Copyright 1991-2016 Unicode, Inc. All rights reserved.
Distributed under the Terms of Use in http://www.unicode.org/copyright.html.

Permission is hereby granted, free of charge, to any person obtaining
a copy of the Unicode data files and any associated documentation
(the "Data Files") or Unicode software and any associated documentation
(the "Software") to deal in the Data Files or Software

without restriction, including without limitation the rights to use,
copy, modify, merge, publish, distribute, and/or sell copies of
the Data Files or Software, and to permit persons to whom the Data Files
or Software are furnished to do so, provided that either
(a) this copyright and permission notice appear with all copies
of the Data Files or Software, or
(b) this copyright and permission notice appear in associated
Documentation.

THE DATA FILES AND SOFTWARE ARE PROVIDED "AS IS", WITHOUT WARRANTY OF
ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT OF THIRD PARTY RIGHTS.
IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS
NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL
DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE DATA FILES OR SOFTWARE.

Except as contained in this notice, the name of a copyright holder
shall not be used in advertising or otherwise to promote the sale,
use or other dealings in these Data Files or Software without prior
written authorization of the copyright holder.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it

if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of

this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as

distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any

such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF

MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this

when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates

(ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the

GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

1.755 sed 4.1.5

1.755.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.756 openssl 1.1.1n

1.756.1 Available under license :

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

OpenSSL License

```
/* ====================================================================
* Copyright (c) 1998-2019 The OpenSSL Project.  All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
*
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
```

* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ==
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com). This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/

Original SSLeay License

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
* All rights reserved.
*
* This package is an SSL implementation written
* by Eric Young (eay@cryptsoft.com).
* The implementation was written so as to conform with Netscapes SSL.
*
* This library is free for commercial and non-commercial use as long as
* the following conditions are aheared to. The following conditions
* apply to all code found in this distribution, be it the RC4, RSA,
* lhash, DES, etc., code; not just the SSL code. The SSL documentation
* included with this distribution is covered by the same copyright terms
* except that the holder is Tim Hudson (tjh@cryptsoft.com).
*
* Copyright remains Eric Young's, and as such any Copyright notices in
* the code are not to be removed.
* If this package is used in a product, Eric Young should be given attribution
* as the author of the parts of the library used.
* This can be in the form of a textual message at program startup or
* in documentation (online or textual) provided with the package.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright

```
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. All advertising materials mentioning features or use of this software
*    must display the following acknowledgement:
*    "This product includes cryptographic software written by
*     Eric Young (eay@cryptsoft.com)"
*    The word 'cryptographic' can be left out if the rouines from the library
*    being used are not cryptographic related :-).
* 4. If you include any Windows specific code (or a derivative thereof) from
*    the apps directory (application code) you must include an acknowledgement:
*    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
*
* THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*
* The licence and distribution terms for any publically available version or
* derivative of this code cannot be changed.  i.e. this code cannot simply be
* copied and put under another distribution licence
* [including the GNU Public Licence.]
*/
```

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA
02111-1307, USA.
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under

any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a
Package may be copied, such that the Copyright Holder maintains some
semblance of artistic control over the development of the package,
while giving the users of the package the right to use and distribute
the Package in a more-or-less customary fashion, plus the right to make
reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to

emulate subroutines and variables of the language defined by this
Package shall not be considered part of this Package, but are the
equivalent of input as in Paragraph 6, provided these subroutines do
not change the language in any way that would cause it to fail the
regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always
permitted provided that the use of this Package is embedded; that is,
when no overt attempt is made to make this Package's interfaces visible
to the end user of the commercial distribution. Such use shall not be
construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTIBILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.757 gzip 1.6

1.757.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of

interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you

with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical

medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install

and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered

work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so

available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License

along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.758 modern-go-reflect2 1.0.2

1.758.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common

control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or

documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

1.759 diffutils 3.3

1.759.1 Available under license :

```
/* sdiff-format output routines for GNU DIFF.

   Copyright (C) 1991-1993, 1998, 2001-2002, 2004, 2009-2013 Free Software
   Foundation, Inc.

   This file is part of GNU DIFF.

   GNU DIFF is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY.  No author or distributor
   accepts responsibility to anyone for the consequences of using it
   or for whether it serves any particular purpose or works at all,
   unless he says so in writing.  Refer to the GNU General Public
   License for full details.

   Everyone is granted permission to copy, modify and redistribute
   GNU DIFF, but only under the conditions described in the
   GNU General Public License.   A copy of this license is
   supposed to have been given to you along with GNU DIFF so you
   can know your rights and responsibilities.  It should be in a
   file named COPYING.  Among other things, the copyright notice
   and this notice must be preserved on all copies.  */
#!/bin/sh
# install - install a program, script, or datafile

scriptversion=2011-11-20.07; # UTC

# This originates from X11R5 (mit/util/scripts/install.sh), which was
# later released in X11R6 (xc/config/util/install.sh) with the
# following copyright and license.
#
# Copyright (C) 1994 X Consortium
#
# Permission is hereby granted, free of charge, to any person obtaining a copy
# of this software and associated documentation files (the "Software"), to
# deal in the Software without restriction, including without limitation the
# rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
# sell copies of the Software, and to permit persons to whom the Software is
# furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included in
# all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
# IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  IN NO EVENT SHALL THE
# X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
# AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
```

```
# TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
# Except as contained in this notice, the name of the X Consortium shall not
# be used in advertising or otherwise to promote the sale, use or other deal-
# ings in this Software without prior written authorization from the X Consor-
# tium.
#
#
# FSF changes to this file are in the public domain.
#
# Calling this script install-sh is preferred over install.sh, to prevent
# 'make' implicit rules from creating a file called install from it
# when there is no Makefile.
#
# This script is compatible with the BSD install script, but was written
# from scratch.
#! /bin/sh
# test-driver - basic testsuite driver script.

scriptversion=2012-06-27.10; # UTC

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This program is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 2, or (at your option)
# any later version.
#
# This program is distributed in the hope that it will be useful,
# but WITHOUT ANY WARRANTY; without even the implied warranty of
# MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
# GNU General Public License for more details.
#
# You should have received a copy of the GNU General Public License
# along with this program.  If not, see <http://www.gnu.org/licenses/>.

# As a special exception to the GNU General Public License, if you
# distribute this file as part of a program that contains a
# configuration script generated by Autoconf, you may include it under
# the same distribution terms that you use for the rest of that program.

# This file is maintained in Automake, please report
# bugs to <bug-automake@gnu.org> or send patches to
# <automake-patches@gnu.org>.

# Make unconditional expansion of undefined variables an error.  This
# helps a lot in preventing typo-related bugs.
set -u
```

```
/* File I/O for GNU DIFF.

   Copyright (C) 1988-1989, 1992-1995, 1998, 2001-2002, 2004, 2006, 2009-2013
   Free Software Foundation, Inc.

   This file is part of GNU DIFF.

   This program is free software: you can redistribute it and/or modify
   it under the terms of the GNU General Public License as published by
   the Free Software Foundation, either version 3 of the License, or
   (at your option) any later version.

   This program is distributed in the hope that it will be useful,
   but WITHOUT ANY WARRANTY; without even the implied warranty of
   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
   GNU General Public License for more details.

   You should have received a copy of the GNU General Public License
   along with this program.  If not, see <http://www.gnu.org/licenses/>.  */
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@end display

@enumerate 0
@item
PREAMBLE

The purpose of this License is to make a manual, textbook, or other
functional and useful document @dfn{free} in the sense of freedom: to
assure everyone the effective freedom to copy and redistribute it,
with or without modifying it, either commercially or noncommercially.
Secondarily, this License preserves for the author and publisher a way
to get credit for their work, while not being considered responsible
for modifications made by others.

This License is a kind of ``copyleft'', which means that derivative
works of the document must themselves be free in the same sense.  It
complements the GNU General Public License, which is a copyleft
```

license designed for free software.

We have designed this License in order to use it for manuals for free software, because free software needs free documentation: a free program should come with manuals providing the same freedoms that the software does. But this License is not limited to software manuals; it can be used for any textual work, regardless of subject matter or whether it is published as a printed book. We recommend this License principally for works whose purpose is instruction or reference.

@item
APPLICABILITY AND DEFINITIONS

This License applies to any manual or other work, in any medium, that contains a notice placed by the copyright holder saying it can be distributed under the terms of this License. Such a notice grants a world-wide, royalty-free license, unlimited in duration, to use that work under the conditions stated herein. The ``Document'', below, refers to any such manual or work. Any member of the public is a licensee, and is addressed as ``you''. You accept the license if you copy, modify or distribute the work in a way requiring permission under copyright law.

A ``Modified Version'' of the Document means any work containing the Document or a portion of it, either copied verbatim, or with modifications and/or translated into another language.

A ``Secondary Section'' is a named appendix or a front-matter section of the Document that deals exclusively with the relationship of the publishers or authors of the Document to the Document's overall subject (or to related matters) and contains nothing that could fall directly within that overall subject. (Thus, if the Document is in part a textbook of mathematics, a Secondary Section may not explain any mathematics.) The relationship could be a matter of historical connection with the subject or with related matters, or of legal, commercial, philosophical, ethical or political position regarding them.

The ``Invariant Sections'' are certain Secondary Sections whose titles are designated, as being those of Invariant Sections, in the notice that says that the Document is released under this License. If a section does not fit the above definition of Secondary then it is not allowed to be designated as Invariant. The Document may contain zero Invariant Sections. If the Document does not identify any Invariant Sections then there are none.

The ``Cover Texts'' are certain short passages of text that are listed, as Front-Cover Texts or Back-Cover Texts, in the notice that says that

the Document is released under this License. A Front-Cover Text may be at most 5 words, and a Back-Cover Text may be at most 25 words.

A ``Transparent'' copy of the Document means a machine-readable copy, represented in a format whose specification is available to the general public, that is suitable for revising the document straightforwardly with generic text editors or (for images composed of pixels) generic paint programs or (for drawings) some widely available drawing editor, and that is suitable for input to text formatters or for automatic translation to a variety of formats suitable for input to text formatters. A copy made in an otherwise Transparent file format whose markup, or absence of markup, has been arranged to thwart or discourage subsequent modification by readers is not Transparent. An image format is not Transparent if used for any substantial amount of text. A copy that is not ``Transparent'' is called ``Opaque''.

Examples of suitable formats for Transparent copies include plain ASCII without markup, Texinfo input format, La@TeX{} input format, SGML or XML using a publicly available DTD, and standard-conforming simple HTML, PostScript or PDF designed for human modification. Examples of transparent image formats include PNG, XCF and JPG. Opaque formats include proprietary formats that can be read and edited only by proprietary word processors, SGML or XML for which the DTD and/or processing tools are not generally available, and the machine-generated HTML, PostScript or PDF produced by some word processors for output purposes only.

The ``Title Page'' means, for a printed book, the title page itself, plus such following pages as are needed to hold, legibly, the material this License requires to appear in the title page. For works in formats which do not have any title page as such, ``Title Page'' means the text near the most prominent appearance of the work's title, preceding the beginning of the body of the text.

The ``publisher'' means any person or entity that distributes copies of the Document to the public.

A section ``Entitled XYZ'' means a named subunit of the Document whose title either is precisely XYZ or contains XYZ in parentheses following text that translates XYZ in another language. (Here XYZ stands for a specific section name mentioned below, such as ``Acknowledgements'', ``Dedications'', ``Endorsements'', or ``History''.) To ``Preserve the Title'' of such a section when you modify the Document means that it remains a section ``Entitled XYZ'' according to this definition.

The Document may include Warranty Disclaimers next to the notice which

states that this License applies to the Document. These Warranty Disclaimers are considered to be included by reference in this License, but only as regards disclaiming warranties: any other implication that these Warranty Disclaimers may have is void and has no effect on the meaning of this License.

@item
VERBATIM COPYING

You may copy and distribute the Document in any medium, either commercially or noncommercially, provided that this License, the copyright notices, and the license notice saying this License applies to the Document are reproduced in all copies, and that you add no other conditions whatsoever to those of this License. You may not use technical measures to obstruct or control the reading or further copying of the copies you make or distribute. However, you may accept compensation in exchange for copies. If you distribute a large enough number of copies you must also follow the conditions in section 3.

You may also lend copies, under the same conditions stated above, and you may publicly display copies.

@item
COPYING IN QUANTITY

If you publish printed copies (or copies in media that commonly have printed covers) of the Document, numbering more than 100, and the Document's license notice requires Cover Texts, you must enclose the copies in covers that carry, clearly and legibly, all these Cover Texts: Front-Cover Texts on the front cover, and Back-Cover Texts on the back cover. Both covers must also clearly and legibly identify you as the publisher of these copies. The front cover must present the full title with all words of the title equally prominent and visible. You may add other material on the covers in addition. Copying with changes limited to the covers, as long as they preserve the title of the Document and satisfy these conditions, can be treated as verbatim copying in other respects.

If the required texts for either cover are too voluminous to fit legibly, you should put the first ones listed (as many as fit reasonably) on the actual cover, and continue the rest onto adjacent pages.

If you publish or distribute Opaque copies of the Document numbering more than 100, you must either include a machine-readable Transparent copy along with each Opaque copy, or state in or with each Opaque copy a computer-network location from which the general network-using public has access to download using public-standard network protocols

a complete Transparent copy of the Document, free of added material.
If you use the latter option, you must take reasonably prudent steps,
when you begin distribution of Opaque copies in quantity, to ensure
that this Transparent copy will remain thus accessible at the stated
location until at least one year after the last time you distribute an
Opaque copy (directly or through your agents or retailers) of that
edition to the public.

It is requested, but not required, that you contact the authors of the
Document well before redistributing any large number of copies, to give
them a chance to provide you with an updated version of the Document.

@item
MODIFICATIONS

You may copy and distribute a Modified Version of the Document under
the conditions of sections 2 and 3 above, provided that you release
the Modified Version under precisely this License, with the Modified
Version filling the role of the Document, thus licensing distribution
and modification of the Modified Version to whoever possesses a copy
of it. In addition, you must do these things in the Modified Version:

@enumerate A
@item
Use in the Title Page (and on the covers, if any) a title distinct
from that of the Document, and from those of previous versions
(which should, if there were any, be listed in the History section
of the Document). You may use the same title as a previous version
if the original publisher of that version gives permission.

@item
List on the Title Page, as authors, one or more persons or entities
responsible for authorship of the modifications in the Modified
Version, together with at least five of the principal authors of the
Document (all of its principal authors, if it has fewer than five),
unless they release you from this requirement.

@item
State on the Title page the name of the publisher of the
Modified Version, as the publisher.

@item
Preserve all the copyright notices of the Document.

@item
Add an appropriate copyright notice for your modifications
adjacent to the other copyright notices.

@item
Include, immediately after the copyright notices, a license notice giving the public permission to use the Modified Version under the terms of this License, in the form shown in the Addendum below.

@item
Preserve in that license notice the full lists of Invariant Sections and required Cover Texts given in the Document's license notice.

@item
Include an unaltered copy of this License.

@item
Preserve the section Entitled ``History'', Preserve its Title, and add to it an item stating at least the title, year, new authors, and publisher of the Modified Version as given on the Title Page. If there is no section Entitled ``History'' in the Document, create one stating the title, year, authors, and publisher of the Document as given on its Title Page, then add an item describing the Modified Version as stated in the previous sentence.

@item
Preserve the network location, if any, given in the Document for public access to a Transparent copy of the Document, and likewise the network locations given in the Document for previous versions it was based on. These may be placed in the ``History'' section. You may omit a network location for a work that was published at least four years before the Document itself, or if the original publisher of the version it refers to gives permission.

@item
For any section Entitled ``Acknowledgements'' or ``Dedications'', Preserve the Title of the section, and preserve in the section all the substance and tone of each of the contributor acknowledgements and/or dedications given therein.

@item
Preserve all the Invariant Sections of the Document, unaltered in their text and in their titles. Section numbers or the equivalent are not considered part of the section titles.

@item
Delete any section Entitled ``Endorsements''. Such a section may not be included in the Modified Version.

@item
Do not retitle any existing section to be Entitled ``Endorsements'' or to conflict in title with any Invariant Section.

@item
Preserve any Warranty Disclaimers.
@end enumerate

If the Modified Version includes new front-matter sections or appendices that qualify as Secondary Sections and contain no material copied from the Document, you may at your option designate some or all of these sections as invariant. To do this, add their titles to the list of Invariant Sections in the Modified Version's license notice. These titles must be distinct from any other section titles.

You may add a section Entitled ``Endorsements", provided it contains nothing but endorsements of your Modified Version by various parties---for example, statements of peer review or that the text has been approved by an organization as the authoritative definition of a standard.

You may add a passage of up to five words as a Front-Cover Text, and a passage of up to 25 words as a Back-Cover Text, to the end of the list of Cover Texts in the Modified Version. Only one passage of Front-Cover Text and one of Back-Cover Text may be added by (or through arrangements made by) any one entity. If the Document already includes a cover text for the same cover, previously added by you or by arrangement made by the same entity you are acting on behalf of, you may not add another; but you may replace the old one, on explicit permission from the previous publisher that added the old one.

The author(s) and publisher(s) of the Document do not by this License give permission to use their names for publicity for or to assert or imply endorsement of any Modified Version.

@item
COMBINING DOCUMENTS

You may combine the Document with other documents released under this License, under the terms defined in section 4 above for modified versions, provided that you include in the combination all of the Invariant Sections of all of the original documents, unmodified, and list them all as Invariant Sections of your combined work in its license notice, and that you preserve all their Warranty Disclaimers.

The combined work need only contain one copy of this License, and multiple identical Invariant Sections may be replaced with a single copy. If there are multiple Invariant Sections with the same name but different contents, make the title of each such section unique by adding at the end of it, in parentheses, the name of the original author or publisher of that section if known, or else a unique number.

Make the same adjustment to the section titles in the list of
Invariant Sections in the license notice of the combined work.

In the combination, you must combine any sections Entitled ``History"
in the various original documents, forming one section Entitled
``History"; likewise combine any sections Entitled ``Acknowledgements",
and any sections Entitled ``Dedications". You must delete all
sections Entitled ``Endorsements."

@item
COLLECTIONS OF DOCUMENTS

You may make a collection consisting of the Document and other documents
released under this License, and replace the individual copies of this
License in the various documents with a single copy that is included in
the collection, provided that you follow the rules of this License for
verbatim copying of each of the documents in all other respects.

You may extract a single document from such a collection, and distribute
it individually under this License, provided you insert a copy of this
License into the extracted document, and follow this License in all
other respects regarding verbatim copying of that document.

@item
AGGREGATION WITH INDEPENDENT WORKS

A compilation of the Document or its derivatives with other separate
and independent documents or works, in or on a volume of a storage or
distribution medium, is called an ``aggregate" if the copyright
resulting from the compilation is not used to limit the legal rights
of the compilation's users beyond what the individual works permit.
When the Document is included in an aggregate, this License does not
apply to the other works in the aggregate which are not themselves
derivative works of the Document.

If the Cover Text requirement of section 3 is applicable to these
copies of the Document, then if the Document is less than one half of
the entire aggregate, the Document's Cover Texts may be placed on
covers that bracket the Document within the aggregate, or the
electronic equivalent of covers if the Document is in electronic form.
Otherwise they must appear on printed covers that bracket the whole
aggregate.

@item
TRANSLATION

Translation is considered a kind of modification, so you may
distribute translations of the Document under the terms of section 4.

Replacing Invariant Sections with translations requires special permission from their copyright holders, but you may include translations of some or all Invariant Sections in addition to the original versions of these Invariant Sections. You may include a translation of this License, and all the license notices in the Document, and any Warranty Disclaimers, provided that you also include the original English version of this License and the original versions of those notices and disclaimers. In case of a disagreement between the translation and the original version of this License or a notice or disclaimer, the original version will prevail.

If a section in the Document is Entitled ``Acknowledgements'', ``Dedications'', or ``History'', the requirement (section 4) to Preserve its Title (section 1) will typically require changing the actual title.

@item
TERMINATION

You may not copy, modify, sublicense, or distribute the Document except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, or distribute it is void, and will automatically terminate your rights under this License.

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, receipt of a copy of some or all of the same material does not give you any rights to use it.

@item
FUTURE REVISIONS OF THIS LICENSE

The Free Software Foundation may publish new, revised versions

of the GNU Free Documentation License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns. See @uref{http://www.gnu.org/copyleft/}.

Each version of the License is given a distinguishing version number. If the Document specifies that a particular numbered version of this License ``or any later version'' applies to it, you have the option of following the terms and conditions either of that specified version or of any later version that has been published (not as a draft) by the Free Software Foundation. If the Document does not specify a version number of this License, you may choose any version ever published (not as a draft) by the Free Software Foundation. If the Document specifies that a proxy can decide which future versions of this License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Document.

@item
RELICENSING

``Massive Multiauthor Collaboration Site'' (or ``MMC Site'') means any World Wide Web server that publishes copyrightable works and also provides prominent facilities for anybody to edit those works. A public wiki that anybody can edit is an example of such a server. A ``Massive Multiauthor Collaboration'' (or ``MMC'') contained in the site means any set of copyrightable works thus published on the MMC site.

``CC-BY-SA'' means the Creative Commons Attribution-Share Alike 3.0 license published by Creative Commons Corporation, a not-for-profit corporation with a principal place of business in San Francisco, California, as well as future copyleft versions of that license published by that same organization.

``Incorporate'' means to publish or republish a Document, in whole or in part, as part of another Document.

An MMC is ``eligible for relicensing'' if it is licensed under this License, and if all works that were first published under this License somewhere other than this MMC, and subsequently incorporated in whole or in part into the MMC, (1) had no cover texts or invariant sections, and (2) were thus incorporated prior to November 1, 2008.

The operator of an MMC Site may republish an MMC contained in the site under CC-BY-SA on the same site at any time before August 1, 2009, provided the MMC is eligible for relicensing.

@end enumerate

@page
@heading ADDENDUM: How to use this License for your documents

To use this License in a document you have written, include a copy of
the License in the document and put the following copyright and
license notices just after the title page:

@smallexample
@group
 Copyright (C) @var{year} @var{your name}.
 Permission is granted to copy, distribute and/or modify this document
 under the terms of the GNU Free Documentation License, Version 1.3
 or any later version published by the Free Software Foundation;
 with no Invariant Sections, no Front-Cover Texts, and no Back-Cover
 Texts. A copy of the license is included in the section entitled ``GNU
 Free Documentation License".
@end group
@end smallexample

If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts,
replace the ``with@dots{}Texts."@: line with this:

@smallexample
@group
   with the Invariant Sections being @var{list their titles}, with
   the Front-Cover Texts being @var{list}, and with the Back-Cover Texts
   being @var{list}.
@end group
@end smallexample

If you have Invariant Sections without Cover Texts, or some other
combination of the three, merge those two alternatives to suit the
situation.

If your document contains nontrivial examples of program code, we
recommend releasing these examples in parallel under your choice of
free software license, such as the GNU General Public License,
to permit their use in free software.

@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>

Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of

protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through

a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding

Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for

unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further

restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of

this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that

contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's

public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in

whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium

customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to

this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program

specifies a version number of this License which applies to it and "any
later version", you have the option of following the terms and conditions
either of that version or of any later version published by the Free
Software Foundation. If the Program does not specify a version number of
this License, you may choose any version ever published by the Free Software
Foundation.

10. If you wish to incorporate parts of the Program into other free
programs whose distribution conditions are different, write to the author
to ask for permission. For software which is copyrighted by the Free
Software Foundation, write to the Free Software Foundation; we sometimes
make exceptions for this. Our decision will be guided by the two goals
of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY
FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN
OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES
PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED
OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS
TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE
PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,
REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR
REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES,
INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING
OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED
TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY
YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER
PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest
possible use to the public, the best way to achieve this is to make it
free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General

Public License instead of this License.

1.760 gopkg.in-ini 1.67.0

1.760.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of

this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE,

NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 Unknwon

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.761 gogoprotobuf 1.3.2

1.761.1 Available under license :

Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>

DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

1.762 ncftp 3.2.5

1.762.1 Available under license :

The Clarified Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Distribution fee" is a fee you charge for providing a copy of this Package to another party.

"Freely Available" means that no fee is charged for the right to use the item, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain, or those made Freely Available, or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major network archive site allowing unrestricted access to them, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

b) use the modified Package only within your corporation or organization.

c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) permit and encourage anyone who receives a copy of the modified Package permission to make your modifications Freely Available in some specific way.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

e) offer the machine-readable source of the Package, with your modifications, by mail order.

5. You may charge a distribution fee for any distribution of this Package. If you offer support for this Package, you may charge any fee you choose for that support. You may not charge a license fee for the right to use this Package itself. You may distribute this Package in aggregate with other (possibly commercial and possibly nonfree) programs as part of a larger (possibly commercial and possibly nonfree) software distribution, and charge license fees for other parts of that software distribution, provided that you do not advertise this Package as a product of your own. If the Package includes an interpreter, You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called "undump" or "unexec" methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the

regression tests for the language.

8. Aggregation of the Standard Version of the Package with a commercial
distribution is always permitted provided that the use of this Package
is embedded; that is, when no overt attempt is made to make this Package's
interfaces visible to the end user of the commercial distribution.
Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote
products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

1.763 richardlehane-msoleps 1.0.1

1.763.1 Available under license :

No license file was found, but licenses were detected in source scan.

// Copyright 2014 Richard Lehane. All rights reserved.
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
// http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/sets.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/numeric.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/guid.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/decimal.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/date.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/filetime.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/strings.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/currency.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/msoleps.go

* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/types.go
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/property.go
No license file was found, but licenses were detected in source scan.

// Copyright 2015 Richard Lehane. All rights reserved.
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
// http://www.apache.org/licenses/LICENSE-2.0
// distributed under the License is distributed on an "AS IS" BASIS,

Found in path(s):
* /opt/cola/permits/1223297185_1649277723.24/0/v1-0-1-4-zip/github.com/richardlehane/msoleps@v1.0.1/types/vectorArray.go

1.764 dosfs-tools 3.0.28

1.764.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other

than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction

and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to

"keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because

modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under

this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the

Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have

actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed

under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS

THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.765 sha256-simd 0.1.1

1.765.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.766 sim-utils 1.0.0-5a8cf8ba0b32cb09f4687a2e0acf337b5055e245

1.766.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or

otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents

of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.767 xid 1.2.1

1.767.1 Available under license :

Copyright (c) 2015 Olivier Poitrey <rs@dailymotion.com>

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is furnished
to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.768 golang-lru 0.5.4

1.768.1 Available under license :

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the
creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a
Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the
notice in Exhibit A, the Executable Form of such Source Code Form, and
Modifications of such Source Code Form, in each case including portions
thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in

Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any

jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing.

The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or

publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

1.769 shim 15.7

1.769.1 Available under license :

Copyright 2012 Red Hat, Inc <mjg@redhat.com>

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Significant portions of this code are derived from Tianocore (http://tianocore.sf.net) and are Copyright 2009-2012 Intel Corporation.

1.770 xz 5.2.2-1.el7

1.770.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts

as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is

linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact

all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest

your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the

integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do

these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work

which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library

subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting

redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a

notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this

License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or

(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License along
with this program; if not, write to the Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;

keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further

restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission

to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free

patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

XZ Utils Licensing
==========

Different licenses apply to different files in this package. Here

is a rough summary of which licenses apply to which parts of this
package (but check the individual files to be sure!):

- liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public
  domain unless GNU getopt_long had to be compiled and linked
  in from the lib directory. The getopt_long code is under
  GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been
  adapted from gzip. These scripts and their documentation are
  under GNU GPLv2+.

- All the documentation in the doc directory and most of the
  XZ Utils specific documentation files in other directories
  are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that
  are under GNU GPLv2+ or GNU GPLv3+. None of these files end up
  in the binaries being built.

- Test files and test code in the tests directory, and debugging
  utilities in the debug directory are in the public domain.

- The extra directory may contain public domain files, and files
  that are under various free software licenses.

You can do whatever you want with the files that have been put into
the public domain. If you find public domain legally problematic,
take the previous sentence as a license grant. If you still find
the lack of copyright legally problematic, you have too many
lawyers.

As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils
into your project, acknowledging this somewhere in your software is
polite (especially if it is proprietary, non-free software), but
naturally it is not legally required. Here is an example of a good
notice to put into "about box" or into documentation:

  This software includes code from XZ Utils <http://tukaani.org/xz/>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1

- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code pieces that are copyrighted. Thus, it is possible that e.g. liblzma binary wouldn't actually be in the public domain in its entirety even though it contains no copyrighted code from the XZ Utils source package.

If you have questions, don't hesitate to ask the author(s) for more information.

1.771 kubernetes-api 0.24.0

1.771.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but

not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the
Licensor for the purpose of discussing and improving the Work, but
excluding communication that is conspicuously marked or otherwise
designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity
on behalf of whom a Contribution has been received by Licensor and
subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
copyright license to reproduce, prepare Derivative Works of,
publicly display, publicly perform, sublicense, and distribute the
Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of
this License, each Contributor hereby grants to You a perpetual,
worldwide, non-exclusive, no-charge, royalty-free, irrevocable
(except as stated in this section) patent license to make, have made,
use, offer to sell, sell, import, and otherwise transfer the Work,
where such license applies only to those patent claims licensable
by such Contributor that are necessarily infringed by their

Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with

the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.772 berkeley-db 6.0.30

1.772.1 Available under license :

```
/*-
* $Id$
*/
```

The following is the license that applies to this copy of the Berkeley DB software. For a license to use the Berkeley DB software under conditions other than those described here, or to purchase support for this software, please contact Oracle at berkeleydb-info_us@oracle.com.

If you were looking for the license that applies to Berkeley DB XML, click here.
http://www.oracle.com/technetwork/products/berkeleydb/downloads/xmloslicense-086890.html

If you were looking for the license that applies to Berkeley DB Java Edition, click here.
http://www.oracle.com/technetwork/products/berkeleydb/downloads/jeoslicense-086837.html

```
=-=-=-
```

```
* The Oracle Berkeley DB product is licensed
* under the GNU AFFERO GENERAL PUBLIC LICENSE:
*
*
*                GNU AFFERO GENERAL PUBLIC LICENSE
*                   Version 3, 19 November 2007
*
* Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
* Everyone is permitted to copy and distribute verbatim copies
* of this license document, but changing it is not allowed.
*
*                        Preamble
*
*  The GNU Affero General Public License is a free, copyleft license for
* software and other kinds of works, specifically designed to ensure
* cooperation with the community in the case of network server software.
*
*  The licenses for most software and other practical works are designed
* to take away your freedom to share and change the works.  By contrast,
* our General Public Licenses are intended to guarantee your freedom to
* share and change all versions of a program--to make sure it remains free
* software for all its users.
*
*  When we speak of free software, we are referring to freedom, not
* price.  Our General Public Licenses are designed to make sure that you
* have the freedom to distribute copies of free software (and charge for
* them if you wish), that you receive source code or can get it if you
* want it, that you can change the software or use pieces of it in new
* free programs, and that you know you can do these things.
*
*  Developers that use our General Public Licenses protect your rights
* with two steps: (1) assert copyright on the software, and (2) offer
* you this License which gives you legal permission to copy, distribute
* and/or modify the software.
*
*  A secondary benefit of defending all users' freedom is that
* improvements made in alternate versions of the program, if they
* receive widespread use, become available for other developers to
* incorporate.  Many developers of free software are heartened and
* encouraged by the resulting cooperation.  However, in the case of
* software used on network servers, this result may fail to come about.
* The GNU General Public License permits making a modified version and
* letting the public access it on a server without ever releasing its
* source code to the public.
*
*  The GNU Affero General Public License is designed specifically to
* ensure that, in such cases, the modified source code becomes available
* to the community.  It requires the operator of a network server to
```

* provide the source code of the modified version running there to the
* users of that server. Therefore, public use of a modified version, on
* a publicly accessible server, gives the public access to the source
* code of the modified version.
*
* An older license, called the Affero General Public License and
* published by Affero, was designed to accomplish similar goals. This is
* a different license, not a version of the Affero GPL, but Affero has
* released a new version of the Affero GPL which permits relicensing under
* this license.
*
* The precise terms and conditions for copying, distribution and
* modification follow.
*
* TERMS AND CONDITIONS
*
* 0. Definitions.
*
* "This License" refers to version 3 of the GNU Affero General Public License.
*
* "Copyright" also means copyright-like laws that apply to other kinds of
* works, such as semiconductor masks.
*
* "The Program" refers to any copyrightable work licensed under this
* License. Each licensee is addressed as "you". "Licensees" and
* "recipients" may be individuals or organizations.
*
* To "modify" a work means to copy from or adapt all or part of the work
* in a fashion requiring copyright permission, other than the making of an
* exact copy. The resulting work is called a "modified version" of the
* earlier work or a work "based on" the earlier work.
*
* A "covered work" means either the unmodified Program or a work based
* on the Program.
*
* To "propagate" a work means to do anything with it that, without
* permission, would make you directly or secondarily liable for
* infringement under applicable copyright law, except executing it on a
* computer or modifying a private copy. Propagation includes copying,
* distribution (with or without modification), making available to the
* public, and in some countries other activities as well.
*
* To "convey" a work means any kind of propagation that enables other
* parties to make or receive copies. Mere interaction with a user through
* a computer network, with no transfer of a copy, is not conveying.
*
* An interactive user interface displays "Appropriate Legal Notices"
* to the extent that it includes a convenient and prominently visible

```
* feature that (1) displays an appropriate copyright notice, and (2)
* tells the user that there is no warranty for the work (except to the
* extent that warranties are provided), that licensees may convey the
* work under this License, and how to view a copy of this License.  If
* the interface presents a list of user commands or options, such as a
* menu, a prominent item in the list meets this criterion.
*
*  1. Source Code.
*
*  The "source code" for a work means the preferred form of the work
* for making modifications to it.  "Object code" means any non-source
* form of a work.
*
*  A "Standard Interface" means an interface that either is an official
* standard defined by a recognized standards body, or, in the case of
* interfaces specified for a particular programming language, one that
* is widely used among developers working in that language.
*
*  The "System Libraries" of an executable work include anything, other
* than the work as a whole, that (a) is included in the normal form of
* packaging a Major Component, but which is not part of that Major
* Component, and (b) serves only to enable use of the work with that
* Major Component, or to implement a Standard Interface for which an
* implementation is available to the public in source code form.  A
* "Major Component", in this context, means a major essential component
* (kernel, window system, and so on) of the specific operating system
* (if any) on which the executable work runs, or a compiler used to
* produce the work, or an object code interpreter used to run it.
*
*  The "Corresponding Source" for a work in object code form means all
* the source code needed to generate, install, and (for an executable
* work) run the object code and to modify the work, including scripts to
* control those activities.  However, it does not include the work's
* System Libraries, or general-purpose tools or generally available free
* programs which are used unmodified in performing those activities but
* which are not part of the work.  For example, Corresponding Source
* includes interface definition files associated with source files for
* the work, and the source code for shared libraries and dynamically
* linked subprograms that the work is specifically designed to require,
* such as by intimate data communication or control flow between those
* subprograms and other parts of the work.
*
*  The Corresponding Source need not include anything that users
* can regenerate automatically from other parts of the Corresponding
* Source.
*
*  The Corresponding Source for a work in source code form is that
* same work.
```

*
* 2. Basic Permissions.
*
* All rights granted under this License are granted for the term of
* copyright on the Program, and are irrevocable provided the stated
* conditions are met. This License explicitly affirms your unlimited
* permission to run the unmodified Program. The output from running a
* covered work is covered by this License only if the output, given its
* content, constitutes a covered work. This License acknowledges your
* rights of fair use or other equivalent, as provided by copyright law.
*
* You may make, run and propagate covered works that you do not
* convey, without conditions so long as your license otherwise remains
* in force. You may convey covered works to others for the sole purpose
* of having them make modifications exclusively for you, or provide you
* with facilities for running those works, provided that you comply with
* the terms of this License in conveying all material for which you do
* not control copyright. Those thus making or running the covered works
* for you must do so exclusively on your behalf, under your direction
* and control, on terms that prohibit them from making any copies of
* your copyrighted material outside their relationship with you.
*
* Conveying under any other circumstances is permitted solely under
* the conditions stated below. Sublicensing is not allowed; section 10
* makes it unnecessary.
*
* 3. Protecting Users' Legal Rights From Anti-Circumvention Law.
*
* No covered work shall be deemed part of an effective technological
* measure under any applicable law fulfilling obligations under article
* 11 of the WIPO copyright treaty adopted on 20 December 1996, or
* similar laws prohibiting or restricting circumvention of such
* measures.
*
* When you convey a covered work, you waive any legal power to forbid
* circumvention of technological measures to the extent such circumvention
* is effected by exercising rights under this License with respect to
* the covered work, and you disclaim any intention to limit operation or
* modification of the work as a means of enforcing, against the work's
* users, your or third parties' legal rights to forbid circumvention of
* technological measures.
*
* 4. Conveying Verbatim Copies.
*
* You may convey verbatim copies of the Program's source code as you
* receive it, in any medium, provided that you conspicuously and
* appropriately publish on each copy an appropriate copyright notice;
* keep intact all notices stating that this License and any

* non-permissive terms added in accord with section 7 apply to the code;
* keep intact all notices of the absence of any warranty; and give all
* recipients a copy of this License along with the Program.
*
* You may charge any price or no price for each copy that you convey,
* and you may offer support or warranty protection for a fee.
*
* 5. Conveying Modified Source Versions.
*
* You may convey a work based on the Program, or the modifications to
* produce it from the Program, in the form of source code under the
* terms of section 4, provided that you also meet all of these conditions:
*
* a) The work must carry prominent notices stating that you modified
* it, and giving a relevant date.
*
* b) The work must carry prominent notices stating that it is
* released under this License and any conditions added under section
* 7. This requirement modifies the requirement in section 4 to
* "keep intact all notices".
*
* c) You must license the entire work, as a whole, under this
* License to anyone who comes into possession of a copy. This
* License will therefore apply, along with any applicable section 7
* additional terms, to the whole of the work, and all its parts,
* regardless of how they are packaged. This License gives no
* permission to license the work in any other way, but it does not
* invalidate such permission if you have separately received it.
*
* d) If the work has interactive user interfaces, each must display
* Appropriate Legal Notices; however, if the Program has interactive
* interfaces that do not display Appropriate Legal Notices, your
* work need not make them do so.
*
* A compilation of a covered work with other separate and independent
* works, which are not by their nature extensions of the covered work,
* and which are not combined with it such as to form a larger program,
* in or on a volume of a storage or distribution medium, is called an
* "aggregate" if the compilation and its resulting copyright are not
* used to limit the access or legal rights of the compilation's users
* beyond what the individual works permit. Inclusion of a covered work
* in an aggregate does not cause this License to apply to the other
* parts of the aggregate.
*
* 6. Conveying Non-Source Forms.
*
* You may convey a covered work in object code form under the terms
* of sections 4 and 5, provided that you also convey the

```
* machine-readable Corresponding Source under the terms of this License,
* in one of these ways:
*
*     a) Convey the object code in, or embodied in, a physical product
*     (including a physical distribution medium), accompanied by the
*     Corresponding Source fixed on a durable physical medium
*     customarily used for software interchange.
*
*     b) Convey the object code in, or embodied in, a physical product
*     (including a physical distribution medium), accompanied by a
*     written offer, valid for at least three years and valid for as
*     long as you offer spare parts or customer support for that product
*     model, to give anyone who possesses the object code either (1) a
*     copy of the Corresponding Source for all the software in the
*     product that is covered by this License, on a durable physical
*     medium customarily used for software interchange, for a price no
*     more than your reasonable cost of physically performing this
*     conveying of source, or (2) access to copy the
*     Corresponding Source from a network server at no charge.
*
*     c) Convey individual copies of the object code with a copy of the
*     written offer to provide the Corresponding Source.  This
*     alternative is allowed only occasionally and noncommercially, and
*     only if you received the object code with such an offer, in accord
*     with subsection 6b.
*
*     d) Convey the object code by offering access from a designated
*     place (gratis or for a charge), and offer equivalent access to the
*     Corresponding Source in the same way through the same place at no
*     further charge.  You need not require recipients to copy the
*     Corresponding Source along with the object code.  If the place to
*     copy the object code is a network server, the Corresponding Source
*     may be on a different server (operated by you or a third party)
*     that supports equivalent copying facilities, provided you maintain
*     clear directions next to the object code saying where to find the
*     Corresponding Source.  Regardless of what server hosts the
*     Corresponding Source, you remain obligated to ensure that it is
*     available for as long as needed to satisfy these requirements.
*
*     e) Convey the object code using peer-to-peer transmission, provided
*     you inform other peers where the object code and Corresponding
*     Source of the work are being offered to the general public at no
*     charge under subsection 6d.
*
*   A separable portion of the object code, whose source code is excluded
* from the Corresponding Source as a System Library, need not be
* included in conveying the object code work.
*
```

```
*   A "User Product" is either (1) a "consumer product", which means any
* tangible personal property which is normally used for personal, family,
* or household purposes, or (2) anything designed or sold for incorporation
* into a dwelling.  In determining whether a product is a consumer product,
* doubtful cases shall be resolved in favor of coverage.  For a particular
* product received by a particular user, "normally used" refers to a
* typical or common use of that class of product, regardless of the status
* of the particular user or of the way in which the particular user
* actually uses, or expects or is expected to use, the product.  A product
* is a consumer product regardless of whether the product has substantial
* commercial, industrial or non-consumer uses, unless such uses represent
* the only significant mode of use of the product.
*
*   "Installation Information" for a User Product means any methods,
* procedures, authorization keys, or other information required to install
* and execute modified versions of a covered work in that User Product from
* a modified version of its Corresponding Source.  The information must
* suffice to ensure that the continued functioning of the modified object
* code is in no case prevented or interfered with solely because
* modification has been made.
*
*   If you convey an object code work under this section in, or with, or
* specifically for use in, a User Product, and the conveying occurs as
* part of a transaction in which the right of possession and use of the
* User Product is transferred to the recipient in perpetuity or for a
* fixed term (regardless of how the transaction is characterized), the
* Corresponding Source conveyed under this section must be accompanied
* by the Installation Information.  But this requirement does not apply
* if neither you nor any third party retains the ability to install
* modified object code on the User Product (for example, the work has
* been installed in ROM).
*
*   The requirement to provide Installation Information does not include a
* requirement to continue to provide support service, warranty, or updates
* for a work that has been modified or installed by the recipient, or for
* the User Product in which it has been modified or installed.  Access to a
* network may be denied when the modification itself materially and
* adversely affects the operation of the network or violates the rules and
* protocols for communication across the network.
*
*   Corresponding Source conveyed, and Installation Information provided,
* in accord with this section must be in a format that is publicly
* documented (and with an implementation available to the public in
* source code form), and must require no special password or key for
* unpacking, reading or copying.
*
*   7. Additional Terms.
*
```

```
*   "Additional permissions" are terms that supplement the terms of this
* License by making exceptions from one or more of its conditions.
* Additional permissions that are applicable to the entire Program shall
* be treated as though they were included in this License, to the extent
* that they are valid under applicable law.  If additional permissions
* apply only to part of the Program, that part may be used separately
* under those permissions, but the entire Program remains governed by
* this License without regard to the additional permissions.
*
*   When you convey a copy of a covered work, you may at your option
* remove any additional permissions from that copy, or from any part of
* it.  (Additional permissions may be written to require their own
* removal in certain cases when you modify the work.)  You may place
* additional permissions on material, added by you to a covered work,
* for which you have or can give appropriate copyright permission.
*
*   Notwithstanding any other provision of this License, for material you
* add to a covered work, you may (if authorized by the copyright holders of
* that material) supplement the terms of this License with terms:
*
*     a) Disclaiming warranty or limiting liability differently from the
*     terms of sections 15 and 16 of this License; or
*
*     b) Requiring preservation of specified reasonable legal notices or
*     author attributions in that material or in the Appropriate Legal
*     Notices displayed by works containing it; or
*
*     c) Prohibiting misrepresentation of the origin of that material, or
*     requiring that modified versions of such material be marked in
*     reasonable ways as different from the original version; or
*
*     d) Limiting the use for publicity purposes of names of licensors or
*     authors of the material; or
*
*     e) Declining to grant rights under trademark law for use of some
*     trade names, trademarks, or service marks; or
*
*     f) Requiring indemnification of licensors and authors of that
*     material by anyone who conveys the material (or modified versions of
*     it) with contractual assumptions of liability to the recipient, for
*     any liability that these contractual assumptions directly impose on
*     those licensors and authors.
*
*   All other non-permissive additional terms are considered "further
* restrictions" within the meaning of section 10.  If the Program as you
* received it, or any part of it, contains a notice stating that it is
* governed by this License along with a term that is a further
* restriction, you may remove that term.  If a license document contains
```

* a further restriction but permits relicensing or conveying under this
* License, you may add to a covered work material governed by the terms
* of that license document, provided that the further restriction does
* not survive such relicensing or conveying.
*
* If you add terms to a covered work in accord with this section, you
* must place, in the relevant source files, a statement of the
* additional terms that apply to those files, or a notice indicating
* where to find the applicable terms.
*
* Additional terms, permissive or non-permissive, may be stated in the
* form of a separately written license, or stated as exceptions;
* the above requirements apply either way.
*
* 8. Termination.
*
* You may not propagate or modify a covered work except as expressly
* provided under this License. Any attempt otherwise to propagate or
* modify it is void, and will automatically terminate your rights under
* this License (including any patent licenses granted under the third
* paragraph of section 11).
*
* However, if you cease all violation of this License, then your
* license from a particular copyright holder is reinstated (a)
* provisionally, unless and until the copyright holder explicitly and
* finally terminates your license, and (b) permanently, if the copyright
* holder fails to notify you of the violation by some reasonable means
* prior to 60 days after the cessation.
*
* Moreover, your license from a particular copyright holder is
* reinstated permanently if the copyright holder notifies you of the
* violation by some reasonable means, this is the first time you have
* received notice of violation of this License (for any work) from that
* copyright holder, and you cure the violation prior to 30 days after
* your receipt of the notice.
*
* Termination of your rights under this section does not terminate the
* licenses of parties who have received copies or rights from you under
* this License. If your rights have been terminated and not permanently
* reinstated, you do not qualify to receive new licenses for the same
* material under section 10.
*
* 9. Acceptance Not Required for Having Copies.
*
* You are not required to accept this License in order to receive or
* run a copy of the Program. Ancillary propagation of a covered work
* occurring solely as a consequence of using peer-to-peer transmission
* to receive a copy likewise does not require acceptance. However,

* nothing other than this License grants you permission to propagate or
* modify any covered work. These actions infringe copyright if you do
* not accept this License. Therefore, by modifying or propagating a
* covered work, you indicate your acceptance of this License to do so.
*
* 10. Automatic Licensing of Downstream Recipients.
*
* Each time you convey a covered work, the recipient automatically
* receives a license from the original licensors, to run, modify and
* propagate that work, subject to this License. You are not responsible
* for enforcing compliance by third parties with this License.
*
* An "entity transaction" is a transaction transferring control of an
* organization, or substantially all assets of one, or subdividing an
* organization, or merging organizations. If propagation of a covered
* work results from an entity transaction, each party to that
* transaction who receives a copy of the work also receives whatever
* licenses to the work the party's predecessor in interest had or could
* give under the previous paragraph, plus a right to possession of the
* Corresponding Source of the work from the predecessor in interest, if
* the predecessor has it or can get it with reasonable efforts.
*
* You may not impose any further restrictions on the exercise of the
* rights granted or affirmed under this License. For example, you may
* not impose a license fee, royalty, or other charge for exercise of
* rights granted under this License, and you may not initiate litigation
* (including a cross-claim or counterclaim in a lawsuit) alleging that
* any patent claim is infringed by making, using, selling, offering for
* sale, or importing the Program or any portion of it.
*
* 11. Patents.
*
* A "contributor" is a copyright holder who authorizes use under this
* License of the Program or a work on which the Program is based. The
* work thus licensed is called the contributor's "contributor version".
*
* A contributor's "essential patent claims" are all patent claims
* owned or controlled by the contributor, whether already acquired or
* hereafter acquired, that would be infringed by some manner, permitted
* by this License, of making, using, or selling its contributor version,
* but do not include claims that would be infringed only as a
* consequence of further modification of the contributor version. For
* purposes of this definition, "control" includes the right to grant
* patent sublicenses in a manner consistent with the requirements of
* this License.
*
* Each contributor grants you a non-exclusive, worldwide, royalty-free
* patent license under the contributor's essential patent claims, to

* make, use, sell, offer for sale, import and otherwise run, modify and
* propagate the contents of its contributor version.
*
* In the following three paragraphs, a "patent license" is any express
* agreement or commitment, however denominated, not to enforce a patent
* (such as an express permission to practice a patent or covenant not to
* sue for patent infringement). To "grant" such a patent license to a
* party means to make such an agreement or commitment not to enforce a
* patent against the party.
*
* If you convey a covered work, knowingly relying on a patent license,
* and the Corresponding Source of the work is not available for anyone
* to copy, free of charge and under the terms of this License, through a
* publicly available network server or other readily accessible means,
* then you must either (1) cause the Corresponding Source to be so
* available, or (2) arrange to deprive yourself of the benefit of the
* patent license for this particular work, or (3) arrange, in a manner
* consistent with the requirements of this License, to extend the patent
* license to downstream recipients. "Knowingly relying" means you have
* actual knowledge that, but for the patent license, your conveying the
* covered work in a country, or your recipient's use of the covered work
* in a country, would infringe one or more identifiable patents in that
* country that you have reason to believe are valid.
*
* If, pursuant to or in connection with a single transaction or
* arrangement, you convey, or propagate by procuring conveyance of, a
* covered work, and grant a patent license to some of the parties
* receiving the covered work authorizing them to use, propagate, modify
* or convey a specific copy of the covered work, then the patent license
* you grant is automatically extended to all recipients of the covered
* work and works based on it.
*
* A patent license is "discriminatory" if it does not include within
* the scope of its coverage, prohibits the exercise of, or is
* conditioned on the non-exercise of one or more of the rights that are
* specifically granted under this License. You may not convey a covered
* work if you are a party to an arrangement with a third party that is
* in the business of distributing software, under which you make payment
* to the third party based on the extent of your activity of conveying
* the work, and under which the third party grants, to any of the
* parties who would receive the covered work from you, a discriminatory
* patent license (a) in connection with copies of the covered work
* conveyed by you (or copies made from those copies), or (b) primarily
* for and in connection with specific products or compilations that
* contain the covered work, unless you entered into that arrangement,
* or that patent license was granted, prior to 28 March 2007.
*
* Nothing in this License shall be construed as excluding or limiting

* any implied license or other defenses to infringement that may
* otherwise be available to you under applicable patent law.
*
* 12. No Surrender of Others' Freedom.
*
* If conditions are imposed on you (whether by court order, agreement or
* otherwise) that contradict the conditions of this License, they do not
* excuse you from the conditions of this License. If you cannot convey a
* covered work so as to satisfy simultaneously your obligations under this
* License and any other pertinent obligations, then as a consequence you may
* not convey it at all. For example, if you agree to terms that obligate you
* to collect a royalty for further conveying from those to whom you convey
* the Program, the only way you could satisfy both those terms and this
* License would be to refrain entirely from conveying the Program.
*
* 13. Remote Network Interaction; Use with the GNU General Public License.
*
* Notwithstanding any other provision of this License, if you modify the
* Program, your modified version must prominently offer all users
* interacting with it remotely through a computer network (if your version
* supports such interaction) an opportunity to receive the Corresponding
* Source of your version by providing access to the Corresponding Source
* from a network server at no charge, through some standard or customary
* means of facilitating copying of software. This Corresponding Source
* shall include the Corresponding Source for any work covered by version 3
* of the GNU General Public License that is incorporated pursuant to the
* following paragraph.
*
* Notwithstanding any other provision of this License, you have
* permission to link or combine any covered work with a work licensed
* under version 3 of the GNU General Public License into a single
* combined work, and to convey the resulting work. The terms of this
* License will continue to apply to the part which is the covered work,
* but the work with which it is combined will remain governed by version
* 3 of the GNU General Public License.
*
* 14. Revised Versions of this License.
*
* The Free Software Foundation may publish revised and/or new versions of
* the GNU Affero General Public License from time to time. Such new versions
* will be similar in spirit to the present version, but may differ in detail to
* address new problems or concerns.
*
* Each version is given a distinguishing version number. If the
* Program specifies that a certain numbered version of the GNU Affero General
* Public License "or any later version" applies to it, you have the
* option of following the terms and conditions either of that numbered
* version or of any later version published by the Free Software

* Foundation. If the Program does not specify a version number of the
* GNU Affero General Public License, you may choose any version ever published
* by the Free Software Foundation.
*
*   If the Program specifies that a proxy can decide which future
* versions of the GNU Affero General Public License can be used, that proxy's
* public statement of acceptance of a version permanently authorizes you
* to choose that version for the Program.
*
*   Later license versions may give you additional or different
* permissions. However, no additional obligations are imposed on any
* author or copyright holder as a result of your choosing to follow a
* later version.
*
*   15. Disclaimer of Warranty.
*
*   THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY
* APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT
* HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY
* OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO,
* THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM
* IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF
* ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
*
*   16. Limitation of Liability.
*
*   IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING
* WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS
* THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY
* GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE
* USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF
* DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD
* PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),
* EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGES.
*
*   17. Interpretation of Sections 15 and 16.
*
*   If the disclaimer of warranty and limitation of liability provided
* above cannot be given local legal effect according to their terms,
* reviewing courts shall apply local law that most closely approximates
* an absolute waiver of all civil liability in connection with the
* Program, unless a warranty or assumption of liability accompanies a
* copy of the Program in return for a fee.
*
*   END OF TERMS AND CONDITIONS
*

```
*           How to Apply These Terms to Your New Programs
*
*   If you develop a new program, and you want it to be of the greatest
* possible use to the public, the best way to achieve this is to make it
* free software which everyone can redistribute and change under these terms.
*
*   To do so, attach the following notices to the program.  It is safest
* to attach them to the start of each source file to most effectively
* state the exclusion of warranty; and each file should have at least
* the "copyright" line and a pointer to where the full notice is found.
*
*     <one line to give the program's name and a brief idea of what it does.>
*     Copyright (C) <year>  <name of author>
*
*     This program is free software: you can redistribute it and/or modify
*   it under the terms of the GNU Affero General Public License as published by
*   the Free Software Foundation, either version 3 of the License, or
*   (at your option) any later version.
*
*     This program is distributed in the hope that it will be useful,
*     but WITHOUT ANY WARRANTY; without even the implied warranty of
*     MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*     GNU Affero General Public License for more details.
*
*     You should have received a copy of the GNU Affero General Public License
*     along with this program.  If not, see <http://www.gnu.org/licenses/>.
*
* Also add information on how to contact you by electronic and paper mail.
*
*   If your software can interact with users remotely through a computer
* network, you should also make sure that it provides a way for users to
* get its source.  For example, if your program is a web application, its
* interface could display a "Source" link that leads users to an archive
* of the code.  There are many ways you could offer source, and different
* solutions will be better for different programs; see section 13 for the
* specific requirements.
*
*   You should also get your employer (if you work as a programmer) or school,
* if any, to sign a "copyright disclaimer" for the program, if necessary.
* For more information on this, and how to apply and follow the GNU AGPL, see
* <http://www.gnu.org/licenses/>.
*/
```

ADDITIONAL THIRD PARTY NOTICES:

```
=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
/*
* Copyright (c) 1990, 1993, 1994, 1995
```

* The Regents of the University of California. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
/*
* Copyright (c) 1995, 1996
* The President and Fellows of Harvard University. All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*   notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*   notice, this list of conditions and the following disclaimer in the
*   documentation and/or other materials provided with the distribution.
* 3. Neither the name of the University nor the names of its contributors
*   may be used to endorse or promote products derived from this software
*   without specific prior written permission.
*
* THIS SOFTWARE IS PROVIDED BY HARVARD AND ITS CONTRIBUTORS ``AS IS'' AND
* ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL HARVARD OR ITS CONTRIBUTORS BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

```
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/
=-=-=-
```

Berkeley DB Product License
The license that applies to this copy of the Berkeley DB software may be found
in the "LICENSE" file included in each Berkeley DB distribution.
For a license to use the Berkeley DB software under conditions other than
those described in the "LICENSE" file, or to purchase support for this
software, please send email to
berkeleydb-info_us@oracle.com.
Copyright (c) 1996, 2014 Oracle and/or its affiliates. All rights reserved.
</body>
</html>
Copyright (c) 1996, 2014 Oracle and/or its affiliates. All rights reserved.
See the file LICENSE for redistribution information.
This software is copyrighted by Christian Werner <chw@ch-werner.de>
and other authors. The following terms apply to all files associated
with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors
and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.
This software is copyrighted by Christian Werner <chw@ch-werner.de> and others.
The following terms apply to all files associated with the software
unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute,
and license this software and its documentation for any purpose, provided
that existing copyright notices are retained in all copies and that this
notice is included verbatim in any distributions. No written agreement,
license, or royalty fee is required for any of the authorized uses.
Modifications to this software may be copyrighted by their authors

and need not follow the licensing terms described here, provided that
the new terms are clearly indicated on the first page of each file where
they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY
FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES
ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY
DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE
IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE
NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR
MODIFICATIONS.
NOTE

The license is based on the zlib/libpng license. For more details see
http://www.opensource.org/licenses/zlib-license.html. The intent of the
license is to:

- keep the license as simple as possible
- encourage the use of CuTest in both free and commercial applications
 and libraries
- keep the source code together
- give credit to the CuTest contributors for their work

If you ship CuTest in source form with your source distribution, the
following license document must be included with it in unaltered form.
If you find CuTest useful we would like to hear about it.

LICENSE

Copyright (c) 2003 Asim Jalis

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software in
a product, an acknowledgment in the product documentation would be
appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.
This package was debianized by Sam Clegg <samo@debian.org> on Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

Copyright: Copyright (c) 2001-2011 Christian Werner <chw@ch-werner.de>
OS/2 Port Copyright (c) 2004 Lorne R. Sunley <lsunley@mb.sympatico.ca>

License:

This software is copyrighted by Christian Werner <chw@ch-werner.de> and other authors. The following terms apply to all files associated with the software unless explicitly disclaimed in individual files.

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses. Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

IN NO EVENT SHALL THE AUTHORS OR DISTRIBUTORS BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE, ITS DOCUMENTATION, OR ANY DERIVATIVES THEREOF, EVEN IF THE AUTHORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE AUTHORS AND DISTRIBUTORS SPECIFICALLY DISCLAIM ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. THIS SOFTWARE IS PROVIDED ON AN "AS IS" BASIS, AND THE AUTHORS AND DISTRIBUTORS HAVE NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

The Debian packaging is (C) 2006, Sam Clegg <samo@debian.org> and is licensed under the GPL-3, see `/usr/share/common-licenses/GPL-3'.

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
 <head>
   <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
   <title>License Change</title>
   <link rel="stylesheet" href="gettingStarted.css" type="text/css" />
   <meta name="generator" content="DocBook XSL Stylesheets V1.73.2" />
   <link rel="start" href="index.html" title="Berkeley DB Installation and Build Guide" />
   <link rel="up" href="upgrade_60_toc.html" title="Chapter9. Upgrading Berkeley DB 11.2.5.3 applications to
Berkeley DB 12.1.6.0" />
   <link rel="prev" href="compare_func.html" title="Comparison Function Signature Change" />
   <link rel="next" href="sqlite_ver60.html" title="Updated SQLite Version" />
 </head>
 <body>

       Library Version 12.1.6.0

     <table width="100%" summary="Navigation header">
       <tr>
         <th colspan="3" align="center">License Change</th>
       </tr>
       <tr>
         <td width="20%" align="left">Prev</td>
         <th width="60%" align="center">Chapter9.
       Upgrading Berkeley DB 11.2.5.3 applications to Berkeley DB 12.1.6.0
   </th>
         <td width="20%" align="right">Next</td>
       </tr>
     </table>
     <hr />

           <h2 class="title" style="clear: both">License Change</h2>

       Starting with the 6.0 / 12c releases, all Berkeley DB products are
       licensed under the GNU AFFERO GENERAL PUBLIC LICENSE (AGPL), version 3.
       This license is published by the Free Software Foundation (FSF)
       (1) and
       approved by the Open Source Initiative

```
    <a class="ulink" href="http://opensource.org/licenses/AGPL-3.0" target="_top">(2)</a>.
    Please review the terms of the license to ensure compliance before
    upgrading to the 12c release. Previous releases of Berkeley DB software
    will continue to be distributed under the Sleepycat license.
  </p>
  </div>
  <div class="navfooter">
    <hr />
    <table width="100%" summary="Navigation footer">
      <tr>
        <td width="40%" align="left"><a accesskey="p" href="compare_func.html">Prev</a></td>
        <td width="20%" align="center">
          <a accesskey="u" href="upgrade_60_toc.html">Up</a>
        </td>
        <td width="40%" align="right"><a accesskey="n" href="sqlite_ver60.html">Next</a></td>
      </tr>
      <tr>
        <td width="40%" align="left" valign="top">Comparison Function Signature Change</td>
        <td width="20%" align="center">
          <a accesskey="h" href="index.html">Home</a>
        </td>
        <td width="40%" align="right" valign="top">Updated SQLite Version</td>
      </tr>
    </table>
  </div>
 </body>
</html>
```


1.773 libnl3 3.2.25

1.773.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must

be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your

rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.774 nettle 3.7.3

1.774.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or

distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in

certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE

POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are

based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the

portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the

Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed

to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.

States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a

menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated

conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey,

and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular

product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions

apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent

(such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify

it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.775 go-openapi-jsonreference 0.19.5

1.775.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted"

means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and

attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the

appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software

distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.776 reload4j 2.17.1

1.776.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include

the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright 1999-2005 The Apache Software Foundation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache log4j
Copyright 2007 The Apache Software Foundation

This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

1.777 libxml2 0.19.4

1.777.1 Available under license :

Except where otherwise noted in the source code (e.g. the files hash.c,
list.c and the trio files, which are covered by a similar licence but
with different Copyright notices) all the files are:

Copyright (C) 1998-2012 Daniel Veillard. All Rights Reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is fur-
nished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FIT-
NESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.778 linux-kernel 4.1.21

1.778.1 Available under license :

FlashPoint Driver Developer's Kit
Version 1.0

Copyright 1995-1996 by Mylex Corporation
All Rights Reserved

This program is free software; you may redistribute and/or modify it under the terms of either:

a) the GNU General Public License as published by the Free Software Foundation; either version 2, or (at your option) any later version,

or

b) the "BSD-style License" included below.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See either the GNU General Public License or the BSD-style License below for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

The BSD-style License is as follows:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain this LICENSE.FlashPoint file, without modification, this list of conditions, and the following disclaimer. The following copyright notice must appear immediately at the beginning of all source files:

Copyright 1995-1996 by Mylex Corporation. All Rights Reserved

This file is available under both the GNU General Public License

and a BSD-style copyright; see LICENSE.FlashPoint for details.

2. Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

3. The name of Mylex Corporation may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY MYLEX CORP. ``AS IS'' AND ANY EXPRESS OR
IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN
NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT,
INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
Copyright (c) 2009-2013 QLogic Corporation
QLogic Linux qlcnic NIC Driver

You may modify and redistribute the device driver code under the
GNU General Public License (a copy of which is attached hereto as
Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by

the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program"

means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary

form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the

Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made

generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING,

REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
like to be mentioned)
GNU LIBRARY GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
library. If the library is modified by someone else and passed on, we

want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are

prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add

an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Library General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH

DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Library General Public License for more details.

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete

machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further

restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest

to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into

proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Copyright (c) 2003-2013 QLogic Corporation
QLogic Linux iSCSI Driver

This program includes a device driver for Linux 3.x.
You may modify and redistribute the device driver code under the GNU General Public License (a copy of which is attached hereto as Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate

copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program

with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such

parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING

OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
* Copyright (c) 1996 University of Cambridge Computer Laboratory
*
```

```
*   This program is free software; you can redistribute it and/or modify
*   it under the terms of the GNU General Public License as published by
*   the Free Software Foundation; either version 2 of the License, or
*   (at your option) any later version.
*
*   This program is distributed in the hope that it will be useful,
*   but WITHOUT ANY WARRANTY; without even the implied warranty of
*   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
*   GNU General Public License for more details.
*
*   You should have received a copy of the GNU General Public License
*   along with this program; if not, write to the Free Software
*   Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/
```

Code in this directory written at the IDA Supercomputing Research Center carries the following copyright and license.

Copyright 1993 United States Government as represented by the Director, National Security Agency. This software may be used and distributed according to the terms of the GNU General Public License, incorporated herein by reference.

In addition to the disclaimers in the GPL, SRC expressly disclaims any and all warranties, expressed or implied, concerning the enclosed software. This software was developed at SRC for use in internal research, and the intent in sharing this software is to promote the productive interchange of ideas throughout the research community. All software is furnished on an "as-is" basis. No further updates to this software should be expected. Although updates may occur, no commitment exists.

"This software program is licensed subject to the GNU General Public License (GPL). Version 2, June 1991, available at
<http:

GNU General Public License

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place - Suite 330, Boston, MA 02111-1307, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

* a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

* b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

* c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and

telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

* a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

* b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

* c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code

means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who

receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and

of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.
Copyright (C) yyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for

more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

Copyright (c) 2003-2006, Marvell International Ltd.
All Rights Reserved

This program is free software; you can redistribute it and/or modify it under the terms of version 2 of the GNU General Public License as published by the Free Software Foundation.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with
this program; if not, write to the Free Software Foundation, Inc., 59
Temple Place - Suite 330, Boston, MA 02111-1307, USA.
Copyright (c) 2003-2006 QLogic Corporation
QLogic Linux Networking HBA Driver

This program includes a device driver for Linux 2.6 that may be
distributed with QLogic hardware specific firmware binary file.
You may modify and redistribute the device driver code under the
GNU General Public License as published by the Free Software
Foundation (version 2 or a later version).

You may redistribute the hardware specific firmware binary file
under the following terms:

1. Redistribution of source code (only if applicable),
   must retain the above copyright notice, this list of
   conditions and the following disclaimer.

2. Redistribution in binary form must reproduce the above
   copyright notice, this list of conditions and the
   following disclaimer in the documentation and/or other
   materials provided with the distribution.

3. The name of QLogic Corporation may not be used to
   endorse or promote products derived from this software
   without specific prior written permission

REGARDLESS OF WHAT LICENSING MECHANISM IS USED OR APPLICABLE,
THIS PROGRAM IS PROVIDED BY QLOGIC CORPORATION "AS IS" AND ANY
EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

USER ACKNOWLEDGES AND AGREES THAT USE OF THIS PROGRAM WILL NOT
CREATE OR GIVE GROUNDS FOR A LICENSE BY IMPLICATION, ESTOPPEL, OR
OTHERWISE IN ANY INTELLECTUAL PROPERTY RIGHTS (PATENT, COPYRIGHT,
TRADE SECRET, MASK WORK, OR OTHER PROPRIETARY RIGHT) EMBODIED IN
ANY OTHER QLOGIC HARDWARE OR SOFTWARE EITHER SOLELY OR IN
COMBINATION WITH THIS PROGRAM.

The files in this directory and elsewhere which refer to this LICENCE
file are part of JFFS2, the Journalling Flash File System v2.

Copyright 2001-2007 Red Hat, Inc. and others

JFFS2 is free software; you can redistribute it and/or modify it under
the terms of the GNU General Public License as published by the Free
Software Foundation; either version 2 or (at your option) any later
version.

JFFS2 is distributed in the hope that it will be useful, but WITHOUT
ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or
FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License
for more details.

You should have received a copy of the GNU General Public License along
with JFFS2; if not, write to the Free Software Foundation, Inc.,
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA.

As a special exception, if other files instantiate templates or use
macros or inline functions from these files, or you compile these
files and link them with other works to produce a work based on these
files, these files do not by themselves cause the resulting work to be
covered by the GNU General Public License. However the source code for
these files must still be made available in accordance with section (3)
of the GNU General Public License.

This exception does not invalidate any other reasons why a work based on
this file might be covered by the GNU General Public License.

NOTE! This copyright does *not* cover user programs that use kernel
services by normal system calls - this is merely considered normal use
of the kernel, and does *not* fall under the heading of "derived work".
Also note that the GPL below is copyrighted by the Free Software
Foundation, but the instance of code that it refers to (the Linux
kernel) is copyrighted by me and others who actually wrote it.

Also note that the only valid version of the GPL as far as the kernel
is concerned is _this_ particular version of the license (ie v2, not
v2.2 or v3.x or whatever), unless explicitly otherwise stated.

Linus Torvalds

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free

program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any

part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any

later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General

Public License instead of this License.
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@linuxtv.org>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a

line to the DVB mailing list)
Copyright (c) 2003-2014 QLogic Corporation
QLogic Linux FC-FCoE Driver

This program includes a device driver for Linux 3.x.
You may modify and redistribute the device driver code under the
GNU General Public License (a copy of which is attached hereto as
Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
Copyright (c) 2003-2011 QLogic Corporation
QLogic Linux qlge NIC Driver

You may modify and redistribute the device driver code under the
GNU General Public License (a copy of which is attached hereto as
Exhibit A) published by the Free Software Foundation (version 2).

EXHIBIT A

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price. Our General Public Licenses are designed to make sure that you
have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if you
distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

1.779 python 2.7.3

1.779.1 Available under license :

Copyright (c) 2002 Jorge Acereda <jacereda@users.sourceforge.net> &
Peter O'Gorman <ogorman@users.sourceforge.net>

Portions may be copyright others, see the AUTHORS file included with this distribution.

Maintained by Peter O'Gorman <ogorman@users.sourceforge.net>

Bug Reports and other queries should go to <ogorman@users.sourceforge.net>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
libffi - Copyright (c) 1996-2009 Anthony Green, Red Hat, Inc and others.
See source files for details.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the ``Software''), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
libffi - Copyright (c) 1996-2003 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND, EXPRESS
OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL CYGNUS SOLUTIONS BE LIABLE FOR ANY CLAIM, DAMAGES OR
OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE,
ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.
****
Copyright
****

Python and this documentation is:

Copyright 2001-2012 Python Software Foundation. All rights reserved.

Copyright 2000 BeOpen.com. All rights reserved.

Copyright 1995-2000 Corporation for National Research Initiatives. All rights
reserved.

Copyright 1991-1995 Stichting Mathematisch Centrum. All rights reserved.

See :ref:`history-and-license` for complete license and permissions information.

A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes

2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON
==========

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
---

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby

grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

1. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using

this software in source or binary form and its associated
documentation ("the Software").

2. Subject to the terms and conditions of this BeOpen Python License
Agreement, BeOpen hereby grants Licensee a non-exclusive,
royalty-free, world-wide license to reproduce, analyze, test, perform
and/or display publicly, prepare derivative works, distribute, and
otherwise use the Software alone or in any derivative version,
provided, however, that the BeOpen Python License is retained in the
Software, alone or in any derivative version prepared by Licensee.

3. BeOpen is making the Software available to Licensee on an "AS IS"
basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR
IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND
DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS
FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT
INFRINGE ANY THIRD PARTY RIGHTS.

4. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE
SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS
AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY
DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

5. This License Agreement will automatically terminate upon a material
breach of its terms and conditions.

6. This License Agreement shall be governed by and interpreted in all
respects by the law of the State of California, excluding conflict of
law provisions. Nothing in this License Agreement shall be deemed to
create any relationship of agency, partnership, or joint venture
between BeOpen and Licensee. This License Agreement does not grant
permission to use BeOpen trademarks or trade names in a trademark
sense to endorse or promote products or services of Licensee, or any
third party. As an exception, the "BeOpen Python" logos available at
http://www.pythonlabs.com/logos.html may be used according to the
permissions granted on that web page.

7. By copying, installing or otherwise using the software, Licensee
agrees to be bound by the terms and conditions of this License
Agreement.

CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1
---

1. This LICENSE AGREEMENT is between the Corporation for National
Research Initiatives, having an office at 1895 Preston White Drive,
Reston, VA 20191 ("CNRI"), and the Individual or Organization

("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

2. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright (c) 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013".

3. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

4. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was

previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By clicking on the "ACCEPT" button where indicated, or by copying, installing or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

ACCEPT

CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright (c) 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
pybench License

This copyright notice and license applies to all files in the pybench directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby
granted, provided that the above copyright notice appear in all copies
and that both that copyright notice and this permission notice appear
in supporting documentation or portions thereof, including
modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE !
.. highlightlang:: none

.. _history-and-license:

****
History and License
****

History of the software
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see
http://www.python.org/psf/) was formed, a non-profit organization created
specifically to own Python-related Intellectual Property. Zope Corporation is a
sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open
Source Definition). Historically, most, but not all, Python releases have also
been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL compatible?
0.9.0 thru 1.2	n/a	1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	no
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2002-2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2003	PSF	yes
2.3.3	2.3.2	2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes

2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2010	PSF	yes
2.7	2.6	2010	PSF	yes

.. note::

GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

Terms and conditions for accessing or otherwise using Python
==========

.. centered:: PSF LICENSE AGREEMENT FOR PYTHON |release|

#. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using Python |release| software in source or binary form and its associated documentation.

#. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python |release| alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright 2001-2012 Python Software Foundation; All Rights Reserved" are retained in Python |release| alone or in any derivative version prepared by Licensee.

#. In the event Licensee prepares a derivative work that is based on or incorporates Python |release| or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python |release|.

#. PSF is making Python |release| available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON |release| WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

#. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON |release| FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON |release|, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

#. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

#. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

#. By copying, installing or otherwise using Python |release|, Licensee agrees to be bound by the terms and conditions of this License Agreement.

.. centered:: BEOPEN.COM LICENSE AGREEMENT FOR PYTHON 2.0

.. centered:: BEOPEN PYTHON OPEN SOURCE LICENSE AGREEMENT VERSION 1

#. This LICENSE AGREEMENT is between BeOpen.com ("BeOpen"), having an office at 160 Saratoga Avenue, Santa Clara, CA 95051, and the Individual or Organization ("Licensee") accessing and otherwise using this software in source or binary

form and its associated documentation ("the Software").

#. Subject to the terms and conditions of this BeOpen Python License Agreement, BeOpen hereby grants Licensee a non-exclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use the Software alone or in any derivative version, provided, however, that the BeOpen Python License is retained in the Software, alone or in any derivative version prepared by Licensee.

#. BeOpen is making the Software available to Licensee on an "AS IS" basis. BEOPEN MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, BEOPEN MAKES NO AND DISCLAIMS ANY REPRESENTATION OR
WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

#. BEOPEN SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF THE SOFTWARE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THE SOFTWARE, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

#. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

#. This License Agreement shall be governed by and interpreted in all respects by the law of the State of California, excluding conflict of law provisions. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between BeOpen and Licensee. This License Agreement does not grant permission to use BeOpen trademarks or trade names in a trademark sense to endorse or promote products or services of Licensee, or any third party. As an exception, the "BeOpen Python" logos available at http://www.pythonlabs.com/logos.html may be used according to the permissions granted on that web page.

#. By copying, installing or otherwise using the software, Licensee agrees to be bound by the terms and conditions of this License Agreement.

.. centered:: CNRI LICENSE AGREEMENT FOR PYTHON 1.6.1

#. This LICENSE AGREEMENT is between the Corporation for National Research Initiatives, having an office at 1895 Preston White Drive, Reston, VA 20191 ("CNRI"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 1.6.1 software in source or binary form and its associated documentation.

#. Subject to the terms and conditions of this License Agreement, CNRI hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce,

analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 1.6.1 alone or in any derivative version, provided, however, that CNRI's License Agreement and CNRI's notice of copyright, i.e., "Copyright 1995-2001 Corporation for National Research Initiatives; All Rights Reserved" are retained in Python 1.6.1 alone or in any derivative version prepared by Licensee. Alternately, in lieu of CNRI's License Agreement, Licensee may substitute the following text (omitting the quotes): "Python 1.6.1 is made available subject to the terms and conditions in CNRI's License Agreement. This Agreement together with Python 1.6.1 may be located on the Internet using the following unique, persistent identifier (known as a handle): 1895.22/1013. This Agreement may also be obtained from a proxy server on the Internet using the following URL: http://hdl.handle.net/1895.22/1013."

#. In the event Licensee prepares a derivative work that is based on or incorporates Python 1.6.1 or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python 1.6.1.

#. CNRI is making Python 1.6.1 available to Licensee on an "AS IS" basis. CNRI MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, CNRI MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON 1.6.1 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

#. CNRI SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 1.6.1 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 1.6.1, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

#. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

#. This License Agreement shall be governed by the federal intellectual property law of the United States, including without limitation the federal copyright law, and, to the extent such U.S. federal law does not apply, by the law of the Commonwealth of Virginia, excluding Virginia's conflict of law provisions. Notwithstanding the foregoing, with regard to derivative works based on Python 1.6.1 that incorporate non-separable material that was previously distributed under the GNU General Public License (GPL), the law of the Commonwealth of Virginia shall govern this License Agreement only as to issues arising under or with respect to Paragraphs 4, 5, and 7 of this License Agreement. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between CNRI and Licensee. This License Agreement does not grant permission to use CNRI trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

#. By clicking on the "ACCEPT" button where indicated, or by copying, installing

or otherwise using Python 1.6.1, Licensee agrees to be bound by the terms and conditions of this License Agreement.

.. centered:: ACCEPT

.. centered:: CWI LICENSE AGREEMENT FOR PYTHON 0.9.0 THROUGH 1.2

Copyright 1991 - 1995, Stichting Mathematisch Centrum Amsterdam, The Netherlands. All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Stichting Mathematisch Centrum or CWI not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

STICHTING MATHEMATISCH CENTRUM DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL STICHTING MATHEMATISCH CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Licenses and Acknowledgements for Incorporated Software
==========

This section is an incomplete, but growing list of licenses and acknowledgements for third-party software incorporated in the Python distribution.

Mersenne Twister

The :mod:`_random` module includes code based on a download from http://www.math.keio.ac.jp/ matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)

or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote
   products derived from this software without specific prior written
   permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE
Project, http://www.wide.ad.jp/. ::

Copyright (C) 1995, 1996, 1997, and 1998 WIDE Project.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.
3. Neither the name of the project nor the names of its contributors
   may be used to endorse or promote products derived from this software
   without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS ``AS IS'' AND
GAI_ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE
FOR GAI_ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON GAI_ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN GAI_ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Floating point exception control

The source for the :mod:`fpectl` module includes the following notice::

```
  ---------------------------------------------------------------------
 /                    Copyright (c) 1996.                        \
|        The Regents of the University of California.              |
|                    All rights reserved.                         |
|                                                                 |
|  Permission to use, copy, modify, and distribute this software for  |
|  any purpose without fee is hereby granted, provided that this en-  |
|  tire notice is included in all copies of any software which is or  |
|  includes a copy or modification of this software and in all  |
|  copies of the supporting documentation for such software.         |
|                                                                 |
|  This work was produced at the University of California, Lawrence  |
|  Livermore National Laboratory under contract no. W-7405-ENG-48  |
|  between the U.S. Department of Energy and The Regents of the  |
|  University of California for the operation of UC LLNL.            |
|                                                                 |
|                          DISCLAIMER                             |
|                                                                 |
```

```
| This software was prepared as an account of work sponsored by an |
| agency of the United States Government. Neither the United States |
| Government nor the University of California nor any of their em- |
| ployees, makes any warranty, express or implied, or assumes any |
| liability or responsibility for the accuracy, completeness, or |
| usefulness of any information, apparatus, product, or process |
| disclosed, or represents that its use would not infringe |
| privately-owned rights. Reference herein to any specific commer- |
| cial products, process, or service by trade name, trademark, |
| manufacturer, or otherwise, does not necessarily constitute or |
| imply its endorsement, recommendation, or favoring by the United |
| States Government or the University of California. The views and |
| opinions of authors expressed herein do not necessarily state or |
| reflect those of the United States Government or the University |
| of California, and shall not be used for advertising or product |
\ endorsement purposes. /
 ---------------------------------------------------------------------
```

MD5 message digest algorithm

The source code for the :mod:`md5` module contains the following notice::

```
Copyright (C) 1999, 2002 Aladdin Enterprises.  All rights reserved.

This software is provided 'as-is', without any express or implied
warranty.  In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
```

text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

Copyright 1996 by Sam Rushing

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Sam Rushing not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

The :mod:`Cookie` module contains the following notice::

Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

All Rights Reserved

Permission to use, copy, modify, and distribute this software
and its documentation for any purpose and without fee is hereby
granted, provided that the above copyright notice appear in all
copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Timothy O'Malley not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR
ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Execution tracing

The :mod:`trace` module contains the following notice::

portions copyright 2001, Autonomous Zones Industries, Inc., all rights...
err... reserved and offered to the public under the terms of the
Python 2.2 license.
Author: Zooko O'Whielacronx
http://zooko.com/
mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.
Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.
Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.

Permission to use, copy, modify, and distribute this Python software and its associated documentation for any purpose without fee is hereby granted, provided that the above copyright notice appears in all copies, and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of neither Automatrix, Bioreason or Mojam Media be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

UUencode and UUdecode functions

The :mod:`uu` module contains the following notice::

Copyright 1994 by Lance Ellinghouse
Cathedral City, California Republic, United States of America.
All Rights Reserved
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Lance Ellinghouse not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.
LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpclib` module contains the following notice::

The XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB
Copyright (c) 1999-2002 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its
associated documentation, you agree that you have read, understood,
and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and
its associated documentation for any purpose and without fee is
hereby granted, provided that the above copyright notice appears in
all copies, and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of
Secret Labs AB or the author not be used in advertising or publicity
pertaining to distribution of the software without specific, written
prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD
TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANT-
ABILITY AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR
BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS,
WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE
OF THIS SOFTWARE.

test_epoll

The :mod:`test_epoll` contains the following notice::

Copyright (c) 2001-2006 Twisted Matrix Laboratories.

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF

MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

The :mod:`select` and contains the following notice for the kqueue interface::

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:
1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS'' AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
strtod for conversion of C doubles to and from strings, is derived
from the file of the same name by David M. Gay, currently available
from http://www.netlib.org/fp/. The original file, as retrieved on
March 16, 2009, contains the following copyright and licensing
notice::

```
/****************************************************************
 *
```

```
 * The author of this software is David M. Gay.
 *
 * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose without fee is hereby granted, provided that this entire notice
 * is included in all copies of any software which is or includes a copy
 * or modification of this software and in all copies of the supporting
 * documentation for such software.
 *
 * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED
 * WARRANTY.  IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY
 * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY
 * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
 *
 ***************************************************************/
```

OpenSSL

The modules :mod:`hashlib`, :mod:`posix`, :mod:`ssl`, :mod:`crypt` use the OpenSSL library for added performance if made available by the operating system. Additionally, the Windows installers for Python include a copy of the OpenSSL libraries, so we include a copy of the OpenSSL license here::

LICENSE ISSUES
==========

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License

```
 /* ====================================================================
  * Copyright (c) 1998-2008 The OpenSSL Project.  All rights reserved.
  *
  * Redistribution and use in source and binary forms, with or without
  * modification, are permitted provided that the following conditions
  * are met:
  *
  * 1. Redistributions of source code must retain the above copyright
```

```
*    notice, this list of conditions and the following disclaimer.
*
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in
*    the documentation and/or other materials provided with the
*    distribution.
*
* 3. All advertising materials mentioning features or use of this
*    software must display the following acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
*
* 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
*    endorse or promote products derived from this software without
*    prior written permission. For written permission, please contact
*    openssl-core@openssl.org.
*
* 5. Products derived from this software may not be called "OpenSSL"
*    nor may "OpenSSL" appear in their names without prior written
*    permission of the OpenSSL Project.
*
* 6. Redistributions of any form whatsoever must retain the following
*    acknowledgment:
*    "This product includes software developed by the OpenSSL Project
*    for use in the OpenSSL Toolkit (http://www.openssl.org/)"
*
* THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``AS IS'' AND ANY
* EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR
* PURPOSE ARE DISCLAIMED.  IN NO EVENT SHALL THE OpenSSL PROJECT OR
* ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
* SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
* NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
* LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,
* STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED
* OF THE POSSIBILITY OF SUCH DAMAGE.
* ====================================================================
*
* This product includes cryptographic software written by Eric Young
* (eay@cryptsoft.com).  This product includes software written by Tim
* Hudson (tjh@cryptsoft.com).
*
*/
```

Original SSLeay License

```
/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to.  The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code.  The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * Redistribution and use in source and binary forms, with or without
 * modification, are permitted provided that the following conditions
 * are met:
 * 1. Redistributions of source code must retain the copyright
 *    notice, this list of conditions and the following disclaimer.
 * 2. Redistributions in binary form must reproduce the above copyright
 *    notice, this list of conditions and the following disclaimer in the
 *    documentation and/or other materials provided with the distribution.
 * 3. All advertising materials mentioning features or use of this software
 *    must display the following acknowledgement:
 *    "This product includes cryptographic software written by
 *     Eric Young (eay@cryptsoft.com)"
 *    The word 'cryptographic' can be left out if the rouines from the library
 *    being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof) from
 *    the apps directory (application code) you must include an acknowledgement:
 *    "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS" AND
 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
 * ARE DISCLAIMED.  IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
```

```
 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
 * SUCH DAMAGE.
 *
 * The licence and distribution terms for any publically available version or
 * derivative of this code cannot be changed.  i.e. this code cannot simply be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */
```

expat

The :mod:`pyexpat` extension is built using an included copy of the expat sources unless the build is configured ``--with-system-expat``::

```
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
                    and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

libffi

The :mod:`_ctypes` extension is built using an included copy of the libffi sources unless the build is configured ``--with-system-libffi``::

```
Copyright (c) 1996-2008  Red Hat, Inc and others.
```

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
``Software''), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED ``AS IS'', WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER
DEALINGS IN THE SOFTWARE.

zlib

The :mod:`zlib` extension is built using an included copy of the zlib
sources if the zlib version found on the system is too old to be
used for the build::

Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied
warranty. In no event will the authors be held liable for any damages
arising from the use of this software.

Permission is granted to anyone to use this software for any purpose,
including commercial applications, and to alter it and redistribute it
freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
   claim that you wrote the original software. If you use this software
   in a product, an acknowledgment in the product documentation would be
   appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.780 libassuan 2.2.1

1.780.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for
software and other kinds of works.

The licenses for most software and other practical works are designed
to take away your freedom to share and change the works. By contrast,
the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
software for all its users. We, the Free Software Foundation, use the
GNU General Public License for most of our software; it applies also to
any other work released this way by its authors. You can apply it to

your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source

form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the

terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as

long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent

the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of

it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the

form of a separately written license, or stated as exceptions;
the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license,

and the Corresponding Source of the work is not available for anyone
to copy, free of charge and under the terms of this License, through a
publicly available network server or other readily accessible means,
then you must either (1) cause the Corresponding Source to be so
available, or (2) arrange to deprive yourself of the benefit of the
patent license for this particular work, or (3) arrange, in a manner
consistent with the requirements of this License, to extend the patent
license to downstream recipients. "Knowingly relying" means you have
actual knowledge that, but for the patent license, your conveying the
covered work in a country, or your recipient's use of the covered work
in a country, would infringe one or more identifiable patents in that
country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or
arrangement, you convey, or propagate by procuring conveyance of, a
covered work, and grant a patent license to some of the parties
receiving the covered work authorizing them to use, propagate, modify
or convey a specific copy of the covered work, then the patent license
you grant is automatically extended to all recipients of the covered
work and works based on it.

A patent license is "discriminatory" if it does not include within
the scope of its coverage, prohibits the exercise of, or is
conditioned on the non-exercise of one or more of the rights that are
specifically granted under this License. You may not convey a covered
work if you are a party to an arrangement with a third party that is
in the business of distributing software, under which you make payment
to the third party based on the extent of your activity of conveying
the work, and under which the third party grants, to any of the
parties who would receive the covered work from you, a discriminatory
patent license (a) in connection with copies of the covered work
conveyed by you (or copies made from those copies), or (b) primarily
for and in connection with specific products or compilations that
contain the covered work, unless you entered into that arrangement,
or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting
any implied license or other defenses to infringement that may
otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or
otherwise) that contradict the conditions of this License, they do not
excuse you from the conditions of this License. If you cannot convey a
covered work so as to satisfy simultaneously your obligations under this
License and any other pertinent obligations, then as a consequence you may
not convey it at all. For example, if you agree to terms that obligate you

to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public

Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be

consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a

fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or

distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or

your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.781 mgo 2.0.0-20190816093944-a6b53ec6cb22

1.781.1 Available under license :

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
mgo - MongoDB driver for Go

Copyright (c) 2010-2013 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
BSON library for Go

Copyright (c) 2010-2012 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.782 mtd-utils 1.2.1

1.782.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

1.783 x-term 0.5.0

1.783.1 Available under license :

Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

1.784 go-radix 1.0.0

1.784.1 Available under license :

The MIT License (MIT)

Copyright (c) 2014 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

1.785 sysklogd 1.5.1

1.785.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
675 Mass Ave, Cambridge, MA 02139, USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you

have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES

PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.786 gnutls 3.3.5

1.786.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that

any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy,

and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library

with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if

the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute
the Library except as expressly provided under this License. Any

attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing

to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates
the terms and conditions of version 3 of the GNU General Public
License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser
General Public License, and the "GNU GPL" refers to version 3 of the GNU
General Public License.

"The Library" refers to a covered work governed by this License,
other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided
by the Library, but which is not otherwise based on the Library.
Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
Version".

The "Minimal Corresponding Source" for a Combined Work means the
Corresponding Source for the Combined Work, excluding any source code
for portions of the Combined Work that, considered in isolation, are
based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are

covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based

on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

==========

Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL project. The module is, however, dual licensed under OpenSSL and CRYPTOGAMS licenses depending on where you obtain it. For further details see https://www.openssl.org/~appro/cryptogams/.

==========

Copyright (c) 2006-2012, CRYPTOGAMS by <appro@openssl.org>
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain copyright notices, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of the CRYPTOGAMS nor the names of its copyright holder and contributors may be used to endorse or promote products derived from this software without specific prior written permission.

ALTERNATIVELY, provided that this notice is retained in full, this product may be distributed under the terms of the GNU General Public License (GPL), in which case the provisions of the GPL apply INSTEAD OF those given above.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY

THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```
##############################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
## Public domain.
##
## For details see https://shiftleft.org/papers/vector_aes/ and
## https://crypto.stanford.edu/vpaes/.
```

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 1992-2015 by Bruce Korb - all rights reserved
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether

gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system

(if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no

permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the

Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright

holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation

(including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a

covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) by Bruce Korb - all rights reserved

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) by Bruce Korb - all rights reserved
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.
LICENSING
=========

Since GnuTLS version 3.1.10, the core library is released under
the GNU Lesser General Public License (LGPL) version 2.1 or later
(see doc/COPYING.LESSER for the license terms).

The GNU LGPL applies to the main GnuTLS library, while the
included applications as well as gnutls-openssl
library are under the GNU GPL version 3. The gnutls library is
located in the lib/ and libdane/ directories, while the applications
in src/ and, the gnutls-openssl library is at extra/.

The documentation in doc/ is under the GNU FDL license 1.3.

Note, however, that the nettle and the gmp libraries which are
GnuTLS dependencies, they are distributed under a LGPLv3+ or GPLv2+ dual
license. As such binaries linking to them need to adhere to either LGPLv3+
or the GPLv2+ license.

For any copyright year range specified as YYYY-ZZZZ in this package
note that the range specifies every single year in that closed interval.
The MIT License (MIT)

Copyright (c) 2016 Wrymouth Innovation Ltd

Permission is hereby granted, free of charge, to any person obtaining a
copy of this software and associated documentation files (the "Software"),
to deal in the Software without restriction, including without limitation
the rights to use, copy, modify, merge, publish, distribute, sublicense,
and/or sell copies of the Software, and to permit persons to whom the

Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included
in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s) (each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;
moral rights retained by the original author(s) and/or performer(s);
publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;
rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;
rights protecting the extraction, dissemination, use and reuse of data in a Work;
database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and
other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly,

fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <https://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this

License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and

propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may

otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any

author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.787 richardlehane-mscfb 1.0.3

1.787.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or

Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.788 rcrowley-go-metrics 0.0.0-20200313005456-10cdbea86bc0

1.788.1 Available under license :

Copyright 2012 Richard Crowley. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above
   copyright notice, this list of conditions and the following
   disclaimer in the documentation and/or other materials provided
   with the distribution.

THIS SOFTWARE IS PROVIDED BY RICHARD CROWLEY ``AS IS'' AND ANY EXPRESS
OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL RICHARD CROWLEY OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF
THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation
are those of the authors and should not be interpreted as representing
official policies, either expressed or implied, of Richard Crowley.

1.789 eudev 3.2.7

1.789.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain

that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and

distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections

1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

1.790 gmp 6.1.2

1.790.1 Available under license :

GNU GENERAL PUBLIC LICENSE
Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.,
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the

source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty;

and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under

the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY

YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this

License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A

"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10

makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7

additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord

with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the

User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or

author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a)

provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may

not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the

combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS),

EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.

This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see <http://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.

0. Additional Definitions.

As used herein, "this License" refers to version 3 of the GNU Lesser General Public License, and the "GNU GPL" refers to version 3 of the GNU General Public License.

"The Library" refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.

An "Application" is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:

a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or

b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.

b) Accompany the Combined Work with a copy of the GNU GPL and this license document.

c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.

d) Do one of the following:

0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.

1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.

b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.

If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we

stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2)

tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code;

keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License,

in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any

tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this

License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this

License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or

modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and

propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may

otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any

author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see <https://www.gnu.org/licenses/>.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<https://www.gnu.org/licenses/>.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
<https://www.gnu.org/philosophy/why-not-lgpl.html>.

1.791 go-logr-stdr 1.2.2

1.791.1 Available under license :

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or

agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");

you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

1.792 vault-api 1.5.0

1.792.1 Available under license :

The Masterminds
Copyright (C) 2014-2015, Matt Butcher and Matt Farina

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2013 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Jeff Chao

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the

direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of

this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and

wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor

has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

SOFTWARE DISTRIBUTED WITH FOUNDATIONDB:

The FoundationDB software includes a number of subcomponents with separate
copyright notices and license terms - please see the file ACKNOWLEDGEMENTS.

Copyright (C) 2013 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the

"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2016, The Gocql authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of the copyright holder nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 Pter Surnyi. Portions Copyright (c) 2009 The Go
Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are

met:

  * Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
  * Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2011-2015 Michael Mitton (mmitton@gmail.com)
Portions copyright (c) 2015-2016 go-ldap Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
This is the official list of people who can contribute
(and typically have contributed) code to the repository.
The AUTHORS file lists the copyright holders; this file

```
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
#     https://cla.developers.google.com/about/google-individual
#     https://cla.developers.google.com/about/google-corporate
#
# The CLA can be filled out on the web:
#
#     https://cla.developers.google.com/
#
# When adding J Random Contributor's name to this file,
# either J's name or J's organization's name should be
# added to the AUTHORS file, depending on whether the
# individual or corporate CLA was used.

# Names should be added to this file like so:
#     Name <email address>
#
# An entry with two email addresses specifies that the
# first address should be used in the submit logs and
# that the second address should be recognized as the
# same person when interacting with Rietveld.

# Please keep the list sorted.

Alain Vongsouvanhalainv <alainv@google.com>
Andrew Gerrand <adg@golang.org>
Brad Fitzpatrick <bradfitz@golang.org>
Eric Koleda <ekoleda+devrel@googlers.com>
Francesc Campoy <campoy@golang.org>
Garrick Evans <garrick@google.com>
Glenn Lewis <gmlewis@google.com>
Ivan Krasin <krasin@golang.org>
Jason Hall <jasonhall@google.com>
Johan Euphrosine <proppy@google.com>
Kostik Shtoyk <kostik@google.com>
Kunpei Sakai <namusyaka@gmail.com>
Matthew Whisenhunt <matt.whisenhunt@gmail.com>
Michael McGreevy <mcgreevy@golang.org>
Nick Craig-Wood <nickcw@gmail.com>
Robbie Trencheny <me@robbiet.us>
```

Ross Light <light@google.com>
Sarah Adams <shadams@google.com>
Scott Van Woudenberg <scottvw@google.com>
Takashi Matsuo <tmatsuo@google.com>
MIT License

Copyright (c) 2019 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
Copyright (c) 2009 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,

DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2014 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2016 Andrew J. Gillis

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2011 The Snappy-Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2013 Ben Johnson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (C) 2013-2018 by Maxim Bublis <b@codemonkey.ru>

Permission is hereby granted, free of charge, to any person obtaining

a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2012, Neal van Veen (nealvanveen@gmail.com)
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR
ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The views and conclusions contained in the software and documentation are those
of the authors and should not be interpreted as representing official policies,
either expressed or implied, of the FreeBSD Project.
The MIT License (MIT)

Copyright (c) 2015 Microsoft

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Mozilla Public License Version 2.0
==========

1. Definitions

1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct

or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code

Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with

the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
```

```
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.        *
*                                                                      *
************************************************************************

************************************************************************
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter

shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as
defined by the Mozilla Public License, v. 2.0.
MIT License

Copyright (c) 2017 HashiCorp

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the

Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside

or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
# This is the official list of people who can contribute
# (and typically have contributed) code to the Snappy-Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people.  For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# The submission process automatically checks to make sure
# that people submitting code are listed in this file (by email address).
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
```

http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Damian Gryski <dgryski@gmail.com>
Jan Mercl <0xjnml@gmail.com>
Kai Backman <kaib@golang.org>
Marc-Antoine Ruel <maruel@chromium.org>
Nigel Tao <nigeltao@golang.org>
Rob Pike <r@golang.org>
Rodolfo Carvalho <rhcarvalho@gmail.com>
Russ Cox <rsc@golang.org>
Sebastien Binet <seb.binet@gmail.com>
The MIT License (MIT)

Copyright (c) 2014 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (c) 2016, Circonus, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
  copyright notice, this list of conditions and the following
  disclaimer in the documentation and/or other materials provided
  with the distribution.
* Neither the name Circonus, Inc. nor the names
  of its contributors may be used to endorse or promote products
  derived from this software without specific prior written
  permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2013 Joshua Tacoma

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
This is a list of people who have contributed code to go-cache. They, or their
employers, are the copyright holders of the contributed code. Contributed code
is subject to the license restrictions listed in LICENSE (as they were when the
code was contributed.)

Dustin Sallings <dustin@spy.net>
Jason Mooberry <jasonmoo@me.com>
Sergey Shepelev <temotor@gmail.com>
Alex Edwards <ajmedwards@gmail.com>

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes

of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You

meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,

except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2013 The go-github AUTHORS. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
MIT License

Copyright 2015-2017 Daniel Nichter

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER

LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2010 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2013, The GoGo Authors. All rights reserved.

Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

Copyright 2010 The Go Authors. All rights reserved.
https://github.com/golang/protobuf

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the

distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2014 Fatih Arslan

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.
MIT LICENSE

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be

included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2015 Bitly

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015 Conrad Irwin <conrad@bugsnag.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2013-2018 InfluxData Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Ryan Uber

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,

and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or
Object form, made available under the License, as indicated by a
copyright notice that is included in or attached to the work
(an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object
form, that is based on (or derived from) the Work and for which the
editorial revisions, annotations, elaborations, or other modifications
represent, as a whole, an original work of authorship. For the purposes
of this License, Derivative Works shall not include works that remain
separable from, or merely link (or bind by name) to the interfaces of,
the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including
the original version of the Work and any modifications or additions
to that Work or Derivative Works thereof, that is intentionally
submitted to Licensor for inclusion in the Work by the copyright owner
or by an individual or Legal Entity authorized to submit on behalf of
the copyright owner. For the purposes of this definition, "submitted"
means any form of electronic, verbal, or written communication sent
to the Licensor or its representatives, including but not limited to
communication on electronic mailing lists, source code control systems,
and issue tracking systems that are managed by, or on behalf of, the

Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory,

whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2015-Present CloudFoundry.org Foundation, Inc. All Rights Reserved.

This project contains software that is Copyright (c) 2014-2015 Pivotal Software, Inc.

This project is licensed to you under the Apache License, Version 2.0 (the "License").

You may not use this project except in compliance with the License.

This project may include a number of subcomponents with separate copyright notices
and license terms. Your use of these subcomponents is subject to the terms and
conditions of the subcomponent's license, as noted in the LICENSE file.
The MIT License (MIT)

Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
Copyright (c) 2015, Dave Cheney <dave@cheney.net>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE

DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright 2011-2016 Canonical Ltd.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
The MIT License (MIT)

Copyright (c) 2016 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Data model artifacts for Prometheus.
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
MIT License

Copyright (c) 2016 json-iterator

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made,

use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions

for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability

incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2016 The Linux Foundation.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Prometheus instrumentation library for Go applications
Copyright 2012-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

The following components are included in this product:

perks - a fork of https://github.com/bmizerany/perks
https://github.com/beorn7/perks
Copyright 2013-2015 Blake Mizerany, Bjrn Rabenstein
See https://github.com/beorn7/perks/blob/master/README.md for license details.

Go support for Protocol Buffers - Google's data interchange format
http://github.com/golang/protobuf/
Copyright 2010 The Go Authors
See source code for license details.

Support for streaming Protocol Buffer messages for the Go language (golang).
https://github.com/matttproud/golang_protobuf_extensions
Copyright 2013 Matt T. Proud
Licensed under the Apache License, Version 2.0
Copyright 2017 Centrify Corporation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
AWS SDK for Go
Copyright 2015 Amazon.com, Inc. or its affiliates. All Rights Reserved.
Copyright 2014-2015 Stripe, Inc.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate

as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify

the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2015 Microsoft Corporation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2014, Elazar Leibovich
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR
SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,
OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2014 Alex Saskevich

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Proprietary License

This license is temporary while a more official one is drafted. However, this should make it clear:

The text contents of this website are MPL 2.0 licensed.

The design contents of this website are proprietary and may not be reproduced or reused in any way other than to run the website locally. The license for the design is owned solely by HashiCorp, Inc.

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2016 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Apache License

Version 2.0, January 2004

http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Common libraries shared by Prometheus Go components.
Copyright 2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).

The MIT License (MIT)

Copyright (c) 2014 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS
FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License

Copyright (c) 2017 Long Nguyen

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at https://tip.golang.org/CONTRIBUTORS.
Copyright (c) 2011-2013, 'pq' Contributors
Portions Copyright (C) 2011 Blake Mizerany

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
ISC License

Copyright (c) 2012-2016 Dave Collins <dave@davec.name>

Permission to use, copy, modify, and/or distribute this software for any
purpose with or without fee is hereby granted, provided that the above
copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright 2016, Google Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The MIT License (MIT)

Copyright (c) 2014 Simon Eskildsen

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2014 Ashley Jeffs

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MIT License

Copyright (c) 2012-2018 Mat Ryer and Tyler Bunnell

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

This source code was written by the Go contributors.
The master list of contributors is in the main Go distribution,
visible at http://tip.golang.org/CONTRIBUTORS.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of,

the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016-2017 The New York Times Company

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
otp
Copyright (c) 2014, Paul Querna

This product includes software developed by
Paul Querna (http://paul.querna.org/).
Copyright (C) 2012 by Nick Craig-Wood http://www.craig-wood.com/nick/

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
---
layout: "api"
page_title: "/sys/license - HTTP API"
sidebar_title: "<code>/sys/license</code>"
sidebar_current: "api-http-system-license"
description: |-
 The `/sys/license` endpoint is used to view and update the license used in
 Vault.

`/sys/license`

~> **Enterprise Only** These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

Read License

This endpoint returns information about the currently installed license.

Method	Path
`GET`	`/sys/license`

Sample Request

```
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
```

Sample Response

```json
{
 "data": {
   "expiration_time": "2017-11-14T16:34:36.546753-05:00",
   "features": [
     "UI",
     "HSM",
     "Performance Replication",
     "DR Replication"
   ],
   "license_id": "temporary",
   "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": [
   "time left on license is 29m33s"
 ]
}
```

Install License

This endpoint is used to install a license into Vault.

Method	Path

| `PUT` | `/sys/license` |

Parameters

- `text` `(string: <required>)` The text of the license.

DR Secondary Specific Parameters

 - `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.

Sample Payload

```json
{
 "text": "01ABCDEFG..."
}
```

Sample Request

```
$ curl \
   --header "X-Vault-Token: ..." \
   --request PUT \
   --data @payload.json \
   http://127.0.0.1:8200/v1/sys/license
```

Copyright (c) 2013-2018, go-dockerclient authors
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

 * Redistributions of source code must retain the above copyright notice,
this list of conditions and the following disclaimer.
 * Redistributions in binary form must reproduce the above copyright notice,
this list of conditions and the following disclaimer in the documentation
and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY,

OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2013 Jack Christensen

MIT License

Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files (the
"Software"), to deal in the Software without restriction, including
without limitation the rights to use, copy, modify, merge, publish,
distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to
the following conditions:

The above copyright notice and this permission notice shall be
included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE
LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION
OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The following files were ported to Go from C files of libyaml, and thus
are still covered by their original copyright and license:

apic.go
emitterc.go
parserc.go
readerc.go
scannerc.go
writerc.go
yamlh.go
yamlprivateh.go

Copyright (c) 2006 Kirill Simonov

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies
of the Software, and to permit persons to whom the Software is furnished to do
so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Gengo, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
  this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

* Neither the name of Gengo, Inc. nor the names of its
  contributors may be used to endorse or promote products derived from this
  software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Attribution-ShareAlike 4.0 International

==========

Creative Commons Corporation ("Creative Commons") is not a law firm and does not provide legal services or legal advice. Distribution of Creative Commons public licenses does not create a lawyer-client or other relationship. Creative Commons makes its licenses and related information available on an "as-is" basis. Creative Commons gives no warranties regarding its licenses, any material licensed under their terms and conditions, or any related information. Creative Commons disclaims all liability for damages resulting from their use to the fullest extent possible.

Using Creative Commons Public Licenses

Creative Commons public licenses provide a standard set of terms and conditions that creators and other rights holders may use to share original works of authorship and other material subject to copyright and certain other rights specified in the public license below. The following considerations are for informational purposes only, are not exhaustive, and do not form part of our licenses.

Considerations for licensors: Our public licenses are intended for use by those authorized to give the public permission to use material in ways otherwise restricted by copyright and certain other rights. Our licenses are irrevocable. Licensors should read and understand the terms and conditions of the license they choose before applying it. Licensors should also secure all rights necessary before applying our licenses so that the public can reuse the material as expected. Licensors should clearly mark any material not subject to the license. This includes other CC-licensed material, or material used under an exception or limitation to copyright. More considerations for licensors: wiki.creativecommons.org/Considerations_for_licensors

Considerations for the public: By using one of our public licenses, a licensor grants the public permission to use the licensed material under specified terms and conditions. If the licensor's permission is not necessary for any reason--for example, because of any applicable exception or limitation to copyright--then that use is not regulated by the license. Our licenses grant only permissions under copyright and certain other rights that a licensor has authority to grant. Use of the licensed material may still be restricted for other reasons, including because others have copyright or other rights in the material. A licensor may make special requests, such as asking that all changes be marked or described. Although not required by our licenses, you are encouraged to respect those requests where reasonable. More_considerations for the public: wiki.creativecommons.org/Considerations_for_licensees

==========

Creative Commons Attribution-ShareAlike 4.0 International Public License

By exercising the Licensed Rights (defined below), You accept and agree to be bound by the terms and conditions of this Creative Commons Attribution-ShareAlike 4.0 International Public License ("Public

License"). To the extent this Public License may be interpreted as a contract, You are granted the Licensed Rights in consideration of Your acceptance of these terms and conditions, and the Licensor grants You such rights in consideration of benefits the Licensor receives from making the Licensed Material available under these terms and conditions.

Section 1 -- Definitions.

a. Adapted Material means material subject to Copyright and Similar Rights that is derived from or based upon the Licensed Material and in which the Licensed Material is translated, altered, arranged, transformed, or otherwise modified in a manner requiring permission under the Copyright and Similar Rights held by the Licensor. For purposes of this Public License, where the Licensed Material is a musical work, performance, or sound recording, Adapted Material is always produced where the Licensed Material is synched in timed relation with a moving image.

b. Adapter's License means the license You apply to Your Copyright and Similar Rights in Your contributions to Adapted Material in accordance with the terms and conditions of this Public License.

c. BY-SA Compatible License means a license listed at creativecommons.org/compatiblelicenses, approved by Creative Commons as essentially the equivalent of this Public License.

d. Copyright and Similar Rights means copyright and/or similar rights closely related to copyright including, without limitation, performance, broadcast, sound recording, and Sui Generis Database Rights, without regard to how the rights are labeled or categorized. For purposes of this Public License, the rights specified in Section 2(b)(1)-(2) are not Copyright and Similar Rights.

e. Effective Technological Measures means those measures that, in the absence of proper authority, may not be circumvented under laws fulfilling obligations under Article 11 of the WIPO Copyright Treaty adopted on December 20, 1996, and/or similar international agreements.

f. Exceptions and Limitations means fair use, fair dealing, and/or any other exception or limitation to Copyright and Similar Rights that applies to Your use of the Licensed Material.

g. License Elements means the license attributes listed in the name of a Creative Commons Public License. The License Elements of this

Public License are Attribution and ShareAlike.

h. Licensed Material means the artistic or literary work, database, or other material to which the Licensor applied this Public License.

i. Licensed Rights means the rights granted to You subject to the terms and conditions of this Public License, which are limited to all Copyright and Similar Rights that apply to Your use of the Licensed Material and that the Licensor has authority to license.

j. Licensor means the individual(s) or entity(ies) granting rights under this Public License.

k. Share means to provide material to the public by any means or process that requires permission under the Licensed Rights, such as reproduction, public display, public performance, distribution, dissemination, communication, or importation, and to make material available to the public including in ways that members of the public may access the material from a place and at a time individually chosen by them.

l. Sui Generis Database Rights means rights other than copyright resulting from Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, as amended and/or succeeded, as well as other essentially equivalent rights anywhere in the world.

m. You means the individual or entity exercising the Licensed Rights under this Public License. Your has a corresponding meaning.

Section 2 -- Scope.

a. License grant.

1. Subject to the terms and conditions of this Public License, the Licensor hereby grants You a worldwide, royalty-free, non-sublicensable, non-exclusive, irrevocable license to exercise the Licensed Rights in the Licensed Material to:

   a. reproduce and Share the Licensed Material, in whole or in part; and

   b. produce, reproduce, and Share Adapted Material.

2. Exceptions and Limitations. For the avoidance of doubt, where Exceptions and Limitations apply to Your use, this Public

License does not apply, and You do not need to comply with its terms and conditions.

3. Term. The term of this Public License is specified in Section 6(a).

4. Media and formats; technical modifications allowed. The Licensor authorizes You to exercise the Licensed Rights in all media and formats whether now known or hereafter created, and to make technical modifications necessary to do so. The Licensor waives and/or agrees not to assert any right or authority to forbid You from making technical modifications necessary to exercise the Licensed Rights, including technical modifications necessary to circumvent Effective Technological Measures. For purposes of this Public License, simply making modifications authorized by this Section 2(a)(4) never produces Adapted Material.

5. Downstream recipients.

   a. Offer from the Licensor -- Licensed Material. Every recipient of the Licensed Material automatically receives an offer from the Licensor to exercise the Licensed Rights under the terms and conditions of this Public License.

   b. Additional offer from the Licensor -- Adapted Material. Every recipient of Adapted Material from You automatically receives an offer from the Licensor to exercise the Licensed Rights in the Adapted Material under the conditions of the Adapter's License You apply.

   c. No downstream restrictions. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, the Licensed Material if doing so restricts exercise of the Licensed Rights by any recipient of the Licensed Material.

6. No endorsement. Nothing in this Public License constitutes or may be construed as permission to assert or imply that You are, or that Your use of the Licensed Material is, connected with, or sponsored, endorsed, or granted official status by, the Licensor or others designated to receive attribution as provided in Section 3(a)(1)(A)(i).

b. Other rights.

1. Moral rights, such as the right of integrity, are not licensed under this Public License, nor are publicity, privacy, and/or other similar personality rights; however, to the extent possible, the Licensor waives and/or agrees not to assert any such rights held by the Licensor to the limited extent necessary to allow You to exercise the Licensed Rights, but not otherwise.

2. Patent and trademark rights are not licensed under this Public License.

3. To the extent possible, the Licensor waives any right to collect royalties from You for the exercise of the Licensed Rights, whether directly or through a collecting society under any voluntary or waivable statutory or compulsory licensing scheme. In all other cases the Licensor expressly reserves any right to collect such royalties.

Section 3 -- License Conditions.

Your exercise of the Licensed Rights is expressly made subject to the following conditions.

a. Attribution.

1. If You Share the Licensed Material (including in modified form), You must:

a. retain the following if it is supplied by the Licensor with the Licensed Material:

i. identification of the creator(s) of the Licensed Material and any others designated to receive attribution, in any reasonable manner requested by the Licensor (including by pseudonym if designated);

ii. a copyright notice;

iii. a notice that refers to this Public License;

iv. a notice that refers to the disclaimer of warranties;

v. a URI or hyperlink to the Licensed Material to the extent reasonably practicable;

b. indicate if You modified the Licensed Material and retain an indication of any previous modifications; and

c. indicate the Licensed Material is licensed under this Public License, and include the text of, or the URI or hyperlink to, this Public License.

2. You may satisfy the conditions in Section 3(a)(1) in any reasonable manner based on the medium, means, and context in which You Share the Licensed Material. For example, it may be reasonable to satisfy the conditions by providing a URI or hyperlink to a resource that includes the required information.

3. If requested by the Licensor, You must remove any of the information required by Section 3(a)(1)(A) to the extent reasonably practicable.

b. ShareAlike.

In addition to the conditions in Section 3(a), if You Share Adapted Material You produce, the following conditions also apply.

1. The Adapter's License You apply must be a Creative Commons license with the same License Elements, this version or later, or a BY-SA Compatible License.

2. You must include the text of, or the URI or hyperlink to, the Adapter's License You apply. You may satisfy this condition in any reasonable manner based on the medium, means, and context in which You Share Adapted Material.

3. You may not offer or impose any additional or different terms or conditions on, or apply any Effective Technological Measures to, Adapted Material that restrict exercise of the rights granted under the Adapter's License You apply.

Section 4 -- Sui Generis Database Rights.

Where the Licensed Rights include Sui Generis Database Rights that apply to Your use of the Licensed Material:

a. for the avoidance of doubt, Section 2(a)(1) grants You the right to extract, reuse, reproduce, and Share all or a substantial portion of the contents of the database;

b. if You include all or a substantial portion of the database

contents in a database in which You have Sui Generis Database Rights, then the database in which You have Sui Generis Database Rights (but not its individual contents) is Adapted Material,

including for purposes of Section 3(b); and

c. You must comply with the conditions in Section 3(a) if You Share all or a substantial portion of the contents of the database.

For the avoidance of doubt, this Section 4 supplements and does not replace Your obligations under this Public License where the Licensed Rights include other Copyright and Similar Rights.

Section 5 -- Disclaimer of Warranties and Limitation of Liability.

a. UNLESS OTHERWISE SEPARATELY UNDERTAKEN BY THE LICENSOR, TO THE EXTENT POSSIBLE, THE LICENSOR OFFERS THE LICENSED MATERIAL AS-IS AND AS-AVAILABLE, AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE LICENSED MATERIAL, WHETHER EXPRESS, IMPLIED, STATUTORY, OR OTHER. THIS INCLUDES, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OR ABSENCE OF ERRORS, WHETHER OR NOT KNOWN OR DISCOVERABLE. WHERE DISCLAIMERS OF WARRANTIES ARE NOT ALLOWED IN FULL OR IN PART, THIS DISCLAIMER MAY NOT APPLY TO YOU.

b. TO THE EXTENT POSSIBLE, IN NO EVENT WILL THE LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE) OR OTHERWISE FOR ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, PUNITIVE, EXEMPLARY, OR OTHER LOSSES, COSTS, EXPENSES, OR DAMAGES ARISING OUT OF THIS PUBLIC LICENSE OR USE OF THE LICENSED MATERIAL, EVEN IF THE LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES, COSTS, EXPENSES, OR DAMAGES. WHERE A LIMITATION OF LIABILITY IS NOT ALLOWED IN FULL OR IN PART, THIS LIMITATION MAY NOT APPLY TO YOU.

c. The disclaimer of warranties and limitation of liability provided above shall be interpreted in a manner that, to the extent possible, most closely approximates an absolute disclaimer and waiver of all liability.

Section 6 -- Term and Termination.

a. This Public License applies for the term of the Copyright and Similar Rights licensed here. However, if You fail to comply with this Public License, then Your rights under this Public License terminate automatically.

b. Where Your right to use the Licensed Material has terminated under Section 6(a), it reinstates:

1. automatically as of the date the violation is cured, provided it is cured within 30 days of Your discovery of the violation; or

2. upon express reinstatement by the Licensor.

For the avoidance of doubt, this Section 6(b) does not affect any right the Licensor may have to seek remedies for Your violations of this Public License.

c. For the avoidance of doubt, the Licensor may also offer the Licensed Material under separate terms or conditions or stop distributing the Licensed Material at any time; however, doing so will not terminate this Public License.

d. Sections 1, 5, 6, 7, and 8 survive termination of this Public License.

Section 7 -- Other Terms and Conditions.

a. The Licensor shall not be bound by any additional or different terms or conditions communicated by You unless expressly agreed.

b. Any arrangements, understandings, or agreements regarding the Licensed Material not stated herein are separate from and independent of the terms and conditions of this Public License.

Section 8 -- Interpretation.

a. For the avoidance of doubt, this Public License does not, and shall not be interpreted to, reduce, limit, restrict, or impose conditions on any use of the Licensed Material that could lawfully be made without permission under this Public License.

b. To the extent possible, if any provision of this Public License is deemed unenforceable, it shall be automatically reformed to the minimum extent necessary to make it enforceable. If the provision cannot be reformed, it shall be severed from this Public License without affecting the enforceability of the remaining terms and conditions.

c. No term or condition of this Public License will be waived and no

failure to comply consented to unless expressly agreed to by the Licensor.

d. Nothing in this Public License constitutes or may be interpreted as a limitation upon, or waiver of, any privileges and immunities that apply to the Licensor or You, including from the legal processes of any jurisdiction or authority.

==========

Creative Commons is not a party to its public licenses. Notwithstanding, Creative Commons may elect to apply one of its public licenses to material it publishes and in those instances will be considered the "Licensor." Except for the limited purpose of indicating that material is shared under a Creative Commons public license or as otherwise permitted by the Creative Commons policies published at creativecommons.org/policies, Creative Commons does not authorize the use of the trademark "Creative Commons" or any other trademark or logo of Creative Commons without its prior written consent including, without limitation, in connection with any unauthorized modifications to any of its public licenses or any other arrangements, understandings, or agreements concerning use of licensed material. For the avoidance of doubt, this paragraph does not form part of the public licenses.

Creative Commons may be contacted at creativecommons.org.
Copyright (c) 2011 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
mgo - MongoDB driver for Go

Copyright (c) 2010-2013 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
BSON library for Go

Copyright (c) 2010-2012 - Gustavo Niemeyer <gustavo@niemeyer.net>

All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this
  list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice,
  this list of conditions and the following disclaimer in the documentation
  and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing
the Work or Derivative Works thereof, You may choose to offer,
and charge a fee for, acceptance of support, warranty, indemnity,
or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only
on Your own behalf and on Your sole responsibility, not on behalf
of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright 2014 Docker, Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2016-2017 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright (c) 2013-2017, Michael Klishin
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this
list of conditions and the following disclaimer in the documentation and/or
other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2012-2015 Ugorji Nwoke.
All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent

to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work,

excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the
origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or
agreed to in writing, Licensor provides the Work (and each
Contributor provides its Contributions) on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied, including, without limitation, any warranties or conditions
of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A
PARTICULAR PURPOSE. You are solely responsible for determining the
appropriateness of using or redistributing the Work and assume any

risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2014 The Camlistore Authors

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) Yasuhiro MATSUMOTO <mattn.jp@gmail.com>

MIT License (Expat)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation

source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable

(except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify,

defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2013-2015 Tommi Virtanen.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN

```
THE SOFTWARE.
<PageHeader as |p|>
 <p.levelLeft>
   <h1 class="title is-3">License</h1>
 </p.levelLeft>
</PageHeader>
<MessageError @model={{model}} />
{{#if isTemporary}}
 <section class="box is-sideless is-fullwidth">
   <AlertBanner
     @type="warning"
     @message="Your temporary license expires in {{date-from-now expirationTime}} and your vault will seal.
Please enter a valid license below."
     @class="license-warning"
     data-test-cluster-status
     data-test-warning-text
   />
   <span class="title is-5" data-test-temp-license>Temporary license</span>
   <form {{action "saveModel" text on="submit"}}>
     <div class="box is-shadowless is-fullwidth is-marginless">
       <div class="field">
         <label for="license-id" class="is-label">License</label>
         <div class="control">
           {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
         </div>
       </div>
     </div>
     <div class="field">
       <div class="control">
         <button type="submit" class="button is-primary" data-test-save-button>Save</button>
       </div>
     </div>
   </form>
 </section>
{{else}}
 <section class="box is-sideless is-fullwidth">
   <span class="title is-5">Details</span>
   {{#if showForm}}
     <form {{action "saveModel" text on="submit"}}>
       <div class="field">
         <label for="license-id" class="is-label">License</label>
         <div class="control">
           {{input id="license-id" value=text autocomplete="off" class="input" data-test-text-input="data-test-text-
input"}}
         </div>
       </div>
       <div class="field is-grouped">
```

```
        <div class="control">
          <button type="submit" class="button is-primary" data-test-save-button>Save</button>
        </div>
        <div class="control">
          <button type="button" {{action "toggleForm"}} class="button" data-test-cancel-button>Cancel</button>
        </div>
      </div>
    </form>
  {{else}}
    <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
      {{info-table-row label="License ID" value=licenseId}}
      {{#info-table-row label="Valid from" value=startTime}}
        {{date-format model.startTime 'MMM DD, YYYY hh:mm:ss A'}} to {{date-format expirationTime 'MMM
DD, YYYY hh:mm:ss A'}}
      {{/info-table-row}}
    </div>
    <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
      <div class="control">
        <button type="button" {{action "toggleForm"}} class="button" data-test-enter-button>Enter new
license</button>
      </div>
    </div>
  {{/if}}
  </section>
 {{/if}}
<section class="box is-sideless is-marginless is-shadowless is-fullwidth">
 <span class="title is-5">Features</span>
 <div class="field box is-fullwidth is-shadowless is-paddingless is-marginless">
  {{#each featuresInfo as |info|}}
    {{#info-table-row label=info.name value=(if info.active "Active" "Not Active") data-test-feature-row="data-test-
feature-row"}}
      {{#if info.active}}
      <Icon
        @glyph="check-circle-outline"
        @size="l"
        class="icon-true"
        aria-hidden="true"
      /><span data-test-feature-status>Active {{#if info.count}}&mdash;
       {{info.count}} standby nodes allotted{{/if}}</span>
      {{else}}
        <Icon
          @glyph="cancel-circle-outline"
          @size="l"
          class="icon-false"
          aria-hidden="true"
        /><span data-test-feature-status>Not Active</span>
      {{/if}}
    {{/info-table-row}}
```

{{/each}}

</section>

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain

separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or
Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices
stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works
that You distribute, all copyright, patent, trademark, and
attribution notices from the Source form of the Work,
excluding those notices that do not pertain to any part of
the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its
distribution, then any Derivative Works that You distribute must
include a readable copy of the attribution notices contained
within such NOTICE file, excluding those notices that do not
pertain to any part of the Derivative Works, in at least one
of the following places: within a NOTICE text file distributed
as part of the Derivative Works; within the Source form or
documentation, if provided along with the Derivative Works; or,
within a display generated by the Derivative Works, if and
wherever such third-party notices normally appear. The contents
of the NOTICE file are for informational purposes only and
do not modify the License. You may add Your own attribution
notices within Derivative Works that You distribute, alongside
or as an addendum to the NOTICE text from the Work, provided
that such additional attribution notices cannot be construed
as modifying the License.

You may add Your own copyright statement to Your modifications and
may provide additional or different license terms and conditions
for use, reproduction, or distribution of Your modifications, or
for any such Derivative Works as a whole, provided Your use,
reproduction, and distribution of the Work otherwise complies with
the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise,
any Contribution intentionally submitted for inclusion in the Work
by You to the Licensor shall be under the terms and conditions of
this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify
the terms of any separate license agreement you may have executed
with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade
names, trademarks, service marks, or product names of the Licensor,
except as required for reasonable and customary use in describing the

origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2016 Microsoft Corporation

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright (c) 2013, Samuel Stauffer <samuel@descolada.com>
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
 notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright
 notice, this list of conditions and the following disclaimer in the
 documentation and/or other materials provided with the distribution.
* Neither the name of the author nor the
 names of its contributors may be used to endorse or promote products
 derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED
WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL <COPYRIGHT HOLDER> BE LIABLE FOR ANY
DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer

in the documentation and/or other materials provided with the
distribution.
  * Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
runc

Copyright 2012-2015 Docker, Inc.

This product includes software developed at Docker, Inc. (http://www.docker.com).

The following is courtesy of our legal counsel:

Use and transfer of Docker may be subject to certain restrictions by the
United States and other governments.
It is your responsibility to ensure that your use and/or transfer does not
violate applicable laws.

For more information, please see http://www.bis.doc.gov

See also http://www.apache.org/dev/crypto.html and/or seek legal counsel.
Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and
distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright
owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to

offer, and charge a fee for, acceptance of support, warranty, indemnity, or
other liability obligations and/or rights consistent with this License. However,
in accepting such obligations, You may act only on Your own behalf and on Your
sole responsibility, not on behalf of any other Contributor, and only if You
agree to indemnify, defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason of your
accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate
notice, with the fields enclosed by brackets "[]" replaced with your own
identifying information. (Don't include the brackets!) The text should be
enclosed in the appropriate comment syntax for the file format. We also
recommend that a file or class name and description of purpose be included on
the same "printed page" as the copyright notice for easier identification within
third-party archives.

Copyright 2014 Unknwon

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

```
<LicenseInfo
 @startTime={{model.startTime}}
 @expirationTime={{model.expirationTime}}
 @licenseId={{model.licenseId}}
 @features={{model.features}}
 @text={{model.text}}
 @saveModel={{action "saveModel"}}
 @model={{model}}
/>
```

The MIT License (MIT)

Copyright (c) 2016 Yasuhiro Matsumoto

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License

Copyright (c) 2017 Eyal Posener

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2015, Duo Security, Inc.
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions
are met:

1. Redistributions of source code must retain the above copyright
   notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright
   notice, this list of conditions and the following disclaimer in the
   documentation and/or other materials provided with the distribution.

3. The name of the author may not be used to endorse or promote products
derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
The MIT License (MIT)

Copyright (c) 2013 Armon Dadgar

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2016 Circonus, Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name Circonus, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Paul Borman <borman@google.com>
bmatsuo
shawnps
theory
jboverfelt
dsymonds
cd1
wallclockbuilder
dansouza

Apache License
Version 2.0, January 2004
https://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,

including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual,

worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf

of any other Contributor, and only if You agree to indemnify,
defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason
of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Copyright The containerd Authors

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

https://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The MIT License (MIT)

Copyright (c) 2011-2015 Michael Mitton (mmitton@gmail.com)
Portions copyright (c) 2015-2016 go-asn1-ber Authors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT)

Copyright (c) 2014 Sam Ghods

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal

in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright (c) 2012 The Go Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
MIT License

Copyright (c) [year] [fullname]

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner

or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions

of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Copyright (c) 2016 Uber Technologies, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

Copyright 2015 James Saryerwinnie

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

The MIT License (MIT)

Copyright (c) 2014 Cenk Alt

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in
the Software without restriction, including without limitation the rights to
use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of
the Software, and to permit persons to whom the Software is furnished to do so,
subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2014 Florian Sundermann

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
Copyright 2012 Matt T. Proud (matt.proud@gmail.com)
Copyright (c) 2012, 2013 Ugorji Nwoke.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification,
are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice,
 this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.
* Neither the name of the author nor the names of its contributors may be used
 to endorse or promote products derived from this software
 without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an

original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License.

Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution.

You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form,

provided that You meet the following conditions:

You must give any other recipients of the Work or Derivative Works a copy of this License; and
You must cause any modified files to carry prominent notices stating that You changed the files; and
You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.
You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions.

Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks.

This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty.

Unless required by applicable law or agreed to in writing, Licensor provides the

Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability.

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability.

While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

Mozilla Public License Version 2.0
==========

1. Definitions

1.1. "Contributor"
means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"
means Covered Software of a particular Contributor.

1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

(a) that the initial Contributor has attached the notice described
in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"
means any form of the work other than Source Code Form.

1.7. "Larger Work"
means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"
means this document.

1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"
means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"
means the form of the work preferred for making modifications.

1.14. "You" (or "Your")
means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this

License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
************************************************************************
*                                                                      *
*  6. Disclaimer of Warranty                                           *
*  -------------------------                                           *
*                                                                      *
*  Covered Software is provided under this License on an "as is"       *
*  basis, without warranty of any kind, either expressed, implied, or  *
*  statutory, including, without limitation, warranties that the       *
*  Covered Software is free of defects, merchantable, fit for a        *
*  particular purpose or non-infringing. The entire risk as to the     *
*  quality and performance of the Covered Software is with You.        *
*  Should any Covered Software prove defective in any respect, You     *
*  (not any Contributor) assume the cost of any necessary servicing,   *
*  repair, or correction. This disclaimer of warranty constitutes an   *
*  essential part of this License. No use of any Covered Software is   *
*  authorized under this License except under this disclaimer.         *
*                                                                      *
************************************************************************

************************************************************************
```

```
*                                                                      *
*  7. Limitation of Liability                                          *
*  --------------------------                                          *
*                                                                      *
*  Under no circumstances and under no legal theory, whether tort      *
*  (including negligence), contract, or otherwise, shall any           *
*  Contributor, or anyone who distributes Covered Software as          *
*  permitted above, be liable to You for any direct, indirect,         *
*  special, incidental, or consequential damages of any character      *
*  including, without limitation, damages for lost profits, loss of    *
*  goodwill, work stoppage, computer failure or malfunction, or any    *
*  and all other commercial damages or losses, even if such party      *
*  shall have been informed of the possibility of such damages. This   *
*  limitation of liability shall not apply to liability for death or   *
*  personal injury resulting from such party's negligence to the       *
*  extent applicable law prohibits such limitation. Some               *
*  jurisdictions do not allow the exclusion or limitation of           *
*  incidental or consequential damages, so this exclusion and          *
*  limitation may not apply to You.                                    *
*                                                                      *
************************************************************************
```

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section

10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.
MIT License

Copyright (c) 2018 Andrew J. Gillis

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2015 Sermo Digital LLC

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
CoreOS Project
Copyright 2018 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

Copyright 2014-2015 The Prometheus Authors

This product includes software developed at
SoundCloud Ltd. (http://soundcloud.com/).
Mozilla Public License, version 2.0

1. Definitions

1.1. Contributor

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. Contributor Version

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributors Contribution.

1.3. Contribution

means Covered Software of a particular Contributor.

1.4. Covered Software

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. Incompatible With Secondary Licenses
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. Executable Form

means any form of the work other than Source Code Form.

1.7. Larger Work

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. License

means this document.

1.9. Licensable

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. Modifications

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. Patent Claims of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. Secondary License

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. Source Code Form

means the form of the work preferred for making modifications.

1.14. You (or Your)

means an individual or a legal entity exercising rights under this License. For legal entities, You includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, control means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third partys modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted

under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,

provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor

explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an as is basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such partys negligence to the extent applicable law prohibits such limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a partys ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file, then
You may include the notice in a location (such as a LICENSE file in a relevant
directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - Incompatible With Secondary Licenses Notice

This Source Code Form is Incompatible
With Secondary Licenses, as defined by
the Mozilla Public License, v. 2.0.

Copyright (c) 2013, Patrick Mezard
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.
The names of its contributors may not be used to endorse or promote
products derived from this software without specific prior written
permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Mozilla Public License, version 2.0

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.

1.5. "Incompatible With Secondary Licenses"
means

a. that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or

b. that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

a. any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

b. any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants and Conditions

2.1. Grants

Each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

a. under intellectual property rights (other than patent or trademark) Licensable by such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

b. under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

a. for any code that a Contributor has removed from Covered Software; or

b. for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

c. under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

a. such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

b. You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice,

provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, You may do so only on Your own behalf, and not on behalf of any Contributor. You must make it absolutely clear that any such warranty, support, indemnity, or liability obligation is offered by You alone, and You hereby agree to indemnify every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

4. Inability to Comply Due to Statute or Regulation

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Software due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be placed in a text file included with all distributions of the Covered Software under this License. Except to the extent prohibited by statute or regulation, such description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor

are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

6. Disclaimer of Warranty

Covered Software is provided under this License on an "as is" basis, without warranty of any kind, either expressed, implied, or statutory, including, without limitation, warranties that the Covered Software is free of defects, merchantable, fit for a particular purpose or non-infringing. The entire risk as to the quality and performance of the Covered Software is with You. Should any Covered Software prove defective in any respect, You (not any Contributor) assume the cost of any necessary servicing, repair, or correction. This disclaimer of warranty constitutes an essential part of this License. No use of any Covered Software is authorized under this License except under this disclaimer.

7. Limitation of Liability

Under no circumstances and under no legal theory, whether tort (including negligence), contract, or otherwise, shall any Contributor, or anyone who distributes Covered Software as permitted above, be liable to You for any direct, indirect, special, incidental, or consequential damages of any character including, without limitation, damages for lost profits, loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses, even if such party shall have been informed of the possibility of such damages. This limitation of liability shall not apply to liability for death or personal injury resulting from such party's negligence to the extent applicable law prohibits such

limitation. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so this exclusion and limitation may not apply to You.

8. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary

Licenses If You choose to distribute Source Code Form that is
Incompatible With Secondary Licenses under the terms of this version of
the License, the notice described in Exhibit B of this License must be
attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the
terms of the Mozilla Public License, v.
2.0. If a copy of the MPL was not
distributed with this file, You can
obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.

Copyright (c) 2015, Pierre Curto
All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this
 list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright notice,
 this list of conditions and the following disclaimer in the documentation
 and/or other materials provided with the distribution.

* Neither the name of xxHash nor the names of its
 contributors may be used to endorse or promote products derived from
 this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL

DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Microsoft Azure-SDK-for-Go
Copyright 2014-2017 Microsoft

This product includes software developed at
the Microsoft Corporation (https://www.microsoft.com).
The MIT License (MIT)

Copyright (c) 2015 Andrew Smith

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
The MIT License (MIT)

Copyright (c) 2013 Fatih Arslan

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR

```
COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER
IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
// Copyright 2013 The go-github AUTHORS. All rights reserved.
//
// Use of this source code is governed by a BSD-style
// license that can be found in the LICENSE file.

package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`
```

```
 SPDXID        *string   `json:"spdx_id,omitempty"`
 HTMLURL       *string   `json:"html_url,omitempty"`
 Featured      *bool     `json:"featured,omitempty"`
 Description   *string   `json:"description,omitempty"`
 Implementation *string  `json:"implementation,omitempty"`
 Permissions   *[]string `json:"permissions,omitempty"`
 Conditions    *[]string `json:"conditions,omitempty"`
 Limitations   *[]string `json:"limitations,omitempty"`
 Body          *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
```

```
 }

 return license, resp, nil
}
```

(The MIT License)

Copyright (c) 2017 marvin + konsorten GmbH (open-source@konsorten.de)

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the 'Software'), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Anton Povarov <anton.povarov@gmail.com>
Brian Goff <cpuguy83@gmail.com>
Clayton Coleman <ccoleman@redhat.com>
Denis Smirnov <denis.smirnov.91@gmail.com>
DongYun Kang <ceram1000@gmail.com>
Dwayne Schultz <dschultz@pivotal.io>
Georg Apitz <gapitz@pivotal.io>
Gustav Paul <gustav.paul@gmail.com>
Johan Brandhorst <johan.brandhorst@gmail.com>
John Shahid <jvshahid@gmail.com>
John Tuley <john@tuley.org>
Laurent <laurent@adyoulike.com>
Patrick Lee <patrick@dropbox.com>
Peter Edge <peter.edge@gmail.com>
Roger Johansson <rogeralsing@gmail.com>
Sam Nguyen <sam.nguyen@sendgrid.com>
Sergio Arbeo <serabe@gmail.com>
Stephen J Day <stephen.day@docker.com>
Tamir Duberstein <tamird@gmail.com>
Todd Eisenberger <teisenberger@dropbox.com>
Tormod Erevik Lea <tormodlea@gmail.com>
Vyacheslav Kim <kane@sendgrid.com>
Walter Schulze <awalterschulze@gmail.com>

Copyright (c) 2015 Datadog, Inc

Permission is hereby granted, free of charge, to any person obtaining a copy

of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
SAP HANA Database driver for the Go Programming Language
Copyright 2014 SAP SE

This product includes software developed at
SAP SE (http://www.sap.com).
Copyright (c) 2012 Dave Grijalva

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
MIT License

Copyright (c) 2017 Blake Gentry

This license applies to the non-Windows portions of this library. The Windows
portion maintains its own Apache 2.0 license.

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell

copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all
copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction,
and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by
the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all
other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
"control" means (i) the power, direct or indirect, to cause the
direction or management of such entity, whether by contract or
otherwise, or (ii) ownership of fifty percent (50%) or more of the
outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity
exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications,
including but not limited to software source code, documentation
source, and configuration files.

"Object" form shall mean any form resulting from mechanical
transformation or translation of a Source form, including but
not limited to compiled object code, generated documentation,
and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or

Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work

or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work

by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "[]"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [2013] [the CloudFoundry Authors]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
Copyright 2012 Keith Rarick

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in
all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007

Copyright (C) 2007 Free Software Foundation, Inc. {http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works.

The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we

have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"

to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that

same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice;

keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms

of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
copy of the Corresponding Source for all the software in the
product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

d) Limiting the use for publicity purposes of names of licensors or authors of the material; or

e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further

restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission

to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free

patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least

the "copyright" line and a pointer to where the full notice is found.

{one line to give the program's name and a brief idea of what it does.}
Copyright (C) {year} {name of author}

This program is free software: you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

This program is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program. If not, see {http://www.gnu.org/licenses/}.

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

cronexpr Copyright (C) 2013 Raymond Hill
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
{http://www.gnu.org/licenses/}.

The GNU General Public License does not permit incorporating your program
into proprietary programs. If your program is a subroutine library, you
may consider it more useful to permit linking proprietary applications with
the library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License. But first, please read
{http://www.gnu.org/philosophy/why-not-lgpl.html}.
Copyright (c) 2013 Google. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are
met:

* Redistributions of source code must retain the above copyright
notice, this list of conditions and the following disclaimer.
* Redistributions in binary form must reproduce the above
copyright notice, this list of conditions and the following disclaimer
in the documentation and/or other materials provided with the
distribution.
* Neither the name of Google Inc. nor the names of its
contributors may be used to endorse or promote products derived from
this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

You can find the Docker license at the following link:
https://raw.githubusercontent.com/docker/docker/master/LICENSE
package license

```
// Features is a bitmask of feature flags
type Features uint

const FeatureNone Features = 0

func (f Features) HasFeature(flag Features) bool {
 return false
}
```

Copyright (c) 2012-2017 Patrick Mylund Nielsen and the go-cache contributors

Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
copies of the Software, and to permit persons to whom the Software is
furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in

all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
CoreOS Project
Copyright 2014 CoreOS, Inc

This product includes software developed at CoreOS, Inc.
(http://www.coreos.com/).
The MIT License (MIT)

Copyright (c) 2015 Microsoft Corporation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries.To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2023 Cisco Systems, Inc. All rights reserved.